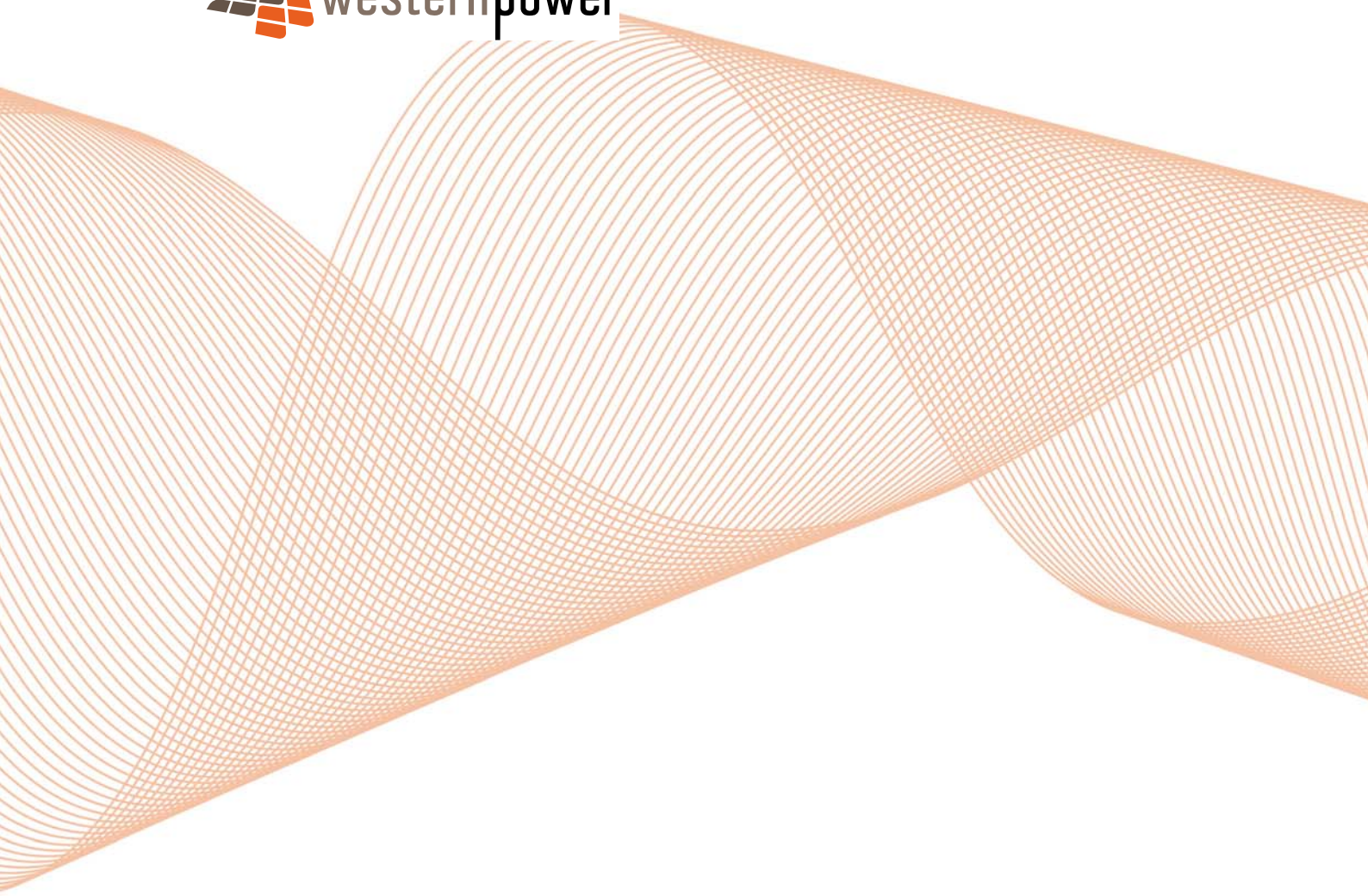
Appendix Q – ROAM Report - Generation Scenario Development for AA3 2011-2020

September 2011



ROAM CONSULTING
ENERGY MODELLING EXPERTISE

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Report (WEP00017) to

Generation Scenarios for 2011 Revenue Reset Application

17 February 2011

VERSION HISTORY

Version History					
Revision	**Date Issued**	**Prepared By**	**Approved By**	**Date Approved**	**Revision Type**
0.5	2010-05-27	Jenny Riesz Andrew Turley	Ian Rose	2010-05-27	Outlook development and generation list
1	2010-06-15	Jenny Riesz Andrew Turley	Ian Rose	2010-06-15	Draft
1.1	2010-06-29	Jenny Riesz Andrew Turley	Ian Rose	2010-06-29	Report with minor edits
1.2	2010-08-30	Jenny Riesz Andrew Turley	Ian Rose	2010-08-30	Report with minor edits
1.3	2011-02-17	Andrew Turley	Ian Rose	2010-02-17	Final Report

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1) BACKGROUND

The energy sector is facing considerable changes over the next decade. The possible introduction of some form of carbon trading scheme, with the legislated expansion of the Renewable Energy Target, will significantly change the fundamental economic competitiveness of traditional thermal generators. Coal fired generators will become significantly disadvantaged, and over time could retire, be mothballed for several years, or revert to an intermediate role with combined cycle gas fired generators becoming base-load providers of electricity. The outcome will be a trade off between the disadvantage of a higher price for gas as a fuel and the advantage of lower CO2 emissions.

Transmission Network Service Providers also are exposed to the changes in the energy sector. Increased use of transmission services will be necessary should the market succeed in delivering a broad mix of diversely located renewable energy generators to the grid. Furthermore, improving energy efficiency by reducing transmission losses may provide incentives to upgrade existing transmission corridors.

Emerging technologies, such as carbon capture and storage for coal fired generators and integrated gasification combined cycle (IGCC) may begin to mature, and provide an alternative to gas and renewable generators in a carbon constrained future.

Western Australia is expected to contribute its share towards reducing emissions, with significant capacities of wind generation expected to enter the market. Gas fired generators are expected to dominate new generation projects, although the emergence of the liquefied natural gas (LNG) export industry may increase domestic gas prices such that the benefit of lower emissions, and therefore more competitive market bids, compared to coal generators may be negated to some extent.

Developments in Western Australia in the next decade are highly uncertain. The most significant factors for consideration in scenario modelling are likely to be:

- Level of ambition of Australia's likely Carbon Price Trajectory (CPT)
    - The Rudd Labor Government has committed to emissions reduction targets of 5% to 25% by 2020 from 2000 levels. There is bipartisan support for a 5% target, although it is unclear whether the opposition target would directly involve the electricity sector. There has been substantial difficulty in passing legislation for a domestic emissions trading scheme, which makes further delay in the implementation of domestic carbon pricing possible.
- Demand growth
    - Western Power has proposed 2 demand growth possibilities (central and high), which have been provided to ROAM.
- Availability of gas for electricity generation
    - The further development of LNG export facilities in Western Australia is likely to maintain the high prices of domestic gas. If there is very aggressive growth in this industry it could be difficult for new gas-fired generation to obtain gas at a competitive price, pressuring new generation projects into other technology types.
- Wind ambition

- The SWIS has excellent wind resources, which have attracted significant interest in wind generation development in the SWIS. However, as an isolated grid, there are limitations on the quantity of wind generation that can be accommodated without changes to various market rules and other technical factors. If there is a significant level of ambition to overcome these factors, wind development in the SWIS could be substantial. However, without this ambition wind development is likely to be very moderate.

2) SCOPE

Western Power is commencing work on their Revenue Reset Application for five years commencing 1 July 2012 and has requested ROAM Consulting to provide expert advice on generation scenarios that may influence future transmission development in the SWIS. Western Power has requested a probabilistic planning approach.

This will include:

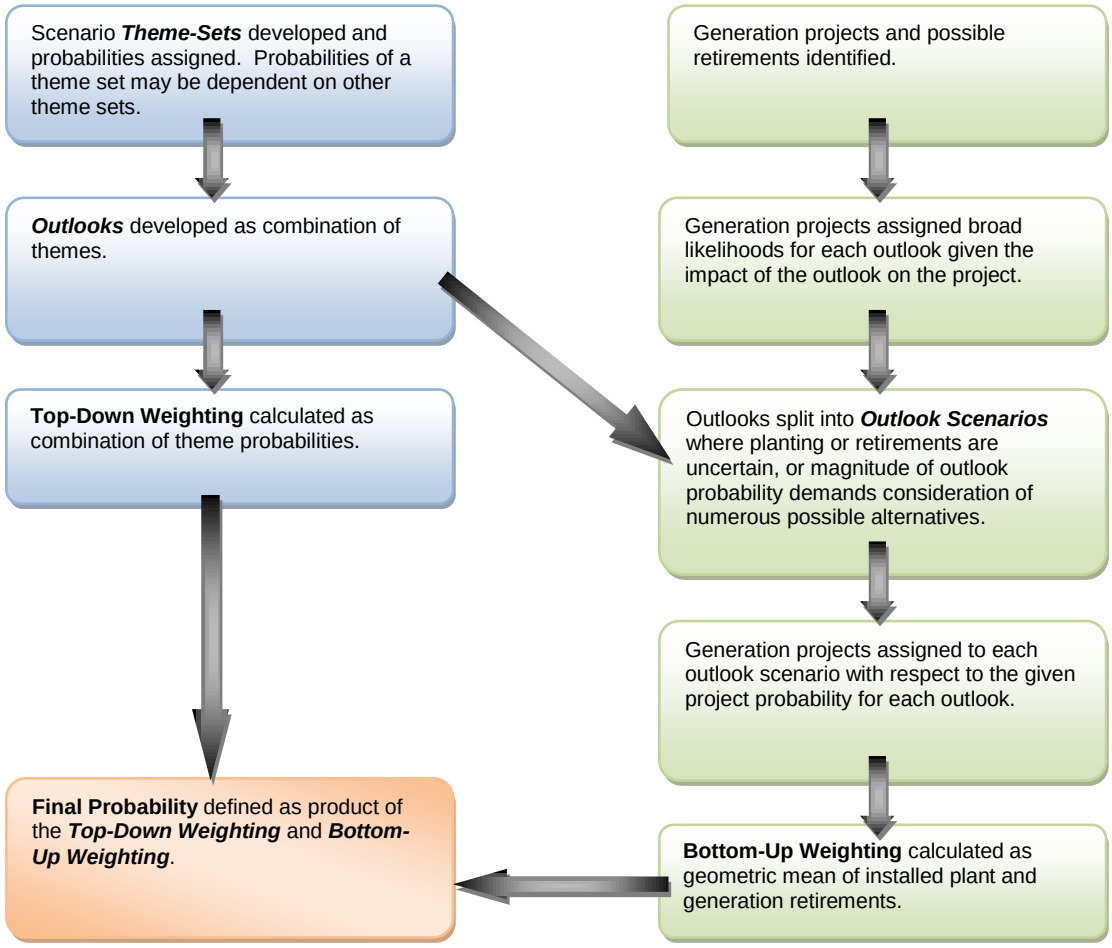
- development of a suitable number of themes and associated scenarios to cover the full range of anticipated demand and supply scenarios
- identification of scenario probabilities
- preparation of a full list of potential generation developments for the SWIS and associated project likelihoods
- preparation of generation development plans for each scenario
- development of probabilities for each scenario based on a combined top down ranking of scenario probabilities and bottom up ranking of projects.

The forecast period for this analysis is to 2020-21, which encompasses Western Power's next revenue reset period.

3) METHODOLOGY

ROAM Consulting's (ROAM) scenario analysis methodology has been developed to support transmission network service providers' revenue reset applications. The methodology provides a probabilistic assessment of generation and load development options over a ten year period, comprising the five year revenue reset period and a number of years post-revenue reset for which to assess any end-effects. The approach is summarised in the diagram below:

Figure 2.1 – Methodology for assessing market development scenarios



The sections which follow discuss each of the steps of the methodology.

PART A: DETERMINE OUTLOOKS (TOP DOWN APPROACH)

Part A involves defining the external drivers that will influence the development of the electricity sector, and assigning probabilities to those drivers. The result of this is a series of *outlooks*, which define the potential futures the electricity market will respond to.

Step 1: Definition of external drivers (themes)

The first stage is to define the external drivers that are most important to the electricity market. These are external factors that the electricity market has no control over, but will respond to.

The combination of these themes creates *outlooks*, where an outlook defines a possible future that the electricity market will respond to. By linking themes in the determination of probabilities, some outlooks can be eliminated as extremely unlikely.

Step 2: Ascribe probabilities to external drivers (themes)

ROAM has ascribed probabilities to each theme in the following way.

The most independent theme is considered first, with probabilities ascribed to the various possibilities for that theme.

An example of an initial theme would be the level of ambition of the CPT since this is relatively independent of the other themes, being decided by the Federal Government based upon international commitments.

The other themes are then ascribed probabilities sequentially, with the probabilities being dependent upon the option of the earlier themes. For example, the second theme may be the load growth. Demand projection probabilities are dependent upon the CPT options for each outlook. A low emissions reduction target (-5%) will allow high growth to continue with a higher probability, whereas a very deep target (-25%) is likely to inspire greater levels of energy efficiency, and reduced demand growth.

Step 3: Calculate probabilities of each outlook

The resulting outlook probabilities are calculated as the product of probabilities of each theme for that outlook. Since probabilities are allowed to be varied depending upon the outlook, more informed choices can be made about the likelihood of various aspects, given the other assumptions of the outlook. This results in some outlooks receiving a zero probability weighting, which eliminates them from the solution set.

Part B: Determine planting schedules (Bottom Up Approach)

Part B involves determining likely planting schedules that will develop in response to the outlooks defined in Part A. Even within a particular outlook, there is uncertainty regarding the way that investors and market participants will respond to the external drivers. Therefore, multiple planting schedules may be developed for each outlook, with probabilities calculated according to the probabilities of each plant included in that schedule. This captures the uncertainty of the market's responses to external drivers, separate from the uncertainty in those drivers.

Step 1: Determine a list of all possible plants

Firstly, a list of all the possible plants that could be included in the outlook period for the region of interest is developed. This includes all significant committed, announced and proposed projects (gas, coal and renewable).

Step 2: Determine a list of all possible retirements

In step 2, a list of all the possible plants that may retire in the outlook period for the region of interest is developed. This is based upon ROAM's extensive research and modelling of Australia's likely carbon price trajectory under various outlooks and scenarios, together with the condition of older plant.

Step 3: Assign initial probabilities

Following substantial research into each project and retirement, an initial ranking is assigned to capture their relative likelihoods of being constructed (or retired). These rankings are dependent upon the outlook, since the probability of construction (or retirement) of a particular plant will depend upon the external drivers (such as the demand forecast, the CPT target, and the expansion of the LNG export industry).

Step 4: Planting schedules are developed

In this step, planting schedules for each scenario are developed. A particular *scenario* consists of a particular planting schedule within a particular outlook (each unique planting schedule is a *scenario*). The number of scenarios developed for each outlook can vary depending upon the variety of alternatives available for planting each outlook, taking into consideration which variations are likely to be significant to the modelling.

The following factors are taken into account in ROAM's development of each outlook's planting (and retirement) schedules, in addition to the themes of each outlook:

1. ***Estimated initial probabilities of each plant.*** Plants are included broadly in proportion to their initial estimated probabilities, determined from ROAM's market research and modelling.
2. ***Demand.*** Plants are constructed to achieve the Reserve Capacity Target stipulated by the IMO, with a likely margin above that representing entry of competitive generation above the target.
3. ***Carbon Price Trajectory.*** With a milder emissions reduction target (0% - 5%), more emissions intensive plant is allowed, as the penalty for emitting is less arduous for these plants. With higher emissions targets more renewable plant is included. Anticipated average emissions factors for each plant type are used to predict likely emissions from each planting schedule under development, to inform the planting. The price points at which plant type changeover will occur is informed by ROAM's extensive modelling and research.
4. ***Gas market development***. If gas availability is unrestricted, the majority of future development is likely to be in gas-fired technologies. If gas supplies are limited,

however, coal-fired and renewable energy projects are likely to be more favourable for development.

5. ***Energy projections.*** ROAM uses estimated average capacity factors for each plant type to estimate the likely energy generated from a particular planting mix, in relation to energy consumption forecasts. This ensures that the plant mix (baseload, intermediate and peaking) is feasible.
6. ***Plant locations.*** The locations of new plants are considered in the development of planting schedules, in conjunction with any known limiting factors around plant location. Known transmission limitations are taken into consideration.
7. ***Other factors.*** ROAM also uses market knowledge and experience to take into consideration any other factors that may be important in the development of the market.

In planting each of the scenarios, a number of *iterations* are performed and cross-checks completed in order to reach a plausible planting outcome for each scenario.

Part C: Determination of Final Project probabilities

The final probabilities for each proposed generator (and retirement) can be calculated as the sum of the scenario probabilities in which the generator is installed. A generator which is installed in many scenarios is likely to have a higher overall probability, depending upon the probability of the scenarios it is planted within. Similarly, a generator which is installed in only a select few scenarios is likely to have a lower overall probability, depending upon the probability of the scenarios it is planted within.

4) Proposed themes

ROAM has used the following themes for developing outlooks.

4.1) Load

Western Power has provided two load forecasts:

1. Central
2. High

These are Western Power's 2010 demand projections for a 10% probability of exceedance level.

A "Low" forecast was not included, since demand growth less than the "Central" projection is considered to have a low probability. In addition, a low growth forecast represents close to a "do nothing" scenario from the point of view of transmission network development, and is therefore not a useful scenario for analysis under this framework. The Central and High demand forecasts are more useful for exploring potential necessary upgrades to the transmission network that may be required in the most likely scenarios.

These peak demand forecasts were provided to ROAM on an "as delivered" basis. ROAM converted these to a "sent out" basis based upon actual losses in 2009 at time of peak demand. In 2009 peak demand occurred on 11th February, and is listed in the IMO Statement of Opportunities (SOO) to have been 3,515 MW on a sent out basis. Simultaneously Western Power recorded a peak demand of 3,357 MW on an "as delivered" basis. This suggests network losses of 5.1% at time of peak demand, which was applied to peak demand projections throughout the study period.

The figure and table below illustrate the peak demand forecasts used in this study. These values have been converted to "sent out", and include the reserve margin (8.2% of forecast peak demand including transmission losses and allowing for intermittent loads).

Figure 4.1 – Peak Capacity Requirement (sent out)

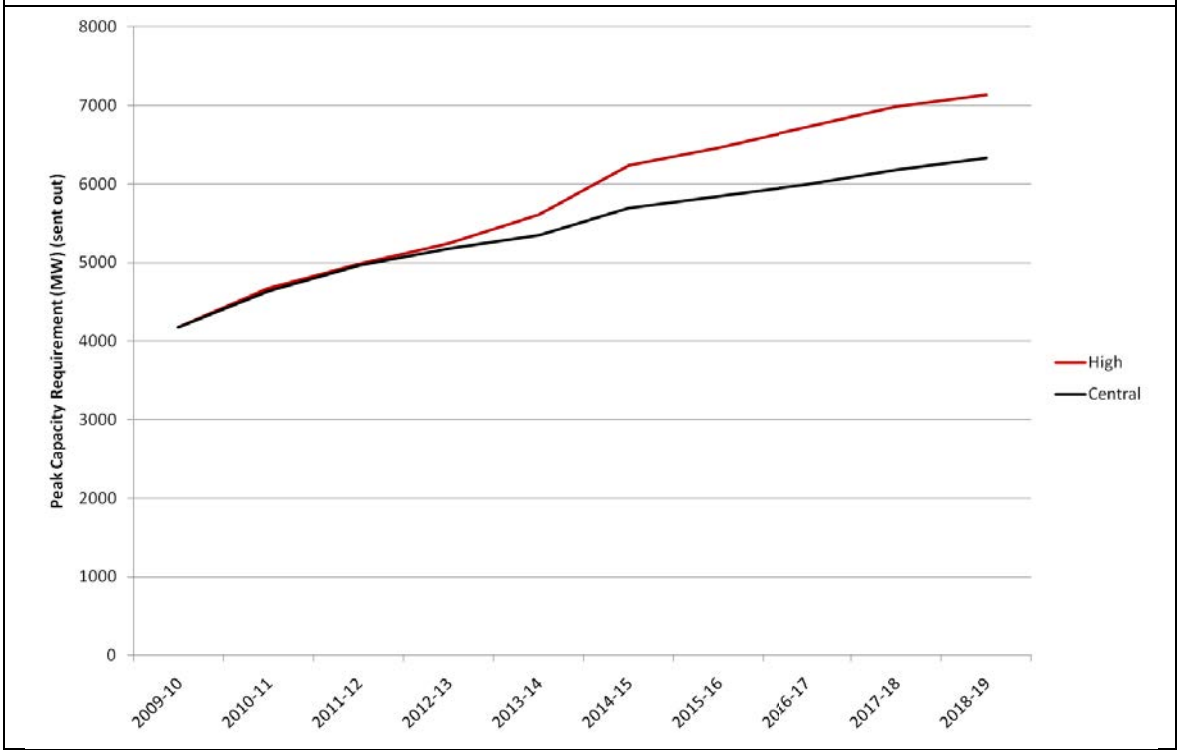


Table 4.1 – Peak Capacity Requirement (sent out)

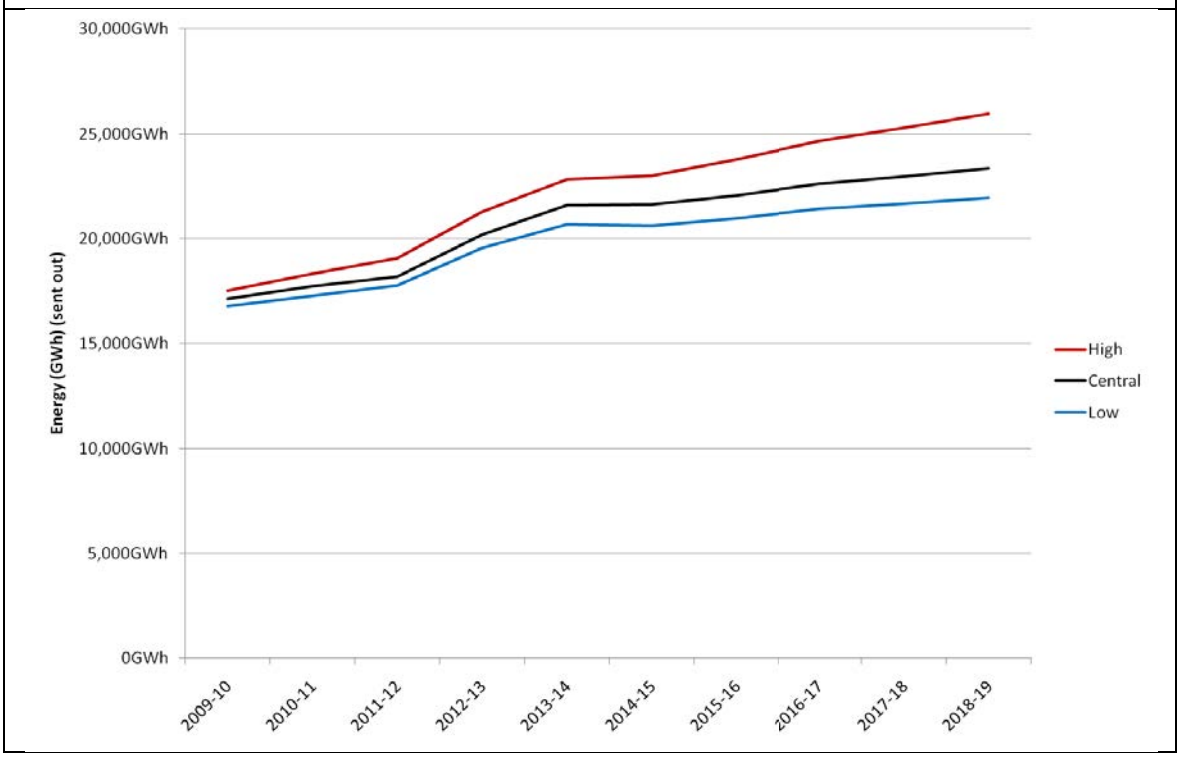
	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
High	4180	4674	4983	5249	5609	6241	6467	6722	6991	7139
Central	4180	4639	4961	5176	5351	5699	5847	5995	6184	6327

Western Power have advised that each load forecast is considered to have the same (i.e. 50%) likelihood of occurring. Both the Central and High projections represent relatively moderate levels of growth (neither represents an extreme case), and therefore both have high probabilities of occurrence. The contribution of known block loads has been included

in the early years of the projection, but further block loads may develop later in the study period that are not yet announced. This may mean that these demand forecasts could be an underestimate of peak demand, particularly in the later years of the study.

ROAM has used energy projections from the IMO Statement of Opportunities (SOO) 2009. These are provided in the SOO on a sent out basis, as is illustrated in the figure below. Energy projections are not used to assess the installed capacity, but rather the mix of plant that is needed to deliver the energy needs of the SWIS.

Figure 4.2 – Energy forecasts (IMO SOO 2009) (sent out)



4.2) CARBON PRICE TRAJECTORY

The Carbon Pollution Reduction Scheme (CPRS) has faced substantial opposition, failing to pass through the Senate multiple times. There is therefore uncertainty about the future of this legislation. However, both the Rudd Labor Government and the Opposition have committed to a 5% reduction in emissions from 2000 levels by 2020. The details of the Opposition's proposed methods of achieving this are unclear, but it can be expected that the electricity sector is likely to be involved, as the largest single contributor to emissions in Australia. Internationally there is also growing pressure for emissions reduction, which is likely to have consequences for the Australian economy.

For these reasons ROAM has included various carbon price trajectories in the modelled scenarios in this study, recognising the substantial potential impact of a carbon price on the electricity sector and the uncertainty in this area.

ROAM has included three options for the CPT; 0%, 5%, and 15% reduction below 2000 levels by 2020. The CPT (combined with other factors) contributes to the likelihood of retirements in each scenario.

4.3) GAS AVAILABILITY

There are significant gas reserves available in northern WA. However, in the near future the LNG export industry is likely to rapidly expand, increasing gas prices to international parity. This may significantly reduce the competitiveness of gas-fired plant in the SWIS. In addition, obtaining sufficient gas supplies may become challenging.

Two alternatives for gas availability to the electricity sector in the SWIS have been included:

1. Abundant gas supplies are available for electricity generation in the SWIS at a competitive price owing to reduced demand for LNG internationally and/or a wider range of suppliers of this commodity
2. Limited gas supplies are available for electricity generation in the SWIS, either due to very high prices (uncompetitive), or supply constraints resulting from expanded LNG exports.

4.4) WIND AMBITION

The SWIS has excellent wind resources, with wind farms achieving capacity factors of approximately 40%. This is significantly better than the wind resource in other parts of Australia (for example, wind farms in South Australia typically achieve capacity factors of ~30%). The capacity factor of a wind farm is the most important determining factor in the profitability of a wind development, so this is a significant driver for wind penetration in the SWIS.

However, as an isolated grid the SWIS has major challenges with high levels of wind penetration. Frequency control ancillary services are likely to become substantially more expensive to provide, and significant changes to the market are likely to be required in order to facilitate wind development. Without these changes it is likely to be prohibitively difficult for wind generation to develop to levels in the SWIS consistent with the 20% by 2020 target for renewable under the RET legislation.

For these reasons, the level of ambition of the WA Government and other relevant stakeholders is a significant determining factor in the amount of wind generation that enters in the SWIS. Two alternatives for the level of wind ambition have been included:

1. There is a high level of ambition, and the necessary changes to market structure and technical factors are made, facilitating significant wind development in the SWIS

2. There is a lower level of ambition, and wind development in the SWIS is limited by technical and cost prohibitive factors (for example, around frequency control ancillary services).

5) OUTLOOK DEVELOPMENT

Carbon Price Trajectory

The level of the CPT is likely to be determined relatively independently of other factors in the Australian domestic economy; the probabilities listed in the table below have therefore been used for this study based upon the current political outlook.

Table 5.1 – CPT outcome probabilities

CPT outcome (% reduction from 2000 levels by 2020)	Probability of occurrence
0%	25%
5%	40%
15%	35%

Load growth

The amount of load growth is likely to be connected to the CPT outcome. A very deep target for emissions reduction is likely to drive significant investment in energy efficiency and other demand side management technologies.

Probabilities are arranged such that the overall probability of a demand occurring (when taking into account the ascribed probabilities of the CPT outcomes they are associated with) sum to those required.

Table 5.2 – Load growth probabilities		
CPT outcome (% reduction from 2000 levels by 2020)	**Load growth**	**Probability**
0%	High (HIGH)	70%
	Central (CNTRL)	30%
5%	High (HIGH)	60%
	Central (CNTRL)	40%
15%	High (HIGH)	25%
	Central (CNTRL)	75%

Unlike the CPT probabilities, which are independent of other themes, the likelihood of high, medium or low load growth depend upon the CPT theme. Western Power and ROAM have agreed that the load forecasts have equal probabilities (50% / 50% for Central and High). ROAM has therefore moderated the probabilities of the load growth theme-sets given the probability of the parent CPT theme-set, such that the overall load growth probabilities are in line with the target values.

Gas Availability

The availability of gas was considered to be relatively independent of other themes, with probabilities as listed in the table below.

