

Alberta Carbon Trunk Line

Virtual Workshop on CO2 Infrastructure and Virtual Clusters

October 15, 2020



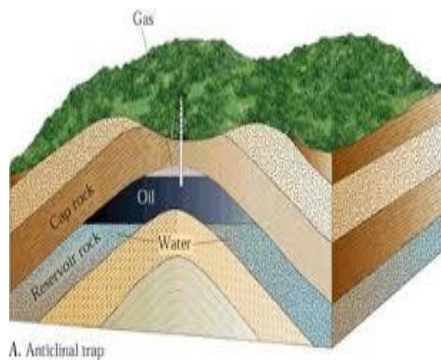
Why Alberta is attractive for CCUS

Supply



Large emitters
(industrial and
power generation)

Geology



Suitable oil zones
and deep aquifers

Workforce/Services



Highly skilled
workforce and
service equipment
from oil and gas
industry

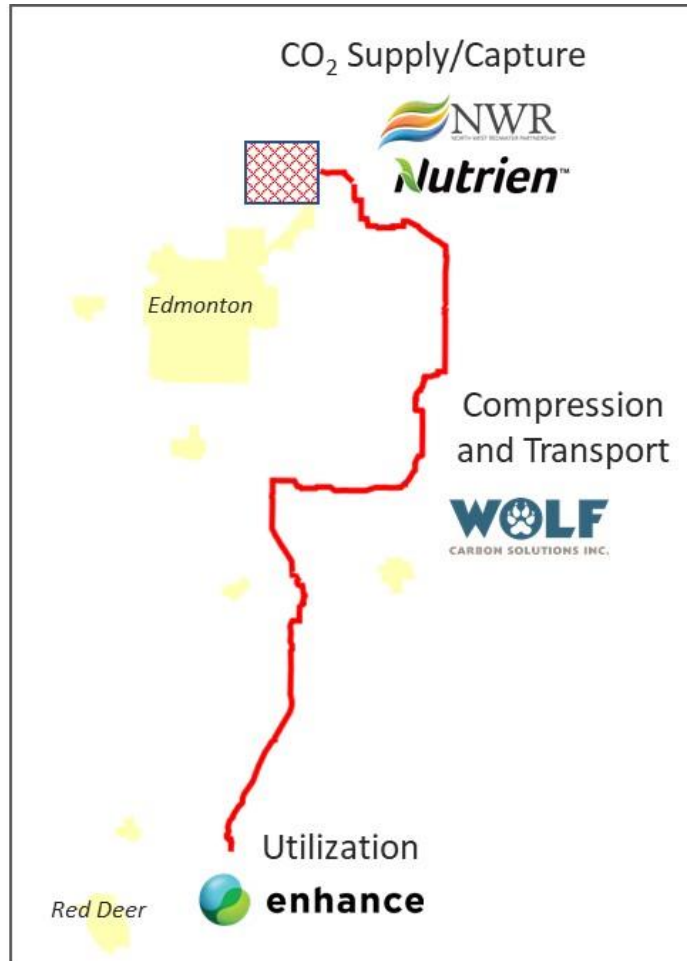
Regulatory



Existing regulatory
framework and
defined price on
carbon



Alberta Carbon Trunk Line (ACTL) system capitalizes on this



- Integrated Carbon Capture, Transport, Utilization and Storage
- Over \$1 B capital invested
- World's largest pipeline system dedicated to man made CO₂
- Current CO₂ sequestration rate is 1.6 MTPA



Developed in an Integrated Manner



- System proponents jointly secured Government funding
- Capital and operating grants made available
- Capital grants enabled financing and final investment decision
- Construction and on-stream timing aligned

