



## Backgrounder

### NTPC's Response to Energy Challenges

NTPC has developed a strategy that identifies actions that can be taken to ensure the North Slave power system can respond to emergent events such as a drought causing low water.

#### Low water response actions include:

- Installation of modular units at Jackfish plant (5.75 total MW) to increase capacity and improve efficiency and reliability.
- 10 MW Battery back-up at Jackfish that can store up to 15 minutes of reserve energy, providing the time to start up a generator should the transmission line or another generator fail.
- A wind project located on the hills near the Snare hydro site with a capacity of 7 – 10MW. This system will utilize batteries at Jackfish for system stability in addition to storing longer term energy. This project is contingent on wind studies confirming that adequate wind resources exist.
- NTPC issuing an expression of interest for both solar and wind instalments in the North Slave.
  - Solar capacity to be: 1, 5 or 10 MW
  - Wind capacity to be: 5 or 10 MW
- Increasing the generation capacity at the Bluefish hydro station.
- A transmission connection to the continental grid has been previously examined and would provide the NWT with the same level of service as the remainder of the continent as well as facilitate intermittent renewable energy. The estimated cost is about \$1 billion.