Table 5.3 – Gas availability probabilities	
Gas availability	**Probability of occurrence**
Abundant (ABUND)	30%
Limited (LIMTD)	70%

Wind ambition

The level of wind ambition was considered to be relatively independent of other themes, with probabilities as listed in the table below.

Table 5.4 – Wind ambition probabilities	
Wind ambition level	**Probability of occurrence**
High (HI)	40%
Low (LO)	60%

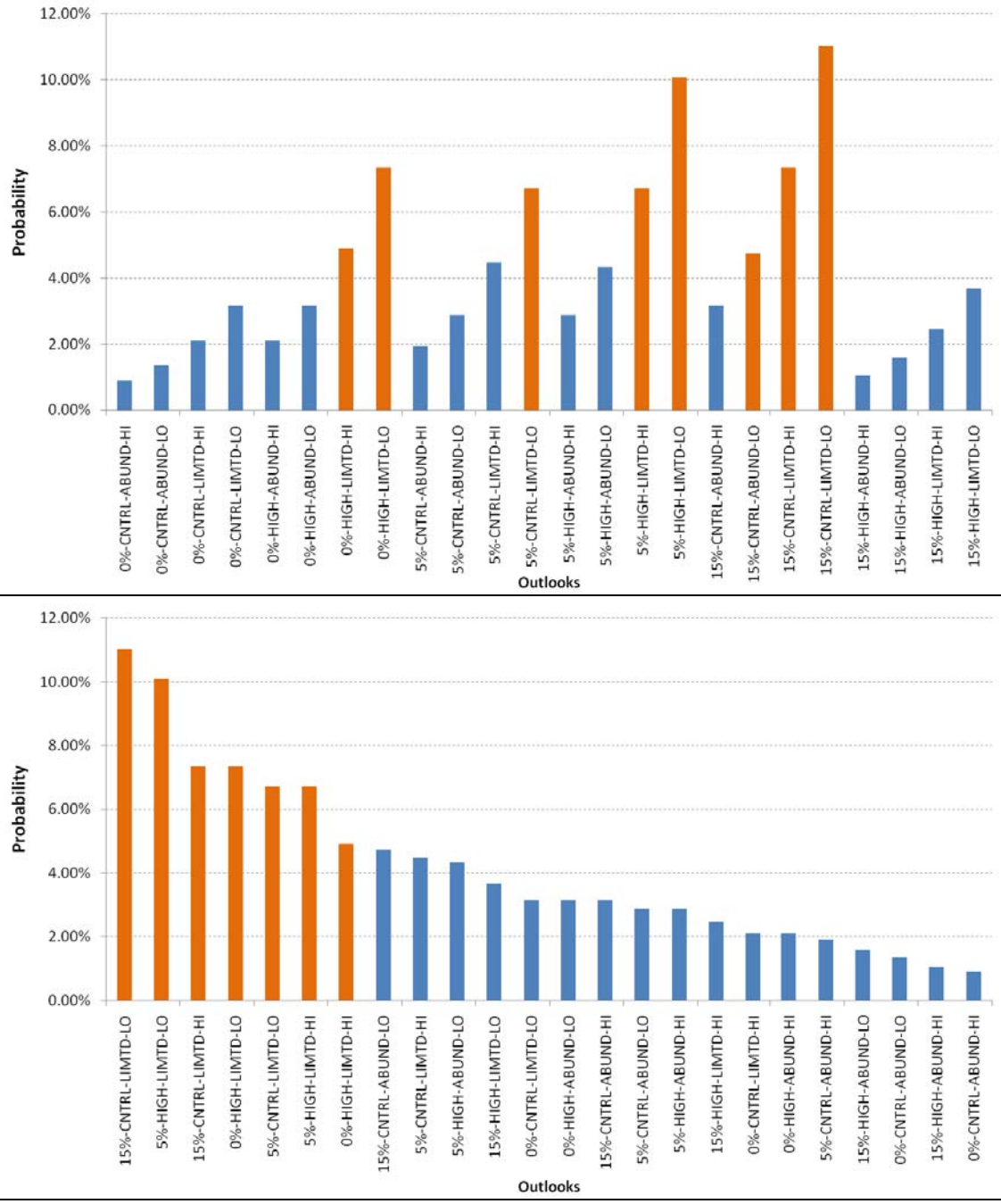
Outlook probabilities

These combinations of themes produce the outlooks listed in the tables below for each demand set. The table below highlights the most likely eight scenarios which provide a spread of likely future outcomes and warrant further analysis by Western Power. Outlooks that are not included in the most probable eight outlooks are greyed in the table.

Table 5.5 – Outlook probabilities		
Outlook #	**Outlook name (CPT – Demand – Gas – Wind)**	**Probability**
1	0%-CNTRL-ABUND-HI	0.90%
2	0%-CNTRL-ABUND-LO	1.35%
3	0%-CNTRL-LIMTD-HI	2.10%
4	0%-CNTRL-LIMTD-LO	3.15%
5	0%-HIGH-ABUND-HI	2.10%
6	0%-HIGH-ABUND-LO	3.15%
7	0%-HIGH-LIMTD-HI	4.90%
8	0%-HIGH-LIMTD-LO	7.35%
9	5%-CNTRL-ABUND-HI	1.92%
10	5%-CNTRL-ABUND-LO	2.88%
11	5%-CNTRL-LIMTD-HI	4.48%
12	5%-CNTRL-LIMTD-LO	6.72%
13	5%-HIGH-ABUND-HI	2.88%
14	5%-HIGH-ABUND-LO	4.32%
15	5%-HIGH-LIMTD-HI	6.72%
16	5%-HIGH-LIMTD-LO	10.08%
17	15%-CNTRL-ABUND-HI	3.15%
18	15%-CNTRL-ABUND-LO	4.73%
19	15%-CNTRL-LIMTD-HI	7.35%
20	15%-CNTRL-LIMTD-LO	11.03%
21	15%-HIGH-ABUND-HI	1.05%
22	15%-HIGH-ABUND-LO	1.58%
23	15%-HIGH-LIMTD-HI	2.45%
24	15%-HIGH-LIMTD-LO	3.68%

This results in 24 unique scenarios, which ROAM has developed with planting schedules. The above probabilities are shown graphically in the figure below.

Figure 5.1 – Outlook Probabilities
Eight most probable outlooks are highlighted in orange



The eight most probable outlooks are listed in order of probability in the table below.

Table 5.6 – Outlook probabilities		
Outlook #	**Outlook name**	**Probability**
20	15%-CNTRL-LIMTD-LO	11.03%
16	5%-HIGH-LIMTD-LO	10.08%
8	0%-HIGH-LIMTD-LO	7.35%
19	15%-CNTRL-LIMTD-HI	7.35%
12	5%-CNTRL-LIMTD-LO	6.72%
15	5%-HIGH-LIMTD-HI	6.72%
7	0%-HIGH-LIMTD-HI	4.90%
18	15%-CNTRL-ABUND-LO	4.73%

5.1) PART B: DETERMINE PLANTING SCHEDULES

Part B involves determining likely planting schedules that may develop in response to the outlooks defined in Part A.

Step 1: Determine a list of all possible plants

Firstly, a list of all existing plant in the SWIS has been developed (refer to Table 5.7). This is important in determining the shortfall of generation required to meet reserve capacity levels (as determined via the peak demand projections).

This plant list is taken from the IMO Statement of Opportunities (SOO) 2009. The SOO lists nameplate capacities which ROAM has converted to a sent out basis by subtraction of likely auxiliary loads (listed in Table 5.10).

Table 5.7 – Existing plant in the SWIS (IMO SOO 2009)			
Station Name	**Type**	**Nameplate capacity (MW)**	**Sent Out Capacity (MW)**
ALBANY_WF1	Wind	21.6	21.6
ALCOA_KWI	Cogen	5.0	4.9
ALCOA_PNJ	Cogen	10.0	9.7
ALCOA_WGP	Cogen	25.0	24.3
Alinta_PNJ_U1	Cogen	142.0	137.9
Alinta_PNJ_U2	Cogen	142.0	137.9
Alinta_WGP_GT	OCGT	190.0	188.1

Alinta_WGP_GT2	OCGT	190.0	188.1
Alinta_WWF	Wind	89.1	89.1
BW1_BLUEWATERS_G1	Coal	229.0	206.6
BW2_BLUEWATERS_G1	Coal	229.0	206.6
BW2_BLUEWATERS_UPG	Coal	0.0	0.0
BRIDGETOWN_BIOMASS_PLANT	Biomass	44.0	44.0
COCKBURN_CCG1	CCGT	240.8	233.8
COLLIE_G1	Coal	330.0	297.7
EDWFMAN_WF1	Wind	80.0	80.0
GERALDTON_GT1	Diesel	21.0	20.8
INVESTEC_COLLGAR_WF1	Wind	0.0	0.0
KEMERTON_GT11	OCGT	156.0	154.4
KEMERTON_GT12	OCGT	156.0	154.4
KWINANA_G1	Coal	120.0	108.2
KWINANA_G2	Coal	120.0	108.2
KWINANA_G5	Coal	200.0	180.4
KWINANA_G6	Coal	200.0	180.4
Kwinana Cogen PPP_KCP_EG1	Cogen	116.0	112.6
KWINANA_GT1	OCGT	20.9	20.7
MUJA_G5	Coal	200.0	180.4
MUJA_G6	Coal	200.0	180.4
MUJA_G7	Coal	200.0	180.4
MUJA_G8	Coal	200.0	180.4
MUNGARRA_GT1	OCGT	37.4	37.0
MUNGARRA_GT2	OCGT	37.4	37.0
MUNGARRA_GT3	OCGT	38.3	38.0
NEWGEN_KWINANA_CCG1	CCGT	320.0	310.7
NEWGEN_NEERABUP_GT1	OCGT	330.0	326.7
PRK_AG	OCGT	68.0	67.3
PERTH_ENERGY_GT1	OCGT	120.0	118.8
PINJAR_GT01	OCGT	37.4	37.0
PINJAR_GT02	OCGT	37.4	37.0
PINJAR_GT03	OCGT	38.3	38.0
PINJAR_GT04	OCGT	38.3	38.0
PINJAR_GT05	OCGT	38.3	38.0
PINJAR_GT07	OCGT	38.3	38.0
PINJAR_GT09	OCGT	116.4	115.2
PINJAR_GT10	OCGT	116.4	115.2
PINJAR_GT11	OCGT	123.4	122.2
STHRNCRS_EG	OCGT	23.0	22.8
SWCJV_WORSLEY_COGEN_COG1	Cogen	123.0	119.4
TIWEST_COG1	Cogen	38.1	37.0
WEST_KALGOORLIE_GT2	Diesel	38.4	38.0

WEST_KALGOORLIE_GT3	Diesel	24.8	24.6
TOTAL	**-**	**5660.2**	**5387.8**

Secondly, a list of all the possible plants that could be included in the outlook period for the region of interest has been developed. This includes all significant committed, announced and proposed projects (gas, coal and renewable). Table 5.8 below shows the list of all plant included for this assessment, as well as capacity, status and announced timings.

Table 5.8 – Committed, advanced and proposed generation options for installation

Station Name	Type	Location	Nameplate Capacity (MW)	Sent out Capacity (MW)	Sent out Capacity for Reliability (MW)
Kwinana HEGT	CCGT	Kwinana	194	188	188.374
Collgar Stage 1	Wind	East Country	206	206	41.2
DSM 1	DSM	SWIS	50	50	50
Muja AB	Coal	Muja	220	198	198.44
Merredin	Diesel	East Country	74	73	73.26
Badgingarra	Wind	North Country	130	130	26
DSM 2	DSM	SWIS	50	50	50
Carnegie Wave 1	Wave	Kwinana	5	5	2
DSM 3	DSM	SWIS	50	50	50
Collgar Stage 2	Wind	East Country	30	30	6
Spiritwest Neerabup	Biomass	Northern Terminal	29.9	30	29.9
Grasmere	Wind	Muja	14	14	2.8
Milyeannup	Wind	Bunbury	55	55	11
Alinta Walkaway 2	Wind	North Country	94	94	18.8
Nilgen	Wind	North Country	132	132	26.4
Mingenew Solar Thermal 1	Solar Thermal	North Country	50	45	22.5
Coolimba Aviva Coal	Coal	North Country	400	361	360.8
Newworld Geothermal 1	Geo	North Country	5	4	4.25
Bluewaters 3	Coal	Muja	215	194	193.93
Bluewaters 4	Coal	Muja	215	194	193.93
DSM 4	DSM	SWIS	77	77	77
Kalgoorlie 2	Solar PV	Eastern Goldfields	1.77	2	0.885
Centauri 1	OCGT	North Country	168	166	166.32
Augusta	Wind	Bubury	50	50	10
Dandaragan - Yandin	Wind	North Country	389.4	389	77.88
Dandaragan - Waddi	Wind	North Country	198	198	39.6
Henderson	Wind	South Fremantle	60	60	12

Cervantes	Wind	North Country	40	40	8
Mingenew Solar Thermal 2	Solar Thermal	North Country	50	45	22.5
Mingenew Solar Thermal 3	Solar Thermal	North Country	150	135	67.5
Mumbida	Wind	North Country	90	90	18
Joanna Plains	Wind	North Country	40	40	8
Coolimba OCGT	OCGT	North Country	360	356	356.4

Figure 5.2 and Figure 5.3 illustrate the resulting supply demand balance based upon these peak demand projections, existing plant, and announced new plant (all installed in 2020-21 for illustration of its relative aggregate magnitude). There is sufficient new plant announced to meet the demand projections in both cases. A supply-demand shortfall first occurs in 2013-14 in the Central case, and in 2012-13 in the High case.

Figure 5.2 – Supply Demand Balance (High demand growth)

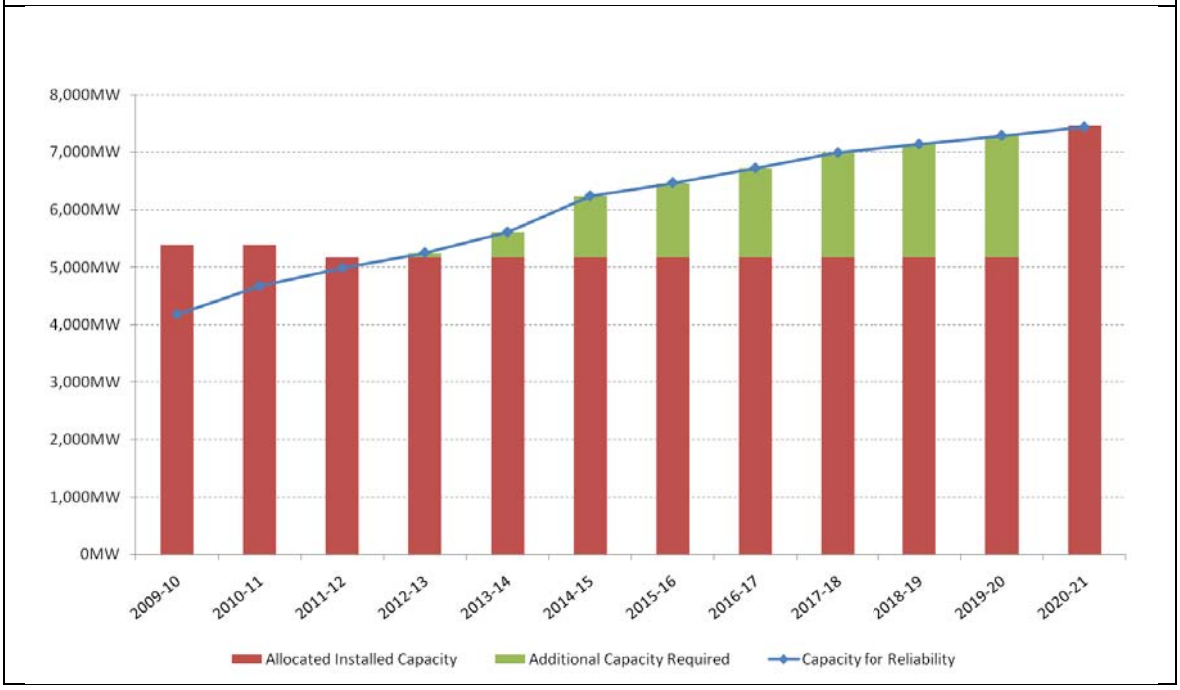
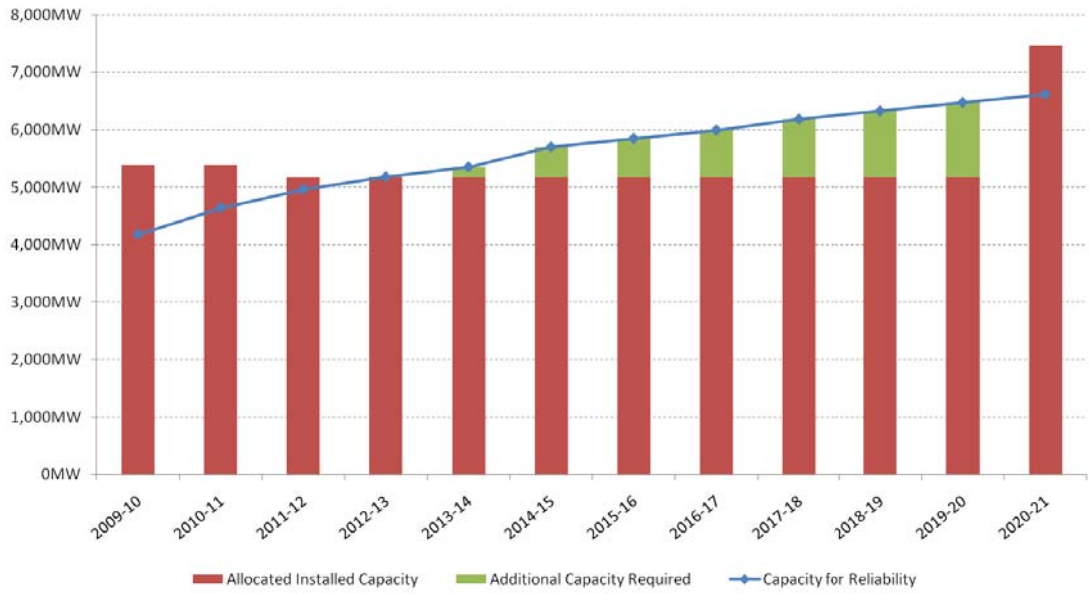


Figure 5.3 – Supply Demand Balance (Central demand growth)



In addition to announced plant, ROAM has used the hypothetical plant included in the list below as possibilities for development (Table 5.9). Including additional hypothetical plant allows additional flexibility in the planting process, and assists in producing a more realistic outcome. There is very little peaking generation (OCGT) announced, and based upon market drivers ROAM believes the development of quantities of OCGT plant is likely. CCGT plant is also likely in the scenarios where gas supplies are abundant.

Hypothetical plant locations were selected on the basis of:

- Availability of gas supply
- Adequate transmission capability
- Proximity to local load exhibiting growth
- Remoteness from residential areas

Hypothetical OCGTs in North Country are assumed to be associated with new load in that area (included as block loads in the High growth case in particular).

Table 5.9 – Hypothetical generation options for installation

Station Name	Type	Location	Nameplate Capacity (MW)	Sent out Capacity (MW)	Sent out Capacity for Reliability (MW)
Kwinana OCGT #1	OCGT	Kwinana	100	99	99
Kwinana OCGT #2	OCGT	Kwinana	100	99	99
Kwinana OCGT #3	OCGT	Kwinana	100	99	99
Kwinana OCGT #4	OCGT	Kwinana	100	99	99

North Country OCGT #1	OCGT	North Country	100	99	99
North Country OCGT #2	OCGT	North Country	100	99	99
North Country OCGT #3	OCGT	North Country	100	99	99
North Country OCGT #4	OCGT	North Country	100	99	99
Northern Terminal OCGT #1	OCGT	Northern Terminal	100	99	99
Northern Terminal OCGT #2	OCGT	Northern Terminal	100	99	99
Northern Terminal OCGT #3	OCGT	Northern Terminal	100	99	99
Northern Terminal OCGT #4	CCGT	Northern Terminal	100	99	99
Kwinana CCGT #1	CCGT	Kwinana	200	194	194.2
Kwinana CCGT #2	CCGT	Kwinana	200	194	194.2
North Country #1	CCGT	North Country	200	194	194.2
Northern Terminal CCGT #1	CCGT	Northern Terminal	200	194	194.2
Muja Coal #1	Coal	Muja	200	180	180.4
North Country Coal #1	Coal	North Country	200	180	180.4
Regional Diesel #1	Diesel	SWIS	40	40	39.6
Regional Diesel #2	Diesel	SWIS	40	40	39.6
Regional Diesel #3	Diesel	SWIS	40	40	39.6
Regional Diesel #4	Diesel	SWIS	40	40	39.6

The regional diesel plant are aggregates of small projects (~10 MW) located primarily in the south and east areas of the SWIS.

Existing and possible plants were assumed to have the properties listed in Table 5.10

- Auxiliary loads were used for calculation of sent out capacities (from nameplate capacities as listed in the SOO 2009
- Capacity factors were used for calculation of typical energy contribution of various plant types, if operating at economically effective levels
- Emissions factors were used for calculation of greenhouse emissions from the SWIS, to investigate impacts of climate policy and renewable energy
- Contribution factors (to reserve) were used to determine the equivalent capacity of renewable generation to reserve (for example, wind farms were assumed to contribute 20% of capacity based upon capacity available at a 95% confidence level at time of peak demand).

Table 5.10 – Plant properties				
Unit type	**Capacity Factor**	**Emissions (tCO2-e/MWh)**	**Auxiliary loads[1]**	**Contribution factor (to reserve)**
Bagasse	75%	0	0.0%	100%
Biomass	60%	0	0.0%	100%
CCGT	50%	0.36	2.9%	100%
CCS	90%	0.081	23.3%	100%
Coal	75%	0.81	9.8%	100%
Cogen	90%	0.275	2.9%	100%
Diesel	50%	0.91	1.0%	100%
DSM	1%	0	0.0%	100%
Geothermal	85%	0	15.0%	100%
OCGT	5%	0.6	1.0%	100%
Solar PV	20%	0	0.0%	50%
Solar Thermal	30%	0	10.0%	50%
Wave	80%	0	0.0%	40%
Wind	40%	0	0.0%	20%

Step 2: Determine a list of all possible retirements

In step 2, a list of all the possible plants that may retire in the outlook period for the region of interest was developed. This is based upon ROAM's extensive research and modelling of Australia's likely carbon price trajectory under various outlooks and scenarios.

The following table includes those existing power stations which have been considered as potential retirees for this assessment.

[1] Auxiliary loads assumptions were sourced from input assumptions to AEMO 2010 National Transmission Network Development Plan Consultation, available: http://www.aemo.com.au/planning/ntndp.html

Table 5.11 – Potential retirements				
Capacity (MW)	**Plant**	**Type**	**Location**	**Status**
-240 MW	Kwinana A	Gas	Kwinana	Announced (2011)
-370 MW	Muja C	Coal	Muja	Theoretical

Step 3: Assign initial probabilities

Following substantial research into each project and retirement, an initial ranking is assigned to capture their relative likelihoods of being constructed (or retired). These rankings are dependent upon the outlook, since the probability of construction (or retirement) of a particular plant will depend upon the external drivers (such as the demand forecast, or the CPT target).

Rankings are assigned to each project in each outlook as follows:

Table 5.12 – Ranking of announced projects		
Symbol	**Ranking**	**Approximate initial estimate of probability of being constructed**
D	Definite	100%
VH	Very high	80%
H	High	60%
M	Moderate	30%
L	Low	10%
VL	Very Low	5%
R	Deferred	1%

Primary sources of information relating to each project are included in the table below. For a variety of projects, ROAM also used information contained in the following documents:

- Independent Market Operator Statement of Opportunities 2009.
- IMO WA, "2010 Call for Expressions of Interest for New Capacity, Summary of Results".
- IMO WA, "Public Reserve Capacity Mechanism Review Report", May 2009.
- ABARE, Electricity generation – major development projects, April 2010 listing, http://www.abare.gov.au/publications_html/energy/energy_10/EG10_AprListing.xls
- Australian Government, Department of the Environment, Water, Heritage and the Arts, Renewable Energy Power Stations, Proposed plants list, http://www.ga.gov.au/bin/mapserv40?map=/public/http/www/docs/renewable/ago.map&mode=browse&layer=states&layer=highway&layer=coast&layer=proposed&mapext=-2201244.400848+-5190134.542706+2031040.723962+-

966224.855040&map_web_template=/public/http/www/docs/renewable/proposed/template.html

- Australian Government, Department of the Environment, Water, Heritage and the Arts, Energy Markets - Fossil Fuel Power Stations, Proposed plants list, http://www.ga.gov.au/bin/mapserv40?map=/public/http/www/docs/fossil_fuel/ffuel.map&layer=states&layer=roads&layer=highways&layer=coast&layer=proposed&mapext=-2201244.400848+-5190134.542706+2031040.723962+-966224.855040&mode=browse&map_web_template=/public/http/www/docs/fossil_fuel/proposed/proposed.html

Table 5.13 – Committed, advanced and proposed Generation options for installation

Station Name	Notes	Source	Initial Probability
Muja AB	Verve Energy and Inalco Energy have signed an MOU to set up a joint venture to refurbish, upgrade and recommission Muja Power Station Stages AB. To be known as Vinalco Energy, the joint venture will have Muja AB operating again in time for the 2012 summer. It will operate for about 15 years.	http://www.verveenergy.com.au/subContent/mediaReleases/mediaReleasesArticles/Muja_AB_joint_venture.html	Very High
Kwinana HEGT	Verve Energy has awarded contracts for the supply, construction and commissioning of two 100MW high efficiency gas turbines (HEGT). The State Government announced the $263 million project in May 2009 as part of the strategy to help maintain a secure supply of electricity in WA as demand for power continued to grow. Construction is scheduled to commence in April 2010 and the new plant will be operating before the 2011/12 summer.	http://www.verveenergy.com.au/subContent/homePageInfo/latestnews/HEGTs_project_underway.html	Definite

Merredin	Another new market entrant is the Namarrkon project near Merredin. It is a biodiesel back-up generation system designed to operate over the summer months for 15-20 days a year.	http://webcache.googleusercontent.com/search?q=cache:FXfDA9bM1p0J:www.wabusinessnews.com.au/story/1/72693/Coal-dominates-agency-s-power-supply-list+Merredin+Power+Station+namarrkon&cd=1&hl=en&ct=clnk&gl=au&client=firefox-a	Very High
Badgingarra	Griffin Energy, in a Joint Development with Stanwell Corporation, is proposing to develop a new wind farm near Badgingarra, approximately 200 kilometres north of Perth. The proposed new Badgingarra Wind Farm is expected to be commissioned in late 2012 and will produce up to 130 megawatts of renewable energy, helping to meet WA's growing energy needs.	http://www.griffinenergy.com.au/default.aspx?MenuID=309	Very High
Spiritwest Neerabup	SpiritWest is developing a 30 MW base-load power station at Neerabup, 33 km north of Perth. The power station will use timber waste from pine plantations nearby, and other wood residues. Environmental approval was received in 2006, and a final investment decision is expected by Q2 2009, with construction expected to commence in Q3 2009. Commercial operation is scheduled for 2011.	http://www.dmp.wa.gov.au/documents/Prospect_Projects.pdf	Moderate
Grasmere	Verve Energy is carrying out a feasibility study to extend the Albany wind farm. The project, known as Grasmere wind farm, will add six wind turbines to the existing 12 turbines at the Albany site. The additional wind turbines would produce 14MW of electricity.	http://www.verveenergy.com.au/mainContent/sustainableEnergy/Projects%20in%20progress/Grasmere_Wind_Farm.html	Moderate
Collgar Stage 1	Collgar Wind Farm is a project consisting of 111 wind turbines located approximately 25km south east of Merredin in Western Australia. Full construction works will commence in June 2010 and will be completed by April 2012.	http://www.collgarwindfarm.com.au/	Definite

Milyeannup	Verve Energy is investigating the feasibility of building a wind farm with up to 30 wind turbines with a combined capacity of up to 55MW at Milyeannup, which is about 20kms east of Augusta. On 22 May 2009 Verve Energy submitted an Application for Planning Approval to the Shire of Nannup for the wind farm.	http://www.verveenergy.com.au/mainContent/sustainableEnergy/Projects%20in%20progress/Milyeannup_wind_farm.html	Moderate
Alinta Walkaway 2	Walkaway 2 Wind Farm is an extension of Infigen Energy's existing 89.1MW, 54 turbine wind farm south of Geraldton. Infigen Energy lists Walkaway 2 as in the development pipeline, with development applications completed.	http://ramblingsdc.net/Australia/WindWA.html	Moderate
Nilgen	The proposed wind farm site is located approximately 9km east of Lancelin, Western Australia. The site has been selected by Pacific Hydro due to its strong, consistent winds; proximity and access to the Grid (South West Interconnected System), existing land practices which can co-exist with the turbines, large area and low population density and good public road access. The project will be up to 53 (2.5MW) turbines in size, providing up to 132.5MW of capacity.	http://www.pacifichydro.com.au/en-us/our-projects/australia--pacific/nilgen-wind-farm	Moderate
Mingenew Solar Thermal 1	Proposed $1.0 billion 250MW solar thermal power station. Nominally located on Mingenew. Worley plan to investigate the potential for another 33 additional plants being built by 2020.	AGO Proposed Renewables list	Moderate
Carnegie Wave 1	Stage 1 of the Carnegie Wave project is currently underway. Stage 2 will be the first commercial scale wave energy project to operate in Australia. The commercial demonstration will be a 5MW project. Detailed cost and design activities associated with Stage 2 will be undertaken during 2010 with construction and commissioning scheduled for 2011.	http://www.carnegiewave.com/	High

