

## Future Generation Requirements

Alberta's current generating capacity is 12,427 MW. This is comprised of mainly coal and natural fired gas with about 1,700 MW coming from wind, hydro and other renewable forms of energy. Our recent forecasts suggest that over the next 20 years, approximately 11,500 MW of new generation is needed to ensure we have enough reliable power to meet the needs of Albertans.

Demand for power has increased 14.4% from 2002 to 2008, with peak demand growth forecasted to average 3.4% over the next 20 years.

The requirement for new generation development is currently being driven by the load growth mentioned above and by the retirement of some existing generating units. Over 2,000 MW of existing generation is expected to retire within 20 years. Carbon pricing and other factors could increase or advance retirements.

A robust transmission system ensures adequate transmission capacity is available to support development of a fair, efficient and openly competitive electricity market. Investors must have confidence in the market and that the transmission system will be capable of taking their production to market.

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