



Electricity Licence Application Integrated Regional

Alinta Energy Transmission (Roy Hill) Pty Ltd

For Publication

1 July 2013

Applicant Details:

Applicant Details	
Name	Alinta Energy Transmission (Roy Hill) Pty Ltd
Registered Office (if a Corporation)	Level 11, 20 Bridge Street, Sydney, NSW, 2000
Principal Place of Business (if different from Registered Office)	as above

Contact Details	
Primary Contact Name	Catherine Rousch, Manager Regulatory Compliance
Mail Address	PO Box 8349 Perth BC WA 6849
Email	catherine.rousch@alintaenergy.com.au
Telephone	9486 3191
Mobile	0448 878 655
Fax	9226 4688

Company Structure	
ABN or ACN	ACN 159 279 857
Legal Nature of applicant	Australian proprietary company, limited by shares.
Place of Incorporation	Victoria, Australia
Company Directors or Principals	Mr Jeff Dimery Mr David Goldsmith Mr Ken Woolley
Entity's Core business profile	Build, own and operate transmission and generation assets in the Pilbara region of Western Australia.
Associated and/ or Controlled entities	Wholly owned subsidiary of Alinta Holdings ABN 52 148 012 471.

Electricity Licences:

Classification of the Electricity Licence Application		
Type of Licence Application	Generation ☐ Transmission ☐ Distribution ☐ Retail ☐ Integrated Regional ☒	
For Generation and Integrated Regional Licences	Installed Capacity	134 megawatts (at 32°C)
For Transmission and Integrated Regional Licences	Transmission System Length	123 kilometres (approx)
For Distribution and Integrated Regional Licences	Distribution System Length	75 kilometres (approx)
For Retail and Integrated Regional Licences	Number of large use customers	1
For Retail and Integrated Regional Licences	Number of small use customers	0

Summary Description of Licence Activity:

Corporate Structure	
Brief description of the applicant's structure and key organisational relationships	Alinta Energy Transmission (Roy Hill) Pty Ltd (AETRH) is an Australian propriety company, limited by shares. The entity is a wholly owned subsidiary of the Alinta Energy group of companies, the holding company of which is Alinta Holdings.
Services/service model	
Brief description of service(s) or service model intended	AETRH will be fully supported by Alinta Energy and will be able to draw on its established resources, systems and processes, in particular its experience as an owner and operator of electricity transmission infrastructure and power stations in Western Australia.
Service infrastructure/works	
Brief description of service infrastructure/works	AETRH intends to build, own and operate approximately 123 kilometres of 220kV power transmission line from the existing Newman Power Station to a new substation to be built at the Roy Hill Mine facility to supply power to Roy Hill Iron Ore Pty Ltd. A distribution network of buried and above ground cable will deliver power throughout Roy Hill Mine.
Other regulatory approvals	
Provide summary information on status of other essential regulatory approvals required	As part of the project, Newman Power Station and all associated assets will be acquired by AETRH. Newman Power Station is the subject of a sub-lease from Newman Joint Venturers. AETRH has substantially progressed discussions with the Department of State Development and the Department of Regional Development and Lands in Western Australia in respect of the grant of a Crown lease.

Areas to be covered by the licence

Designated area of the licence application																	
Electricity licence Area(s) and/or address to be covered by this licence.	Licence Area name: Pilbara region Address/location: Roy Hill Mine																
Gas Supply Area(s) to be covered by this licence	<table><tbody><tr><td>1 Kimberley</td><td>☐</td></tr><tr><td>2 Pilbara</td><td>☐</td></tr><tr><td>3 Gascoyne</td><td>☐</td></tr><tr><td>4 Mid-West</td><td>☐</td></tr><tr><td>5 Wheatbelt</td><td>☐</td></tr><tr><td>6 Goldfields-Esperance</td><td>☐</td></tr><tr><td>7 Great Southern</td><td>☐</td></tr><tr><td>8 Coastal</td><td>☐</td></tr></tbody></table>	1 Kimberley	☐	2 Pilbara	☐	3 Gascoyne	☐	4 Mid-West	☐	5 Wheatbelt	☐	6 Goldfields-Esperance	☐	7 Great Southern	☐	8 Coastal	☐
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5 Wheatbelt	☐																
6 Goldfields-Esperance	☐																
7 Great Southern	☐																
8 Coastal	☐																
Water Services Operating Area(s) and/or address to be covered by this licence.	Operating Area name: _____ Address/location: _____																

Certification – Acknowledgement of Commitment

I declare that the information provided in this application is correct to the best of my knowledge and I am aware of the requirements under the Act for the licence being applied for and that I have the authority to make this application on behalf of the above entity.