Coolimba Aviva Coal	Coolimba Power is a 400-450MW base load coal-fired power station including an additional 360MW of gas fired power located 270km north of Perth in the rapidly developing Mid West region of WA. Coolimba also has plans to phase in up to 2.9 million tonnes per annum of carbon capture and sequestration (CCS) as a separate project when feasible. The Coolimba Power Station will provide approximately 8% of the installed capacity in the SWIS network and have an operating life of 30 years. Construction is planned to commence in 2010 and will extend over three years for completion in 2013/14.	http://www.avivacorp.com.au/?id=201	Moderate
Coolimba OCGT	In addition to the 400-450MW base load coal-fired plant, approval is also being obtained for up to 360MW of gas-fired generation for Coolimba.	http://www.coolimbapower.com.au/images/stories/pdf/Fact_Sheets/0907_19_Fact_Sheet_-_Coolimba_Power_Project.pdf	Moderate
Newworld Geothermal 1	New World has 9 geothermal exploration permits in the Northern (8) and Southern (1) Perth Basins. All locations are closely located to existing and/or proposed transmission assets.	http://newworldenergy.com.au/index.php/projects/perth-basin/	Moderate

Bluewaters 3	The proposed Bluewaters Power Station Expansion comprises two new coal-fired, base-load generators, each capable of producing 208 megawatts. The two proposed new units are planned for completion in 2013 and 2015 respectively. The EPA has recommended that approvals be granted for the project.	http://docs.google.com/viewer?a=v&q=cache:zd0WGXNmTqwJ:www.griffinenergy.com.au/getfile.aspx%3FType%3Ddocument%26ID%3D5468%26ObjectType%3D3%26ObjectID%3D1685+bluewaters+3+coal&hl=en&gl=au&pid=bl&srcid=ADGEESggkZJmc8nOeRU_PrNpw2SqlrtdrFFlfx_0vdCSJdcL1TfYk5wlgUvGRidLJw7hNQNRL7dinreSCnA4-CYWlLi2cu7D9FMKN2yd7LKu4RCCXz2kszd6baniqABcFKsnDVUibbn0&sig=AHIEtbRT0LSYp1ISlmiV6g8V4c-Klzsp3w	Moderate
Bluewaters 4			Moderate
Augusta	Proposed 50MW wind farm at Augusta. Wind monitoring is currently underway.	http://www.windfarms.net.au/html/development_portfolio/development_portfolio.html	Low
Dandaragan - Yandin	Two wind farm sites are being investigated on rural land in the Shire of Dandaragan. The Waddi site would contain up to 60 wind turbines and it is located approximately 12km north west of Dandaragan. Wind monitoring is currently underway, and a final planning approval decision is expected in late 2010.	http://dandaraganwindfarm.com.au/about	Low
Dandaragan - Waddi			Low
Henderson	Proposed wind farm, earning 21MW of capacity credits, by Engineering firm Emerson Stewart.	http://www.imowa.com.au/f875,52032/RCM_ReportV5_PUBLISHED_1_.pdf	Low
DSM 1	Total of 227MW of demand management proposed as part of the 2010 Reserve Capacity Mechanism New Capacity Expressions of Interest process.	http://www.imowa.com.au/f177,455922/Summary_Expressions_of_Interest_2010.pdf	Definite
DSM 2			Very High
DSM 3			High
DSM 4			Moderate
Kalgoorlie 2	Proposed $12.8M 48 solar dish project in Kalgoorlie (1776kW DC). Funding support has been granted by the WA Government	http://news.smh.com.au/national/kalgoorlie-to-have-first-solar-station-20080629-2ypt.html	Moderate

Cervantes	Griffin Energy announced in 2004 that it was committed to the construction of an 80MW wind farm (40MW net) as part of the Bluewaters greenhouse gas management	http://www.epa.wa.gov.au/docs/1176/B1176_App5B_Att7.pdf	Low
Mingenew Solar Thermal 2	Proposed $1.0 billion 250MW solar thermal power station. Nominally located on Mingenew. Worley plan to investigate the potential for another 33 additional plants being built by 2020.	AGO Proposed Renewables list	Low
Mingenew Solar Thermal 3	Proposed $1.0 billion 250MW solar thermal power station. Nominally located on Mingenew. Worley plan to investigate the potential for another 33 additional plants being built by 2020.	AGO Proposed Renewables list	Low
Collgar Stage 2	Planning and environmental approvals have been obtained for 127 turbines. However, this layout has now been divided into two stages, the first consisting of 111 turbines, and a second stage of 16 turbines.	http://www.collgarwindfarm.com.au/The-Process/Planning.aspx	High
Centauri 1	Eneabba Gas has proposed the Centauri 1 Power Station, a four gas turbine station with a total capacity of 168MW. Government approvals have been received and land has been purchased however the project appears on hold.	http://www.eneabbagas.com.au/viewStory/Centauri+1++Power+Station	Moderate
Joanna Plains	Proposed wind farm; little information available therefore a very low probability has been ascribed.	http://www.ga.gov.au/renewable/proposed/proposed_renewable.xls	Very Low
Mumbida	Near Walkaway. Feasibility study due for completion early 2010. Originally considered in 2002, but rejected because of transmission. Revived with proposed Eneabba to Moonyoonooka (Geraldton) 330kV line. Has submitted planning application to City of Geraldton-Greenough. As of 2009, construction could start in 2010.	http://www.verveenergy.com.au/mainContent/sustainableEnergy/Projects%20in%20progress/Mumbida_wind_farm.html	Moderate

6) DEVELOPMENT OF PLANTING SCHEDULES

Based upon the information collected in the earlier analysis, planting schedules for each scenario were developed. The full planting schedules for each scenario are included in the appendix to this report.

Plant choices were made based upon:

- Initial plant probabilities (tabulated above) and announced timings
- The economic drivers in each scenario, which change the relative costs and revenues of various plant types
- In-line moderation (explained below)

ROAM's scenario analysis methodology uses in-line moderation while planting each scenario. Key moderators include:

- Emissions
- Reserve Plant Margin
- Average Capacity Factor
- Renewable Capacity Installed

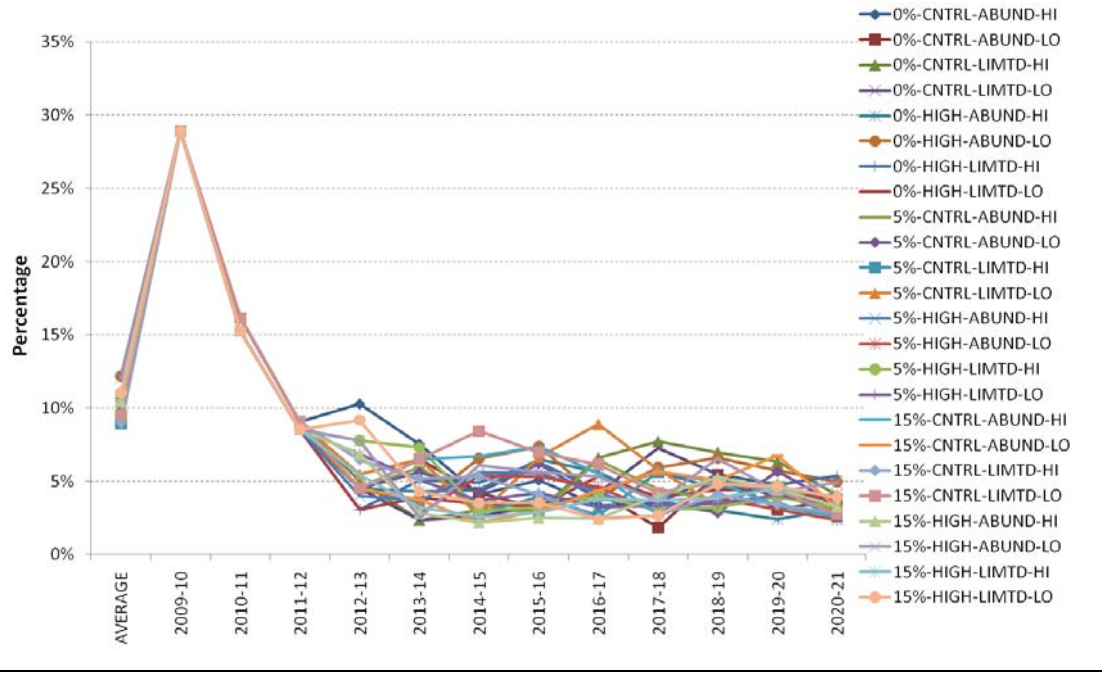
These moderators provide a feedback mechanism to the planting process to ensure that these real-world issues are properly accounted for. The following sections discuss the key indicators, and illustrate how they were used in the development of planting schedules for each scenario. The graphs provided first display the result of all scenarios, while the second graph highlights the most likely eight scenarios.

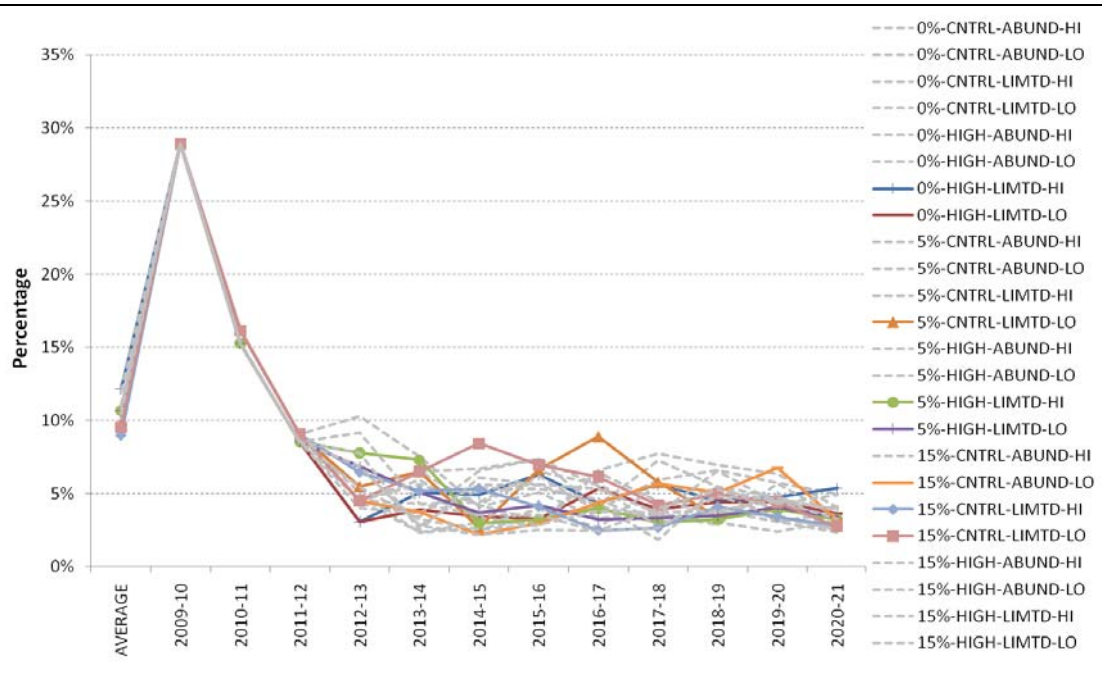
6.1) RESERVE PLANT MARGIN

There is currently an excess of capacity available in the SWIS. ROAM has not assumed that this will continue, but has instead planted scenarios based upon economic drivers (investment in new projects will only be to the level required for reliability). On this basis, in all scenarios the oversupply of capacity decreases in the initial years of the study as the demand increases, and then is maintained between 2-10%, with new generation projects matching demand growth. This is illustrated in Figure 6.1.

The supply-demand balance (illustrated by the reserve margin) is a significant driving factor for the timing of new generation.

Figure 6.1 – Deviation from Minimum Reserve Level



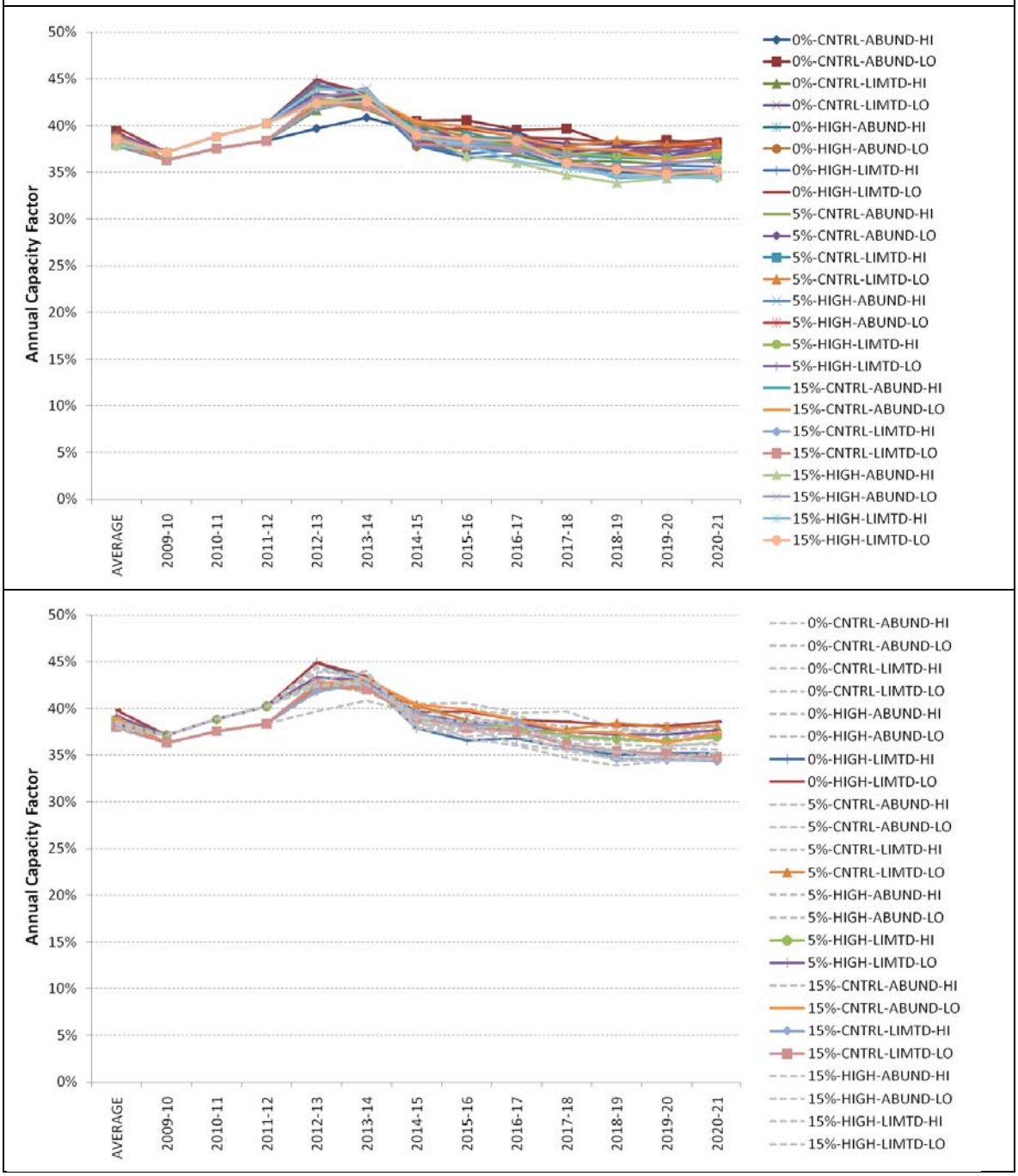


6.2) AVERAGE CAPACITY FACTOR

The average annual capacity factor for the SWIS resulting from planting schedules in each of the 24 scenarios is shown in the figure below. This is calculated based upon the total capacity of installed plant compared with the energy forecast.

Capacity factors calculated via this methodology are maintained close to the load factor in each year. The load factor is defined as the ratio of forecast energy to the forecast peak demand divided by 8.76. The demand and energy forecasts used in this study show load factors reducing from 47%-48% in 2009-10 to 41%-42% in 2020-21. The calculated capacity factor in 2009-10 is below this value due to the oversupply of plant in that year (illustrated in Figure 6.1).

Figure 6.2 – Average Capacity Factor to meet energy demanded



6.3) RENEWABLE CAPACITY INSTALLED

The total quantity of new renewable generation installed in each scenario is illustrated in Figure 6.3.

Figure 6.3 – New Installed Capacity of Renewable Generators

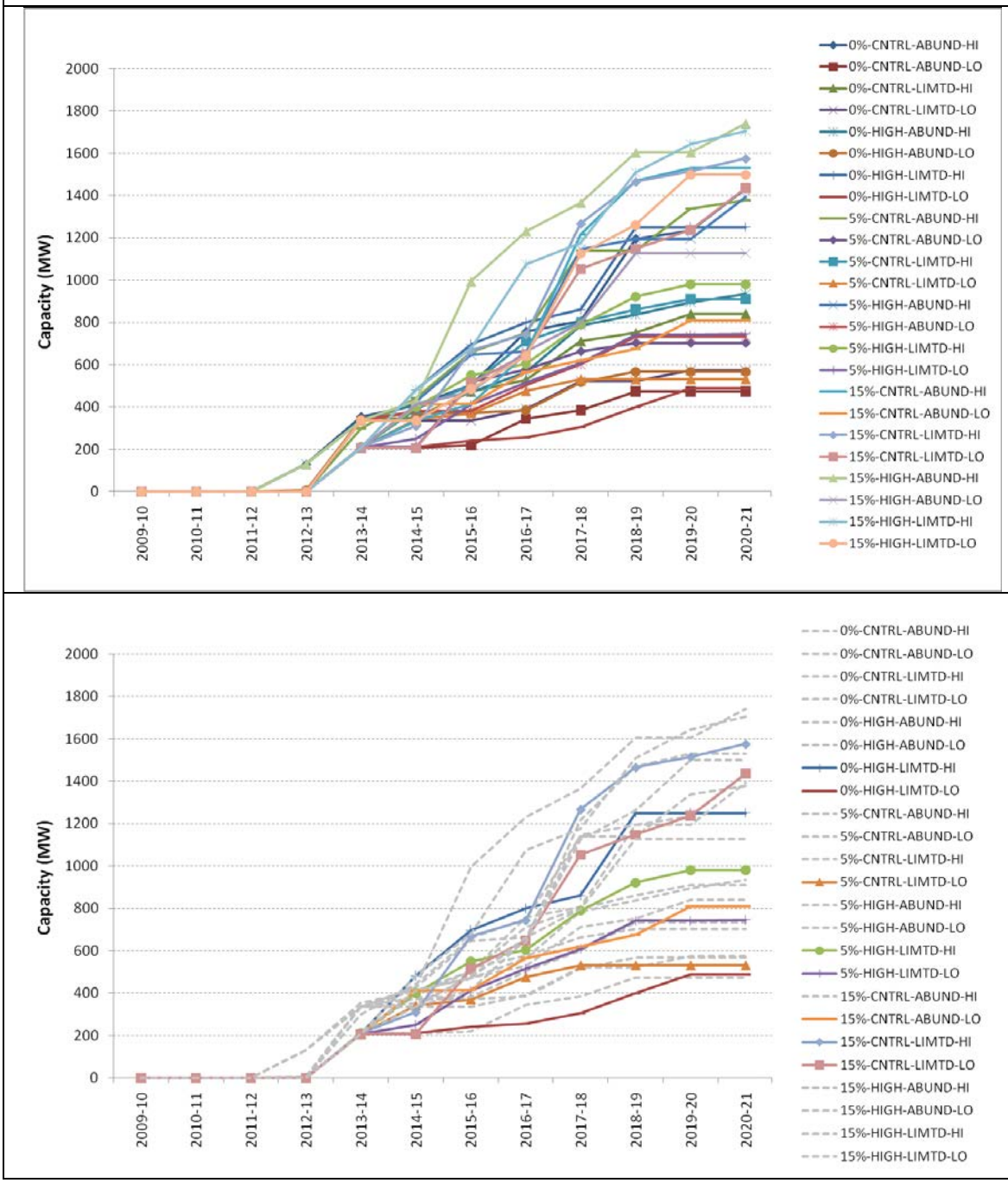


Figure 6.4 illustrates the relationship of this quantity of renewable generation to the quantity of new renewable generation required by the Renewable Energy Target (RET). The RET is a national scheme and does not include a SWIS-specific target; the black dotted line instead indicates the proportion of the RET that would be met in the SWIS, if renewable generation was distributed in each state in proportion to the local load.

Some scenarios exceed this proportion, indicating that conditions for renewable generation in the SWIS are better than in other parts of Australia. In other scenarios, the entry of renewable generation is inhibited in the SWIS and the RET will be met through renewable generation in other locations (not in the SWIS).

Figure 6.4 – SWIS contribution of new renewable generation to Renewable Energy Target

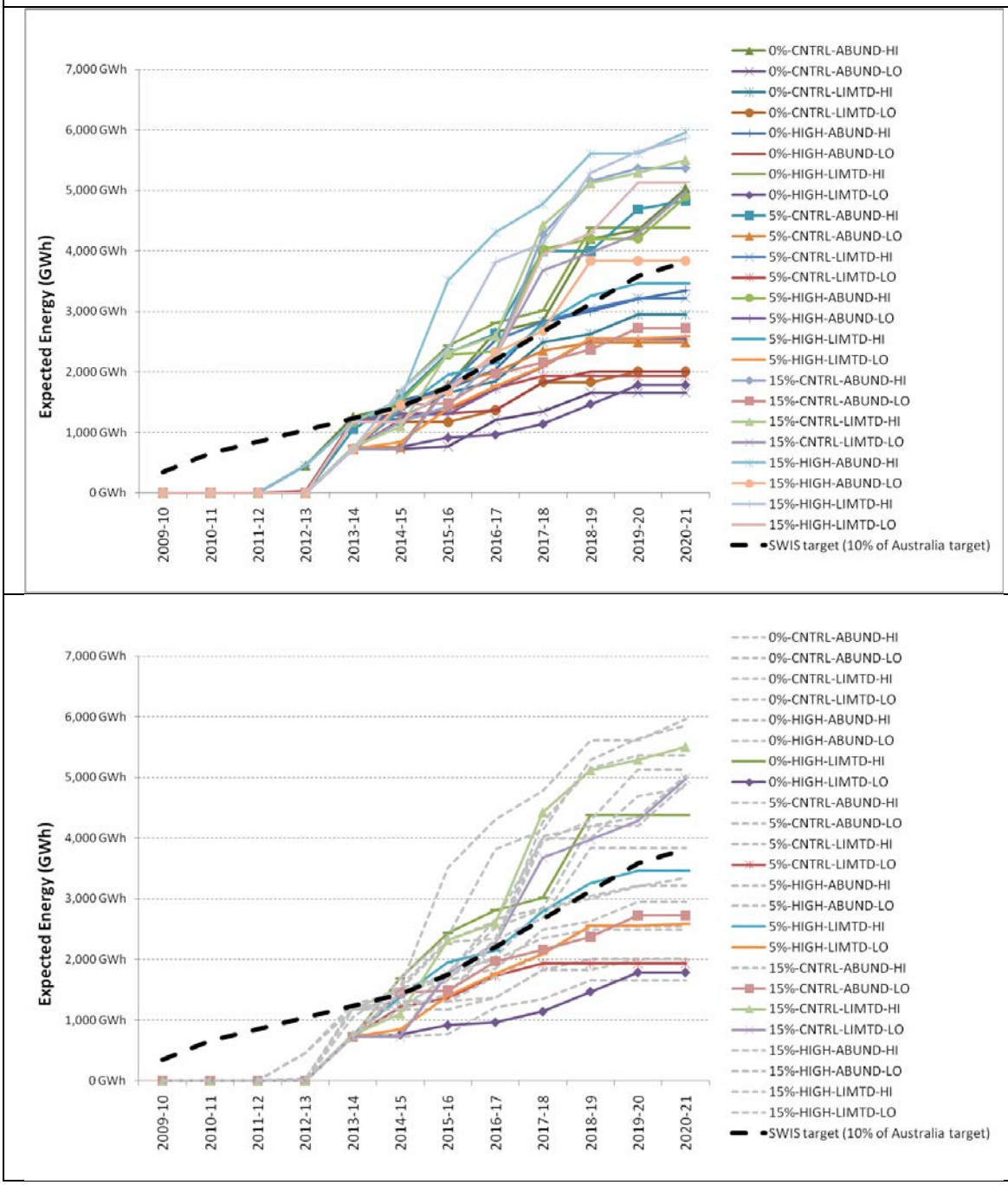
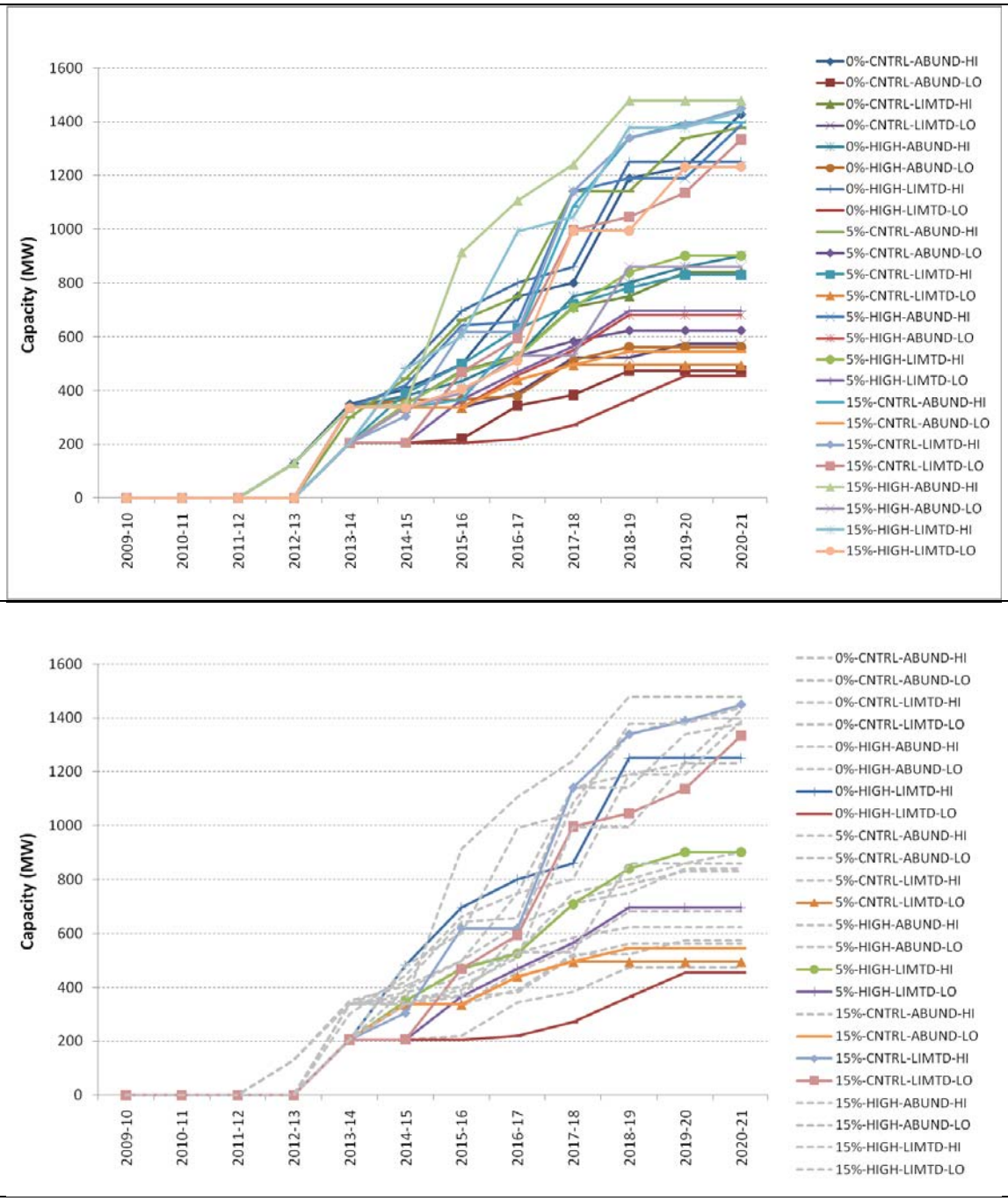


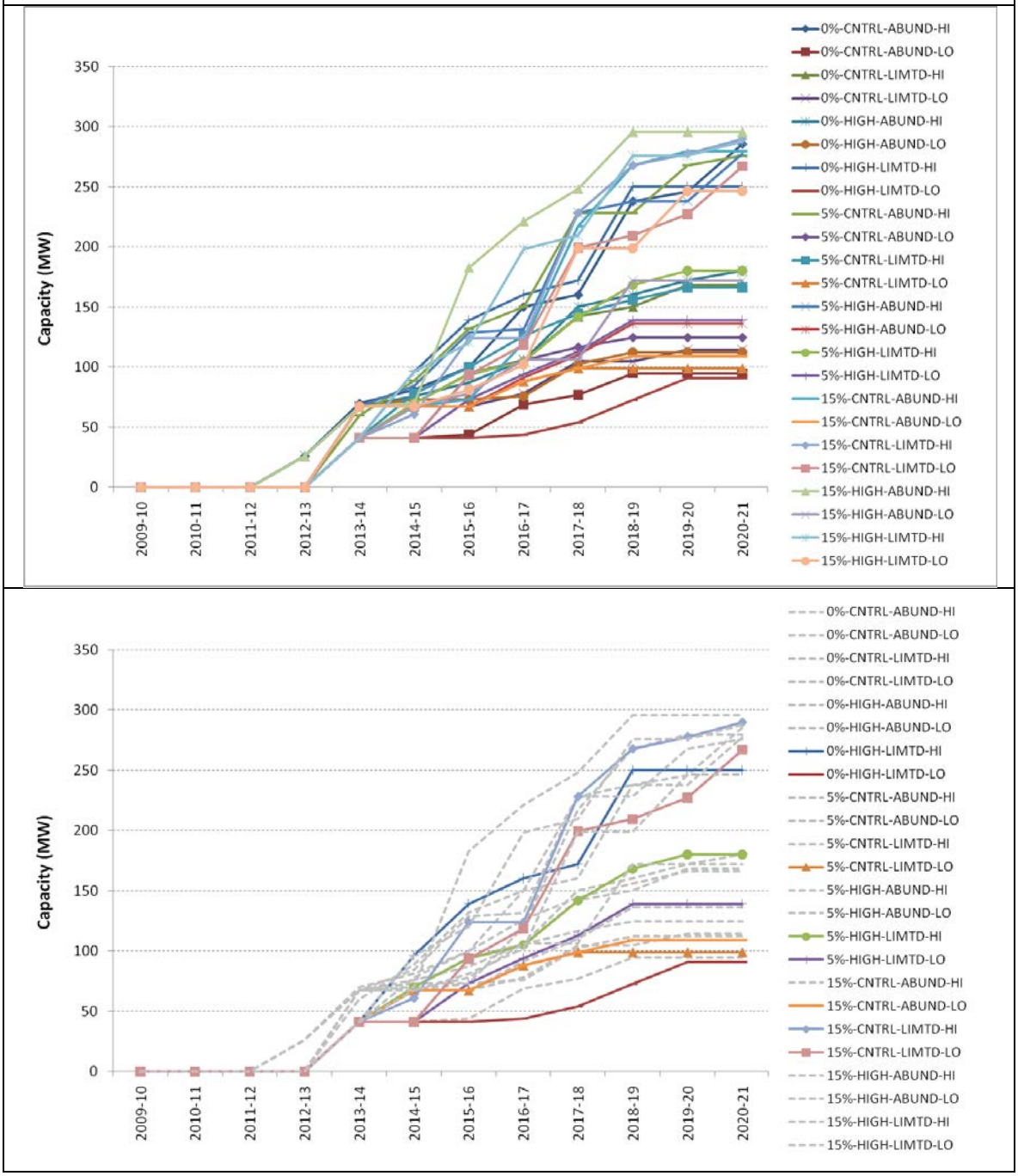
Figure 6.5 illustrates the installed capacity of wind generation (this figure does not include the non-wind renewables such as biomass, geothermal, wave and solar). The quantity of wind installed in some scenarios is very high relative to the size of the SWIS. This reflects the very large capacity of announced wind projects driven by excellent wind resources in the SWIS.

