SaskPowerPostCombustionCoalFiredCCSProject

The world's first commercial post combustion coal-fired CCS project

SaskPower



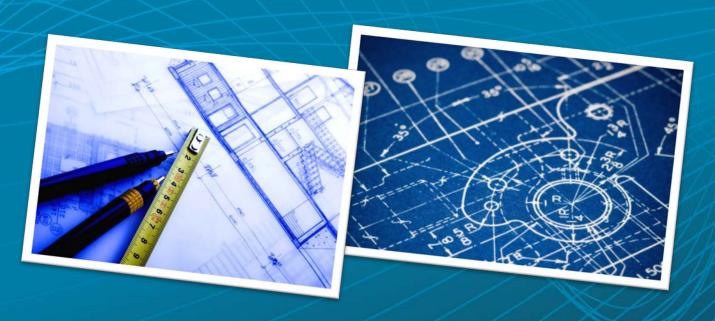
Centre of Innovation PreCambrian Shield La Ronge North Battleford Prince Saskatoon Swift Current Moose Jaw Yorkton Regina Weyburn-Midale Project Estevan Aquistore **BD3 Project** Carbon Capture **Test Facility**

THE REALITY IN SASKATCHEWAN, CANADA.

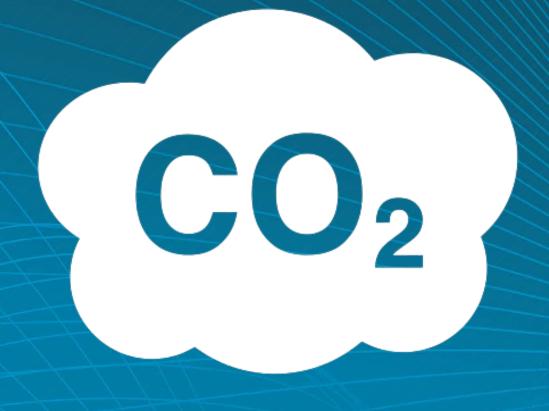
- 490,000 customers
- 151,000 km of transmission line
- 4,104 MW generating capacity



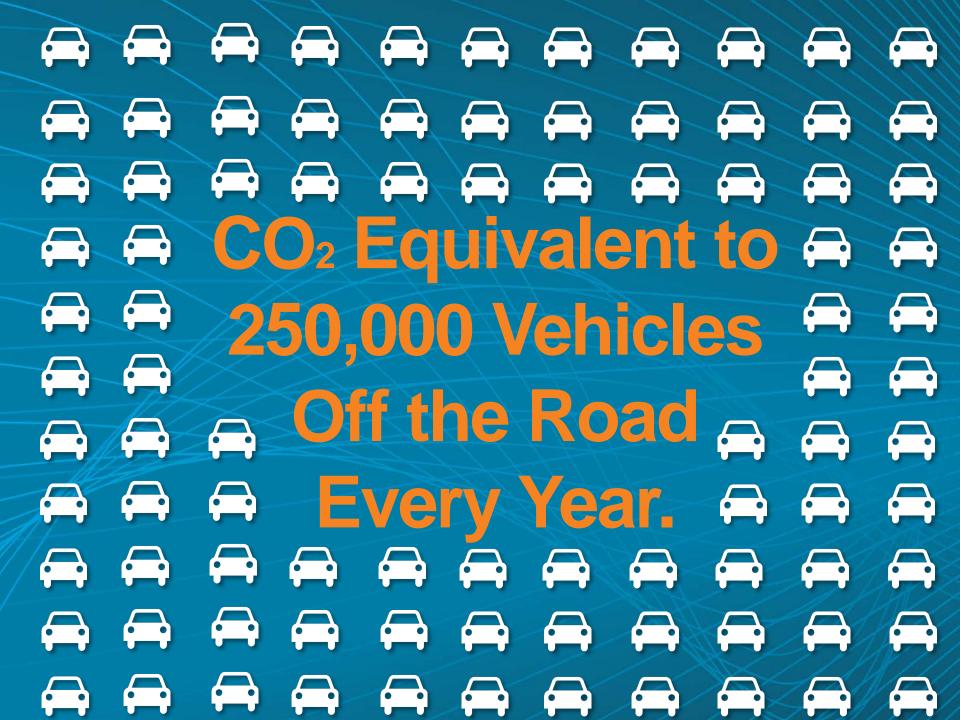
Imagine ... the CCS Facility of the FUTURE

