



PROJECT ASSESSMENT DRAFT REPORT

DEVELOPMENT OF THE QUEENSLAND - NSW INTERCONNECTOR

31 March 2014

Appendix D – Generation Builds and Retirements

Appendix D- Generation Builds and Retirements

This workbook details the generation builds and retirements used for the QNI RIT-T by NEM zone and region, across the 3 core reasonable scenarios, ie, the planning scenario, the fast world recovery scenario and the slow rate of change scenario. The other two reasonable scenarios included in the RIT-T analysis have the same assumed generation builds and retirements as the planning scenario.

Type	GenerationType	Zone	Region	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36
New Capacity	Biomass	SESA	SA_Biomass	0	0	0	0	0	0	100	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	
New Capacity	Biomass	NQ	QLD_Biomass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	153	153	153	253	270	367
New Capacity	Biomass	NCEN	NSW_Biomass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	147	147	147	147
New Capacity	Biomass	CAN	NSW_Biomass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	103	103
New Capacity	Biomass	NNS	NSW_Biomass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	63
New Capacity	Wind	SWNSW	NSW_Wind	0	0	0	43.4	187.5	187.5	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3
New Capacity	Wind	NCEN	NSW_Wind	0	0	0	0	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5
New Capacity	Wind	CAN	NSW_Wind	0	0	712	726.5	1021	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3
New Capacity	Wind	NNS	NSW_Wind	0	0	0	313	366.6	366.6	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1
New Capacity	Wind	FNQ	QLD_Wind	0	0	0	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266
New Capacity	Wind	SWQ	QLD_Wind	0	0	0	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266
New Capacity	Wind	SESA	SA_Wind	0	0	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455
New Capacity	Wind	NSA	SA_Wind	0	0	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1
New Capacity	Wind	ADE	SA_Wind	0	0	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
New Capacity	Wind	MEL	VIC_Wind	0	0	818	818	1413.1	1413.1	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636
New Capacity	Wind	CVIC	VIC_Wind	0	0	0	654.6	883.2	883.2	908.5	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472
New Capacity	Wind	LV	VIC_Wind	0	0	0	0	82	82	82	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164
New Capacity	Solar	NCEN	NSW_Solar	0	0	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155
New Capacity	Solar	CQ	QLD_Solar	0	0	0	0	0	0	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
New Capacity	Solar	NQ	QLD_Solar	0	0	0	0	0	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
New Capacity	Solar	SWQ	QLD_Solar	0	0	0	0	0	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
New Capacity	Solar	NSA	SA_Solar	0	0	0	0	0	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
New Capacity	Solar	CVIC	VIC_Solar	0	0	0	0	0	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
New Capacity	CCGT	SWQ	QLD_CCGT	0	0	0	500	500	500	500	500	500	500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1500	1500
New Capacity	CCGT	SWQ	QLD_CCGT	0	0	0	0	0	0	0	0	0	0	0	0	0	300	300	300	600	900	900	900	900	900	900
New Capacity	CCGT	NSA	SA_CCGT	0	0	0	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
New Capacity	CCGT	SEQ	QLD_CCGT	0	0	0	0	0	0	0	500	500	500	500	500	500	500	1000	1000	1000	1000	1000	1000	1000	1000	1000
New Capacity	OCGT	SEQ	QLD_OCGT			0	0	0	0	0	0	0	0	0	0	300	300	300	300	300	300	300	300	300	300	300
New Capacity	OCGT	CVIC	VIC_OCGT	0	0	0	0	0	0	0	0	0	0	0	0	300	300	300	300	300	600	600	600	600	600	600
New Capacity	OCGT	NNS	NSW_OCGT	0	0	0	0	0	0	0	0	0	0	0	0	300	300	300	300	300	600	600	600	600	600	600
New Capacity	CCGT	NQ	QLD_CCGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	500	500	500	500
New Capacity	OCGT	CAN	NSW_OCGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	300	300	300	300
New Capacity	OCGT	SWNSW	NSW_OCGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	300	300
Retirement	Brown Coal	ADE	SA_Brown Coal	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240
Retirement	Black Coal	NQ	QLD_Black Coal	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185
Retirement	Brown Coal	LV	VIC_Brown Coal	0	0	128	328	328	328	328	328	328	528	528	528	528	528	528	528	528	528	528	528	528	528	528
Retirement	Brown Coal	NSA	SA_Brown Coal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	530	530	530	530	530	530
Retirement	Black Coal	NCEN	NSW_Black Coal		0	0	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148