Figure 6.5 – New installed wind capacity



Due to intermittency, renewable generators do not contribute their full capacity to system reserve. The contribution of renewable generators assumed for this study is illustrated in Figure 6.6. This is based upon the assumed contribution factors for each generator type listed in Table 5.10.

Figure 6.6 – New renewable generators contribution to system reserve



6.4) EMISSIONS

Figure 6.7 illustrates the forecast greenhouse emissions for the SWIS for each planting schedule. Greenhouse emissions are calculated based upon:

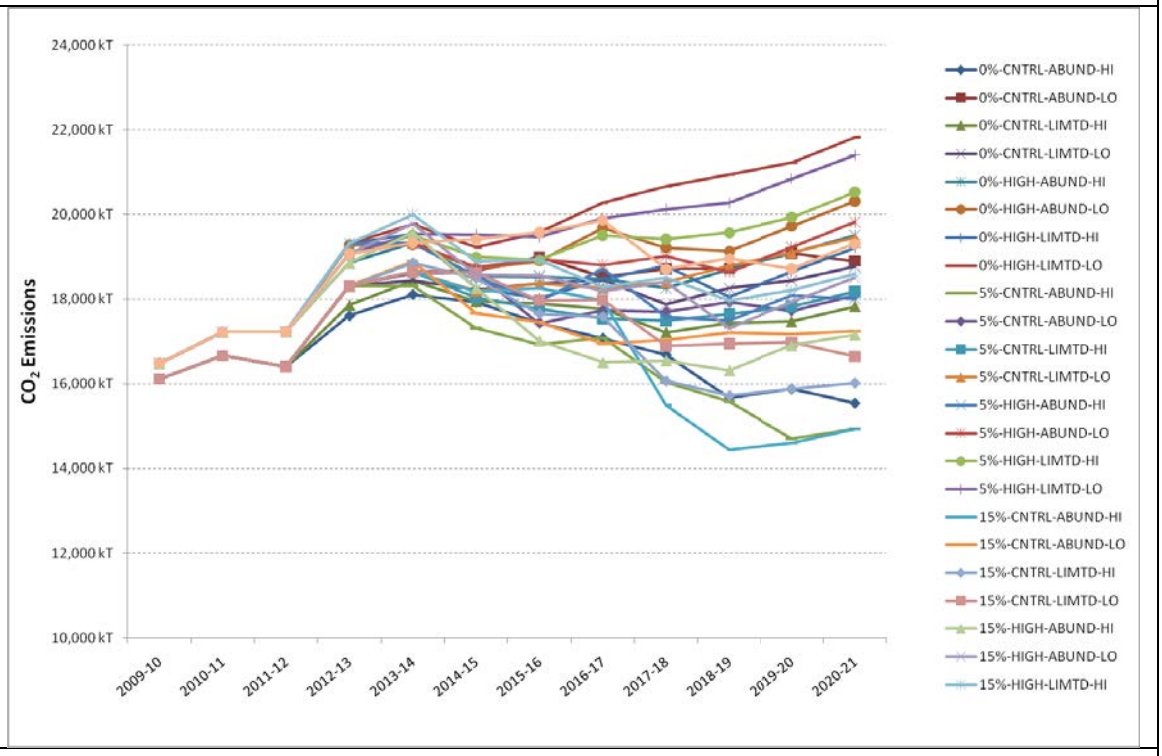
- The existing level of greenhouse emissions from the SWIS
- plus emissions projected for new plant (based upon assumed capacity factors)

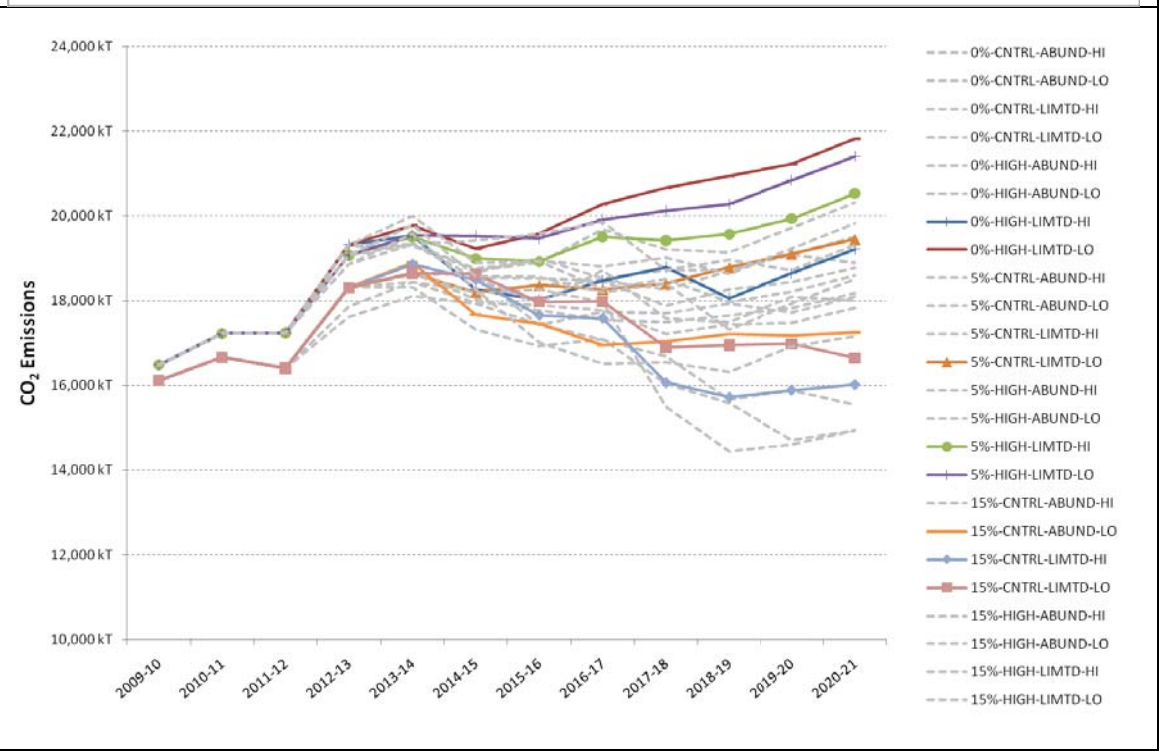
- minus emissions from existing plant undercut by new plant (calculated as the product of the average emissions factor for the SWIS with the difference between the increase in available energy and the increase in demand)

The chart illustrates the following general trends:

- High demand growth generally increases emissions. This is generally the most significant driver of emissions.
- Limited gas supply generally increases emissions, since more emissions intensive coal-fired plant must be installed (instead of gas-fired plant)
- High wind ambition generally decreases emissions, since more energy is generated by zero emissions wind
- A higher CPT generally reduces emissions, by driving the installation of lower emissions plant

Figure 6.7 – CO_2 Emissions



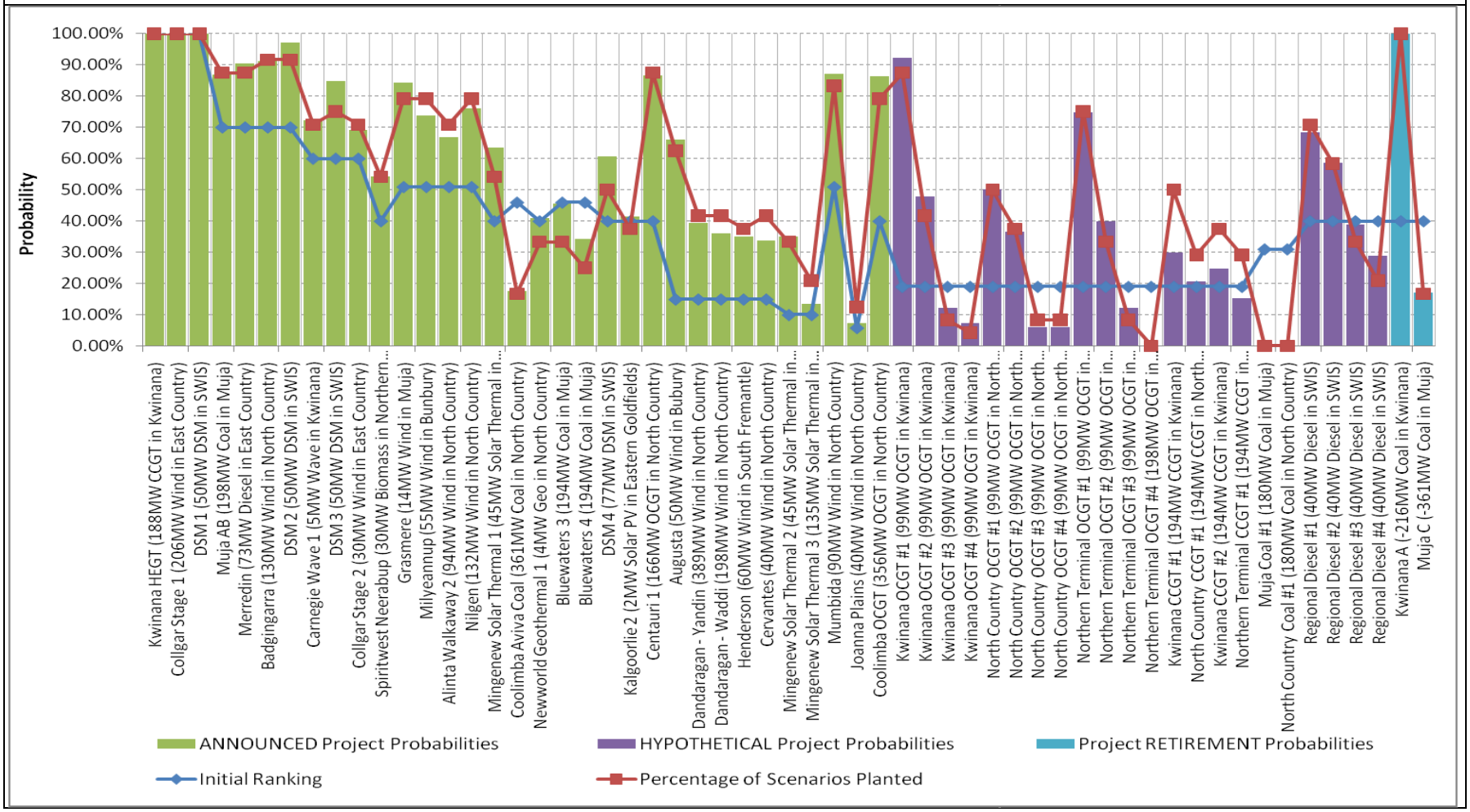


7) FINAL PROJECT PROBABILITIES

The final probability for each proposed generator (and retirement) is calculated as the sum of the scenario probabilities in which the generator is installed. A generator which is installed in many scenarios is likely to have a higher overall probability, depending upon the probability of the scenarios it is planted within. Similarly, a generator which is installed in only a few scenarios is likely to have a lower overall probability, depending upon the probability of the scenarios it is planted within.

The following charts show the final project probabilities, in relation to the initial probability of each scenario. The initial ranking (blue line) indicates ROAM's initial estimate of the probability of each project. The red line indicates the percentage of scenarios in which a particular project is planted. The bars indicate the probability of each project calculated based upon the probabilities of the scenarios in which it appears.

Figure 7.1 – Final Project (New Entrant) Probabilities



8) DISCUSSION

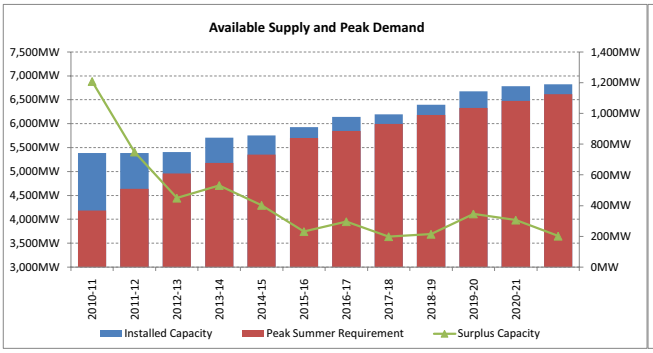
Developments in Western Australian electricity sector in the next decade are highly uncertain. The most significant drivers of new generation projects are likely to be:

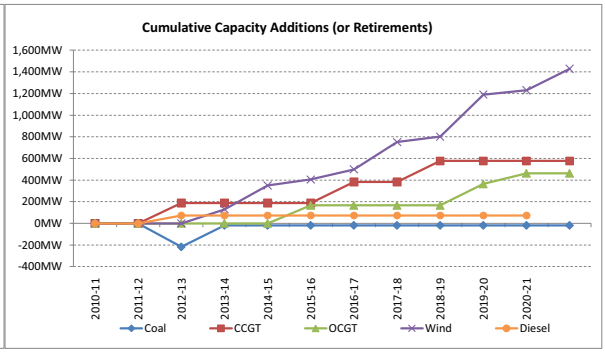
- Level of ambition of Australia's likely Carbon Price Trajectory (CPT)
- Demand growth
- Availability of gas for electricity generation
- Wind ambition

ROAM has used a scenario analysis methodology to develop 24 outlooks with ascribed probabilities based upon these key drivers. Each of these outlooks was developed into a complete planting schedule utilising announced projects included on the basis of relative probabilities. Entry dates were determined based upon the annual supply-demand balance.

These planting schedules explore a range of possible futures for the SWIS as a basis for further modelling.

Scenario #				
1	CPT Theme:	**0%**	25% theme weighting	
	Load Theme:	**CNTRL**	30% theme weighting	
	Gas Availability Theme:	**ABUND**	30% theme weighting	
	Wind Ambition Theme:	**HI**	40% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0-CNTRL-ABUND-HI Outlook	

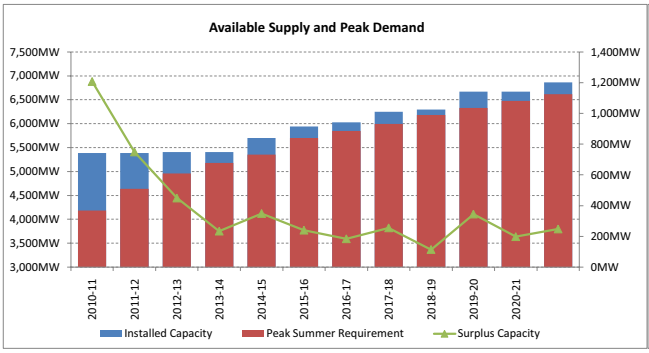


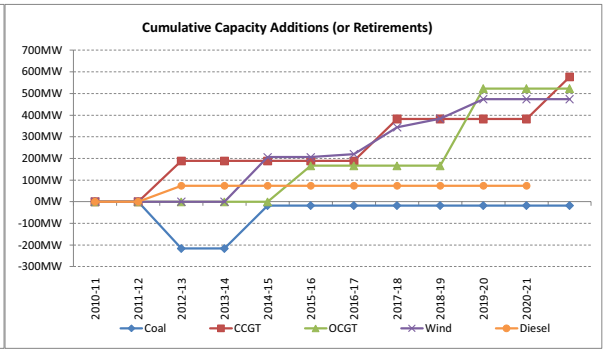


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13	Muja AB 220 (198.44MW Coal), Merredin 74 (73.26MW Diesel), Badgingarra 130 (130MW Wind),		
2013-14	Collgar Stage 1 206 (206MW Wind), Carnegie Wave 1 5 (5MW Wave), Grasmere 14 (14MW Wind),		
2014-15	Milyeannup 55 (55MW Wind), Centauri 1 168 (166.32MW OCGT),		
2015-16	Alinta Walkaway 2 94 (94MW Wind), Kwinana CCGT #1 200 (194.2MW CCGT),		
2016-17	Collgar Stage 2 30 (30MW Wind), Nilgen 132 (132MW Wind), Mumbida 90 (90MW Wind),		
2017-18	Augusta 50 (50MW Wind), Northern Terminal CCGT #1 200 (194.2MW CCGT),		
2018-19	Dandaragan - Yandin 389.4 (389.4MW Wind), Kwinana OCGT #1 100 (99MW OCGT), Kwinana OCGT #2 100 (99MW OCGT),		
2019-20	Cervantes 40 (40MW Wind), Northern Terminal OCGT #1 100 (99MW OCGT),		
2020-21	Dandaragan - Waddi 198 (198MW Wind),		

Ranking	Top Down Probability	FINAL Scenario Probability
24	0.9%	**0.9%**

Scenario #				
2	CPT Theme:	**0%**	25% theme weighting	
	Load Theme:	**CNTRL**	30% theme weighting	
	Gas Availability Theme:	**ABUND**	30% theme weighting	
	Wind Ambition Theme:	**LO**	60% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0-CNTRL-ABUND-LO Outlook	

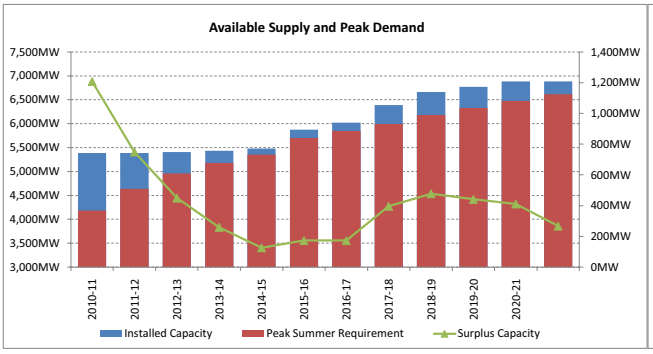


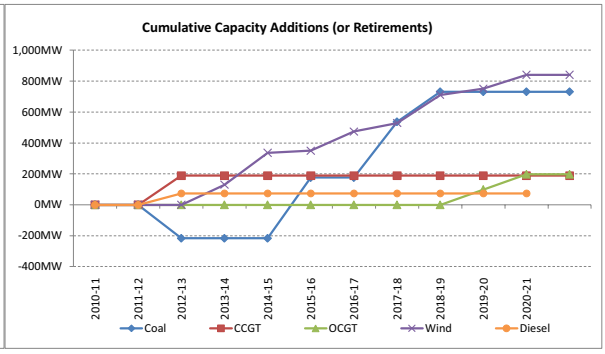


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13			
2013-14	Collgar Stage 1 206 (206MW Wind), Muja AB 220 (198.44MW Coal), DSM 2 50 (50MW DSM),		
2014-15	Merredin 74 (73.26MW Diesel), Centauri 1 168 (166.32MW OCGT),		
2015-16	DSM 3 50 (50MW DSM), Grasmere 14 (14MW Wind), Regional Diesel #1 40 (39.6MW Diesel),		
2016-17	Collgar Stage 2 30 (30MW Wind), Alinta Walkaway 2 94 (94MW Wind), Kwinana CCGT #1 200 (194.2MW CCGT),		
2017-18	Cervantes 40 (40MW Wind), Regional Diesel #2 40 (39.6MW Diesel),		
2018-19	Mumbida 90 (90MW Wind), Coolimba OCGT 360 (356.4MW OCGT),		
2019-20			
2020-21	Northern Terminal CCGT #1 200 (194.2MW CCGT),		

Ranking	Top Down Probability	FINAL Scenario Probability
22	1.4%	**1.4%**

Scenario #				
3	CPT Theme:	**0%**	25% theme weighting	
	Load Theme:	**CNTRL**	30% theme weighting	
	Gas Availability Theme:	**LIMTD**	70% theme weighting	
	Wind Ambition Theme:	**HI**	40% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0-CNTRL-LIMTD-HI Outlook	

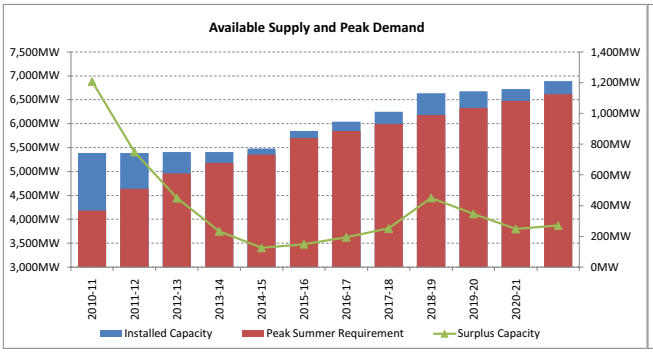


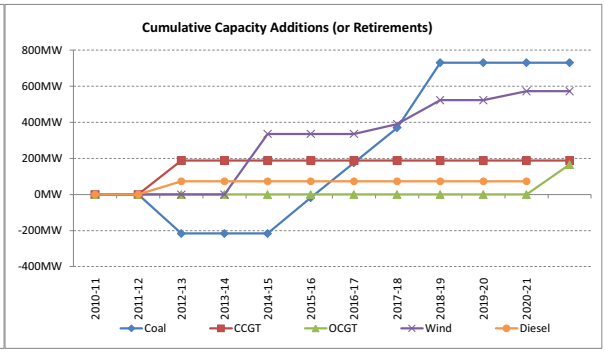


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13	Badgingarra 130 (130MW Wind),		
2013-14	Collgar Stage 1 206 (206MW Wind),		
2014-15	Muja AB 220 (198.44MW Coal), Grasmere 14 (14MW Wind), Bluewaters 3 215 (193.93MW Coal),		
2015-16	Merredin 74 (73.26MW Diesel), DSM 2 50 (50MW DSM), Collgar Stage 2 30 (30MW Wind), Alinta Walkaway 2 94 (94MW Wind),		
2016-17	Milyeannup 55 (55MW Wind), Coolimba Aviva Coal 400 (360.8MW Coal),		
2017-18	Nilgen 132 (132MW Wind), Bluewaters 4 215 (193.93MW Coal), Augusta 50 (50MW Wind), Regional Diesel #1 40 (39.6MW Diesel),		
2018-19	Cervantes 40 (40MW Wind), Kwinana OCGT #1 100 (99MW OCGT),		
2019-20	Mumbida 90 (90MW Wind), Northern Terminal OCGT #1 100 (99MW OCGT),		
2020-21			

Ranking	Top Down Probability	FINAL Scenario Probability
18	2.1%	**2.1%**

Scenario #				
4	CPT Theme:	**0%**	25% theme weighting	
	Load Theme:	**CNTRL**	30% theme weighting	
	Gas Availability Theme:	**LIMTD**	70% theme weighting	
	Wind Ambition Theme:	**LO**	60% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0-CNTRL-LIMTD-LO Outlook	

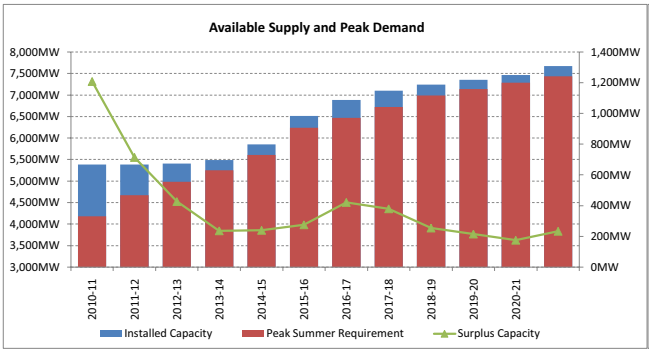


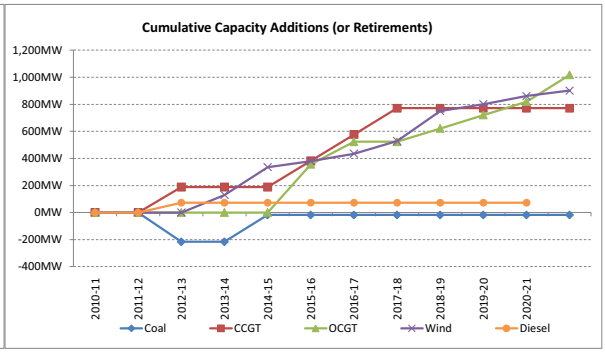


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13			
2013-14	Collgar Stage 1 206 (206MW Wind), Badgingarra 130 (130MW Wind),		
2014-15	Muja AB 220 (198.44MW Coal), Merredin 74 (73.26MW Diesel), DSM 2 50 (50MW DSM), DSM 3 50 (50MW DSM),		
2015-16	Bluewaters 3 215 (193.93MW Coal),		
2016-17	Milyeannup 55 (55MW Wind), Bluewaters 4 215 (193.93MW Coal),		
2017-18	Nilgen 132 (132MW Wind), Coolimba Aviva Coal 400 (360.8MW Coal),		
2018-19	Regional Diesel #1 40 (39.6MW Diesel),		
2019-20	Augusta 50 (50MW Wind), Regional Diesel #2 40 (39.6MW Diesel),		
2020-21	Centauri 1 168 (166.32MW OCGT),		

Ranking	Top Down Probability	FINAL Scenario Probability
12	3.2%	**3.2%**

Scenario #				
5	CPT Theme:	**0%**	25% theme weighting	
	Load Theme:	**HIGH**	70% theme weighting	
	Gas Availability Theme:	**ABUND**	30% theme weighting	
	Wind Ambition Theme:	**HI**	40% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0-HIGH-ABUND-HI Outlook	