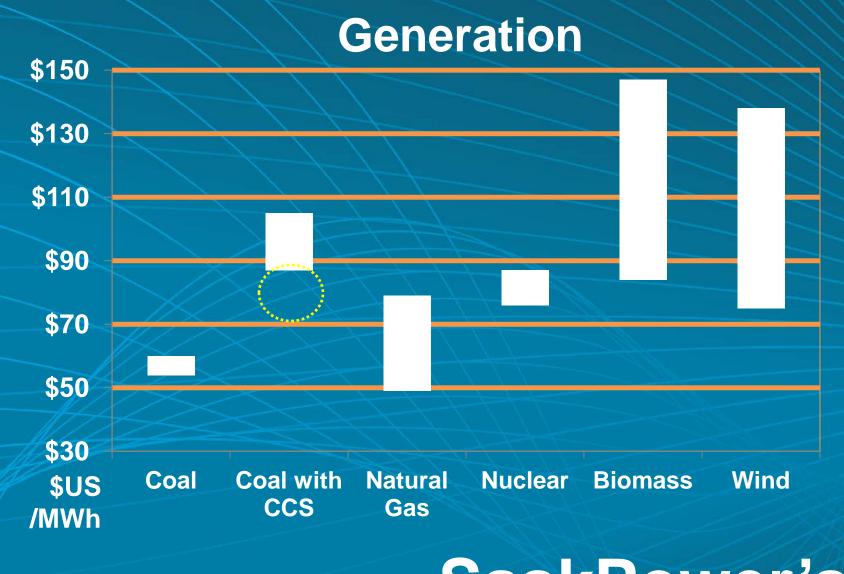


of CO₂ captured from an emissions stack.



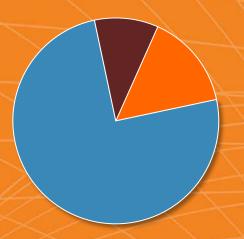
1Million Tonnes of CO₂ Per Year.





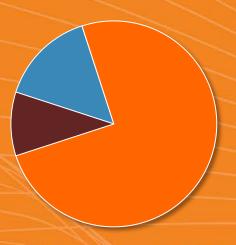
SaskPower's Experience.

Baseload Natural Gas Cost of Electricity



SaskPower's Experience.

BD3 Carbon Capture Cost of Electricity

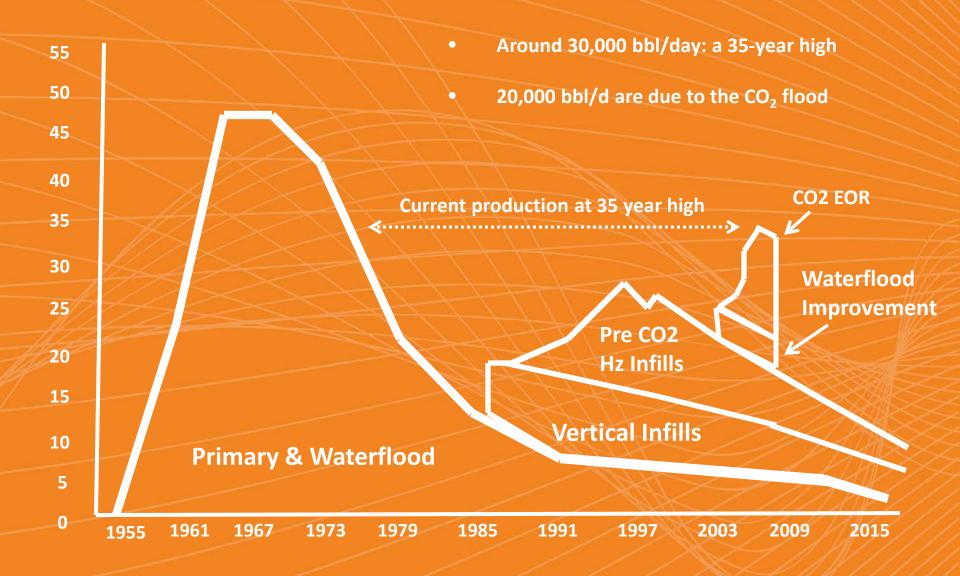


Capital Investment
Fuel Expense
O & M

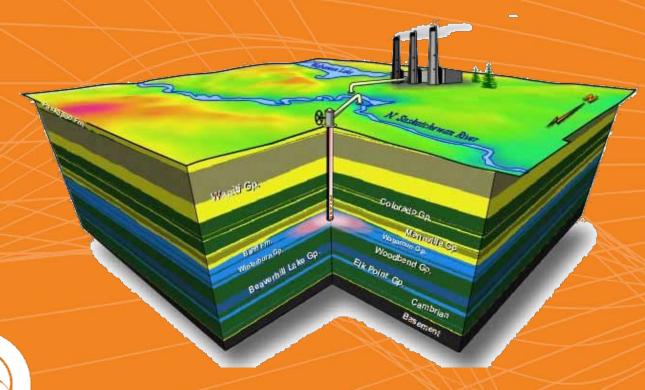
Repurposing By-Products.



Utilization: EOR



Storage.







Carbon Capture Test Facility

- For Commercial validation of amine PCCC systems
- Primary train: 120 tonnes per day
- Secondary train: 7.5 tonnes per day
- Catch and release
- Developed in collaboration with Hitachi Ltd.
- Primary train dedicated to Hitachi technology 2015 and early 2016
- Primary train open for non-Hitachi work mid 2016
- Secondary train available as needed



Synergistic Relationship

	CCTF alone	CCTF with BD ICCS
Installed Cost		
Direct Energy Demand		
CO ₂ Quality		
Operating Procedures/impact		
Indirect Energy (host impact)		
Trace Emissions		
Efficacy, Operability		
Consumables and Maintenance		
Uncertainty in all of Above		

LEADING COLLABORATION IN:







Boundary Dam Integrated CCS Demonstration

 Knowledge Sharing Consortium

Shand Carbon Capture Test Facility

- Evaluation Services
- Test Center Network

Technology Advancement and Basic Research

In Progress

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