Signed by or on behalf of the applicant.

Name:

Position:

Signed:

Date:

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Acronyms

AER	Australian Energy Regulator
AETRH	Alinta Energy Transmission (Roy Hill) Pty Ltd
CFO	Chief Financial Officer
DEC	Department of Environment and Conservation
EPC	Engineering Procurement and Construction
ERA	Economic Regulation Authority
ESC	Essential Services Commission
ESCOSA	Essential Services Commission of South Australia
LAA	<i>Land Administration Act 1997</i>
OPGW	Optical Fibre Ground Wire
PPA	Power Purchase Agreement
PTL	Power Transmission Line

1 Application summary

1.1 Organisational structure

Alinta Energy Transmission (Roy Hill) Pty Ltd (ACN 159 279 857) (**AETRH**) is the applicant for this Integrated Regional Electricity Licence.

AETRH is an Australian propriety company, limited by shares. The entity is a wholly owned subsidiary of Alinta Holdings. In this application, a reference to “**Alinta Energy**” is a reference to Alinta Holdings and each of its subsidiaries.

1.2 Service model

AETRH will be fully supported by Alinta Energy, and will be able to draw on established resources, systems and processes from across the group of associated companies. This includes drawing on Alinta Energy’s experience as an owner and operator of electricity transmission infrastructure and power stations in Port Hedland, Newman, Pinjarra and Wagerup in Western Australia.

AETRH has engaged industry leaders Evans & Peck, a global specialist in the infrastructure and resources sectors, for project management expertise and Sinclair Knight Mertz, a leading engineering construction firm, for associated engineering work.

1.3 Infrastructure

1.3.1 Transmission infrastructure

AETRH intends to build, own and operate approximately 123 kilometres of 220kV Power Transmission Line (**PTL**) from the existing Newman Power Station switchyard facility to a new substation to be built at the Roy Hill Mine facility to supply power to Roy Hill Iron Ore Pty Ltd (ACN 123 722 038) (**Roy Hill**) under a Power Purchase Agreement (**PPA**).

Newman Power Station has three GE Frame 6B gas turbines (32MW at 32°C) and one Trent 60 gas turbine (38MW at 32°C) for a total capacity of 134MW at 32°C.

AETRH’s objective is to deliver 80 MVA of “off grid” power from Newman Power Station switchyard to the Roy Hill Mine substation.

AETRH’s proposed PTL works includes:

- Concrete foundations and earthing;
- Erection of suspension and tension tower structures; and
- Stringing of approximately 123 kilometres of single circuit conductor and Optical Fibre Ground Wire (**OPGW**).

Other works include:

- An expansion of the existing 66kV substation at Newman Power Station with new switchgear and transformers to step up to a nominal transmission voltage of 220kV;
- Construction of a new substation at Roy Hill Mine with transformers to step down to 33kV for electricity distribution within the facility; and
- Establishment of diesel generator sets at the mine.

AETRH's proposed PTL and substation works at Newman Power Station and Roy Hill Mine are collectively referred to as “**Transmission Assets**”.

The Transmission Assets are located within the Pilbara region of Western Australia, specifically from the town of Newman north to the Roy Hill Mine.