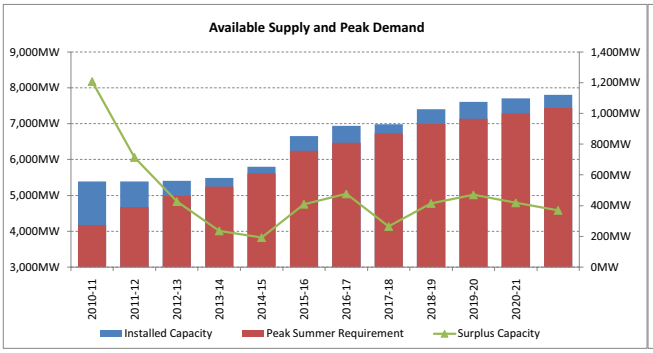


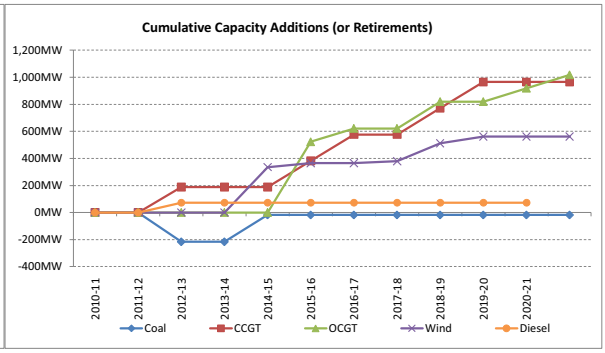


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13	Badgingarra 130 (130MW Wind), DSM 2 50 (50MW DSM),		
2013-14	Collgar Stage 1 206 (206MW Wind), Muja AB 220 (198.44MW Coal), Merredin 74 (73.26MW Diesel), DSM 3 50 (50MW DSM),		
2014-15	Carnegie Wave 1 5 (5MW Wave), Collgar Stage 2 30 (30MW Wind), Spiritwest Neerabup 29.9 (29.9MW Biomass), Grasmere 14 (14MW Wind), DSM 4 77 (77MW DSM), Coolimba OCGT 360 (356.4MW OCGT), Kwinana CCGT #1 200 (194.2MW CCGT),		
2015-16	Milyeannup 55 (55MW Wind), Centauri 1 168 (166.32MW OCGT), Northern Terminal CCGT #1 200 (194.2MW CCGT),		
2016-17	Alinta Walkaway 2 94 (94MW Wind), Kwinana CCGT #2 200 (194.2MW CCGT),		
2017-18	Nilgen 132 (132MW Wind), Mumbida 90 (90MW Wind), Kwinana OCGT #1 100 (99MW OCGT),		
2018-19	Augusta 50 (50MW Wind), Kwinana OCGT #2 100 (99MW OCGT),		
2019-20	Henderson 60 (60MW Wind), Northern Terminal OCGT #1 100 (99MW OCGT),		
2020-21	Cervantes 40 (40MW Wind), North Country OCGT #1 100 (99MW OCGT), Northern Terminal OCGT #2 100 (99MW OCGT),		

Ranking	Top Down Probability	FINAL Scenario Probability
18	2.1%	**2.1%**

Scenario #				
6	CPT Theme:	**0%**	25% theme weighting	
	Load Theme:	**HIGH**	70% theme weighting	
	Gas Availability Theme:	**ABUND**	30% theme weighting	
	Wind Ambition Theme:	**LO**	60% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0-HIGH-ABUND-LO Outlook	

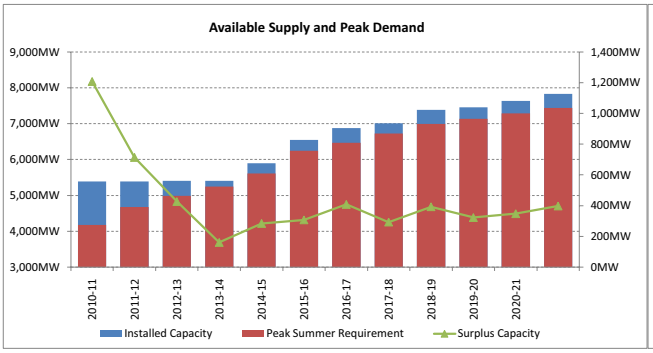


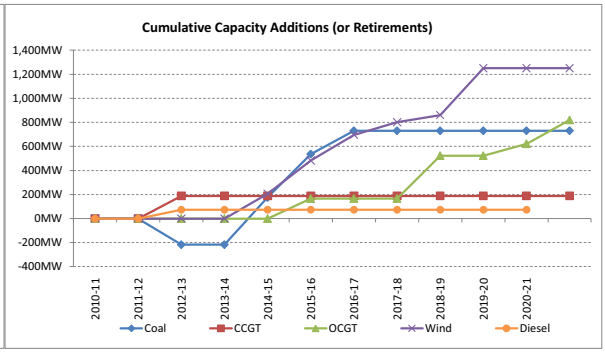


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13	Merredin 74 (73.26MW Diesel), Carnegie Wave 1 5 (5MW Wave),		
2013-14	Collgar Stage 1 206 (206MW Wind), Muja AB 220 (198.44MW Coal), Badgingarra 130 (130MW Wind), DSM 2 50 (50MW DSM),		
2014-15	DSM 3 50 (50MW DSM), Collgar Stage 2 30 (30MW Wind), DSM 4 77 (77MW DSM), Centauri 1 168 (166.32MW OCGT), Coolimba OCGT 360 (356.4MW OCGT), Northern Terminal CCGT #1 200 (194.2MW CCGT),		
2015-16	Kwinana OCGT #1 100 (99MW OCGT), North Country CCGT #1 200 (194.2MW CCGT),		
2016-17	Grasmere 14 (14MW Wind), Regional Diesel #1 40 (39.6MW Diesel),		
2017-18	Nilgen 132 (132MW Wind), Kwinana OCGT #2 100 (99MW OCGT), Northern Terminal OCGT #1 100 (99MW OCGT), Kwinana CCGT #1 200 (194.2MW CCGT),		
2018-19	Augusta 50 (50MW Wind), Kwinana CCGT #2 200 (194.2MW CCGT),		
2019-20	North Country OCGT #1 100 (99MW OCGT),		
2020-21	North Country OCGT #2 100 (99MW OCGT),		

Ranking	Top Down Probability	FINAL Scenario Probability
12	3.2%	**3.2%**

Scenario #				
7	CPT Theme:	**0%**	25% theme weighting	
	Load Theme:	**HIGH**	70% theme weighting	
	Gas Availability Theme:	**LIMTD**	70% theme weighting	
	Wind Ambition Theme:	**HI**	40% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0-HIGH-LIMTD-HI Outlook	

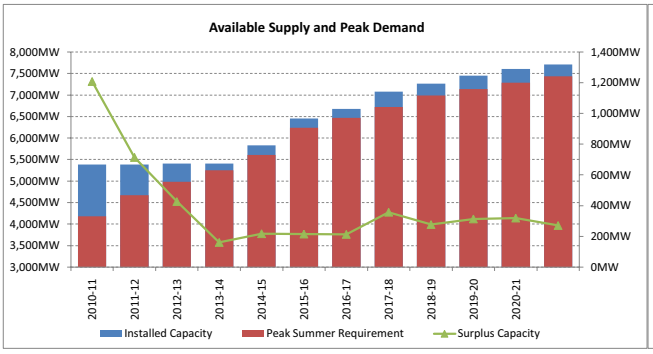


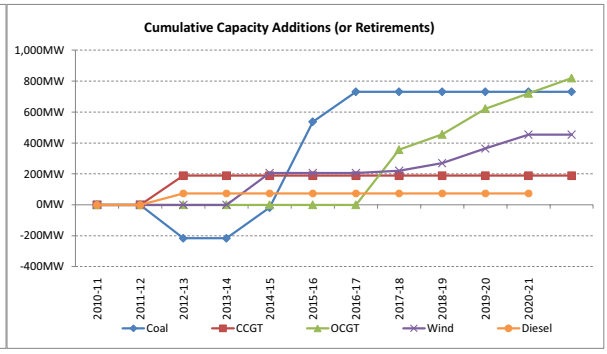


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13			
2013-14	Collgar Stage 1 206 (206MW Wind), Muja AB 220 (198.44MW Coal), DSM 2 50 (50MW DSM), Bluewaters 3 215 (193.93MW Coal),		
2014-15	Merredin 74 (73.26MW Diesel), Badgingarra 130 (130MW Wind), Grasmere 14 (14MW Wind), Nilgen 132 (132MW Wind), Coolimba Aviva Coal 400 (360.8MW Coal), Centauri 1 168 (166.32MW OCGT),		
2015-16	DSM 3 50 (50MW DSM), Collgar Stage 2 30 (30MW Wind), Alinta Walkaway 2 94 (94MW Wind), Bluewaters 4 215 (193.93MW Coal), Mumbida 90 (90MW Wind), Regional Diesel #1 40 (39.6MW Diesel),		
2016-17	Milyeannup 55 (55MW Wind), Augusta 50 (50MW Wind), Regional Diesel #2 40 (39.6MW Diesel), Regional Diesel #3 40 (39.6MW Diesel), Regional Diesel #4 40 (39.6MW Diesel),		
2017-18	Henderson 60 (60MW Wind), Coolimba OCGT 360 (356.4MW OCGT),		
2018-19	Dandaragan - Yandin 389.4 (389.4MW Wind),		
2019-20	DSM 4 77 (77MW DSM), North Country OCGT #2 100 (99MW OCGT),		
2020-21	Kwinana OCGT #1 100 (99MW OCGT), North Country OCGT #1 100 (99MW OCGT),		

Ranking	Top Down Probability	FINAL Scenario Probability
7	4.9%	**4.9%**

Scenario #				
8	CPT Theme:	**0%**	25% theme weighting	
	Load Theme:	**HIGH**	70% theme weighting	
	Gas Availability Theme:	**LIMTD**	70% theme weighting	
	Wind Ambition Theme:	**LO**	60% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0-HIGH-LIMTD-LO Outlook	

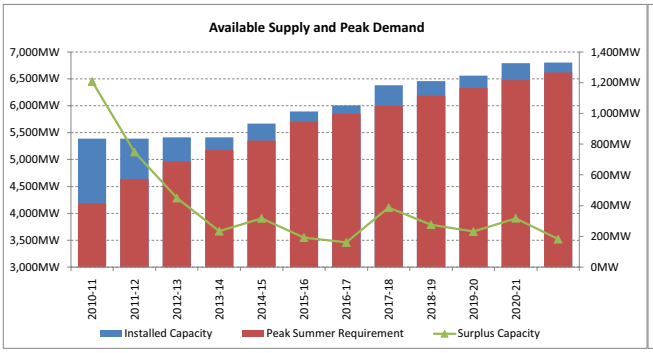


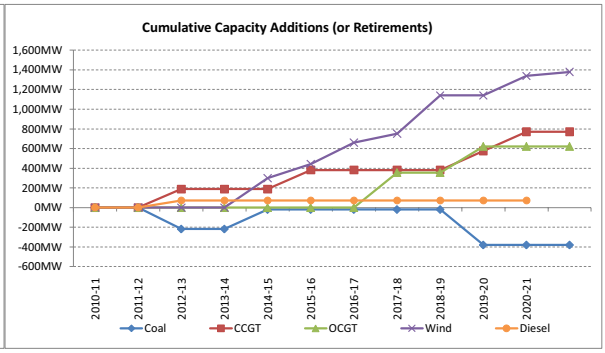


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13			
2013-14	Collgar Stage 1 206 (206MW Wind), Muja AB 220 (198.44MW Coal), DSM 2 50 (50MW DSM), DSM 3 50 (50MW DSM), DSM 4 77 (77MW DSM),		
2014-15	Merredin 74 (73.26MW Diesel), Carnegie Wave 1 5 (5MW Wave), Coolimba Aviva Coal 400 (360.8MW Coal), Bluewaters 3 215 (193.93MW Coal),		
2015-16	Spiritwest Neerabup 29.9 (29.9MW Biomass), Bluewaters 4 215 (193.93MW Coal),		
2016-17	Grasmere 14 (14MW Wind), Coolimba OCGT 360 (356.4MW OCGT), Regional Diesel #1 40 (39.6MW Diesel),		
2017-18	Augusta 50 (50MW Wind), North Country OCGT #1 100 (99MW OCGT), Regional Diesel #2 40 (39.6MW Diesel), Regional Diesel #3 40 (39.6MW Diesel),		
2018-19	Alinta Walkaway 2 94 (94MW Wind), Centauri 1 168 (166.32MW OCGT),		
2019-20	Mumbida 90 (90MW Wind), Kwinana OCGT #1 100 (99MW OCGT), Regional Diesel #4 40 (39.6MW Diesel),		
2020-21	Northern Terminal OCGT #1 100 (99MW OCGT),		

Ranking	Top Down Probability	FINAL Scenario Probability
4	7.4%	**7.4%**

Scenario #				
9	CPT Theme:	**5%**	40% theme weighting	
	Load Theme:	**CNTRL**	40% theme weighting	
	Gas Availability Theme:	**ABUND**	30% theme weighting	
	Wind Ambition Theme:	**HI**	40% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.05-CNTRL-ABUND-HI Outlook	

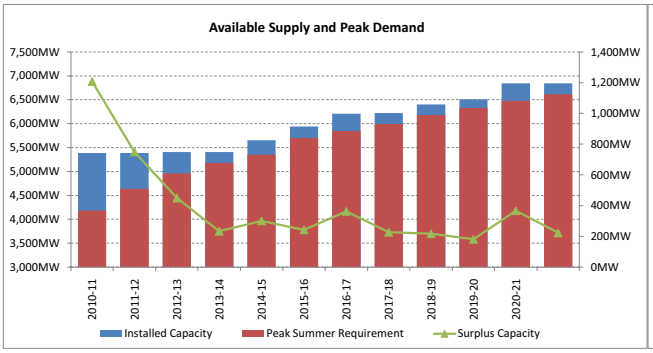


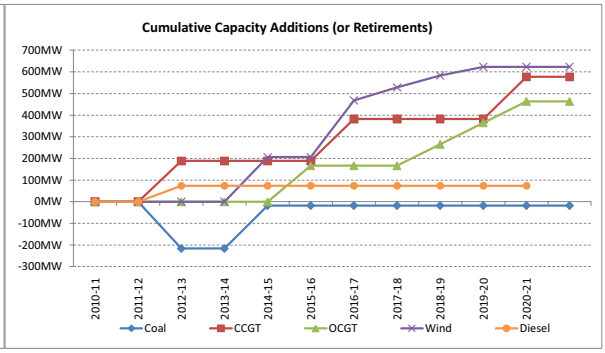


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13			
2013-14	Collgar Stage 1 206 (206MW Wind), Muja AB 220 (198.44MW Coal), Alinta Walkaway 2 94 (94MW Wind),		
2014-15	Badgingarra 130 (130MW Wind), Grasmere 14 (14MW Wind), Kwinana CCGT #1 200 (194.2MW CCGT),		
2015-16	Merredin 74 (73.26MW Diesel), Collgar Stage 2 30 (30MW Wind), Milyeannup 55 (55MW Wind), Nilgen 132 (132MW Wind),		
2016-17	Mumbida 90 (90MW Wind), Coolimba OCGT 360 (356.4MW OCGT),		
2017-18	Dandaragan - Yandin 389.4 (389.4MW Wind),		
2018-19	Centauri 1 168 (166.32MW OCGT), Kwinana OCGT #1 100 (99MW OCGT), Kwinana CCGT #2 200 (194.2MW CCGT),	Muja C 400 (-360.8MW Coal),	
2019-20	Dandaragan - Waddi 198 (198MW Wind), Northern Terminal CCGT #1 200 (194.2MW CCGT),		
2020-21	Cervantes 40 (40MW Wind),		

Ranking	Top Down Probability	FINAL Scenario Probability
20	1.9%	**1.9%**

Scenario #				
10	CPT Theme:	**5%**	40% theme weighting	
	Load Theme:	**CNTRL**	40% theme weighting	
	Gas Availability Theme:	**ABUND**	30% theme weighting	
	Wind Ambition Theme:	**LO**	60% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.05-CNTRL-ABUND-LO Outlook	

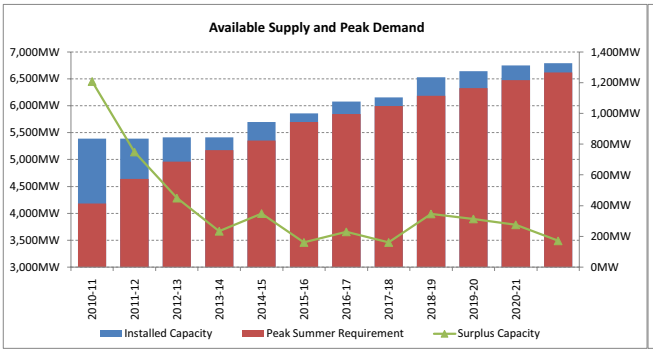


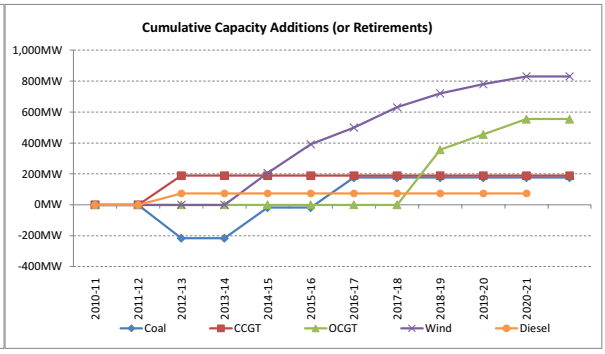


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13			
2013-14	Collgar Stage 1 206 (206MW Wind), Muja AB 220 (198.44MW Coal), Carnegie Wave 1 5 (5MW Wave),		
2014-15	Merredin 74 (73.26MW Diesel), DSM 2 50 (50MW DSM), Centauri 1 168 (166.32MW OCGT),		
2015-16	Badgingarra 130 (130MW Wind), Nilgen 132 (132MW Wind), Mingenew Solar Thermal 1 50 (45MW Solar Thermal), North Country CCGT #1 200 (194.2MW CCGT),		
2016-17	Henderson 60 (60MW Wind),		
2017-18	Spiritwest Neerabup 29.9 (29.9MW Biomass), Milyeannup 55 (55MW Wind), Northern Terminal OCGT #1 100 (99MW OCGT), Regional Diesel #1 40 (39.6MW Diesel),		
2018-19	Cervantes 40 (40MW Wind), Northern Terminal OCGT #2 100 (99MW OCGT),		
2019-20	Kwinana OCGT #1 100 (99MW OCGT), Kwinana CCGT #1 200 (194.2MW CCGT), Regional Diesel #2 40 (39.6MW Diesel),		
2020-21			

Ranking	Top Down Probability	FINAL Scenario Probability
15	2.9%	**2.9%**

Scenario #				
11	CPT Theme:	**5%**	40% theme weighting	
	Load Theme:	**CNTRL**	40% theme weighting	
	Gas Availability Theme:	**LIMTD**	70% theme weighting	
	Wind Ambition Theme:	**HI**	40% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.05-CNTRL-LIMTD-HI Outlook	

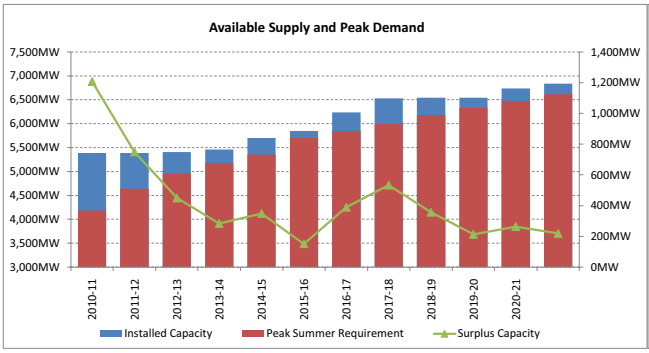


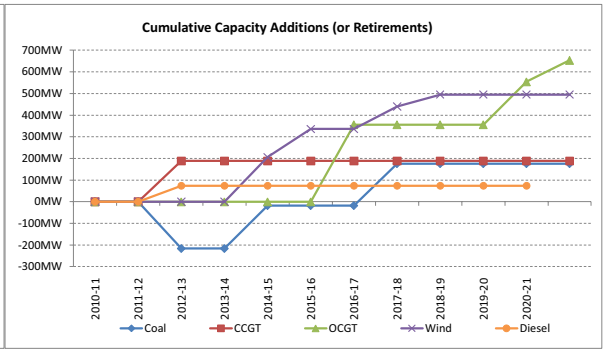


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13			
2013-14	Collgar Stage 1 206 (206MW Wind), Muja AB 220 (198.44MW Coal), DSM 2 50 (50MW DSM),		
2014-15	Merredin 74 (73.26MW Diesel), Badgingarra 130 (130MW Wind), DSM 3 50 (50MW DSM), Milyeannup 55 (55MW Wind),		
2015-16	Carnegie Wave 1 5 (5MW Wave), Grasmere 14 (14MW Wind), Alinta Walkaway 2 94 (94MW Wind), Bluewaters 3 215 (193.93MW Coal),		
2016-17	Spiritwest Neerabup 29.9 (29.9MW Biomass), Nilgen 132 (132MW Wind), Mingenew Solar Thermal 1 50 (45MW Solar Thermal),		
2017-18	Mumbida 90 (90MW Wind), Coolimba OCGT 360 (356.4MW OCGT),		
2018-19	Henderson 60 (60MW Wind), Kwinana OCGT #1 100 (99MW OCGT),		
2019-20	Augusta 50 (50MW Wind), Northern Terminal OCGT #1 100 (99MW OCGT),		
2020-21	Regional Diesel #1 40 (39.6MW Diesel),		

Ranking	Top Down Probability	FINAL Scenario Probability
9	4.5%	**4.5%**

Scenario #				
12	CPT Theme:	**5%**	40% theme weighting	
	Load Theme:	**CNTRL**	40% theme weighting	
	Gas Availability Theme:	**LIMTD**	70% theme weighting	
	Wind Ambition Theme:	**LO**	60% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.05-CNTRL-LIMTD-LO Outlook	

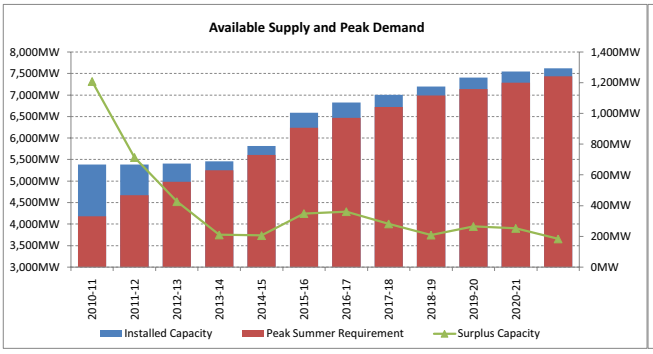


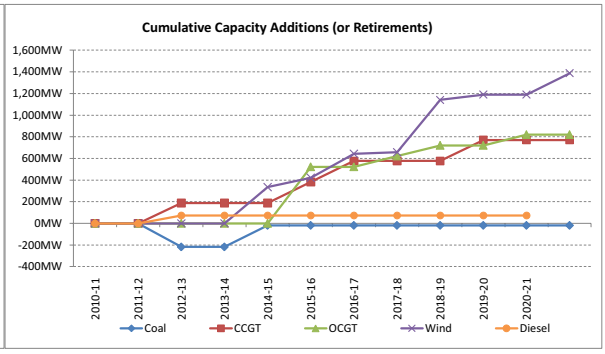


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13	DSM 2 50 (50MW DSM),		
2013-14	Collgar Stage 1 206 (206MW Wind), Muja AB 220 (198.44MW Coal),		
2014-15	Merredin 74 (73.26MW Diesel), Badgingarra 130 (130MW Wind), Carnegie Wave 1 5 (5MW Wave), DSM 3 50 (50MW DSM),		
2015-16	Spiritwest Neerabup 29.9 (29.9MW Biomass), Coolimba OCGT 360 (356.4MW OCGT),		
2016-17	Grasmere 14 (14MW Wind), Bluewaters 3 215 (193.93MW Coal), DSM 4 77 (77MW DSM), Mumbida 90 (90MW Wind),		
2017-18	Milyeannup 55 (55MW Wind), Kalgoorlie 2 1.77 (1.77MW Solar PV),		
2018-19			
2019-20	Kwinana OCGT #1 100 (99MW OCGT), Northern Terminal OCGT #1 100 (99MW OCGT),		
2020-21	Kwinana OCGT #2 100 (99MW OCGT),		

Ranking	Top Down Probability	FINAL Scenario Probability
5	6.7%	**6.7%**

Scenario #				
13	CPT Theme:	**5%**	40% theme weighting	
	Load Theme:	**HIGH**	60% theme weighting	
	Gas Availability Theme:	**ABUND**	30% theme weighting	
	Wind Ambition Theme:	**HI**	40% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.05-HIGH-ABUND-HI Outlook	

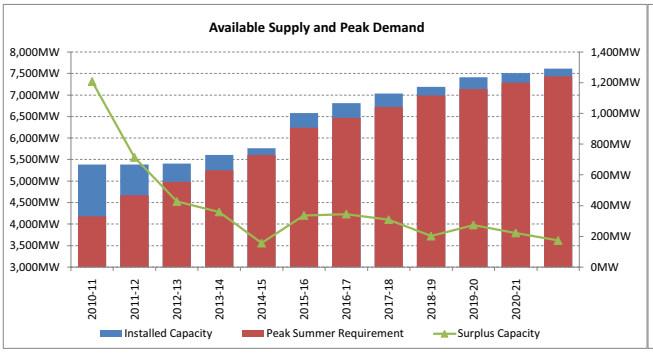


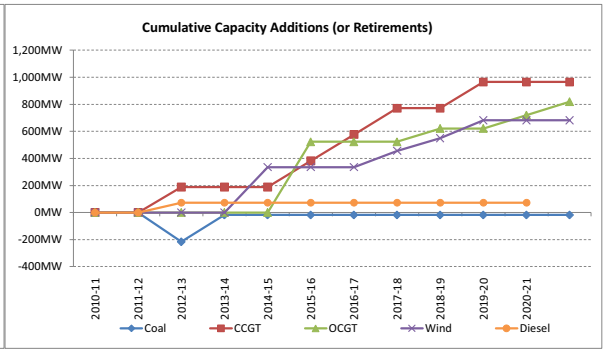


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13	DSM 2 50 (50MW DSM),		
2013-14	Collgar Stage 1 206 (206MW Wind), Muja AB 220 (198.44MW Coal), Badgingarra 130 (130MW Wind), DSM 3 50 (50MW DSM), Regional Diesel #1 40 (39.6MW Diesel),		
2014-15	Carnegie Wave 1 5 (5MW Wave), Collgar Stage 2 30 (30MW Wind), Milyeannup 55 (55MW Wind), Centauri 1 168 (166.32MW OCGT), Coolimba OCGT 360 (356.4MW OCGT), North Country CCGT #1 200 (194.2MW CCGT), Regional Diesel #2 40 (39.6MW Diesel),		
2015-16	Nilgen 132 (132MW Wind), Mumbida 90 (90MW Wind), Kwinana CCGT #1 200 (194.2MW CCGT),		
2016-17	Merredin 74 (73.26MW Diesel), Grasmere 14 (14MW Wind), North Country OCGT #1 100 (99MW OCGT),		
2017-18	Alinta Walkaway 2 94 (94MW Wind), Dandaragan - Yandin 389.4 (389.4MW Wind), North Country OCGT #2 100 (99MW OCGT),		
2018-19	Augusta 50 (50MW Wind), Kwinana CCGT #2 200 (194.2MW CCGT),		
2019-20	Kwinana OCGT #1 100 (99MW OCGT), Regional Diesel #3 40 (39.6MW Diesel),		
2020-21	Dandaragan - Waddi 198 (198MW Wind), Regional Diesel #4 40 (39.6MW Diesel),		

Ranking	Top Down Probability	FINAL Scenario Probability
16	2.9%	**2.9%**

Scenario #				
14	CPT Theme:	**5%**	40% theme weighting	
	Load Theme:	**HIGH**	60% theme weighting	
	Gas Availability Theme:	**ABUND**	30% theme weighting	
	Wind Ambition Theme:	**LO**	60% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.05-HIGH-ABUND-LO Outlook	

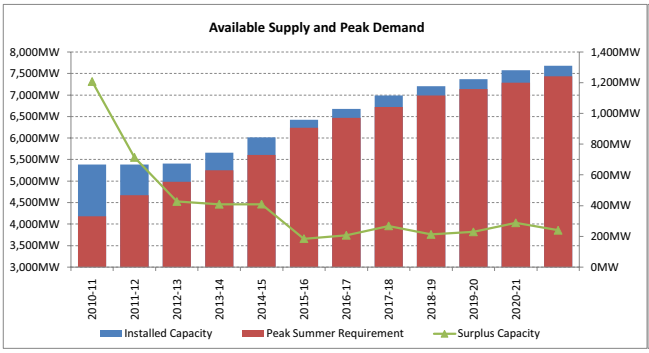


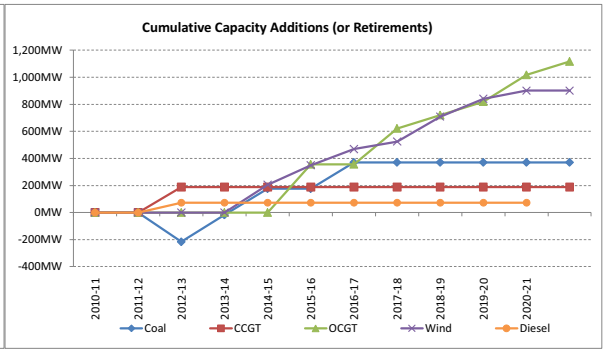


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13	Muja AB 220 (198.44MW Coal),		
2013-14	Collgar Stage 1 206 (206MW Wind), Badgingarra 130 (130MW Wind), DSM 2 50 (50MW DSM), Regional Diesel #1 40 (39.6MW Diesel),		
2014-15	Merredin 74 (73.26MW Diesel), Mingenew Solar Thermal 1 50 (45MW Solar Thermal), Centauri 1 168 (166.32MW OCGT), Coolimba OCGT 360 (356.4MW OCGT), North Country CCGT #1 200 (194.2MW CCGT),		
2015-16	Kalgoorlie 2 1.77 (1.77MW Solar PV), Kwinana CCGT #1 200 (194.2MW CCGT), Regional Diesel #2 40 (39.6MW Diesel),		
2016-17	Collgar Stage 2 30 (30MW Wind), Mumbida 90 (90MW Wind), Kwinana CCGT #2 200 (194.2MW CCGT),		
2017-18	Alinta Walkaway 2 94 (94MW Wind), Newworld Geothermal 1 5 (4.25MW Geo), North Country OCGT #1 100 (99MW OCGT), Regional Diesel #3 40 (39.6MW Diesel),		
2018-19	Nilgen 132 (132MW Wind), Northern Terminal CCGT #1 200 (194.2MW CCGT),		
2019-20	Northern Terminal OCGT #1 100 (99MW OCGT),		
2020-21	Kwinana OCGT #1 100 (99MW OCGT),		

