

CENTRAL QUEENSLAND **COAL** DEVELOPMENT PROJECTS

Project	Company	Status	Proposed Start-Up	Est. Cap Exp	Employment	Mining Tenure	New capacity (Total)
Middlemount open-cut	Macarthur Coal / Gloucester Coal	New project, under construction	2011	See Stage 2 (below)	300 (con), 110 (op)	ML granted	1.4 Mt coking and PCI (Stage 1)
Newlands Northern underground	NCA JV (Xstrata Coal Ltd 55%)	Extension, under construction	2011	US\$150m	100 (con)	ML granted	7.5 Mt thermal
Oaky Creek open-cut (Stage 1)	Xstrata Coal Ltd	Re-development, FS underway	2011	US\$90m	80 e (op)	ML granted	1 Mt coking
Baralaba open-cut	Cockatoo Coal Ltd	Expansion, pre-FS underway	2012?	na	na	ML appln	0.75 Mt PCI & thermal
Isaac Plains open-cut	Aquila / Vale Australia	Expansion, under construction	2012	\$118m	100 (con), 40 (op)	ML appln	2.8 Mt coking, thermal and PCI
Jax open-cut	QCoal Ltd	New project, pre-FS underway	2012	na	150 (op)	ML appln	1.8 Mt (ROM) coking
Curragh open-cut	Wesfarmers Ltd	Expansion, under construction	2012	\$286m	300 (con), 90 (op)	ML granted	Up to 8.5 Mt coking
Foxleigh open-cut	Anglo American Metallurgical Coal Ltd	Extension, EIS and FS in progress	2012	na	90 (op)	ML appln	3.2 Mt PCI
Ensham Central B&P underground	Ensham Resources	New project, under construction	2012	\$166m	80 (con), 160 (op)	ML granted	1.7 Mt thermal
Middlemount open-cut	Macarthur Coal / Gloucester Coal	Expansion, EIS and FS in progress	2012	\$500m	400 (op)	ML appln	4 Mt coking and PCI (Stage 2)
Burton open-cut	Peabody Energy Ltd	Expansion, under construction	2012	\$250m e	200 e (con)	ML granted	4 Mt coking
Codrilla open-cut	Macarthur Coal Ltd	New project, EIS & FS in progress	2013	\$250m	170 (con), 240 (op)	ML appln	3.2 Mt PCI and thermal
Kestrel underground	Rio Tinto Ltd	Expansion, under construction	2013	US\$1100m	300 (con), existing (op)	ML granted	5.7 Mt hard coking
Daunia open-cut	BHP Billiton Mitsubishi Alliance	New project, under construction	2013	\$1600m	1000 (con), 400 (op)	ML granted	4.5 Mt coking and PCI
Millennium open-cut	Peabody Energy Ltd	Expansion, EIS in progress	2013	\$276m	50 (con), 160 (op)	ML appln	3.6 Mt coking & PCI
Drake open-cut	QCoal Ltd	New project, EIS & pre-FS underway	2013	\$350m e	350 (con), 250 (op)	ML appln	6 Mt coking and thermal