1.3.2 Distribution infrastructure

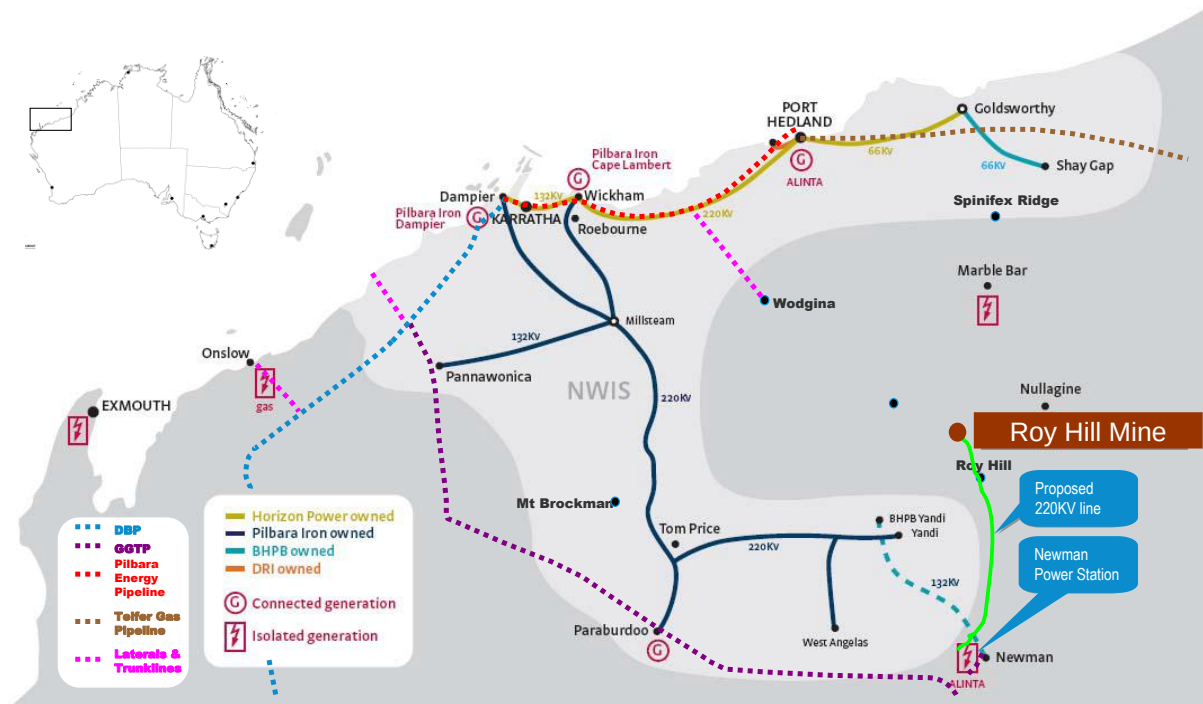
The proposed distribution network includes buried and above ground cable delivering power throughout the Roy Hill Mine facility (“**Distribution Assets**”).

The Distribution Assets are located on the Roy Hill Mine site.

1.3.3 Construction

Work on the Transmission Assets and Distribution Assets will be undertaken and delivered on an Engineering Procurement and Construction (EPC) contract basis.

Figure 1: Location of proposed Transmission Assets



1.4 Regulatory approvals and stakeholder engagement

The proposed PTL route crosses state land, leasehold land and mining tenements. The PTL route and tower locations have taken into account initial landholder comments, environmental review, flora surveys, heritage analysis and aerial mapping constraints.

2 Corporate information

2.1 Corporate arrangements

Information concerning AETRH's corporate arrangements can be found in Table 1.

Table 1: Corporate information

Identity of the applicant:	Alinta Energy Transmission (Roy Hill) Pty Ltd ACN 159 279 857 ABN 81 159 279 857
Address of the applicant:	Level 11 20 Bridge Street Sydney NSW 2000
Primary contact details of the applicant:	Catherine Rousch Manager Regulatory Compliance (08) 9486 3191 catherine.rousch@alintaenergy.com.au
Company structure:	Australian proprietary company, limited by shares.
Company directors:	Mr Jeff Dimery Mr David Goldsmith Mr Ken Woolley
Declaration:	The company directors declare they have not been disqualified under the <i>Corporations Act 2001</i> from managing corporations.
Entity's profile:	Founded: 29 June 2012. Employees: Nil (at present). Core activities: Build, own and operate transmission and generation assets in the Pilbara region of Western Australia.
Associated entities:	A complete list of associated entities appears in Alinta Holding's 2012 Consolidated Annual Financial Report.
Control by associated entities:	Wholly owned subsidiary of Alinta Holdings.

2.2 The applicant

AETRH is registered under the *Corporations Act 2001* as a propriety company limited by shares.

AETRH was established to implement Alinta Energy's electricity generation and transmission strategy in respect of electricity generated at the Newman Power Station.

Whilst at this time AETRH does not have any employees, AETRH will be fully supported by Alinta Energy and will be able to draw on established resources, systems and processes in place across the group. This includes drawing on Alinta Energy's experience as an owner and operator of electricity infrastructure associated with its power stations in Port Hedland, Newman, Pinjarra and Wagerup in Western Australia.