Type	GenerationType	Zone	Region	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36
New Capacity	Biomass	SESA	SA_Biomass	0	0	0	0	0	0	100	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
New Capacity	Biomass	NQ	QLD_Biomass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	153	153	153	253	270	367
New Capacity	Biomass	NCEN	NSW_Biomass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	147	147	147	147
New Capacity	Biomass	CAN	NSW_Biomass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	103	103
New Capacity	Biomass	NNS	NSW_Biomass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	63
New Capacity	Wind	SWNSW	NSW_Wind	0	0	0	43.4	187.5	187.5	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3
New Capacity	Wind	NCEN	NSW_Wind	0	0	0	0	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5
New Capacity	Wind	CAN	NSW_Wind	0	0	712	726.5	1021	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3
New Capacity	Wind	NNS	NSW_Wind	0	0	0	313	366.6	366.6	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1
New Capacity	Wind	FNQ	QLD_Wind	0	0	0	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266
New Capacity	Wind	SWQ	QLD_Wind	0	0	0	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266
New Capacity	Wind	SESA	SA_Wind	0	0	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455
New Capacity	Wind	NSA	SA_Wind	0	0	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1
New Capacity	Wind	ADE	SA_Wind	0	0	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
New Capacity	Wind	MEL	VIC_Wind	0	0	818	818	1413.1	1413.1	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636
New Capacity	Wind	CVIC	VIC_Wind	0	0	0	654.6	883.2	883.2	908.5	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472
New Capacity	Wind	LV	VIC_Wind	0	0	0	82	82	82	82	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164
New Capacity	Solar	NCEN	NSW_Solar	0	0	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155
New Capacity	Solar	CQ	QLD_Solar	0	0	0	0	0	0	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
New Capacity	Solar	NQ	QLD_Solar	0	0	0	0	0	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
New Capacity	Solar	SWQ	QLD_Solar	0	0	0	0	0	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
New Capacity	Solar	NSA	SA_Solar	0	0	0	0	0	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
New Capacity	Solar	CVIC	VIC_Solar	0	0	0	0	0	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
New Capacity	CCGT	SWQ	QLD_CCGT	0	0	0	500	500	500	500	500	1000	1000	1000	1500	1500	1500	2000	2000	2000	2000	2000	2000	2000	2000	2000
New Capacity	CCGT	SEQ	QLD_CCGT	0	0	0	500	500	500	500	500	500	500	500	500	1000	1000	1000	1000	1000	1500	1500	1500	1500	1500	1500
New Capacity	OCGT	NSA	SA_CCGT	0	0	0	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
New Capacity	OCGT	SEQ	QLD_OCGT	0	0	0	0	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
New Capacity	OCGT	LV	VIC_OCGT	0	0	0	0	0	0	0	0	0	300	300	300	600	600	600	600	600	600	600	600	900	900	900
New Capacity	OCGT	SWQ	QLD_OCGT	0	0	0	0	0	0	0	0	0	0	300	300	300	300	300	300	300	300	300	600	600	900	1200
New Capacity	OCGT	NCEN	NSW_OCGT	0	0	0	0	0	0	0	0	0	0	300	300	600	600	900	900	900	900	900	900	900	900	1200
New Capacity	OCGT	CVIC	VIC_OCGT	0	0	0	0	0	0	0	0	0	0	0	300	300	300	600	600	900	1200	1200	1200	1200	1200	1200
New Capacity	CCGT	NCEN	NSW_CCGT	0	0	0	0	0	0	0	0	0	0	0	0	500	500	1000	1000	1000	1000	1000	1000	1000	1000	1000
New Capacity	CCGT	CAN	NSW_CCGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	500	500	500	500	500	500	500	500	500
New Capacity	CCGT	NQ	QLD_CCGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	500	500	500	500	500	500	500
New Capacity	OCGT	ADE	SA_OCGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	300	300	300	300	300	300
New Capacity	OCGT	NQ	QLD_OCGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	300	300	300
New Capacity	CCGT	NNS	NSW_CCGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	500	500	500
Retirement	Brown Coal	ADE	SA_Brown Coal	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240
Retirement	Black Coal	NQ	QLD_Black Coal	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185
Retirement	Brown Coal	LV	VIC_Brown Coal	0	0	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
Retirement	Brown Coal	NSA	SA_Brown Coal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	530	530	530	530	530	530

