



Provincial Energy Strategy

What It Means For The Electricity Sector

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Goals



1. Clean energy production
2. Wise energy use
3. Sustained economic prosperity



PES Levers

(What GOA will focus on)

- Address environmental footprint
- Add value
- Change energy consumption behaviour
- Improve innovation
- Bolster knowledge and awareness
- Alignment to other initiatives and policies
- Enhance electricity system



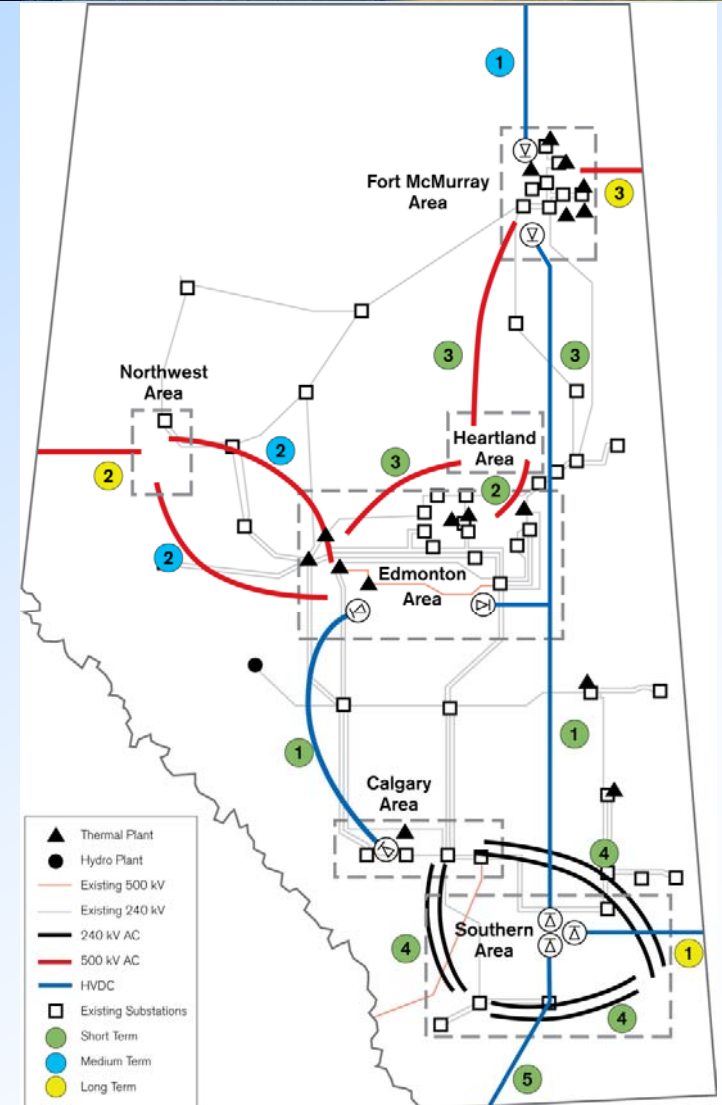
Enhance Electricity (Transmission and Generation)

- Lead the development of a plan
- Policy to build transmission
- Policy to build interties
- Streamline regulatory process
- Assemble multi-use corridors
- Facilitate hydro and wind gen. dev.



Transmission: A Key Focus

- Transmission is critical for reliability and to ensure market functioning
- Comprehensive upgrade to the transmission system needed.
- Build transmission to areas of renewable energy.
- Build interties to other markets.



Notes:

1. For illustrative purposes only; does not depict actual line routes.
2. HVDC is the preferred technology choice for the Edmonton-Calgary project; however, both AC and HVDC options will be examined.



Transmission Timeline

Draft Legislation

AESO / TFO planning

Legislation Enacted

AUC Hearings Begin

Construction Begins

Jan
09

Jul
09

Jan
10

Jul
10

Jan
11



Issues

- Consider the prospect of nuclear power.
- Streamline regulatory process for siting transmission.
- Alternative energy production to complement and enhance the goal of clean fossil fuel development.
- Develop a higher capacity and more robust electricity system for the province



Change Consumption Behaviour (AMI)

- Improve Measurement
- Policy to support AMI to all consumers
- Policy to enable Smart Grid technology
- Reduce per-capita consumption to help meet emissions targets
- Education and awareness programs



Encourage Energy Efficiency and Conservation

- Develop an overarching GOA policy framework for increased energy efficiency
- Benchmark and profile consumption levels and set aggressive reduction targets – best in class by sector.
- Establish a new standards for building codes and promote gold LEED construction within government
- Support the demonstration of green urban planning (Municipal Action Plan)



Encourage Complementary Energy Sources

- Establish new regulatory framework to implement a provincial renewable fuels standard by 2010
- Review micro-generation policy implementation and facilitate adoption of increased distributed generation
- Assessment of mid scale (1-25 MW) distributed generation policies, facilitate investment and technology adoption
- Establish bioenergy clusters that facilitate waste-to-energy conversion through program extension of the producer credit program and commercialization funding.