Ranking	Top Down Probability	FINAL Scenario Probability
10	4.3%	**4.3%**

Scenario #				
15	CPT Theme:	**5%**	40% theme weighting	
	Load Theme:	**HIGH**	60% theme weighting	
	Gas Availability Theme:	**LIMTD**	70% theme weighting	
	Wind Ambition Theme:	**HI**	40% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.05-HIGH-LIMTD-HI Outlook	

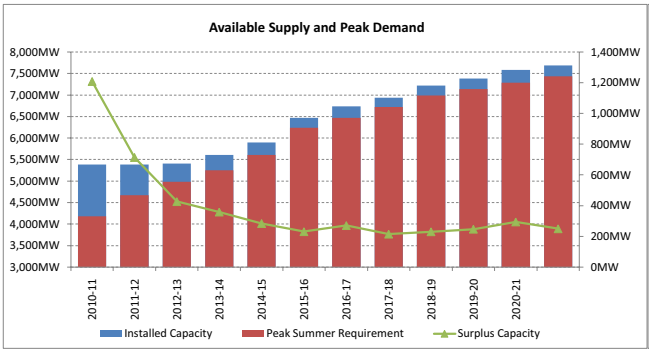


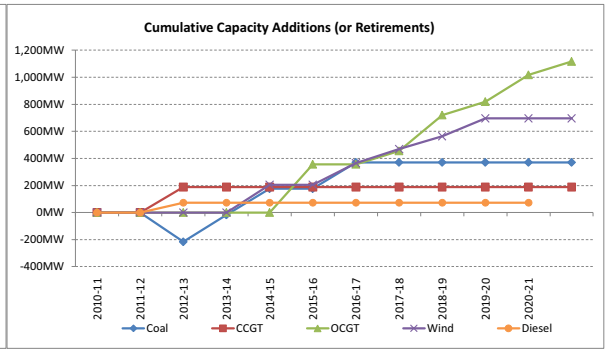


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13	Muja AB 220 (198.44MW Coal), DSM 2 50 (50MW DSM),		
2013-14	Collgar Stage 1 206 (206MW Wind), Merredin 74 (73.26MW Diesel), Carnegie Wave 1 5 (5MW Wave), DSM 3 50 (50MW DSM), Bluewaters 3 215 (193.93MW Coal),		
2014-15	Badgingarra 130 (130MW Wind), Grasmere 14 (14MW Wind), Mingenew Solar Thermal 1 50 (45MW Solar Thermal), Coolimba OCGT 360 (356.4MW OCGT),		
2015-16	Collgar Stage 2 30 (30MW Wind), Spiritwest Neerabup 29.9 (29.9MW Biomass), Bluewaters 4 215 (193.93MW Coal), Mumbida 90 (90MW Wind),		
2016-17	Milyeannup 55 (55MW Wind), Centauri 1 168 (166.32MW OCGT), Northern Terminal OCGT #2 100 (99MW OCGT), Regional Diesel #1 40 (39.6MW Diesel),		
2017-18	Alinta Walkaway 2 94 (94MW Wind), DSM 4 77 (77MW DSM), Augusta 50 (50MW Wind), Cervantes 40 (40MW Wind), Northern Terminal OCGT #1 100 (99MW OCGT),		
2018-19	Nilgen 132 (132MW Wind), North Country OCGT #1 100 (99MW OCGT), Regional Diesel #2 40 (39.6MW Diesel),		
2019-20	Henderson 60 (60MW Wind), Kwinana OCGT #1 100 (99MW OCGT), North Country OCGT #2 100 (99MW OCGT),		
2020-21	Kwinana OCGT #2 100 (99MW OCGT),		

Ranking	Top Down Probability	FINAL Scenario Probability
5	6.7%	**6.7%**

Scenario #				
16	CPT Theme:	**5%**	40% theme weighting	
	Load Theme:	**HIGH**	60% theme weighting	
	Gas Availability Theme:	**LIMTD**	70% theme weighting	
	Wind Ambition Theme:	**LO**	60% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.05-HIGH-LIMTD-LO Outlook	

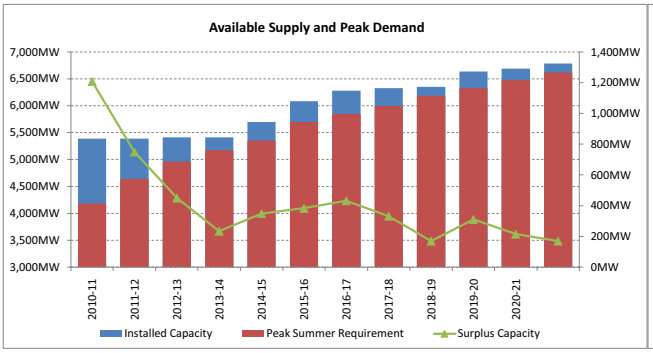


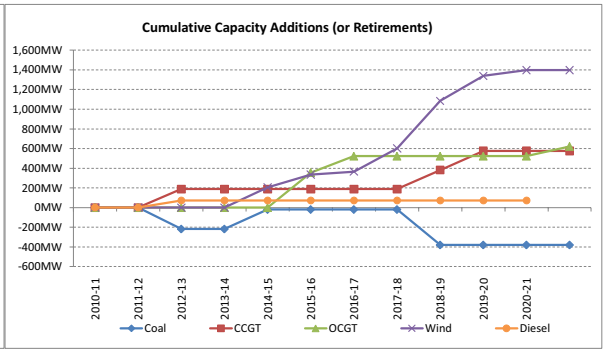


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13	Muja AB 220 (198.44MW Coal),		
2013-14	Collgar Stage 1 206 (206MW Wind), DSM 2 50 (50MW DSM), Bluewaters 3 215 (193.93MW Coal),		
2014-15	Merredin 74 (73.26MW Diesel), DSM 3 50 (50MW DSM), Mingenew Solar Thermal 1 50 (45MW Solar Thermal), DSM 4 77 (77MW DSM), Coolimba OCGT 360 (356.4MW OCGT),		
2015-16	Badgingarra 130 (130MW Wind), Collgar Stage 2 30 (30MW Wind), Bluewaters 4 215 (193.93MW Coal), Regional Diesel #1 40 (39.6MW Diesel),		
2016-17	Grasmere 14 (14MW Wind), Mumbida 90 (90MW Wind), North Country OCGT #1 100 (99MW OCGT), Regional Diesel #2 40 (39.6MW Diesel), Regional Diesel #3 40 (39.6MW Diesel),		
2017-18	Alinta Walkaway 2 94 (94MW Wind), Centauri 1 168 (166.32MW OCGT), North Country OCGT #2 100 (99MW OCGT),		
2018-19	Nilgen 132 (132MW Wind), Kwinana OCGT #1 100 (99MW OCGT), Regional Diesel #4 40 (39.6MW Diesel),		
2019-20	Kwinana OCGT #2 100 (99MW OCGT), Northern Terminal OCGT #1 100 (99MW OCGT),		
2020-21	Newworld Geothermal 1 5 (4.25MW Geo), Northern Terminal OCGT #2 100 (99MW OCGT),		

Ranking	Top Down Probability	FINAL Scenario Probability
2	10.1%	**10.1%**

Scenario #				
17	CPT Theme:	**15%**	35% theme weighting	
	Load Theme:	**CNTRL**	75% theme weighting	
	Gas Availability Theme:	**ABUND**	30% theme weighting	
	Wind Ambition Theme:	**HI**	40% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.15-CNTRL-ABUND-HI Outlook	

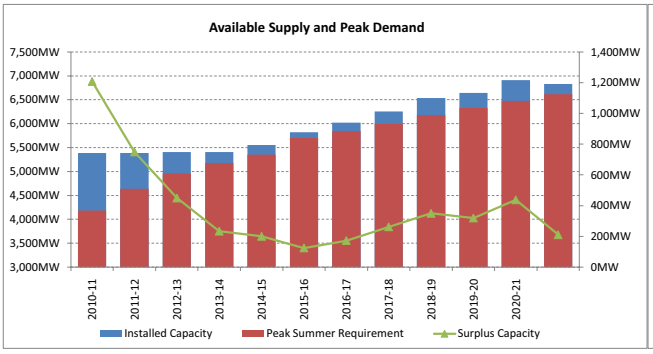


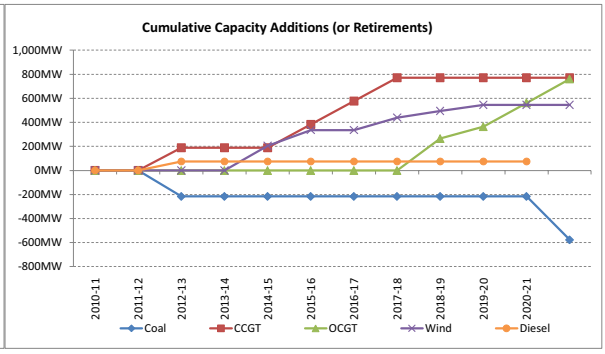


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13			
2013-14	Collgar Stage 1 206 (206MW Wind), Muja AB 220 (198.44MW Coal), DSM 2 50 (50MW DSM),		
2014-15	Badgingarra 130 (130MW Wind), Coolimba OCGT 360 (356.4MW OCGT),		
2015-16	Carnegie Wave 1 5 (5MW Wave), Collgar Stage 2 30 (30MW Wind), Mingenew Solar Thermal 1 50 (45MW Solar Thermal), Centauri 1 168 (166.32MW OCGT),		
2016-17	Grasmere 14 (14MW Wind), Nilgen 132 (132MW Wind), Kalgoorlie 2 1.77 (1.77MW Solar PV), Mumbida 90 (90MW Wind),		
2017-18	Spiritwest Neerabup 29.9 (29.9MW Biomass), Alinta Walkaway 2 94 (94MW Wind), Newworld Geothermal 1 5 (4.25MW Geo), Dandaragan - Yandin 389.4 (389.4MW Wind), Mingenew Solar Thermal 2 50 (45MW Solar Thermal), Kwinana CCGT #1 200 (194.2MW CCGT), Regional Diesel #1 40 (39.6MW Diesel),	Muja C 400 (-360.8MW Coal),	
2018-19	Milyeannup 55 (55MW Wind), Dandaragan - Waddi 198 (198MW Wind), Kwinana CCGT #2 200 (194.2MW CCGT), Regional Diesel #2 40 (39.6MW Diesel),		
2019-20	Henderson 60 (60MW Wind), Regional Diesel #3 40 (39.6MW Diesel),		
2020-21	Northern Terminal OCGT #1 100 (99MW OCGT),		

Ranking	Top Down Probability	FINAL Scenario Probability
12	3.2%	**3.2%**

Scenario #				
18	CPT Theme:	**15%**	35% theme weighting	
	Load Theme:	**CNTRL**	75% theme weighting	
	Gas Availability Theme:	**ABUND**	30% theme weighting	
	Wind Ambition Theme:	**LO**	60% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.15-CNTRL-ABUND-LO Outlook	

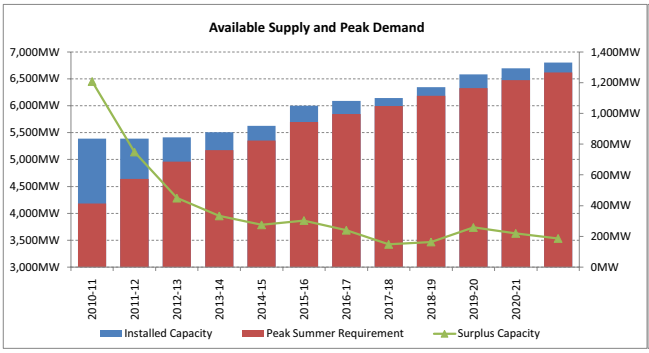


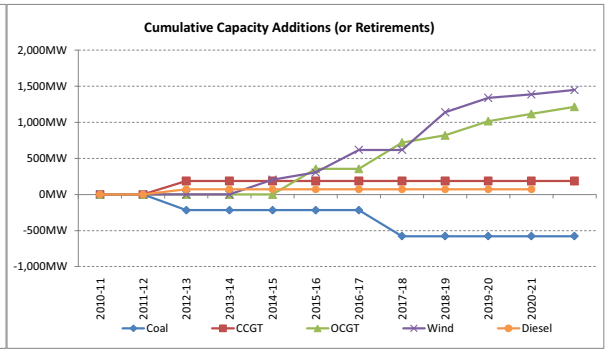


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13			
2013-14	Collgar Stage 1 206 (206MW Wind), DSM 2 50 (50MW DSM), DSM 3 50 (50MW DSM),		
2014-15	Badgingarra 130 (130MW Wind), Spiritwest Neerabup 29.9 (29.9MW Biomass), Mingenew Solar Thermal 1 50 (45MW Solar Thermal), Kwinana CCGT #1 200 (194.2MW CCGT),		
2015-16	Carnegie Wave 1 5 (5MW Wave), North Country CCGT #1 200 (194.2MW CCGT),		
2016-17	Grasmere 14 (14MW Wind), Mingenew Solar Thermal 2 50 (45MW Solar Thermal), Mumbida 90 (90MW Wind), Kwinana CCGT #2 200 (194.2MW CCGT),		
2017-18	Milyeannup 55 (55MW Wind), Centauri 1 168 (166.32MW OCGT), Kwinana OCGT #1 100 (99MW OCGT),		
2018-19	Newworld Geothermal 1 5 (4.25MW Geo), Augusta 50 (50MW Wind), Northern Terminal OCGT #1 100 (99MW OCGT),		
2019-20	Mingenew Solar Thermal 3 150 (135MW Solar Thermal), Kwinana OCGT #3 100 (99MW OCGT), Northern Terminal OCGT #2 100 (99MW OCGT),		
2020-21	Kwinana OCGT #2 100 (99MW OCGT), Northern Terminal OCGT #3 100 (99MW OCGT), Regional Diesel #1 40 (39.6MW Diesel), Regional Diesel #2 40 (39.6MW Diesel),	Muja C 400 (-360.8MW Coal),	

Ranking	Top Down Probability	FINAL Scenario Probability
8	4.7%	**4.7%**

Scenario #				
19	CPT Theme:	**15%**	35% theme weighting	
	Load Theme:	**CNTRL**	75% theme weighting	
	Gas Availability Theme:	**LIMTD**	70% theme weighting	
	Wind Ambition Theme:	**HI**	40% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.15-CNTRL-LIMTD-HI Outlook	

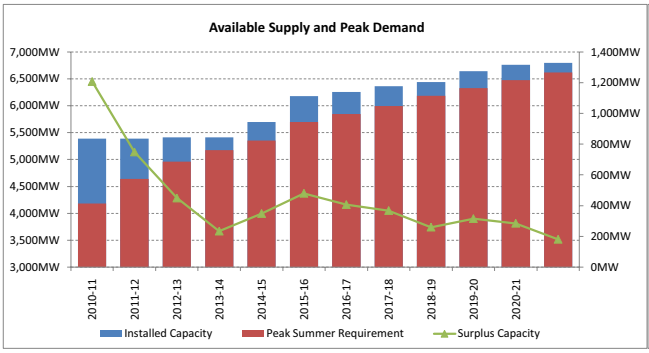


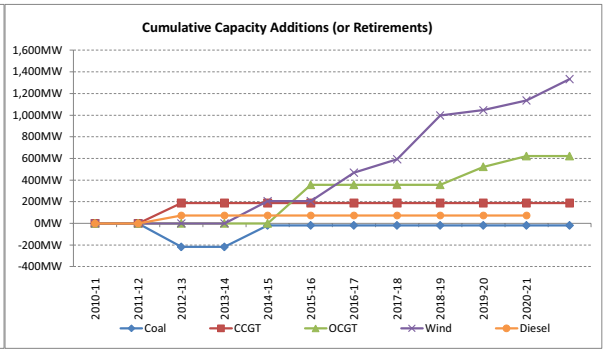


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13	DSM 2 50 (50MW DSM), DSM 3 50 (50MW DSM),		
2013-14	Collgar Stage 1 206 (206MW Wind), Merredin 74 (73.26MW Diesel), Carnegie Wave 1 5 (5MW Wave),		
2014-15	Collgar Stage 2 30 (30MW Wind), Grasmere 14 (14MW Wind), Milyeannup 55 (55MW Wind), Coolimba OCGT 360 (356.4MW OCGT),		
2015-16	Badgingarra 130 (130MW Wind), Alinta Walkaway 2 94 (94MW Wind), Mingenew Solar Thermal 1 50 (45MW Solar Thermal), Mumbida 90 (90MW Wind),		
2016-17	Spiritwest Neerabup 29.9 (29.9MW Biomass), Centauri 1 168 (166.32MW OCGT), Mingenew Solar Thermal 2 50 (45MW Solar Thermal), Kwinana OCGT #1 100 (99MW OCGT), Northern Terminal OCGT #1 100 (99MW OCGT),	Muja C 400 (-360.8MW Coal),	
2017-18	Nilgen 132 (132MW Wind), Kalgoorlie 2 1.77 (1.77MW Solar PV), Dandaragan - Yandin 389.4 (389.4MW Wind), Northern Terminal OCGT #2 100 (99MW OCGT),		
2018-19	Dandaragan - Waddi 198 (198MW Wind), Kwinana OCGT #2 100 (99MW OCGT), Northern Terminal OCGT #3 100 (99MW OCGT),		
2019-20	Augusta 50 (50MW Wind), Kwinana OCGT #3 100 (99MW OCGT),		
2020-21	Henderson 60 (60MW Wind), Kwinana OCGT #4 100 (99MW OCGT),		

Ranking	Top Down Probability	FINAL Scenario Probability
3	7.4%	**7.4%**

Scenario #				
20	CPT Theme:	**15%**	35% theme weighting	
	Load Theme:	**CNTRL**	75% theme weighting	
	Gas Availability Theme:	**LIMTD**	70% theme weighting	
	Wind Ambition Theme:	**LO**	60% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.15-CNTRL-LIMTD-LO Outlook	

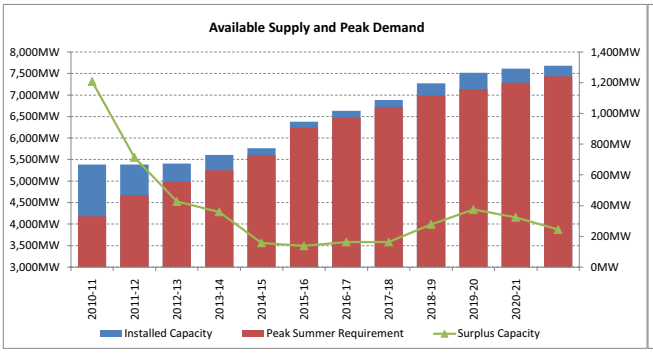


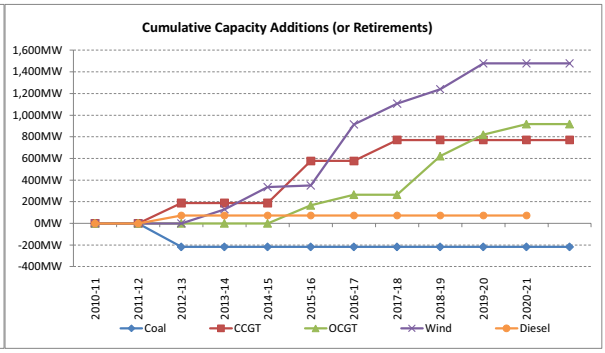


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13			
2013-14	Collgar Stage 1 206 (206MW Wind), Muja AB 220 (198.44MW Coal), DSM 2 50 (50MW DSM),		
2014-15	Merredin 74 (73.26MW Diesel), DSM 3 50 (50MW DSM), Coolimba OCGT 360 (356.4MW OCGT),		
2015-16	Badgingarra 130 (130MW Wind), Nilgen 132 (132MW Wind), Mingenew Solar Thermal 1 50 (45MW Solar Thermal),		
2016-17	Carnegie Wave 1 5 (5MW Wave), Collgar Stage 2 30 (30MW Wind), Milyeannup 55 (55MW Wind), Newworld Geothermal 1 5 (4.25MW Geo), DSM 4 77 (77MW DSM), Kalgoorlie 2 1.77 (1.77MW Solar PV), Cervantes 40 (40MW Wind),		
2017-18	Grasmere 14 (14MW Wind), Dandaragan - Yandin 389.4 (389.4MW Wind),		
2018-19	Centauri 1 168 (166.32MW OCGT), Augusta 50 (50MW Wind), Mingenew Solar Thermal 2 50 (45MW Solar Thermal),		
2019-20	Mumbida 90 (90MW Wind), Kwinana OCGT #1 100 (99MW OCGT),		
2020-21	Dandaragan - Waddi 198 (198MW Wind),		

Ranking	Top Down Probability	FINAL Scenario Probability
1	11.0%	**11.0%**

Scenario #				
21	CPT Theme:	**15%**	35% theme weighting	
	Load Theme:	**HIGH**	25% theme weighting	
	Gas Availability Theme:	**ABUND**	30% theme weighting	
	Wind Ambition Theme:	**HI**	40% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.15-HIGH-ABUND-HI Outlook	

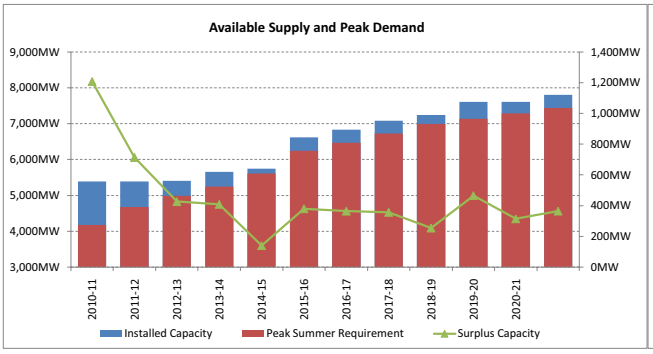


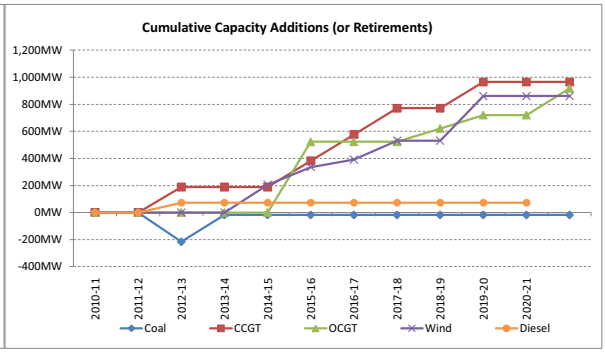


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13	Merredin 74 (73.26MW Diesel), Badgingarra 130 (130MW Wind), DSM 2 50 (50MW DSM), DSM 3 50 (50MW DSM),		
2013-14	Collgar Stage 1 206 (206MW Wind), DSM 4 77 (77MW DSM), Regional Diesel #1 40 (39.6MW Diesel),		
2014-15	Carnegie Wave 1 5 (5MW Wave), Spiritwest Neerabup 29.9 (29.9MW Biomass), Grasmere 14 (14MW Wind), Mingenew Solar Thermal 1 50 (45MW Solar Thermal), Centauri 1 168 (166.32MW OCGT), Kwinana CCGT #1 200 (194.2MW CCGT), Kwinana CCGT #2 200 (194.2MW CCGT),		
2015-16	Collgar Stage 2 30 (30MW Wind), Milyeannup 55 (55MW Wind), Dandaragan - Yandin 389.4 (389.4MW Wind), Mumbida 90 (90MW Wind), Northern Terminal OCGT #1 100 (99MW OCGT), Regional Diesel #2 40 (39.6MW Diesel),		
2016-17	Nilgen 132 (132MW Wind), Henderson 60 (60MW Wind), Mingenew Solar Thermal 2 50 (45MW Solar Thermal), North Country CCGT #1 200 (194.2MW CCGT),		
2017-18	Alinta Walkaway 2 94 (94MW Wind), Joanna Plains 40 (40MW Wind), Coolimba OCGT 360 (356.4MW OCGT),		
2018-19	Dandaragan - Waddi 198 (198MW Wind), Cervantes 40 (40MW Wind), North Country OCGT #1 100 (99MW OCGT), North Country OCGT #2 100 (99MW OCGT),		
2019-20	Kalgoorlie 2 1.77 (1.77MW Solar PV), Kwinana OCGT #1 100 (99MW OCGT),		
2020-21	Mingenew Solar Thermal 3 150 (135MW Solar Thermal),		

Ranking	Top Down Probability	FINAL Scenario Probability
23	1.1%	**1.1%**

Scenario #				
22	CPT Theme:	**15%**	35% theme weighting	
	Load Theme:	**HIGH**	25% theme weighting	
	Gas Availability Theme:	**ABUND**	30% theme weighting	
	Wind Ambition Theme:	**LO**	60% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.15-HIGH-ABUND-LO Outlook	

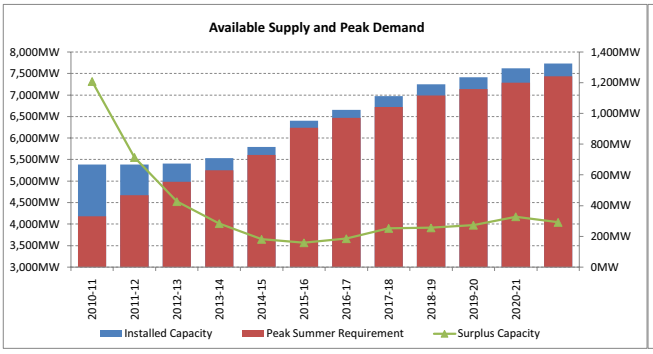


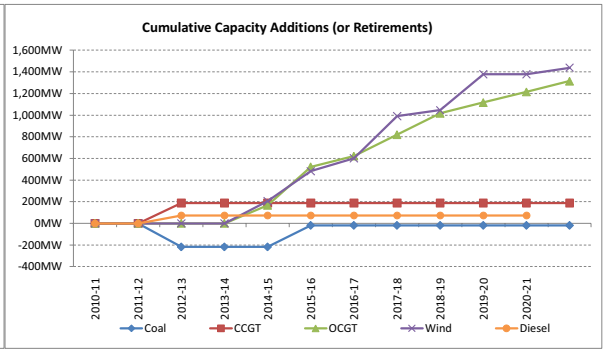


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13	Muja AB 220 (198.44MW Coal), DSM 2 50 (50MW DSM),		
2013-14	Collgar Stage 1 206 (206MW Wind), DSM 3 50 (50MW DSM),		
2014-15	Badgingarra 130 (130MW Wind), Spiritwest Neerabup 29.9 (29.9MW Biomass), Mingenew Solar Thermal 1 50 (45MW Solar Thermal), DSM 4 77 (77MW DSM), Centauri 1 168 (166.32MW OCGT), Coolimba OCGT 360 (356.4MW OCGT), Kwinana CCGT #1 200 (194.2MW CCGT),		
2015-16	Milyeannup 55 (55MW Wind), Newworld Geothermal 1 5 (4.25MW Geo), Kalgoorlie 2 1.77 (1.77MW Solar PV), North Country CCGT #1 200 (194.2MW CCGT),		
2016-17	Carnegie Wave 1 5 (5MW Wave), Augusta 50 (50MW Wind), Mingenew Solar Thermal 2 50 (45MW Solar Thermal), Mumbida 90 (90MW Wind), Kwinana CCGT #2 200 (194.2MW CCGT),		
2017-18	Mingenew Solar Thermal 3 150 (135MW Solar Thermal), North Country OCGT #1 100 (99MW OCGT),		
2018-19	Nilgen 132 (132MW Wind), Dandaragan - Waddi 198 (198MW Wind), Kwinana OCGT #1 100 (99MW OCGT), Northern Terminal CCGT #1 200 (194.2MW CCGT),		
2019-20			
2020-21	North Country OCGT #2 100 (99MW OCGT), Northern Terminal OCGT #1 100 (99MW OCGT),		