2.3 Directors

The directors of AETRH are Mr Jeff Dimery, Mr David Goldsmith and Mr Ken Woolley, who are respectively the Chief Executive Officer, the Chief Financial Officer and the Executive Director Power Generation, of Alinta Energy.

Jeff Dimery

Jeff Dimery is Alinta Energy's Chief Executive Officer. Mr Dimery has more than 20 years' experience in the energy and water resources industries most recently with AGL where he worked in several senior positions over 15 years.

Prior to joining Alinta Energy, Mr Dimery was responsible for leading AGL's Merchant Energy business, comprising four divisions generating earnings of more than \$500 million. Mr Dimery also held other senior roles at AGL including GM Wholesale Energy and Project Director of Project Energise, an organisational redesign program that delivered \$50 million per annum cost savings to AGL.

David Goldsmith

David Goldsmith is Alinta Energy's Chief Financial Officer (**CFO**). Mr Goldsmith was formerly the CFO of Goodman Fielder, a position he held for 3 years. Before joining Goodman Fielder Mr Goldsmith enjoyed an 11 year career with Wesfarmers where he held several senior positions including CFO of the Insurance Division and Finance Director for the Industrial and Safety Division and the Landmark Rural Services Division, CFO Wesfarmers Landmark and General Manager Accounting and Information Systems, Wesfarmers Dalgety. Prior to joining Wesfarmers Mr Goldsmith spent 20 years with Tubemakers of Australia.

Ken Woolley

Ken Woolley is Alinta Energy's Executive Director Power Generation. Prior to joining Alinta Energy Mr Woolley was the General Manager Power Development at AGL, with whom he had been employed for 7 years.

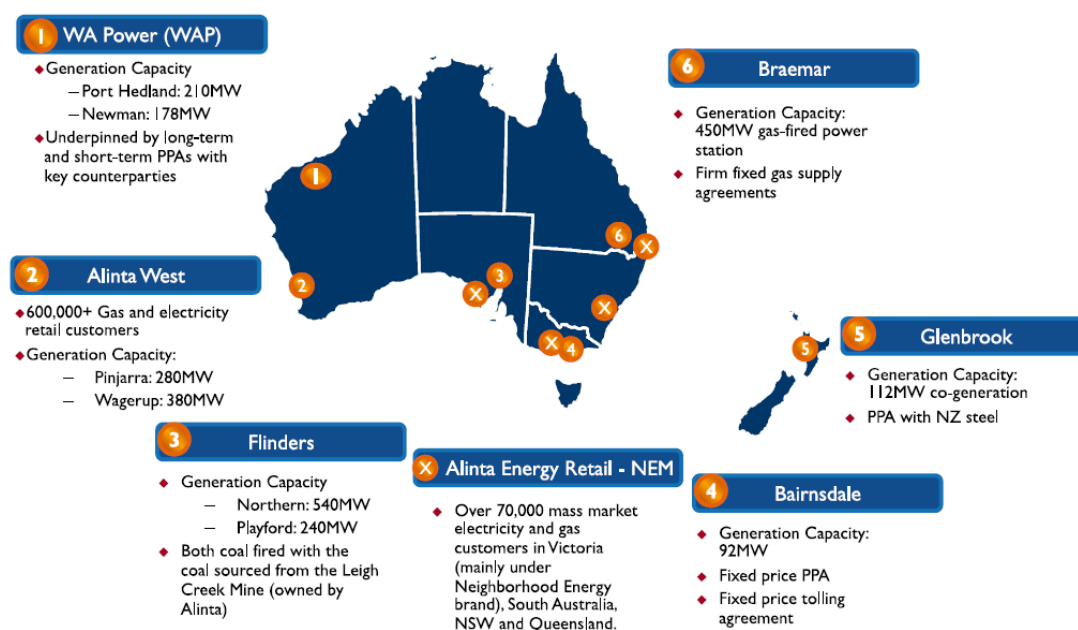
Mr Woolley was responsible for the leadership of AGL's power development function, which included the development, construction and commercialisation of six utility scale wind farms and one hydro-generation power project. Whilst at AGL, and prior to Mr Woolley's appointment to General Manager Power Development, he was responsible for the management and operation of AGL's power generation fleet. During his 20 years of power

generation sector experience he has played significant roles in the development and delivery of significant power projects both in Australia and Indonesia.