Source: ABARES May 2011 and DEEDI-Mines, Rockhampton August 2011

CENTRAL QUEENSLAND COAL DEVELOPMENT PROJECTS continued

Project	Company	Status	Proposed Start-Up	Est. Cap Exp	Employment	Mining Tenure	New capacity (Total)
Ellensfield underground	Vale Australia Ltd	New project, EIS in progress	2013	\$800m	460 (con), 340 (op)	ML appln	4.7 Mt coking and thermal
Olive Downs North open-cut	Macarthur Coal Ltd	New project, On-hold	2013	\$20m	100 (con), 80 (op)	ML granted	1 Mt coking and PCI
Dingo West open-cut	Bandanna Energy Ltd	New project, FS completed	2013	\$134m	220 (con), 110 (op)	ML appln	1 Mt PCI and thermal
Grosvenor underground	Anglo American Metallurgical Coal Ltd	New project, EIS & FS in progress	2013	\$1300m	500 (con), 485 (op)	ML appln	5 Mt hard coking (Stage 1)
Washpool open-cut	Aquila Resources Ltd	New project, EIS in progress	2013	\$396m	310 (con), 390 (op)	ML appln	2.6 Mt coking & PCI
Minyango underground	Caledon Resources Ltd	New project, EIS & FS underway	2013	\$750m	500 (con), 310 (op)	ML appln	Up to 7.5 Mt coking & thermal
Broadmeadow underground	BHP Billiton Mitsubishi Alliance	Expansion, under construction	2013	US\$900m	650 (con); existing (op)	ML granted	4.8 Mt coking
Dysart East open-cut and underground	Bengal Coal Ltd	New project, pre-FS underway	2013	\$450m	300 e (op)	MDL appln	4 Mtpa (ROM) coking
Collinsville open-cut	Xstrata Coal Ltd	Expansion, pre-FS underway	2013	na	na	ML granted	6 Mt coking & thermal
Yarrabee open-cut	Yancoal Aust. Ltd	Expansion, waiting for rail and port allocations	2013	\$150m e	100 (op)	ML appln	2.8 Mt PCI
Eaglefield (Denham) open-cut	Peabody Energy Ltd	Expansion, EIS in progress	2013	\$1400m	650 (con), 700 (op)	ML granted	Up to 6.8 Mt hard coking
Arcturus open-cut and underground	Bandanna Energy Ltd	New project, EIS underway, FS completed	2013?	\$235m	240 (con), 200 (op)	EPC 1221	5 Mt thermal
Lake Vermont open-cut	Lake Vermont Resources Ltd	Expansion, under construction	2013	\$200m	350 (con), 150 (op)	ML granted	8 Mt coking

Source: ABARES May 2011 and DEEDI-Mines, Rockhampton August 2011

e= unofficial estimate, na= not available, ROM= run of mine, FS= Feasibility Study, B&P= Bord and Pillar, UG= underground, ML= Mining Lease, appln= application

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**Department of Employment, Economic
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CENTRAL QUEENSLAND COAL DEVELOPMENT PROJECTS continued

Project	Company	Status	Proposed Start-Up	Est. Cap Exp	Employment	Mining Tenure	New capacity (Total)
Styx open-cut	Waratah Coal / Queensland Nickel	New project, pre-FS underway	2013	na	140 e (con), 110 e (op)	EPC 1029	1 Mt PCI & thermal
Baralaba North and South open-cut	Cockatoo Coal Ltd	New project, pre-FS underway	2014	\$280m	300 (op)	ML appln	3.5 Mt PCI and thermal
Byerwen open-cut	QCoal Ltd	New project, pre-FS underway	2014	\$1500m	500 (con), 1000 (op)	ML appln	10 Mt hard coking and thermal
Sarum open-cut and UG	Xstrata Coal Ltd	New project, pre-FS underway	2014	\$700m	400 e (con), 300 e (op)	ML appln	5 Mt coking and thermal
Peak Downs open-cut	BHP Billiton Mitsubishi Alliance	Expansion, EIS commenced	2014	\$4000m	350 (op)	ML appln	11 Mt hard coking
Caval Ridge open-cut	BHP Billiton Mitsubishi Alliance	New project, EIS completed	2014		1200 (con), 500 (op)	ML appln	5.5 Mt hard coking
Jellinbah East (Mackenzie North) open-cut	Jellinbah Group	Extension, pre-feasibility underway	2014	\$50-100m	100 (con); existing (op)	ML appln	2 Mt PCI & thermal
Theresa underground	Linc Energy Ltd	New project, Scoping Study completed	2014?	na	300 e (op)	ML appln	3.8 Mt coking & thermal
Goonyella open-cut	BHP Billiton Mitsubishi Alliance	Expansion, EIS in progress	2014?	\$1000m +	1200 (con), 750 (op)	ML appln	Up to 25 Mt hard coking
Tad's Corner (Alpha) open-cut	Hancock Coal Ltd	New project, BFS completed, EIS in progress	2014	\$3400m	1060 (con), 2300 (op)	ML appln	30 Mt thermal
China First (Galilee Coal) open-cut and underground	Waratah Coal Ltd	New project, EIS in progress	2014?	\$4000m	6000 (con), 1500 (op)	ML appln	40 Mt thermal
Springsure Creek underground	Bandanna Energy Ltd	New project, EIS underway, FS completed	2014?	\$1130m	300 (con), 330 (op)	EPC 891	11 Mt thermal (ROM)
Carmichael open-cut & UG	Adani Mining Ltd	New project, EIS commenced	2014?	\$4100m	5000 (con), 4000 (op)	ML appln	Up to 60 Mt thermal
New Lenton open-cut	New Hope Corp. Ltd	New project, pre-FS completed	2014?	\$400m e	400 e (op)	ML appln	1.5 Mt coking & thermal
Eagle Downs underground	Aquila Resources / Vale Australia	New project, EIS & FS completed	2015	\$1254m	500 (con), 410 (op)	ML granted	4.6 Mt hard coking (Stage 1)

