Powerlink agrees with the submission of the IPN and expresses its concerns in Powerlink’s formal submission in response to two specific consultation questions.

Queensland Government’s Department of Natural Resources, Mines and Energy.

This submission relates specifically to consultation questions 2, 3, 4 and 4.1, and builds upon the views expressed in Powerlink’s formal submission in response to two specific consultation questions.

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Join planning with distribution network service providers.
- Co-optimisation with asset management plans; and
- Detailed implementation of various design options.

In conjunction:
- Consideration of non-network solutions.

These high-level inputs would provide a clear focus for more detailed investigation by each
consultation.

Detailed options relating to the proposed investment will be undertaken by RT-I.

Subsequent exposure of different options and scenarios through a process which may
then be used by TNSP for RT-I consultations and

- Appropriate scenarios and weightings. Given the high degree of uncertainty, it is
nuanced, a process is well suited to develop such scenarios and proabilities through a

- In particular, Powerlink considers there would be particular value from guidance on
results of making and considers that AEMO is well positioned to perform such an analysis and share the

- Incremental decision making.

This environment is characterised by highly distributed decision making, where the actions of
governmental regions, each with different climatic conditions and opportunities.

- Responsible aggregators, technology providers, investors, and policy makers, and

- Participants. Consumers, industrial leads, generators, retailers, networks, demand,
storage, and loads.

The NEM is a complex system, comprising different:

2.1 What are the key factors which can enable generation and transmission development?

ISP consultation paper.

The remainder of the submission addresses questions 2.1 to 4.1 as outlined in AEMO's

Response: AEMO National System Plan Consultation
Letter from Powerlink Consultation
4.1. Have the right transmission options been identified for consideration in the ISP?

With Queensland, there are three different forms of augmentation which are possible:

mid 2018

- Transmission upgrades to existing power lines and substations to form a new ‘offshore’ 
  transmission network
- Queensland - New South Wales Interconnector (QNI), Powerlink is collaborating with
  Powerlink supports AEMO's view that it is appropriate to renewables at up ratings of the

A specific instance of a proposed REZ is the Queensland Government's proposed Clean

The ISP modelling should consider how this may occur.

The ISP is a process to investigate the

Queensland's REZ localities nominated in the ISP consultation document. Albany

Queensland also has excellent potential for wind and hydro generation in contrast to solar PV.

Abundant solar resource through most of Queensland, including many localities close

In recent years, Queensland has experienced a significant investment in solar PV generation,

Powerlink understands a REZ to be a coordinated network initiative to support the development

between the renewable generation and the load it will supply.

Powerlink supports the potential REZs which have been identified within Queensland.

- 3.1. Does this analysis capture the full range of potential REZs in eastern Australia?

facilitate the development of generation that is in the best interests of consumers.

- Effectiveness of network development in the benefits of consumers. This, in turn, would help to

Such an arrangement, combining national and local perspectives, will maximise the cost-

Letters from Powerlink Queensland

Requests AEMO Network System Planning Consultation
Powerlink would support the induction of these high-level options in the ISP analyses. Where

of HVDC converter stations.

Networks through the use of smart contracts. In contrast to an AC option, the ability for
Powerlink to connect into a HVDC circuit along its length is limited, due to the high cost
operation could also reduce the transmission losses included in the generation of a new
HVDC (HVDC network). An HVDC network would provide a grid-robust power network across the

- Parallel High Voltage Direct Current (HVDC) Network Implementation of a new

- Technology

connection of generation along the circuit's length, this option would need to use AC
connection of resources along a circuit's length.

1. How of power access a region (e.g. from north to south).

- Development of a new Alternating Current (AC) transmission line.

- an undeveloped investment is low.

- HVDC links between Queensland and South Australia.

- Development of a new Alternating Current (AC) transmission line.