2.4 Alinta Energy

Alinta Energy is a vertically integrated group comprising nine power generation assets across Australia and New Zealand and providing gas and electricity to retail and commercial and industrial customers in Western Australia and on the east coast of Australia. Alinta Energy's portfolio comprises over 2,500 MW of installed capacity and more than 720,000 retail customers. An overview of Alinta Energy's portfolio can be found in Figure 2.

Figure 2: Alinta Energy portfolio



In March 2011, Alinta Energy was recapitalised under a new ownership structure led by TPG, a US private equity firm. With over \$54 billion of assets under management, TPG, through a restructuring of the balance sheet, is enabling Alinta Energy to deliver on its strategy of growing its business through energy retailing, power generation and infrastructure development. Alinta Energy's underlying business strategy is focused upon growth through the proactive management of its existing portfolio and through the construction and acquisition of additional power generation assets, related infrastructure and associated businesses.

3 Project information

3.1 Transmission Assets

The Transmission Assets can be broken down into the following major components:

- New 220kV interconnecting overhead transmission line between the existing Newman Power Station switchyard and the Roy Hill Mine substation;
- Modification of existing Newman Power Station primary and secondary switchyard equipment to step the voltage up to 220kV;
- Establishment of new 220/33kV Roy Hill Mine substation; and
- Establishment of diesel generator sets at the mine.

3.2 Distribution Assets

The Distribution Assets comprise buried and above ground cable delivering power throughout the Roy Hill Mine facility.

3.3 Newman Power Station

Currently, Alinta DEWAP Pty Limited (**Alinta DEWAP**) (99%) and Alinta DEWAH Pty Limited (**Alinta DEWAH**) (1%) own, and Alinta DEWAP operates, the Newman Power Station.

Newman Power Station is currently on an islanded grid and supplies power exclusively to the Mount Newman Joint Venture under a PPA.

As part of the project, Newman Power Station and all associated assets will be acquired by AETRH.

3.3.1 Current operations

Newman Power Station (refer to Figure 3) was commissioned in 1996. It comprises three dual fuel GE Frame 6B open cycle gas turbines and one Rolls Royce Trent 60 open cycle gas turbine with a full capacity of 178MW but a notional station capacity of 134MW at 32°C (Newman site conditions).

The Newman Power Station site has a full complement of staff including a Regional Manager, operations and maintenance technicians and administration staff. The power station has the capability to be remotely operated and is configured to be an “un-manned station” outside normal work hours (07:00 - 18:00 seven day a week). Remote operation is achieved via dial in and a configured laptop allows the duty operator to respond to alarms and condition changes without having to attend the site.

The transmission line will be maintained by the personnel at Newman Power Station.

Figure 3: Newman Power Station



3.3.2 Contractual obligations

Newman Power Station is currently situated on Crown Lease 3116/3685, held by BHP Billiton Minerals Pty Ltd, Mitsui-Itochu Iron Pty Ltd and Itochu Minerals and Energy of Australia Pty Ltd (**Newman Joint Venturers**) and is the subject of a sub-lease from Newman Joint Venturers.

AETRH is in the process of obtaining a Crown lease for Newman Power Station and has substantially progressed discussions with the Department of State Development and the Department of Regional Development and Lands in Western Australia in respect of the grant of that Crown lease. All other necessary consents from third parties are in the process of being obtained.

4 Financial information

4.1 Financial arrangements

AETRH's economic returns are underpinned by a PPA with Roy Hill.

Alinta Energy's financial resources will support all of AETRH's obligations, including construction and operation of the Transmission Assets and Distribution Assets.

Newman Power Station will be acquired by AETRH by means of a transfer of the power station as a form of equity contribution from Alinta Energy.

4.2 Financial reports

AETRH was established recently in June 2012 and as such, no audited general-purpose financial statements have yet been prepared.

AETRH is a wholly owned subsidiary of Alinta Holdings.

4.3 Credit rating

None of the Alinta Energy companies has a credit rating.

4.4 Contractual arrangements

AETRH will be supported by Alinta Energy and will be able to draw on established resources, systems and processes in place across the group of associated companies. This includes drawing on Alinta Energy's experience as an owner and operator of electricity transmission infrastructure associated with its power stations in Port Hedland, Newman, Pinjarra and Wagerup in Western Australia.