Source: ABARES May 2011 and DEEDI-Mines, Rockhampton August 2011

CENTRAL QUEENSLAND COAL DEVELOPMENT PROJECTS continued

Project	Company	Status	Proposed Start-Up	Est. Cap Exp	Employment	Mining Tenure	New capacity (Total)
Moorvale B&P underground	Macarthur Coal Ltd	Expansion, pre-FS underway	2015?	\$180m e	80 e (con) 160 e (op)	ML granted	1 Mt coking and PCI
Monto open-cut	Macarthur Coal / Burnett Coal	New project, FS in progress	2015?	\$80m e	200 e (op)	ML appln	1 Mt thermal (Stage 1)
Rolleston open-cut	Xstrata Coal Ltd	Expansion, pre-FS underway	2015	\$US450m	na	ML appln	Up to 20 Mt thermal
Talwood underground	Aquila Resources Ltd	New project, Scoping Study completed	2015?	na	350 e (op)	EPC 985	3.6 Mt coking & thermal
Yamala underground	Northern Energy Ltd	New project, pre-FS underway	2015?	\$350m e	200 e (op)	MDL appln	2 Mt thermal & PCI
South Galilee open-cut and UG	Bandanna Energy Ltd	New project, EIS and FS in progress	2015	\$4150m	2000 (con), 1280 (op)	ML appln	13.6 Mt thermal
Kevin's Corner open-cut and UG	Hancock Galilee	New project, EIS & BFS in progress	2015?	\$6600m	2500 (con), 2000 (op)	ML appln	30 Mt thermal
Curragh South (MDL 162) open-cut	Macarthur Coal Ltd	New project, pre-FS underway	2015?	na	400 e (op)	MDL granted	6 Mtpa (ROM) coking
Wilunga open-cut	Macarthur Coal	New project, pre-FS underway	2015?	\$250m e	na	EPC 721	3 Mt PCI and thermal
Togara North underground	Xstrata Coal Ltd	New project, pre-FS underway	2015?	\$800m e	450 e (op)	ML appln	6 Mtpa thermal
Orion Downs open-cut and UG	Endocoal Ltd	New project, BFS underway	2014	\$100m	200 e (op)	ML appln	2.5 Mt thermal
Eastern Creek open-cut	NCA JV (Xstrata Coal Ltd 55%)	Extension, pre-FS underway	2016	na	100 e (op)	ML appln	Extend mine life 27 yrs
Belvedere underground	Aquila Resources/Vale	New project, EIS in progress	2016	\$2800m	600 (con), 500 (op)	ML appln	Up to 7 Mt hard coking
Winchester South open-cut	Rio Tinto Ltd	New project, pre-FS underway	2016?	na	400 e (op)	MDL granted	4 Mt coking & thermal
Saraji East open-cut	BHP Billiton Mitsubishi Alliance	New project, EIS process, On hold	2016	\$1000m	1000 (con), 300 (op)	ML appln	5 Mt hard coking
Moranbah South underground	Anglo Amer. Met Coal / Exxaro Australia	New project, pre-FS underway	2017	\$1300m	1200 (con), 650 (op)	MDL granted	Up to 4.5 Mt coking

