[Decisions, Options, Timelines]

PLANS FOR A SUSTAINABLE POWER FUTURE

Saskatchewan Renewables IPP and Supplier Information Session Regina, Saskatchewan November 17, 2016



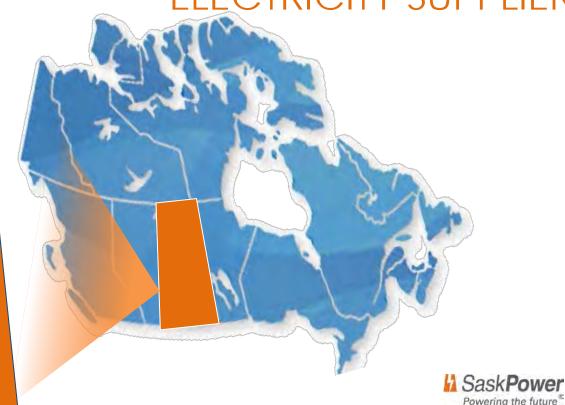
SASKATCHEWAN'S PRIMARY ELECTRICITY SUPPLIER

520,00 CUSTOMERS (8,000 NEW IN 2015)

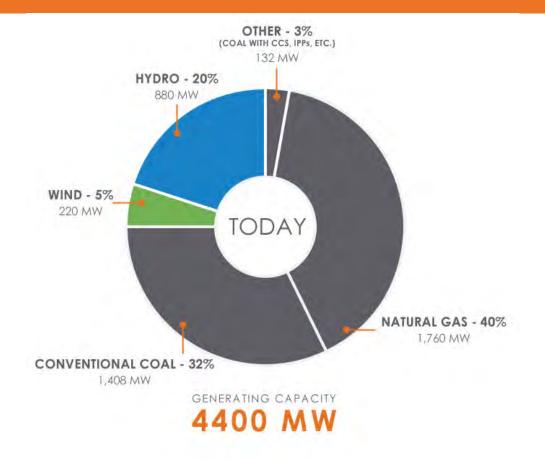
4,400 MW CAPACITY

3,628 MW NEW PEAK LOAD (2016)

156,000 KM OF POWER LINES



GENERATING CAPACITY - TODAY



ADDITIONAL ELECTRICITY TO POWER A CITY THE SIZE OF SASKATOON.





Our goal:

reduction in emissions by 2030





Carbon capture and storage (CCS) is one of the options we're considering to help us meet our emissions reduction goal.



the percentage of renewable power by 2030.

We'll add more wind and hydro, introduce utility scale solar and continue to evaluate geothermal and biomass.







Figure 1: Location of the 144 Canadian and 8 U.S. meteorological stations used as sources of insolation data

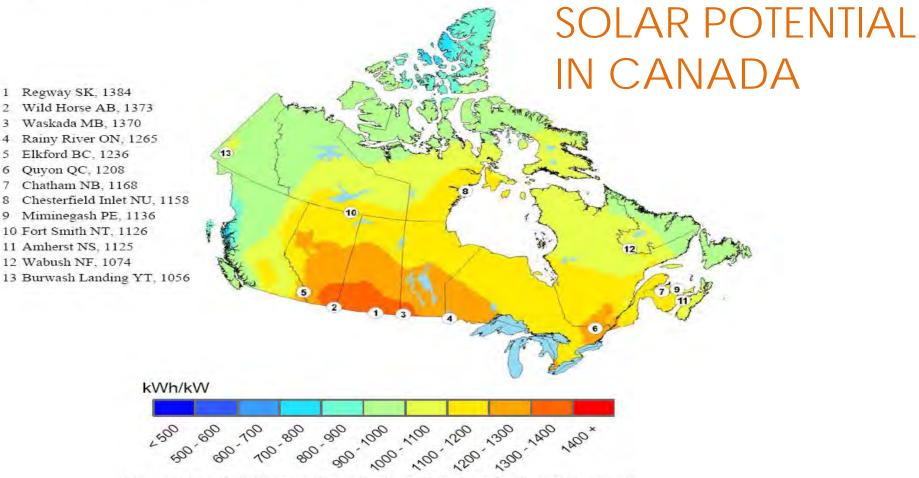
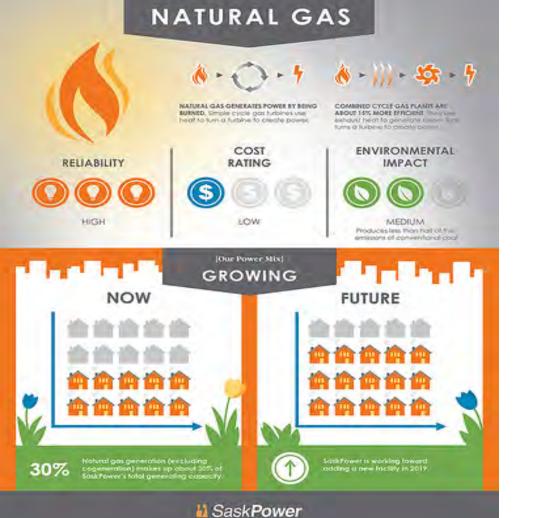


Figure 3: Yearly PV potential map for latitude tilt and the 13 "PV hotspots" in each province and territory in Canada.

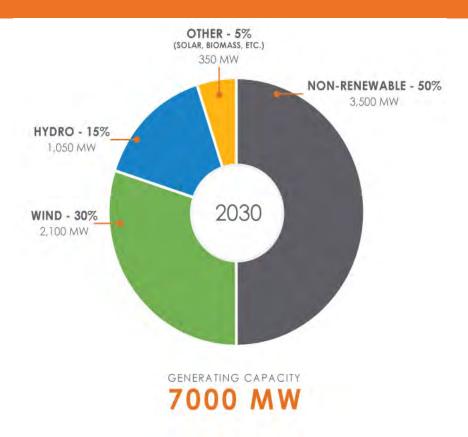


Powering the future

NATURAL GAS HELPS US ADD RENEWABLES

- Lower CO₂ emissions
- Shorter build time (5 yrs)
- Provides ideal backup to wind/solar

POTENTIAL GENERATING CAPACITY - 2030



ENERGY EFFICIENCY AND CONSERVATION





WE'RE MEETING OUR CHALLENGES

- Investing to upgrade the system
- Evaluating all options to replace coal without CCS, meet demand and meet our emissions goals
- Working with private power producers, communities and First Nations to add more clean power
- Sharing information to help our customers understand what we're doing and why

Our goal: reliable, sustainable, cost-effective power

Questions & Discussion