4.5 Internal Policies

As a wholly owned subsidiary of Alinta Holdings, AETRH can draw on established resources, systems and processes in place across the group of associated companies.

4.5.1 Compliance and risk policies

Alinta Energy achieves compliance with its legislated and licence obligations through the application of policies, processes and systems. Alinta Energy's compliance and risk management systems are underpinned by a Compliance Policy and a Risk Management Policy approved by the Board.

Alinta Energy's Enterprise Risk Management Framework has been developed in accordance with leading industry risk management standards.

4.5.2 Internal audit plan

Alinta Energy's 2012/13 Internal Audit Plan (**Audit Plan**) has been developed with consideration of the material risks to the Alinta Energy business. Projects identified in the Audit Plan focus on the processes and functional areas that Alinta Energy relies on to conduct its key business activities.

4.6 Business activities

The intended project is to facilitate the supply of power to Roy Hill under a PPA.

4.7 Term of licence

The proposed term of the licence is 30 years.

5 Technical information

5.1 Physical environment

The proposed route of AETRH's PTL crosses over state and private landholder properties, including the *Mining Act 1978* (**Mining Act**) tenure of different companies, Pastoral Leases, Native Title Claim areas, Crown land, freehold tenure vested in the State of Western Australia and the Newman Township (Ministerial Temporary Reserve).

The Native Title Claim areas are the Nyiyaparli Native Title Claim area, which covers the PTL route and the Wunna Nyiyaparli Native Title Claim area, which covers the Roy Hill Pastoral Lease.

5.2 Infrastructure

5.2.1 Supply infrastructure

The Transmission Assets include:

- Approximately 123 kilometres of 220kV PTL comprising around 281 towers;
- Expansion of the existing substation at Newman Power Station with new switchgear and transformers to step the voltage up to 220kV;
- A new Roy Hill substation with transformers to step voltage down to 33kV for further distribution within the Roy Hill Mine facility; and
- Establishment of diesel generator sets at the mine.

The new 220kV single circuit transmission line will be routed between Newman Power Station and the Roy Hill substation with a capacity of at least 160MVA. A continuous OPGW, positioned above the phase conductors to provide a shielding angle of 25 degrees to the vertical, will be required to run the entire length of the route.

5.2.2 Interconnected infrastructure

The terminal points for the PTL are:

- Connection to the 220kV landing span gantry at the Newman Power Station switchyard;
- Connection to the 220kV landing span gantry at the new Roy Hill Mine substation;
- An OPGW joint box on the landing span gantry at Newman Power Station; and
- An OPGW joint box on the landing span gantry at Roy Hill substation.

5.2.3 Newman Power Station infrastructure

AETRH will expand its existing 66kV substation at Newman Power Station with new switchgear, transformers and equipment to step the voltage up to 220kV. The substation works will include:

- The design and construction of two new feeder supply connections from the existing substation. Two of the existing connections will be decommissioned and re-engineered to provide the two new feeder supplies; and
- Modification and upgrade of existing metering and protection systems to meet the new operating requirements.

5.2.4 Roy Hill substation infrastructure

At the new Roy Hill substation, switchgear and transformers will be installed to step the voltage down to 33kV for further distribution within the Roy Hill Mine facility.

The Roy Hill substation will contain:

- A 220kV landing span gantry;
- One 220kV line feeder bay;
- A 220kV single busbar;
- Two 220/33kV transformer bays;
- One set of 33kV indoor switchgear with bus section circuit breaker and five outgoing feeder circuit breakers;
- One 33kV/415V 100kVA power transformer (providing substation auxiliary supply).

5.2.5 Roy Hill Mine distribution infrastructure

At the Roy Hill Mine, a 33kV cable distribution network will be installed within the Roy Hill Mine facility.

AETRH's proposed PTL works will be linked to the AETRH remote operations centre facility at Newman to provide full remote control, operation and monitoring. Full automatic control and monitoring facilities will also be installed at the Newman Power Station switchyard and at Roy Hill substation.

5.3 Customer information

AETRH will provide power to Roy Hill under a PPA.

5.4 Environmental approvals

A landholder management team has been established to manage landholder issues. This team will endeavour to meet the reasonable expectations of key stakeholders, immediate neighbours and the wider community.

AETRH will require an easement under the *Land Administration Act 1997 (LAA)* for the tenure underlying the PTL route from the Newman Power Station to Roy Hill Mine.