Source: ABARES May 2011 and DEEDI-Mines, Rockhampton August 2011

MDL= Mineral Development Licence, EPC= Exploration Permit for Coal, EPM= Exploration Permit for Minerals, con= construction, op= operational, tpa= tonnes per annum

CENTRAL QUEENSLAND MINERAL DEVELOPMENT PROJECTS

Project	Company	Status	Proposed Start-Up	Est. Cap Exp	Employment	Mining Tenure	New capacity (Total)
Twin Hills Gold-Silver underground	Conquest Mining Ltd	Redevelopment, On hold	2011	\$6m	50 (op)	ML granted	30,000 oz pa
Mt Carlton Copper-Gold-Silver open-cut	Conquest Mining Ltd	New project, committed	2012	\$127m	150 (con), 150 (op)	ML appln	100,000 oz pa gold 6000 tpa copper 2 Mozs pa silver
Moranbah Ammonium Nitrate plant	Incitec Pivot Ltd	New project, under construction	2012	\$935m	550 (con), 80 (op)	Not required	330,000 tpa
Yarwun Alumina refinery	Rio Tinto Alcan Ltd	Expansion, under construction	2012	US\$1800m	1300 (con), 250 (op)	Not required	3.4 Mtpa
Mount Morgan Gold Tailings Re-treatment	Norton Gold Fields Ltd	New project, Feasibility Study completed, On hold	2012?	\$45m	80 (con), 50 (op)	ML granted	35,000 oz pa (Stage 1)
Goondicum Industrial minerals open-cut	Belridge Enterprises Ltd	Redevelopment, Feasibility Study completed, On hold	2012?	\$35m	70 (op)	ML granted	3.5 Mtpa ROM ore
Mount Cannindah Copper-Gold open-cut	Planet Metals Ltd	New project, Resource extension drilling	2013?	\$80m	90 e (op)	ML granted	8200 tpa copper 5900 oz gold 275,000 oz silver
Wateranga Industrial minerals open-cut	Queensland Industrial Minerals Ltd	New project, EIS commenced, On hold	2013?	\$82m	100 (op)	ML appln	225,000 tpa Ilmenite 765,000 tpa Feldspar 27,000 tpa Apatite
Marlborough Nickel-Cobalt open-cut	Gladstone Pacific Nickel Ltd	New project, EIS completed, On hold	2014?	\$120m	500 (con), 200 (op)	ML granted	2.7 Mtpa nickel-cobalt ore
Mount Kroombit Copper-Zinc open-cut	Argonaut Resources NL	New project, Scoping Study completed, On hold	2014?	\$87m	na	ML granted	1.5 Mtpa copper-zinc ore
East End Limestone open-cut	Cement Australia Ltd	Expansion, EIS in commenced	2014	na	Existing (op)	ML appln	na
Anthony Molybdenum open-cut	Zamia Metals Ltd	New project, Scoping Study in progress	2015?	\$200m	na	EPM 15145	5 Mtpa molybdenum ore