Ranking	Top Down Probability	FINAL Scenario Probability
21	1.6%	**1.6%**

Scenario #				
23	CPT Theme:	**15%**	35% theme weighting	
	Load Theme:	**HIGH**	25% theme weighting	
	Gas Availability Theme:	**LIMTD**	70% theme weighting	
	Wind Ambition Theme:	**HI**	40% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.15-HIGH-LIMTD-HI Outlook	

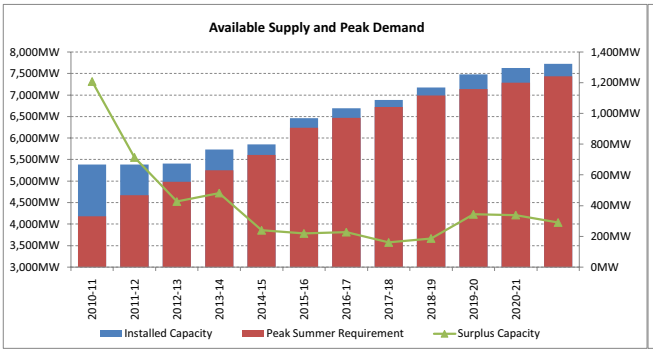


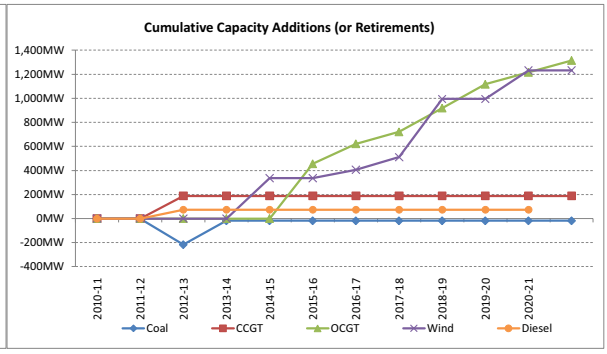


	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13	Merredin 74 (73.26MW Diesel), DSM 2 50 (50MW DSM),		
2013-14	Collgar Stage 1 206 (206MW Wind), DSM 3 50 (50MW DSM), Centauri 1 168 (166.32MW OCGT),		
2014-15	Muja AB 220 (198.44MW Coal), Badgingarra 130 (130MW Wind), Grasmere 14 (14MW Wind), Nilgen 132 (132MW Wind), Coolimba OCGT 360 (356.4MW OCGT),		
2015-16	Collgar Stage 2 30 (30MW Wind), Spiritwest Neerabup 29.9 (29.9MW Biomass), Mingenew Solar Thermal 1 50 (45MW Solar Thermal), DSM 4 77 (77MW DSM), Mumbida 90 (90MW Wind), North Country OCGT #1 100 (99MW OCGT),		
2016-17	Carnegie Wave 1 5 (5MW Wave), Newworld Geothermal 1 5 (4.25MW Geo), Dandaragan - Yandin 389.4 (389.4MW Wind), Kwinana OCGT #1 100 (99MW OCGT), North Country OCGT #2 100 (99MW OCGT), Regional Diesel #1 40 (39.6MW Diesel),		
2017-18	Milyeannup 55 (55MW Wind), Kalgoorlie 2 1.77 (1.77MW Solar PV), Mingenew Solar Thermal 2 50 (45MW Solar Thermal), North Country OCGT #3 100 (99MW OCGT), Northern Terminal OCGT #1 100 (99MW OCGT), Regional Diesel #2 40 (39.6MW Diesel),		
2018-19	Alinta Walkaway 2 94 (94MW Wind), Dandaragan - Waddi 198 (198MW Wind), Joanna Plains 40 (40MW Wind), Northern Terminal OCGT #2 100 (99MW OCGT),		
2019-20	Mingenew Solar Thermal 3 150 (135MW Solar Thermal), Kwinana OCGT #2 100 (99MW OCGT), Regional Diesel #3 40 (39.6MW Diesel),		
2020-21	Henderson 60 (60MW Wind), North Country OCGT #4 100 (99MW OCGT),		

Ranking	Top Down Probability	FINAL Scenario Probability
17	2.5%	**2.5%**

Scenario #				
24	CPT Theme:	**15%**	35% theme weighting	
	Load Theme:	**HIGH**	25% theme weighting	
	Gas Availability Theme:	**LIMTD**	70% theme weighting	
	Wind Ambition Theme:	**LO**	60% theme weighting	
	Planting Schedule:	**A**	1 of 0 planting scenarios for the 0.15-HIGH-LIMTD-LO Outlook	





	New Projects	Retirements	Comments
2009-10			
2010-11			
2011-12	Kwinana HEGT 194 (188.374MW CCGT), DSM 1 50 (50MW DSM),	Kwinana A 240 (-216.48MW Coal),	
2012-13	Muja AB 220 (198.44MW Coal), Merredin 74 (73.26MW Diesel), DSM 2 50 (50MW DSM),		
2013-14	Collgar Stage 1 206 (206MW Wind), Badgingarra 130 (130MW Wind), DSM 3 50 (50MW DSM),		
2014-15	DSM 4 77 (77MW DSM), Coolimba OCGT 360 (356.4MW OCGT), North Country OCGT #1 100 (99MW OCGT), Regional Diesel #1 40 (39.6MW Diesel), Regional Diesel #2 40 (39.6MW Diesel),		
2015-16	Carnegie Wave 1 5 (5MW Wave), Collgar Stage 2 30 (30MW Wind), Spiritwest Neerabup 29.9 (29.9MW Biomass), Mingenew Solar Thermal 1 50 (45MW Solar Thermal), Centauri 1 168 (166.32MW OCGT), Cervantes 40 (40MW Wind),		
2016-17	Milyeannup 55 (55MW Wind), Newworld Geothermal 1 5 (4.25MW Geo), Kalgoorlie 2 1.77 (1.77MW Solar PV), Augusta 50 (50MW Wind), Mingenew Solar Thermal 2 50 (45MW Solar Thermal), North Country OCGT #2 100 (99MW OCGT), Regional Diesel #3 40 (39.6MW Diesel),		
2017-18	Alinta Walkaway 2 94 (94MW Wind), Dandaragan - Yandin 389.4 (389.4MW Wind), North Country OCGT #3 100 (99MW OCGT), Northern Terminal OCGT #1 100 (99MW OCGT),		
2018-19	Mingenew Solar Thermal 3 150 (135MW Solar Thermal), Kwinana OCGT #1 100 (99MW OCGT), Northern Terminal OCGT #2 100 (99MW OCGT), Regional Diesel #4 40 (39.6MW Diesel),		
2019-20	Dandaragan - Waddi 198 (198MW Wind), Joanna Plains 40 (40MW Wind), North Country OCGT #4 100 (99MW OCGT),		
2020-21	Kwinana OCGT #2 100 (99MW OCGT),		

Ranking	Top Down Probability	FINAL Scenario Probability
11	3.7%	**3.7%**

Potential Project # *(This is a potential New Plant)*

1 **Kwinana HEGT (188.374MW CCGT)** located in the **Kwinana** node

Initially this project was rated a **Committed** likelihood of proceeding, which was deemed to correspond to a **100% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **100% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A			YES										0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A			YES										1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A			YES										2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A			YES										3.15%
Scenario 5	0%	HIGH	ABUND	HI	A			YES										2.1%
Scenario 6	0%	HIGH	ABUND	LO	A			YES										3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A			YES										4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A			YES										7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A			YES										1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A			YES										2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A			YES										4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A			YES										6.72%
Scenario 13	5%	HIGH	ABUND	HI	A			YES										2.88%
Scenario 14	5%	HIGH	ABUND	LO	A			YES										4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A			YES										6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A			YES										10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A			YES										3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A			YES										4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A			YES										7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A			YES										11.03%
Scenario 21	15%	HIGH	ABUND	HI	A			YES										1.05%
Scenario 22	15%	HIGH	ABUND	LO	A			YES										1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A			YES										2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A			YES										3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**100%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	8	**100%**
5%	8	8	**100%**
15%	8	8	**100%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	12	**100%**
HIGH	12	12	**100%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:

Verve Energy has awarded contracts for the supply, construction and commissioning of two 100MW high efficiency gas turbines (HEGT).

The State Government announced the $263 million project in May 2009 as part of the strategy to help maintain a secure supply of electricity in WA as demand for power continued to grow.

Construction is scheduled to commence in April 2010 and the new plant will be operating before the 2011/12 summer.

Potential Project # *(This is a potential New Plant)*

2 **Collgar Stage 1 (206MW Wind)** located in the **East Country** node

Initially this project was rated a **Committed** likelihood of proceeding, which was deemed to correspond to a **100% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **100% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A					YES								0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A					YES								1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A					YES								2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A					YES								3.15%
Scenario 5	0%	HIGH	ABUND	HI	A					YES								2.1%
Scenario 6	0%	HIGH	ABUND	LO	A					YES								3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A					YES								4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A					YES								7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A					YES								1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A					YES								2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A					YES								4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A					YES								6.72%
Scenario 13	5%	HIGH	ABUND	HI	A					YES								2.88%
Scenario 14	5%	HIGH	ABUND	LO	A					YES								4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A					YES								6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A					YES								10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A					YES								3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A					YES								4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A					YES								7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A					YES								11.03%
Scenario 21	15%	HIGH	ABUND	HI	A					YES								1.05%
Scenario 22	15%	HIGH	ABUND	LO	A					YES								1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A					YES								2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A					YES								3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**100%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	8	**100%**
5%	8	8	**100%**
15%	8	8	**100%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	12	**100%**
HIGH	12	12	**100%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Collgar Wind Farm is a project consisting of 111 wind turbines located approximately 25km south east of Merredin in Western Australia. Full construction works will commence in June 2010 and will be completed by April 2012.

Potential Project # *(This is a potential New Plant)*

3 **DSM 1 (50MW DSM)** located in the **SWIS** node

Initially this project was rated a **Committed** likelihood of proceeding, which was deemed to correspond to a **100% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **100% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A			YES										0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A			YES										1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A			YES										2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A			YES										3.15%
Scenario 5	0%	HIGH	ABUND	HI	A			YES										2.1%
Scenario 6	0%	HIGH	ABUND	LO	A			YES										3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A			YES										4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A			YES										7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A			YES										1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A			YES										2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A			YES										4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A			YES										6.72%
Scenario 13	5%	HIGH	ABUND	HI	A			YES										2.88%
Scenario 14	5%	HIGH	ABUND	LO	A			YES										4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A			YES										6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A			YES										10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A			YES										3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A			YES										4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A			YES										7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A			YES										11.03%
Scenario 21	15%	HIGH	ABUND	HI	A			YES										1.05%
Scenario 22	15%	HIGH	ABUND	LO	A			YES										1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A			YES										2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A			YES										3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**100%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	8	**100%**
5%	8	8	**100%**
15%	8	8	**100%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	12	**100%**
HIGH	12	12	**100%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Total of 227MW of demand management proposed as part of the 2010 Reserve Capacity Mechanism New Capacity Expressions of Interest process.

Potential Project # *(This is a potential New Plant)*

4 **Muja AB (198.44MW Coal)** located in the **Muja** node

Initially this project was rated a **Very High** likelihood of proceeding, which was deemed to correspond to a **70% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **87% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A				YES									0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A					YES								1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A						YES							2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A						YES							3.15%
Scenario 5	0%	HIGH	ABUND	HI	A					YES								2.1%
Scenario 6	0%	HIGH	ABUND	LO	A					YES								3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A					YES								4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A					YES								7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A					YES								1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A					YES								2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A					YES								4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A					YES								6.72%
Scenario 13	5%	HIGH	ABUND	HI	A					YES								2.88%
Scenario 14	5%	HIGH	ABUND	LO	A				YES									4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A				YES									6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A				YES									10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A					YES								3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A					YES								11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A				YES									1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A						YES							2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A				YES									3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**27%**	**52%**	**8%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**27%**	**79%**	**87%**	**87%**	**87%**	**87%**	**87%**	**87%**	**87%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	8	**100%**
5%	8	8	**100%**
15%	8	5	**63%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	10	**83%**
HIGH	12	11	**92%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Verve Energy and Inalco Energy have signed an MOU to set up a joint venture to refurbish, upgrade and recommission Muja Power Station Stages AB. To be known as Vinalco Energy, the joint venture will have Muja AB operating again in time for the 2012 summer. It will operate for about 15 years.

Potential Project # *(This is a potential New Plant)*

5 **Merredin (73.26MW Diesel)** located in the **East Country** node

Initially this project was rated a **Very High** likelihood of proceeding, which was deemed to correspond to a **70% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **91% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A				YES									0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A						YES							1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A							YES						2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A						YES							3.15%
Scenario 5	0%	HIGH	ABUND	HI	A					YES								2.1%
Scenario 6	0%	HIGH	ABUND	LO	A				YES									3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A						YES							4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A						YES							7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A							YES						1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A						YES							2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A						YES							4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A						YES							6.72%
Scenario 13	5%	HIGH	ABUND	HI	A								YES					2.88%
Scenario 14	5%	HIGH	ABUND	LO	A						YES							4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A					YES								6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A						YES							10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A					YES								7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A						YES							11.03%
Scenario 21	15%	HIGH	ABUND	HI	A				YES									1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A				YES									2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A				YES									3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**11%**	**16%**	**56%**	**4%**	**3%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**11%**	**27%**	**84%**	**88%**	**91%**	**91%**	**91%**	**91%**	**91%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	8	**100%**
5%	8	8	**100%**
15%	8	5	**63%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	10	**83%**
HIGH	12	11	**92%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Another new market entrant is the Namarrkon project near Merredin. It is a biodiesel back-up generation system designed to operate over the summer months for 15-20 days a year.

Potential Project # *(This is a potential New Plant)*

6 **Badgingarra (130MW Wind)** located in the **North Country** node

Initially this project was rated a **Very High** likelihood of proceeding, which was deemed to correspond to a **70% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **91% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A				YES									0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A				YES									2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A					YES								3.15%
Scenario 5	0%	HIGH	ABUND	HI	A				YES									2.1%
Scenario 6	0%	HIGH	ABUND	LO	A					YES								3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A						YES							4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A						YES							1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A							YES						2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A						YES							4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A						YES							6.72%
Scenario 13	5%	HIGH	ABUND	HI	A					YES								2.88%
Scenario 14	5%	HIGH	ABUND	LO	A					YES								4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A						YES							6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A							YES						10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A						YES							3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A						YES							4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A							YES						7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A							YES						11.03%
Scenario 21	15%	HIGH	ABUND	HI	A				YES									1.05%
Scenario 22	15%	HIGH	ABUND	LO	A						YES							1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A						YES							2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A					YES								3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**6%**	**17%**	**37%**	**31%**	**0%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**6%**	**23%**	**60%**	**91%**	**91%**	**91%**	**91%**	**91%**	**91%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	6	**75%**
5%	8	8	**100%**
15%	8	8	**100%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	11	**92%**
HIGH	12	11	**92%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:

Griffin Energy, in a Joint Development with Stanwell Corporation, is proposing to develop a new wind farm near Badgingarra, approximately 200 kilometres north of Perth.

The proposed new Badgingarra Wind Farm is expected to be commissioned in late 2012 and will produce up to 130 megawatts of renewable energy, helping to meet WA's growing energy needs.

Potential Project # *(This is a potential New Plant)*

7 **DSM 2 (50MW DSM)** located in the **SWIS** node

Initially this project was rated a **Very High** likelihood of proceeding, which was deemed to correspond to a **70% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **97% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A					YES								1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A							YES						2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A						YES							3.15%
Scenario 5	0%	HIGH	ABUND	HI	A				YES									2.1%
Scenario 6	0%	HIGH	ABUND	LO	A					YES								3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A					YES								4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A					YES								7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A						YES							2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A					YES								4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A				YES									6.72%
Scenario 13	5%	HIGH	ABUND	HI	A				YES									2.88%
Scenario 14	5%	HIGH	ABUND	LO	A					YES								4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A				YES									6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A					YES								10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A					YES								3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A					YES								4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A				YES									7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A					YES								11.03%
Scenario 21	15%	HIGH	ABUND	HI	A				YES									1.05%
Scenario 22	15%	HIGH	ABUND	LO	A				YES									1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A				YES									2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A				YES									3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**35%**	**55%**	**6%**	**2%**	**0%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**35%**	**89%**	**95%**	**97%**	**97%**	**97%**	**97%**	**97%**	**97%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	7	**88%**
5%	8	7	**88%**
15%	8	8	**100%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	10	**83%**
HIGH	12	12	**100%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Total of 227MW of demand management proposed as part of the 2010 Reserve Capacity Mechanism New Capacity Expressions of Interest process.

Potential Project # *(This is a potential New Plant)*

8 **Carnegie Wave 1 (5MW Wave)** located in the **Kwinana** node

Initially this project was rated a **High** likelihood of proceeding, which was deemed to correspond to a **60% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **72% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A					YES								0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A						YES							2.1%
Scenario 6	0%	HIGH	ABUND	LO	A				YES									3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A						YES							7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A					YES								2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A							YES						4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A						YES							6.72%
Scenario 13	5%	HIGH	ABUND	HI	A						YES							2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A					YES								6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A							YES						3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A							YES						4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A					YES								7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A								YES					11.03%
Scenario 21	15%	HIGH	ABUND	HI	A						YES							1.05%
Scenario 22	15%	HIGH	ABUND	LO	A								YES					1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A								YES					2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A							YES						3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**3%**	**18%**	**20%**	**16%**	**15%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**3%**	**21%**	**41%**	**57%**	**72%**	**72%**	**72%**	**72%**	**72%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	4	**50%**
5%	8	5	**63%**
15%	8	8	**100%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	8	**67%**
HIGH	12	9	**75%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Stage 1 of the Carnegie Wave project is currently underway. Stage 2 will be the first commercial scale wave energy project to operate in Australia. The commercial demonstration will be a 5MW project. Detailed cost and design activities associated with Stage 2 will be undertaken during 2010 with construction and commissioning scheduled for 2011.

Potential Project # *(This is a potential New Plant)*

9 **DSM 3 (50MW DSM)** located in the **SWIS** node

Initially this project was rated a **High** likelihood of proceeding, which was deemed to correspond to a **60% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **85% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A							YES						1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A						YES							3.15%
Scenario 5	0%	HIGH	ABUND	HI	A					YES								2.1%
Scenario 6	0%	HIGH	ABUND	LO	A						YES							3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A							YES						4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A					YES								7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A						YES							4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A						YES							6.72%
Scenario 13	5%	HIGH	ABUND	HI	A					YES								2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A					YES								6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A						YES							10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A					YES								4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A				YES									7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A						YES							11.03%
Scenario 21	15%	HIGH	ABUND	HI	A				YES									1.05%
Scenario 22	15%	HIGH	ABUND	LO	A					YES								1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A					YES								2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A					YES								3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**8%**	**31%**	**39%**	**6%**	**0%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**8%**	**40%**	**78%**	**85%**	**85%**	**85%**	**85%**	**85%**	**85%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	6	**75%**
5%	8	5	**63%**
15%	8	7	**88%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	7	**58%**
HIGH	12	11	**92%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Total of 227MW of demand management proposed as part of the 2010 Reserve Capacity Mechanism New Capacity Expressions of Interest process.

Potential Project # *(This is a potential New Plant)*

10 **Collgar Stage 2 (30MW Wind)** located in the **East Country** node

Initially this project was rated a **High** likelihood of proceeding, which was deemed to correspond to a **60% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **69% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A								YES					0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A								YES					1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A							YES						2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A						YES							2.1%
Scenario 6	0%	HIGH	ABUND	LO	A						YES							3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A							YES						4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A							YES						1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A						YES							2.88%
Scenario 14	5%	HIGH	ABUND	LO	A								YES					4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A							YES						6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A							YES						10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A							YES						3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A						YES							7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A								YES					11.03%
Scenario 21	15%	HIGH	ABUND	HI	A							YES						1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A							YES						2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A							YES						3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**15%**	**36%**	**18%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**15%**	**52%**	**69%**	**69%**	**69%**	**69%**	**69%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	6	**75%**
5%	8	5	**63%**
15%	8	6	**75%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	7	**58%**
HIGH	12	10	**83%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Planning and environmental approvals have been obtained for 127 turbines. However, this layout has now been divided into two stages, the first consisting of 111 turbines, and a second stage of 16 turbines.

Potential Project # *(This is a potential New Plant)*

11 **Spiritwest Neerabup (29.9MW Biomass)** located in the **Northern Terminal** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **54% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A						YES							2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A							YES						7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A									YES				2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A								YES					4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A							YES						6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A							YES						6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A									YES				3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A						YES							4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A								YES					7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A						YES							1.05%
Scenario 22	15%	HIGH	ABUND	LO	A						YES							1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A							YES						2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A							YES						3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**9%**	**27%**	**12%**	**6%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**9%**	**36%**	**48%**	**54%**	**54%**	**54%**	**54%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	2	**25%**
5%	8	4	**50%**
15%	8	7	**88%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	6	**50%**
HIGH	12	7	**58%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	SpiritWest is developing a 30 MW base-load power station at Neerabup, 33 km north of Perth. The power station will use timber waste from pine plantations nearby, and other wood residues. Environmental approval was received in 2006, and a fnal investment decision is expected by Q2 2009, with construction expected to commence in Q3 2009. Commercial operation is scheduled for 2011.

Potential Project # *(This is a potential New Plant)*

12 **Grasmere (14MW Wind)** located in the **Muja** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **84% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A					YES								0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A							YES						1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A						YES							2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A						YES							2.1%
Scenario 6	0%	HIGH	ABUND	LO	A								YES					3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A						YES							4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A								YES					7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A						YES							1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A							YES						4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A								YES					6.72%
Scenario 13	5%	HIGH	ABUND	HI	A								YES					2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A						YES							6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A								YES					10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A								YES					3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A								YES					4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A						YES							7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A									YES				11.03%
Scenario 21	15%	HIGH	ABUND	HI	A						YES							1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A						YES							2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**1%**	**29%**	**6%**	**38%**	**11%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**1%**	**29%**	**35%**	**73%**	**84%**	**84%**	**84%**	**84%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	7	**88%**
5%	8	6	**75%**
15%	8	6	**75%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	10	**83%**
HIGH	12	9	**75%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Verve Energy is carrying out a feasibility study to extend the Albany wind farm. The project, known as Grasmere wind farm, will add six wind turbines to the existing 12 turbines at the Albany site. The additional wind turbines would produce 14MW of electricity.

Potential Project # *(This is a potential New Plant)*

13 **Milyeannup (55MW Wind)** located in the **Bunbury** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **74% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A						YES							0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A								YES					2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A								YES					3.15%
Scenario 5	0%	HIGH	ABUND	HI	A							YES						2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A								YES					4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A							YES						1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A									YES				2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A						YES							4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A									YES				6.72%
Scenario 13	5%	HIGH	ABUND	HI	A						YES							2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A								YES					6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A										YES			3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A									YES				4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A						YES							7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A								YES					11.03%
Scenario 21	15%	HIGH	ABUND	HI	A							YES						1.05%
Scenario 22	15%	HIGH	ABUND	LO	A							YES						1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A									YES				2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A								YES					3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**16%**	**7%**	**32%**	**17%**	**3%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**16%**	**22%**	**54%**	**71%**	**74%**	**74%**	**74%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	5	**63%**
5%	8	6	**75%**
15%	8	8	**100%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	11	**92%**
HIGH	12	8	**67%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Verve Energy is investigating the feasibility of building a wind farm with up to 30 wind turbines with a combined capacity of up to 55MW at Milyeannup, which is about 20kms east of Augusta. On 22 May 2009 Verve Energy submitted an Application for Planning Approval to the Shire of Nannup for the wind farm.

Potential Project # *(This is a potential New Plant)*

14 **Alinta Walkaway 2 (94MW Wind)** located in the **North Country** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **67% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A							YES						0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A								YES					1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A							YES						2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A								YES					2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A							YES						4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A										YES			7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A					YES								1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A							YES						4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A									YES				2.88%
Scenario 14	5%	HIGH	ABUND	LO	A									YES				4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A									YES				6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A									YES				10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A									YES				3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A							YES						7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A									YES				1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A										YES			2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A									YES				3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**2%**	**0%**	**20%**	**3%**	**32%**	**10%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**2%**	**2%**	**22%**	**25%**	**57%**	**67%**	**67%**	**67%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	6	**75%**
5%	8	6	**75%**
15%	8	5	**63%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	7	**58%**
HIGH	12	10	**83%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Walkaway 2 Wind Farm is an extension of Infigen Energy's existing 89.1MW, 54 turbine wind farm south of Geraldton. Infigen Energy lists Walkaway 2 as in the development pipeline, with development applications completed.

Potential Project # *(This is a potential New Plant)*

15 **Nilgen (132MW Wind)** located in the **North Country** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **76% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A								YES					0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A									YES				2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A									YES				3.15%
Scenario 5	0%	HIGH	ABUND	HI	A									YES				2.1%
Scenario 6	0%	HIGH	ABUND	LO	A									YES				3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A						YES							4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A							YES						1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A							YES						2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A								YES					4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A							YES						2.88%
Scenario 14	5%	HIGH	ABUND	LO	A										YES			4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A										YES			6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A										YES			10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A								YES					3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A									YES				7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A							YES						11.03%
Scenario 21	15%	HIGH	ABUND	HI	A								YES					1.05%
Scenario 22	15%	HIGH	ABUND	LO	A										YES			1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A						YES							2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**7%**	**19%**	**10%**	**18%**	**23%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**7%**	**26%**	**36%**	**53%**	**76%**	**76%**	**76%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	6	**75%**
5%	8	7	**88%**
15%	8	6	**75%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	9	**75%**
HIGH	12	10	**83%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	The proposed wind farm site is located approximately 9km east of Lancelin, Western Australia. The site has been selected by Pacific Hydro due to its strong, consistent winds; proximity and access to the Grid (South West Interconnected System), existing land practices which can co-exist with the turbines, large area and low population density and good public road access. The project will be up to 53 (2.5MW) turbines in size, providing up to 132.5MW of capacity.

Potential Project # *(This is a potential New Plant)*

16 **Mingenew Solar Thermal 1 (45MW Solar Thermal)** located in the **North Country** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **63% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A							YES						2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A								YES					4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A						YES							4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A						YES							6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A						YES							10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A							YES						3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A						YES							4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A							YES						7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A							YES						11.03%
Scenario 21	15%	HIGH	ABUND	HI	A						YES							1.05%
Scenario 22	15%	HIGH	ABUND	LO	A						YES							1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A							YES						2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A							YES						3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**28%**	**31%**	**4%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**28%**	**59%**	**63%**	**63%**	**63%**	**63%**	**63%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	0	**0%**
5%	8	5	**63%**
15%	8	8	**100%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	6	**50%**
HIGH	12	7	**58%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Proposed $1.0 billion 250MW solar thermal power station. Nominally located on Mingenew. Worley plan to investigate the potential for another 33 additional plants being built by 2020.

Potential Project # *(This is a potential New Plant)*

17 **Coolimba Aviva Coal (360.8MW Coal)** located in the **North Country** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **18% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A								YES					2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A									YES				3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A						YES							4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A						YES							7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**12%**	**0%**	**2%**	**3%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**12%**	**12%**	**14%**	**18%**	**18%**	**18%**	**18%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	4	**50%**
5%	8	0	**0%**
15%	8	0	**0%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	2	**17%**
HIGH	12	2	**17%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:

Coolimba Power is a 400-450MW base load coal-fired power station including an additional 360MW of gas fired power located 270km north of Perth in the rapidly developing Mid West region of WA. Coolimba also has plans to phase in up to 2.9 million tonnes per annum of carbon capture and sequestration (CCS) as a separate project when feasible.

The Coolimba Power Station will provide approximately 8% of the installed capacity in the SWIS network and have an operating life of 30 years. Construction is planned to commence in 2010 and will extend over three years for completion in 2013/14.

Potential Project # *(This is a potential New Plant)*

18 **Newworld Geothermal 1 (4.25MW Geo)** located in the **North Country** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **41% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A									YES				4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A												YES	10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A									YES				3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A										YES			4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A								YES					11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A							YES						1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A								YES					2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A								YES					3.68%
Probability of Proceeding in this Year:						0%	0%	0%	0%	0%	0%	2%	17%	7%	5%	0%	10%	
Cumulative Probability						0%	0%	0%	0%	0%	0%	2%	19%	26%	31%	31%	41%	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	0	**0%**
5%	8	2	**25%**
15%	8	6	**75%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	3	**25%**
HIGH	12	5	**42%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	New World has 9 geothermal exploration permits in the Northern (8) and Southern (1) Perth Basins. All locations are closely located to existing and/or proposed transmission assets.

Potential Project # *(This is a potential New Plant)*

19 **Bluewaters 3 (193.93MW Coal)** located in the **Muja** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **46% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A						YES							2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A							YES						3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A					YES								4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A						YES							7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A							YES						4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A								YES					6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A					YES								6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A					YES								10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						0%	0%	0%	0%	22%	9%	8%	7%	0%	0%	0%	0%	
Cumulative Probability						0%	0%	0%	0%	22%	31%	39%	46%	46%	46%	46%	46%	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	4	**50%**
5%	8	4	**50%**
15%	8	0	**0%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	4	**33%**
HIGH	12	4	**33%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	The proposed Bluewaters Power Station Expansion comprises two new coal-fired, base-load generators, each capable of producing 208 megawatts. The two proposed new units are planned for completion in 2013 and 2015 respectively. The EPA has recommended that approvals be granted for the project.