Type	GenerationType	Zone	Region	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36
New Capacity	Biomass	SESA	SA_Biomass	0	0	0	0	0	0	100	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
New Capacity	Biomass	NQ	QLD_Biomass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	153	153	153	253	270	367
New Capacity	Biomass	NCEN	NSW_Biomass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	147	147	147	147
New Capacity	Biomass	CAN	NSW_Biomass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	103	103
New Capacity	Biomass	NNS	NSW_Biomass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	63
New Capacity	Wind	SWNSW	NSW_Wind	0	0	0	43.4	187.5	187.5	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3	194.3
New Capacity	Wind	NCEN	NSW_Wind	0	0	0	0	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5	156.5
New Capacity	Wind	CAN	NSW_Wind	0	0	712	726.5	1021	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3
New Capacity	Wind	NNS	NSW_Wind	0	0	0	313	366.6	366.6	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1	522.1
New Capacity	Wind	FNQ	QLD_Wind	0	0	0	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266
New Capacity	Wind	SWQ	QLD_Wind	0	0	0	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266	266
New Capacity	Wind	SESA	SA_Wind	0	0	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455	455
New Capacity	Wind	NSA	SA_Wind	0	0	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1	500.1
New Capacity	Wind	ADE	SA_Wind	0	0	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
New Capacity	Wind	MEL	VIC_Wind	0	0	818	818	1413.1	1413.1	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636	1636
New Capacity	Wind	CVIC	VIC_Wind	0	0	0	654.6	883.2	883.2	908.5	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472	1472
New Capacity	Wind	LV	VIC_Wind	0	0	0	0	82	82	82	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164
New Capacity	Solar	NCEN	NSW_Solar	0	0	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155
New Capacity	Solar	CQ	QLD_Solar	0	0	0	0	0	0	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
New Capacity	Solar	NQ	QLD_Solar	0	0	0	0	0	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
New Capacity	Solar	SWQ	QLD_Solar	0	0	0	0	0	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
New Capacity	Solar	NSA	SA_Solar	0	0	0	0	0	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
New Capacity	Solar	CVIC	VIC_Solar	0	0	0	0	0	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
New Capacity	CCGT	NSA	SA_CCGT	0	0	0	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
New Capacity	OCGT	LV	VIC_OCGT	0	0	0	0	300	300	300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
New Capacity	OCGT	CVIC	VIC_OCGT	0	0	0	0	0	0	0	0	0	0	0	0	300	300	300	600	600	600	600	600	600	600	600
New Capacity	CCGT	SEQ	QLD_CCGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	500	500	500	500	500	500	500	500	500
New Capacity	OCGT	SWQ	QLD_OCGT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300	300	300	300	300	300
Retirement	Brown Coal	ADE	SA_Brown Coal	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240
Retirement	Black Coal	NQ	QLD_Black Coal	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185
Retirement	Brown Coal	LV	VIC_Brown Coal	0	0	128	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728
Retirement	Brown Coal	NSA	SA_Brown Coal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	530	530	530	530	530	530
Retirement	Black Coal	NCEN	NSW_Black Coal		0	0	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148	1148

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