AETRH has been in negotiations with stakeholders for many months and has obtained access consent along the entire PTL route to undertake preliminary works.

AETRH is in the final stages of obtaining consent from Mining Act tenure holders, pastoral lessees and other tenure holders to a section 91 licence and easement under the LAA to construct and operate the PTL; and reaching agreement with Native Title Claim groups.

5.5 Prior experience

AETRH will be fully supported by Alinta Energy and will be able to draw on the prior experience from across the group of associated companies. Alinta Energy is an experienced owner and operator of electricity transmission infrastructure in Western Australia and aims to deliver cost effective, highly reliable generation capacity to its customers. Expertise in power generation development, asset management and power generation operations and maintenance are core to Alinta Energy's success.

5.6 Key personnel

The following personnel have responsibility for implementing the construction schedule for the Transmission Assets.

Ken Woolley

Ken Woolley's experience is outlined in section 2.3.

Gary Bryant

Dr Gary Bryant is General Manager Strategy and Planning in Alinta Energy's Power Generation Group. Dr Bryant has over 20 years experience in power generation research and development and operations and maintenance, and has held various roles in Alinta Energy's Power Generation Group since 2006, including Technical Services Manager and Manager Asset Management. Dr Bryant has a B.Sc. (Hons) from the University of Newcastle, an Executive MBA from the Australian Graduate School of Management, a PhD in Chemical Engineering from the University of Newcastle and a Diploma of Law from the Legal Profession Admission Board (NSW). He is a Member of the Institute of Engineers and is a Chartered Engineer.

5.7 Subcontractors

AETRH is in the process of making its final decision in relation to its choice of EPC contractor.

AETRH's requirements for the EPC contractor are outlined in its contracts and functional specifications and include that the contractor must ensure:

- All materials, equipment, goods and services will be new, fit for the intended purpose and comply with specific documentation, including conditions of contract, codes of practice, Australian Standards and other relevant publications;
- All Government (local, state and federal) and Statutory Authority acts, laws and regulations having jurisdiction over the works are complied with;
- Given the environmental sensitivities concerning this project, all environmental policies and guidelines are adhered to;
- Specific items are taken into consideration, including:
 - Access to site after a large rain bearing cyclone;
 - Working in the high temperatures experienced in the Pilbara;
 - Obtaining concrete supplies in remote locations;
 - Foundation construction in areas subject to inundation, in unstable soils and in hard rock conditions;
 - Tower foundations designed to withstand uplift, overturning, settlement and sliding under the most adverse load conditions; and
 - Protection of infrastructure from cockatoo attacks.

5.8 Relevant licences

Alinta Energy holds a number of licences in various jurisdictions within Australia. Details of these are listed in the table below.

Table 2: Alinta Energy licences

Jurisdiction	Licence type	Regulatory authority	Licence details	Entity
WA	Generation	Economic Regulation Authority (ERA)	Electricity Generation Licence EGL6	Alinta Cogeneration (Wagerup) Pty Ltd
WA	Generation	ERA	Electricity Generation Licence EGL10	Alinta Cogeneration (Pinjarra) Pty Ltd
WA	Retail	ERA	Electricity Retail Licence ERL6	Alinta Sales Pty Ltd
WA	Retail	ERA	Gas Trading Licence GTL9	Alinta Sales Pty Ltd

Qld	Generation	Queensland Government	Generation Authority No. 03/04	Braemar Power Project Pty Ltd
Qld	Retail	Queensland Government	Retail Authority No. R01/12 (electricity)	Alinta Energy Retail Sales Pty Ltd
Qld	Retail	Queensland Government	General Retail Authority No. RA -G-007 (gas)	Alinta Energy Retail Sales Pty Ltd
SA	Generation	Essential Services Commission of South Australia (ESCOSA)	Generation Licence (Port Augusta Power Stations)	Flinders Power Holdings GmbH, Flinders Labuan (No 1) Limited, Flinders Labuan (No 2) Limited and Flinders Operating Services Pty Ltd
SA / ACT	Retail	Australian Energy Regulator (AER)	Authorisation - Electricity	Alinta Energy Retail Sales Pty Ltd
SA / ACT	Retail	AER	Authorisation - Gas	Alinta Energy Retail Sales Pty Ltd
Vic	Generation	Essential Services Commission (ESC)	Electricity Generation Licence	Alinta DEBO Pty Ltd
Vic	Retail	ESC	Electricity Retail Licence	Alinta Energy Retail Sales Pty Limited
Vic	Retail	ESC	Gas Retail Licence	Alinta Energy Retail Sales Pty Limited

5.9 Staffing and resources

AETRH will be fully supported by Alinta Energy and will be able to draw on resources from across the group.