Potential Project # *(This is a potential New Plant)*

20 **Bluewaters 4 (193.93MW Coal)** located in the **Muja** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **34% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A									YES				2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A								YES					3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A							YES						4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A							YES						7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A							YES						6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A							YES						10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						0%	0%	0%	0%	0%	0%	29%	3%	2%	0%	0%	0%	
Cumulative Probability						0%	0%	0%	0%	0%	0%	29%	32%	34%	34%	34%	34%	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	4	**50%**
5%	8	2	**25%**
15%	8	0	**0%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	2	**17%**
HIGH	12	4	**33%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	The proposed Bluewaters Power Station Expansion comprises two new coal-fired, base-load generators, each capable of producing 208 megawatts. The two proposed new units are planned for completion in 2013 and 2015 respectively. The EPA has recommended that approvals be granted for the project.

Potential Project # *(This is a potential New Plant)*

21 **DSM 4 (77MW DSM)** located in the **SWIS** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **61% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A						YES							2.1%
Scenario 6	0%	HIGH	ABUND	LO	A						YES							3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A											YES		4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A					YES								7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A								YES					6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A									YES				6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A						YES							10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A								YES					11.03%
Scenario 21	15%	HIGH	ABUND	HI	A					YES								1.05%
Scenario 22	15%	HIGH	ABUND	LO	A						YES							1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A							YES						2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A						YES							3.68%
Probability of Proceeding in this Year:						0%	0%	0%	0%	8%	21%	2%	18%	7%	0%	5%	0%	
Cumulative Probability						0%	0%	0%	0%	8%	29%	31%	49%	56%	56%	61%	61%	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	4	**50%**
5%	8	3	**38%**
15%	8	5	**63%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	2	**17%**
HIGH	12	10	**83%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Total of 227MW of demand management proposed as part of the 2010 Reserve Capacity Mechanism New Capacity Expressions of Interest process.

Potential Project # *(This is a potential New Plant)*

22 **Kalgoorlie 2 (1.77MW Solar PV)** located in the **Eastern Goldfields** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **41% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A									YES				6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A							YES						4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A								YES					3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A									YES				7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A								YES					11.03%
Scenario 21	15%	HIGH	ABUND	HI	A											YES		1.05%
Scenario 22	15%	HIGH	ABUND	LO	A							YES						1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A									YES				2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A								YES					3.68%
Probability of Proceeding in this Year:						0%	0%	0%	0%	0%	0%	6%	18%	17%	0%	1%	0%	
Cumulative Probability						0%	0%	0%	0%	0%	0%	6%	24%	40%	40%	41%	41%	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	0	**0%**
5%	8	2	**25%**
15%	8	7	**88%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	4	**33%**
HIGH	12	5	**42%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Proposed $12.8M 48 solar dish project in Kalgoorlie (1776kW DC). Funding support has been granted by the WA Government

Potential Project # ***(This is a potential New Plant)***

23 **Centauri 1 (166.32MW OCGT)** located in the **North Country** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **87% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A						YES							0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A						YES							1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A												YES	3.15%
Scenario 5	0%	HIGH	ABUND	HI	A							YES						2.1%
Scenario 6	0%	HIGH	ABUND	LO	A						YES							3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A						YES							4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A										YES			7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A										YES			1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A						YES							2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A						YES							2.88%
Scenario 14	5%	HIGH	ABUND	LO	A						YES							4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A								YES					6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A									YES				10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A							YES						3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A									YES				4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A								YES					7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A										YES			11.03%
Scenario 21	15%	HIGH	ABUND	HI	A						YES							1.05%
Scenario 22	15%	HIGH	ABUND	LO	A						YES							1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A					YES								2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A							YES						3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**2%**	**23%**	**9%**	**14%**	**15%**	**20%**	**0%**	**3%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**2%**	**25%**	**34%**	**48%**	**63%**	**84%**	**84%**	**87%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	7	**88%**
5%	8	6	**75%**
15%	8	8	**100%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	9	**75%**
HIGH	12	12	**100%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Eneabba Gas have proposed the Centauri 1 Power Station, a four gas turbine station with a total capacity of 168MW. Government approvals have been received and land has been purchased however the project appears on hold.

Potential Project # *(This is a potential New Plant)*

24 **Augusta (50MW Wind)** located in the **Bubury** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **66% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A									YES				0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A									YES				2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A											YES		3.15%
Scenario 5	0%	HIGH	ABUND	HI	A										YES			2.1%
Scenario 6	0%	HIGH	ABUND	LO	A										YES			3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A								YES					4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A									YES				7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A											YES		4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A										YES			2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A									YES				6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A										YES			4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A											YES		7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A										YES			11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A								YES					1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A								YES					3.68%
Probability of Proceeding in this Year:						0%	0%	0%	0%	0%	0%	0%	10%	17%	24%	15%	0%	
Cumulative Probability						0%	0%	0%	0%	0%	0%	0%	10%	27%	51%	66%	66%	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	7	**88%**
5%	8	3	**38%**
15%	8	5	**63%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	7	**58%**
HIGH	12	8	**67%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Proposed 50MW wind farm at Augusta. Wind monitoring is currently underway.

Potential Project # *(This is a potential New Plant)*

25 **Dandaragan - Yandin (389.4MW Wind)** located in the **North Country** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **39% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A										YES			0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A										YES			4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A									YES				1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A									YES				2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A									YES				3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A									YES				7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A									YES				11.03%
Scenario 21	15%	HIGH	ABUND	HI	A							YES						1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A								YES					2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A									YES				3.68%
Probability of Proceeding in this Year:						0%	0%	0%	0%	0%	0%	1%	2%	30%	6%	0%	0%	
Cumulative Probability						0%	0%	0%	0%	0%	0%	1%	4%	34%	39%	39%	39%	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	2	**25%**
5%	8	2	**25%**
15%	8	6	**75%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	5	**42%**
HIGH	12	5	**42%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Two wind farm sites are being investigated on rural land in the Shire of Dandaragan. The Waddi site would contain up to 60 wind turbines and it is located approximately 12km north west of Dandaragan. Wind monitoring is currently underway, and a final planning approval decision is expected in late 2010.

Potential Project # *(This is a potential New Plant)*

26 **Dandaragan - Waddi (198MW Wind)** located in the **North Country** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **36% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A												YES	0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A											YES		1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A												YES	2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A										YES			3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A										YES			7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A												YES	11.03%
Scenario 21	15%	HIGH	ABUND	HI	A										YES			1.05%
Scenario 22	15%	HIGH	ABUND	LO	A										YES			1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A										YES			2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A											YES		3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**16%**	**6%**	**15%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**16%**	**21%**	**36%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	1	**13%**
5%	8	2	**25%**
15%	8	7	**88%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	5	**42%**
HIGH	12	5	**42%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Two wind farm sites are being investigated on rural land in the Shire of Dandaragan. The Yandin site starts about 4km south of Dandaragan and would have up to 118 wind turbines. Wind monitoring is currently underway, and a final planning approval decision is expected in late 2010.

Potential Project # *(This is a potential New Plant)*

27 **Henderson (60MW Wind)** located in the **South Fremantle** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **35% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A											YES		2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A									YES				4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A								YES					2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A										YES			4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A											YES		6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A											YES		3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A												YES	7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A								YES					1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A												YES	2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**4%**	**5%**	**4%**	**12%**	**10%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**4%**	**9%**	**13%**	**25%**	**35%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	2	**25%**
5%	8	3	**38%**
15%	8	4	**50%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	4	**33%**
HIGH	12	5	**42%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Proposed wind farm, earning 21MW of capacity credits, by Engineering firm Emerson Stewart.

Potential Project # *(This is a potential New Plant)*

28 **Cervantes (40MW Wind)** located in the **North Country** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **34% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A											YES		0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A									YES				1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A										YES			2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A												YES	2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A												YES	1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A										YES			2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A									YES				6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A								YES					11.03%
Scenario 21	15%	HIGH	ABUND	HI	A										YES			1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A							YES						3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**4%**	**11%**	**8%**	**6%**	**1%**	**4%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**4%**	**15%**	**23%**	**29%**	**30%**	**34%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	4	**50%**
5%	8	3	**38%**
15%	8	3	**38%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	6	**50%**
HIGH	12	4	**33%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Griffin Energy announced in 2004 that it was committed to the construction of an 80MW wind farm (40MW net) as part of the Bluewaters greenhouse gas management

Potential Project # *(This is a potential New Plant)*

29 **Mingenew Solar Thermal 2 (45MW Solar Thermal)** located in the **North Country** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **35% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A									YES				3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A								YES					4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A								YES					7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A										YES			11.03%
Scenario 21	15%	HIGH	ABUND	HI	A								YES					1.05%
Scenario 22	15%	HIGH	ABUND	LO	A								YES					1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A									YES				2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A								YES					3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**18%**	**6%**	**11%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**18%**	**24%**	**35%**	**35%**	**35%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	0	**0%**
5%	8	0	**0%**
15%	8	8	**100%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	4	**33%**
HIGH	12	4	**33%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Proposed $1.0 billion 250MW solar thermal power station. Nominally located on Mingenew. Worley plan to investigate the potential for another 33 additional plants being built by 2020.

Potential Project # *(This is a potential New Plant)*

30 **Mingenew Solar Thermal 3 (135MW Solar Thermal)** located in the **North Country** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **13% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A											YES		4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A												YES	1.05%
Scenario 22	15%	HIGH	ABUND	LO	A									YES				1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A											YES		2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A										YES			3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**2%**	**4%**	**7%**	**1%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**2%**	**5%**	**12%**	**13%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	0	**0%**
5%	8	0	**0%**
15%	8	5	**63%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	1	**8%**
HIGH	12	4	**33%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Proposed $1.0 billion 250MW solar thermal power station. Nominally located on Mingenew. Worley plan to investigate the potential for another 33 additional plants being built by 2020.

Potential Project # *(This is a potential New Plant)*

31 **Mumbida (90MW Wind)** located in the **North Country** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **87% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A								YES					0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A										YES			1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A											YES		2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A									YES				2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A							YES						4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A											YES		7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A								YES					1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A									YES				4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A								YES					6.72%
Scenario 13	5%	HIGH	ABUND	HI	A							YES						2.88%
Scenario 14	5%	HIGH	ABUND	LO	A								YES					4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A							YES						6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A								YES					10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A								YES					3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A								YES					4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A							YES						7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A											YES		11.03%
Scenario 21	15%	HIGH	ABUND	HI	A							YES						1.05%
Scenario 22	15%	HIGH	ABUND	LO	A								YES					1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A							YES						2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**25%**	**33%**	**7%**	**1%**	**20%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**25%**	**59%**	**65%**	**67%**	**87%**	**87%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	6	**75%**
5%	8	7	**88%**
15%	8	7	**88%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	10	**83%**
HIGH	12	10	**83%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Near Walkaway. Feasibility study due for ecompletion early 2010. Originally considered in 2002, but rejected because of transmission. Revived with proposed Eneabba to Moonyoonooka (Geraldton) 330kV line. Has submitted planning application to City of Geraldton-Greenough. As of 2009, construction could start in 2010.

Potential Project # *(This is a potential New Plant)*

32 **Joanna Plains (40MW Wind)** located in the **North Country** node

Initially this project was rated a **Very Low** likelihood of proceeding, which was deemed to correspond to a **5% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **7% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A									YES				1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A										YES			2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A											YES		3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**1%**	**2%**	**4%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**1%**	**4%**	**7%**	**7%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	0	**0%**
5%	8	0	**0%**
15%	8	3	**38%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	0	**0%**
HIGH	12	3	**25%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	Proposed wind farm; little information available therefore a very low probability has been ascribed.

Potential Project # *(This is a potential New Plant)*

33 **Coolimba OCGT (356.4MW OCGT)** located in the **North Country** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **86% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A										YES			1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A						YES							2.1%
Scenario 6	0%	HIGH	ABUND	LO	A						YES							3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A									YES				4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A								YES					7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A								YES					1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A									YES				4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A							YES						6.72%
Scenario 13	5%	HIGH	ABUND	HI	A						YES							2.88%
Scenario 14	5%	HIGH	ABUND	LO	A						YES							4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A						YES							6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A						YES							10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A						YES							3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A						YES							7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A						YES							11.03%
Scenario 21	15%	HIGH	ABUND	HI	A									YES				1.05%
Scenario 22	15%	HIGH	ABUND	LO	A						YES							1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A						YES							2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A						YES							3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**58%**	**7%**	**9%**	**10%**	**1%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**58%**	**65%**	**74%**	**85%**	**86%**	**86%**	**86%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	5	**63%**
5%	8	7	**88%**
15%	8	7	**88%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	7	**58%**
HIGH	12	12	**100%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:

- - -

In addition to the 400 450MW base load coal fired plant, approval is also being obtained for up to 360MW of gas fired generation for Coolimba.

Potential Project # *(This is a potential New Plant)*

34 **Kwinana OCGT #1 (99MW OCGT)** located in the **Kwinana** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **92% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A										YES			0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A										YES			2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A									YES				2.1%
Scenario 6	0%	HIGH	ABUND	LO	A							YES						3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A												YES	4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A											YES		7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A										YES			1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A											YES		2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A										YES			4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A											YES		6.72%
Scenario 13	5%	HIGH	ABUND	HI	A											YES		2.88%
Scenario 14	5%	HIGH	ABUND	LO	A												YES	4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A											YES		6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A										YES			10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A									YES				4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A								YES					7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A											YES		11.03%
Scenario 21	15%	HIGH	ABUND	HI	A											YES		1.05%
Scenario 22	15%	HIGH	ABUND	LO	A										YES			1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A								YES					2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A										YES			3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**3%**	**10%**	**7%**	**25%**	**39%**	**9%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**3%**	**13%**	**20%**	**45%**	**83%**	**92%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	6	**75%**
5%	8	8	**100%**
15%	8	7	**88%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	9	**75%**
HIGH	12	12	**100%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

35 **Kwinana OCGT #2 (99MW OCGT)** located in the **Kwinana** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **48% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A										YES			0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A										YES			2.1%
Scenario 6	0%	HIGH	ABUND	LO	A									YES				3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A												YES	6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A												YES	6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A											YES		10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A												YES	4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A										YES			7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A											YES		2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A												YES	3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**3%**	**10%**	**13%**	**22%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**3%**	**14%**	**26%**	**48%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	3	**38%**
5%	8	3	**38%**
15%	8	4	**50%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	4	**33%**
HIGH	12	6	**50%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

36 **Kwinana OCGT #3 (99MW OCGT)** located in the **Kwinana** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **12% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A											YES		4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A											YES		7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	12%	0%	
Cumulative Probability						0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	12%	12%	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	0	**0%**
5%	8	0	**0%**
15%	8	2	**25%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	2	**17%**
HIGH	12	0	**0%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

37 **Kwinana OCGT #4 (99MW OCGT)** located in the **Kwinana** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **7% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A												YES	7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	
Cumulative Probability						0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	7%	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	0	**0%**
5%	8	0	**0%**
15%	8	1	**13%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	1	**8%**
HIGH	12	0	**0%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

38 **North Country OCGT #1 (99MW OCGT)** located in the **North Country** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **50% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A												YES	2.1%
Scenario 6	0%	HIGH	ABUND	LO	A											YES		3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A												YES	4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A									YES				7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A								YES					2.88%
Scenario 14	5%	HIGH	ABUND	LO	A									YES				4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A										YES			6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A								YES					10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A										YES			1.05%
Scenario 22	15%	HIGH	ABUND	LO	A									YES				1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A							YES						2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A						YES							3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**4%**	**2%**	**13%**	**13%**	**8%**	**3%**	**7%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**4%**	**6%**	**19%**	**32%**	**40%**	**43%**	**50%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	4	**50%**
5%	8	4	**50%**
15%	8	4	**50%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	0	**0%**
HIGH	12	12	**100%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

39 **North Country OCGT #2 (99MW OCGT)** located in the **North Country** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **36% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A												YES	3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A											YES		4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A									YES				2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A											YES		6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A									YES				10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A										YES			1.05%
Scenario 22	15%	HIGH	ABUND	LO	A												YES	1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A								YES					2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A								YES					3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**6%**	**13%**	**1%**	**12%**	**5%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**6%**	**19%**	**20%**	**32%**	**36%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	2	**25%**
5%	8	3	**38%**
15%	8	4	**50%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	0	**0%**
HIGH	12	9	**75%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

40 **North Country OCGT #3 (99MW OCGT)** located in the **North Country** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **6% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A									YES				2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A									YES				3.68%
Probability of Proceeding in this Year:						0%	0%	0%	0%	0%	0%	0%	0%	6%	0%	0%	0%	
Cumulative Probability						0%	0%	0%	0%	0%	0%	0%	0%	6%	6%	6%	6%	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	0	**0%**
5%	8	0	**0%**
15%	8	2	**25%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	0	**0%**
HIGH	12	2	**17%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

41 **North Country OCGT #4 (99MW OCGT)** located in the **North Country** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **6% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A												YES	2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A											YES		3.68%
Probability of Proceeding in this Year:						0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	2%	
Cumulative Probability						0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	4%	6%	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	0	**0%**
5%	8	0	**0%**
15%	8	2	**25%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	0	**0%**
HIGH	12	2	**17%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

42 **Northern Terminal OCGT #1 (99MW OCGT)** located in the **Northern Terminal** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **75% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A											YES		0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A											YES		2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A											YES		2.1%
Scenario 6	0%	HIGH	ABUND	LO	A									YES				3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A												YES	7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A									YES				2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A											YES		4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A											YES		6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A											YES		4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A									YES				6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A											YES		10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A												YES	3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A										YES			4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A								YES					7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A							YES						1.05%
Scenario 22	15%	HIGH	ABUND	LO	A												YES	1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A									YES				2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A									YES				3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**1%**	**7%**	**19%**	**5%**	**31%**	**12%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**1%**	**8%**	**27%**	**32%**	**63%**	**75%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	5	**63%**
5%	8	6	**75%**
15%	8	7	**88%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	8	**67%**
HIGH	12	10	**83%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

43 **Northern Terminal OCGT #2 (99MW OCGT)** located in the **Northern Terminal** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **40% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A												YES	2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A										YES			2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A								YES					6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A												YES	10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A											YES		4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A									YES				7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A										YES			2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A										YES			3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**7%**	**7%**	**9%**	**5%**	**12%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**7%**	**14%**	**23%**	**28%**	**40%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	1	**13%**
5%	8	3	**38%**
15%	8	4	**50%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	3	**25%**
HIGH	12	5	**42%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

44 **Northern Terminal OCGT #3 (99MW OCGT)** located in the **Northern Terminal** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **12% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A												YES	4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A										YES			7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**7%**	**0%**	**5%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**7%**	**7%**	**12%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	0	**0%**
5%	8	0	**0%**
15%	8	2	**25%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	2	**17%**
HIGH	12	0	**0%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

45 **Northern Terminal OCGT #4 (198MW OCGT)** located in the **Northern Terminal** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **0% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	0	**0%**
5%	8	0	**0%**
15%	8	0	**0%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	0	**0%**
HIGH	12	0	**0%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

46 **Kwinana CCGT #1 (194.2MW CCGT)** located in the **Kwinana** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **30% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A							YES						0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A								YES					1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A						YES							2.1%
Scenario 6	0%	HIGH	ABUND	LO	A									YES				3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A						YES							1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A											YES		2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A							YES						2.88%
Scenario 14	5%	HIGH	ABUND	LO	A							YES						4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A									YES				3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A						YES							4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A						YES							1.05%
Scenario 22	15%	HIGH	ABUND	LO	A						YES							1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**11%**	**8%**	**1%**	**6%**	**0%**	**3%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**11%**	**19%**	**21%**	**27%**	**27%**	**30%**	**30%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	4	**50%**
5%	8	4	**50%**
15%	8	4	**50%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	6	**50%**
HIGH	12	6	**50%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

47 **North Country CCGT #1 (194.2MW CCGT)** located in the **North Country** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **21% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A							YES						3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A							YES						2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A						YES							2.88%
Scenario 14	5%	HIGH	ABUND	LO	A						YES							4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A							YES						4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A								YES					1.05%
Scenario 22	15%	HIGH	ABUND	LO	A							YES						1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**7%**	**12%**	**1%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**7%**	**20%**	**21%**	**21%**	**21%**	**21%**	**21%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	1	**13%**
5%	8	3	**38%**
15%	8	3	**38%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	2	**17%**
HIGH	12	5	**42%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

48 **Kwinana CCGT #2 (194.2MW CCGT)** located in the **Kwinana** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **25% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A								YES					2.1%
Scenario 6	0%	HIGH	ABUND	LO	A										YES			3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A										YES			1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A										YES			2.88%
Scenario 14	5%	HIGH	ABUND	LO	A								YES					4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A										YES			3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A								YES					4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A						YES							1.05%
Scenario 22	15%	HIGH	ABUND	LO	A								YES					1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**1%**	**0%**	**13%**	**0%**	**11%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**1%**	**1%**	**14%**	**14%**	**25%**	**25%**	**25%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	2	**25%**
5%	8	3	**38%**
15%	8	4	**50%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	3	**25%**
HIGH	12	6	**50%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

49 **Northern Terminal CCGT #1 (194.2MW CCGT)** located in the **Northern Terminal** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **15% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A									YES				0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A												YES	1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A							YES						2.1%
Scenario 6	0%	HIGH	ABUND	LO	A						YES							3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A											YES		1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A										YES			4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A										YES			1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**3%**	**2%**	**0%**	**1%**	**6%**	**2%**	**1%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**3%**	**5%**	**5%**	**6%**	**12%**	**14%**	**15%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	4	**50%**
5%	8	2	**25%**
15%	8	1	**13%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	3	**25%**
HIGH	12	4	**33%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

50 **Muja Coal #1 (180.4MW Coal)** located in the **Muja** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **0% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	0	**0%**
5%	8	0	**0%**
15%	8	0	**0%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	0	**0%**
HIGH	12	0	**0%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

51 **North Country Coal #1 (180.4MW Coal)** located in the **North Country** node

Initially this project was rated a **Low** likelihood of proceeding, which was deemed to correspond to a **10% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **0% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	0	**0%**
5%	8	0	**0%**
15%	8	0	**0%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	0	**0%**
HIGH	12	0	**0%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

52 **Regional Diesel #1 (39.6MW Diesel)** located in the **SWIS** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **68% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A							YES						1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A									YES				2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A										YES			3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A								YES					3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A							YES						4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A								YES					7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A									YES				2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A												YES	4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A					YES								2.88%
Scenario 14	5%	HIGH	ABUND	LO	A					YES								4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A								YES					6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A							YES						10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A									YES				3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A												YES	4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A					YES								1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A								YES					2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A						YES							3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**8%**	**4%**	**16%**	**20%**	**8%**	**3%**	**0%**	**9%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**8%**	**12%**	**28%**	**48%**	**56%**	**59%**	**59%**	**68%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	6	**75%**
5%	8	6	**75%**
15%	8	5	**63%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	7	**58%**
HIGH	12	10	**83%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

53 **Regional Diesel #2 (39.6MW Diesel)** located in the **SWIS** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **59% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A									YES				1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A											YES		3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A								YES					4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A									YES				7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A											YES		2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A						YES							2.88%
Scenario 14	5%	HIGH	ABUND	LO	A							YES						4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A										YES			6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A								YES					10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A										YES			3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A												YES	4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A							YES						1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A									YES				2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A						YES							3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**7%**	**5%**	**15%**	**11%**	**10%**	**6%**	**5%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**7%**	**12%**	**27%**	**38%**	**48%**	**54%**	**59%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	4	**50%**
5%	8	5	**63%**
15%	8	5	**63%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	5	**42%**
HIGH	12	9	**75%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

54 **Regional Diesel #3 (39.6MW Diesel)** located in the **SWIS** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **39% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A								YES					4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A									YES				7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A											YES		2.88%
Scenario 14	5%	HIGH	ABUND	LO	A									YES				4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A								YES					10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A											YES		3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A											YES		2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A								YES					3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**19%**	**12%**	**0%**	**8%**	**0%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**19%**	**30%**	**30%**	**39%**	**39%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	2	**25%**
5%	8	3	**38%**
15%	8	3	**38%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	1	**8%**
HIGH	12	7	**58%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project # *(This is a potential New Plant)*

55 **Regional Diesel #4 (39.6MW Diesel)** located in the **SWIS** node

Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **29% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A								YES					4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A											YES		7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A													1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A												YES	2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A										YES			10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A													3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A													4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A													7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A										YES			3.68%
Probability of Proceeding in this Year:						0%	0%	0%	0%	0%	0%	0%	5%	0%	14%	7%	3%	
Cumulative Probability						0%	0%	0%	0%	0%	0%	0%	5%	5%	19%	26%	29%	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	2	**25%**
5%	8	2	**25%**
15%	8	1	**13%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	0	**0%**
HIGH	12	5	**42%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project #	*(This is a potential Plant Retirement)*				
1	**Kwinana A (-216.48MW Coal)**	located in the	**Kwinana**	node	

[1] Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **100% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A			YES										0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A			YES										1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A			YES										2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A			YES										3.15%
Scenario 5	0%	HIGH	ABUND	HI	A			YES										2.1%
Scenario 6	0%	HIGH	ABUND	LO	A			YES										3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A			YES										4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A			YES										7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A			YES										1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A			YES										2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A			YES										4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A			YES										6.72%
Scenario 13	5%	HIGH	ABUND	HI	A			YES										2.88%
Scenario 14	5%	HIGH	ABUND	LO	A			YES										4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A			YES										6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A			YES										10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A			YES										3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A			YES										4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A			YES										7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A			YES										11.03%
Scenario 21	15%	HIGH	ABUND	HI	A			YES										1.05%
Scenario 22	15%	HIGH	ABUND	LO	A			YES										1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A			YES										2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A			YES										3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**100%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	
Cumulative Probability						**0%**	**0%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	8	**100%**
5%	8	8	**100%**
15%	8	8	**100%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	12	**100%**
HIGH	12	12	**100%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	

Potential Project #	*(This is a potential Plant Retirement)*				
2	**Muja C (-360.8MW Coal)**	located in the	**Muja**	node	

[1] Initially this project was rated a **Moderate** likelihood of proceeding, which was deemed to correspond to a **40% probability of proceeding**

At the completion of the scenario analysis project, the FINAL Project Probability for this project was calculated (across all the scenarios that were developed) to be **17% probability of proceeding**

The following table illustrates the year in which (for each scenario) the plant is assumed to be fully operational:

	CPT	Load	Gas Availability	Wind Ambition	Planting Scenario	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Final Scenario Probability
Scenario 1	0%	CNTRL	ABUND	HI	A													0.9%
Scenario 2	0%	CNTRL	ABUND	LO	A													1.35%
Scenario 3	0%	CNTRL	LIMTD	HI	A													2.1%
Scenario 4	0%	CNTRL	LIMTD	LO	A													3.15%
Scenario 5	0%	HIGH	ABUND	HI	A													2.1%
Scenario 6	0%	HIGH	ABUND	LO	A													3.15%
Scenario 7	0%	HIGH	LIMTD	HI	A													4.9%
Scenario 8	0%	HIGH	LIMTD	LO	A													7.35%
Scenario 9	5%	CNTRL	ABUND	HI	A										YES			1.92%
Scenario 10	5%	CNTRL	ABUND	LO	A													2.88%
Scenario 11	5%	CNTRL	LIMTD	HI	A													4.48%
Scenario 12	5%	CNTRL	LIMTD	LO	A													6.72%
Scenario 13	5%	HIGH	ABUND	HI	A													2.88%
Scenario 14	5%	HIGH	ABUND	LO	A													4.32%
Scenario 15	5%	HIGH	LIMTD	HI	A													6.72%
Scenario 16	5%	HIGH	LIMTD	LO	A													10.08%
Scenario 17	15%	CNTRL	ABUND	HI	A									YES				3.15%
Scenario 18	15%	CNTRL	ABUND	LO	A												YES	4.73%
Scenario 19	15%	CNTRL	LIMTD	HI	A								YES					7.35%
Scenario 20	15%	CNTRL	LIMTD	LO	A													11.03%
Scenario 21	15%	HIGH	ABUND	HI	A													1.05%
Scenario 22	15%	HIGH	ABUND	LO	A													1.58%
Scenario 23	15%	HIGH	LIMTD	HI	A													2.45%
Scenario 24	15%	HIGH	LIMTD	LO	A													3.68%
Probability of Proceeding in this Year:						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**7%**	**3%**	**2%**	**0%**	**5%**	
Cumulative Probability						**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**7%**	**11%**	**12%**	**12%**	**17%**	

CPT Theme-Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
0%	8	0	**0%**
5%	8	1	**13%**
15%	8	3	**38%**

Load Growth Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
CNTRL	12	4	**33%**
HIGH	12	0	**0%**

Gas Availability Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
ABUND	12	0	**0%**
LIMTD	12	0	**0%**

Wind Penetration Theme Set

	Number of scenarios with this theme	Number of scenarios in which project proceeds	Percentage of relevant scenarios
HI	12	0	**0%**
LO	12	0	**0%**

Other Comments:	