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CENTRAL QUEENSLAND ENERGY DEVELOPMENT PROJECTS

Project	Company	Status	Proposed Start-Up	Est. Cap Exp	Employment	Tenure	New capacity
Callide Oxyfuel Low Emissions	CS Energy Ltd	New project, under construction	2011	\$206m	100 (con)	Not required	Capture and store ~17,000 tpa CO2
Stuart Oil Shale Paraho semi-works plant	Queensland Energy Resources Ltd	New project, commissioning in progress	2011	\$100m	150 (con), 50 (op)	PFL 8 grntd	Up to 45 barrels/day
Blackwater CSG Power Station	Bow Energy Ltd	New project, under construction	2012	\$50m	200 (con), 3 (op)	Not required	30 MW
Moura CSG Power Station	Molopo Australia Ltd	New project, Feasibility Study underway	2012	\$65m	200 e (con)	Not required	60 MW (Stage 2)
Meridian CSG operation	WestSide Corp Ltd / Mitsui E&P Aust.	Expansion, in progress	2013	\$17m	na	PL granted	25 TJ/day
Fisherman's Landing LNG	LNG Ltd	New project, FEED Study in progress	2014	US\$720m	120 (con), 35 (op)	PPL 161 app PFL 18 grntd	1.5 Mtpa (Stage 1)
Abbott Point LNG	Energy World Corporation	New project, Pre-feasibility Study underway	2014?	US\$500m	na	PFL required	2 Mtpa (Stage 1)
Central Qld gas pipeline	Arrow Energy Ltd / AGL Energy Ltd	New project, Feasibility Study completed, On-hold	2014?	\$475m	300 (con)	PPL 121 grntd	Up to 50 PJpa
Moranbah CSG operation	Arrow Energy Ltd / AGL Energy Ltd	Expansion, in progress	2014?	\$160m	na	PL appln	160 PJpa
Queensland Curtis LNG	BG Group / QGC	New project, under construction; includes 540 km gas pipeline network and gas field development	2014	\$US15,000m	5000 (con), 1000 (op)	PPL 154 and PFL 11 grntd	8.5 Mtpa (Stage 1)
Blackwater & Norwich Park CSG fields	Bow Energy Ltd	New project, EIS commenced	2014	\$400m e	200 (con), 45 (op)	PL applns	Minimum 30 PJpa
Arrow Surat to Gladstone gas pipeline	Arrow Energy Ltd	New project, EIS approved; On-hold	2014?	\$600m	300 (con)	PPL 144 grntd	66cm diameter (90 PJpa)
Southern Cross LNG	LNG Impel Ltd	New project, On-hold	2015?	na	350 (con), 80 (op)	PFL required	Up to 3.4 Mtpa (Stage 1)

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CENTRAL QUEENSLAND ENERGY DEVELOPMENT PROJECTS continued

Project	Company	Status	Proposed Start-Up	Est. Cap Exp	Employment	Tenure	New capacity
Blackwater to Gladstone gas pipeline	Bow Energy Ltd	New project, EIS commenced	2015	\$300m e	200 e (con)	PPL required	250km length and 51cm diameter
Gladstone LNG	Santos Ltd / PETRONAS	New project, under construction; includes 435 km gas pipeline network and gas field development	2015	\$US16,000m	5000 (con), 1000 (op)	PPL 166 appln and PFL 10 grntd	7.8 Mtpa (Stage 1)
Galilee IGCC Power Station	Waratah Coal Ltd	New project, On-hold	2015?	\$1250m	1000 (con), 60 (op)	Not required	450 MW (Stage 1)
Blackwater to Norwich Park gas pipeline	Bow Energy Ltd	New project, EIS commenced	2015	\$100m e	100 e (con)	PPL required	95km length, 30cm diameter
Australia Pacific LNG	Origin Energy / ConocoPhillips	New project, under construction; includes 450 km gas pipeline network and gas field development	2015	\$US20,000m	6000 (con), 1000 (op)	PPL 163 appln and PFL 20 grntd	9 Mtpa (Stage 1)
Arrow Energy LNG	Shell Australia Ltd/ PetroChina	New project, Scoping Study and EIS underway	2016	\$10,000m e	3000 (con), 300 (op)	PFL required	8 Mtpa (Stage 1)
Arrow Bowen Gas pipeline	Arrow Energy Ltd	New project, EIS commenced	2017	\$1000m	650 (con), 10 (op)	PPL required	600km gas pipeline

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PL= Petroleum Lease, PPL= Petroleum Pipeline Licence, PFL= Petroleum Facility Licence