Evans & Peck and Sinclair Knight Mertz have been engaged for project management and engineering work respectively.

Evans & Peck

Evans & Peck has specialist expertise in the infrastructure and resources sectors. The company provides a range of services to clients including:

- Detailed pre-feasibility and definitive feasibility through to implementation and operation of major projects;

-
- Business case development;
 - Contract strategy advice and negotiations;
 - Project plan development;
 - Safety management plan development;
 - Risk analysis and regulatory advice;
 - Support for due diligence activities;
 - Technical support.

Sinclair Knight Mertz

Sinclair Knight Mertz is a leading projects firm with global capability in strategic consulting, engineering and project delivery. Project delivery systems have been developed based on best practices and incorporate many years of experience.

The delivery of any project is guided by a comprehensive step-by-step process flow across the entire project life cycle, complete with supporting procedures and systems that aim to eliminate or minimise adverse design-related risk outcomes over the life cycle of the assets including procurement, construction, operation and maintenance.

5.10 Asset management system

5.10.1 Asset management framework

Alinta Energy's Asset Management Framework document specifies the requirements that enable Alinta Energy's asset management strategies, objectives and plans to be developed, documented, maintained and delivered. The Asset Management Framework explains what an asset management system is and why it is required and provides an understanding of the specific approach adopted by Alinta Energy with respect to the management of its assets. The Asset Management Framework has been aligned with the Publicly Available Specification PAS 55-1:2008 *Asset management - Specification for the optimized management of physical assets*.

5.10.2 AETRH maintenance and management

The draft Asset Management Plan for the new transmission line will be fully developed by AETRH in accordance with good engineering and operational practices.

AETRH will utilise Mincom Ellipse, a fully integrated enterprise asset management application suite, for the management of all Transmission Assets and Distribution Assets, including the scheduling of all planned maintenance. This system is currently used at Newman Power Station.

5.11 Licence compliance

Alinta Energy holds a number of electricity generation and energy retail licences in various jurisdictions within Australia, as described in Table 2. Compliance with licence obligations is monitored and enforced by Alinta Energy's regulatory team.

Alinta Energy is highly committed to regulatory compliance and has established an experienced regulatory team responsible for regulatory compliance and for implementing a culture of compliance across the Alinta Energy businesses.

Incidents, issues, near misses and breaches from across the business are recorded in Alinta Energy's Incident Management System.

Alinta Energy undertakes audits and prepares compliance reports for regulators in all jurisdictions in which it operates and can provide further details of these upon request.

6 Public interest information

6.1 Environmental considerations

Environmental impacts are expected to be minimal given there is no broad acre clearing, de-watering or land forming.

The primary environmental issue arising in this project is the clearing of native vegetation and the existence of a Priority One flora species along a section of the PTL alignment. Application will be made to the Department of Environment and Conservation (**DEC**) for a native vegetation clearing permit.

All access and line route clearing will be kept to a minimum and the top soil will, as far as possible, be left undisturbed.

Crossing of small creeks by access roads will require construction of culverts of sufficient size to accommodate average rainfall runoff. Larger creeks will require track grading down to the creek bed to minimise disturbance to the banks and to decrease risk of subsidence or erosion whilst affording safe access for vehicles.

Minor considerations during construction will be short-term impact on watercourses that are traversed by the PTL and dust caused by earthworks during the installation of foundations.

6.2 Community service obligations

AETRH recognises the importance of protection of Aboriginal heritage and its responsibilities in respect of the *Aboriginal Heritage Act 1972* and *Native Title Act 1993*. AETRH will develop a management plan aimed at compliance with these Acts and will take steps to reduce the impact of AETRH's proposed works on areas of importance to traditional owners.

AETRH is committed to consulting with the relevant Aboriginal groups, particularly Native Title Claim groups, during the design of the project and with respect to any future changes to the project area and has established a landholder management team for this purpose.

6.3 Regional development

AETRH's proposed works support economic development in the Pilbara region. Local and regional employment opportunities and investment growth will also benefit.