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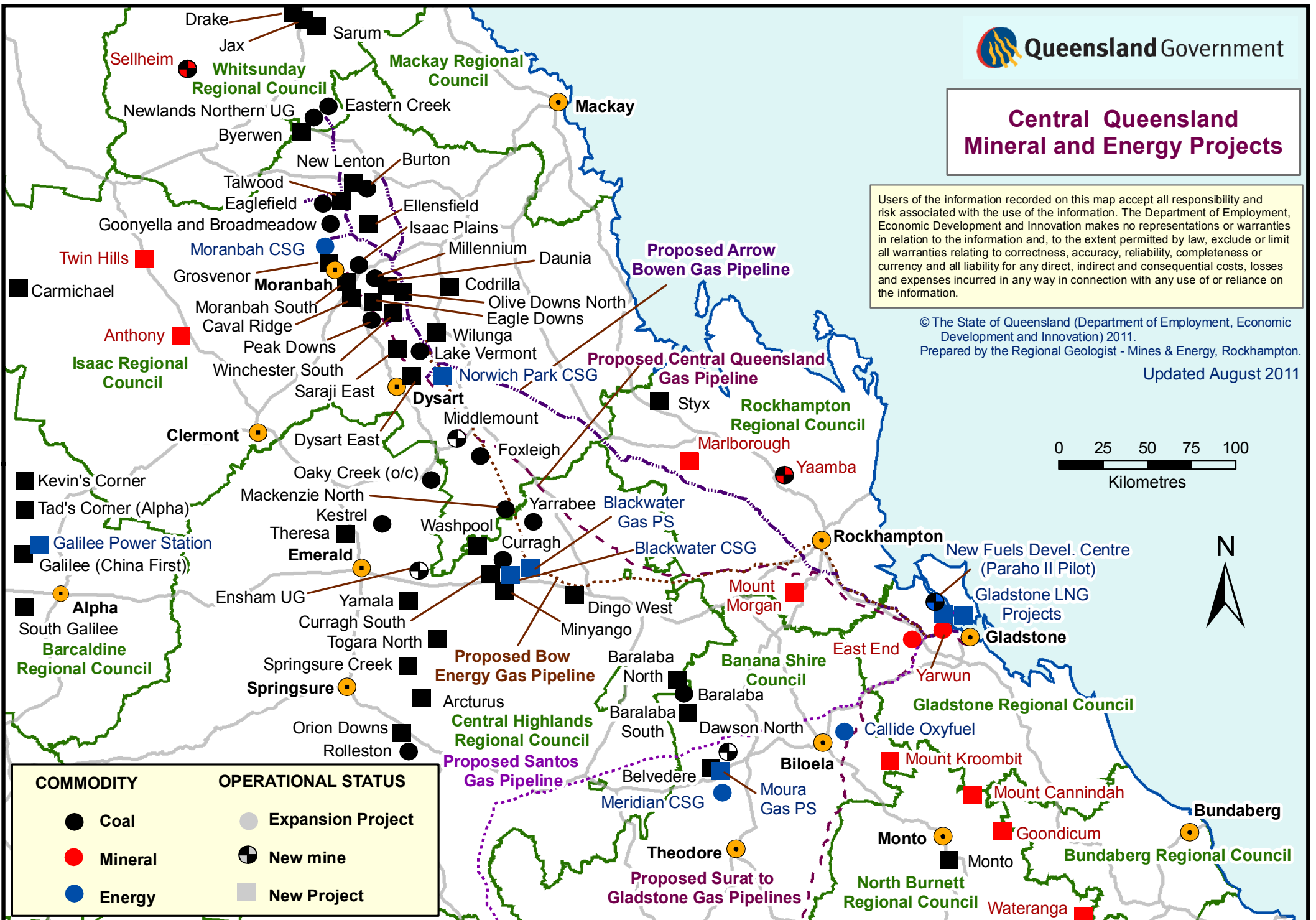
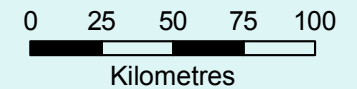
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Central Queensland Mineral and Energy Projects

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Prepared by the Regional Geologist - Mines & Energy, Rockhampton.

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COMMODITY	OPERATIONAL STATUS
 Coal	 Expansion Project
 Mineral	 New mine
 Energy	 New Project