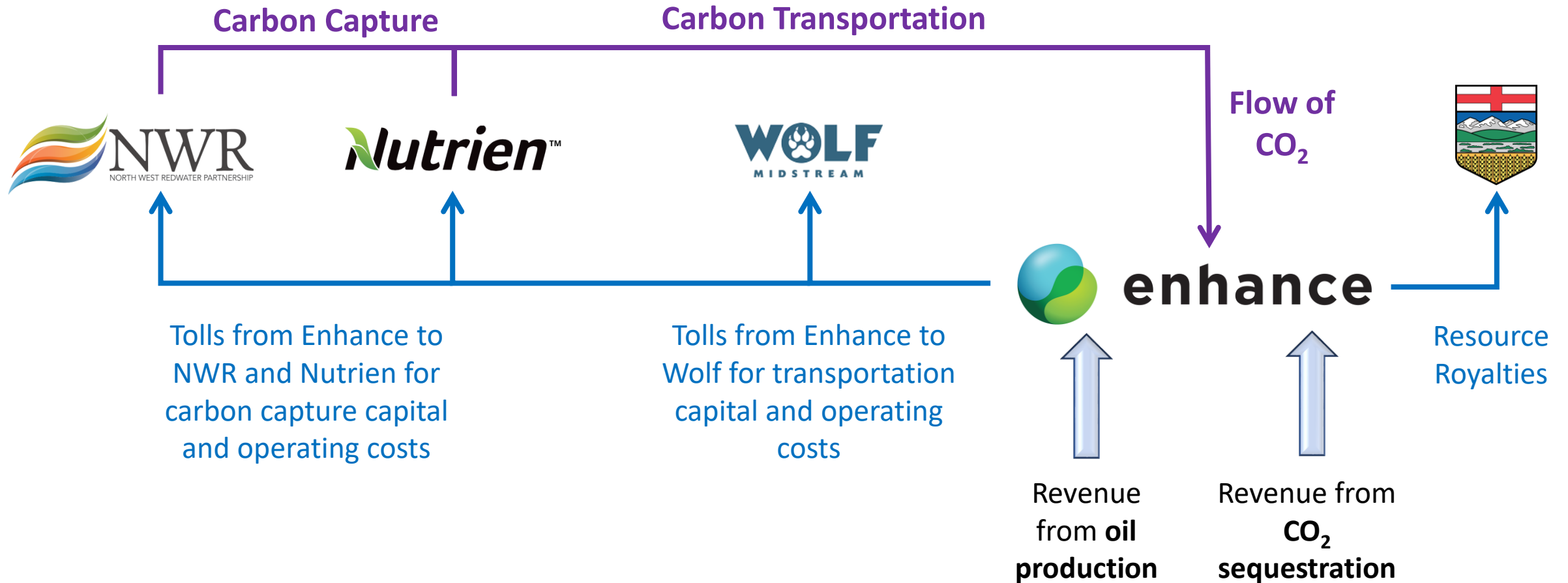
 Natural Resources Canada Ressources naturelles Canada

Canada

Alberta

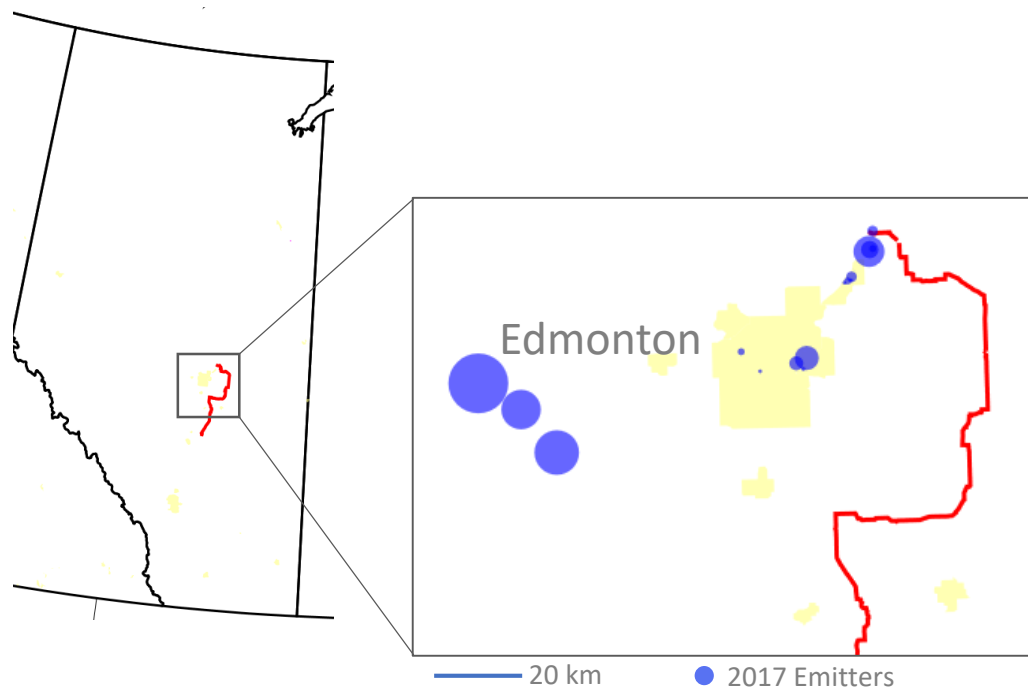


Underpinned by commercial agreements





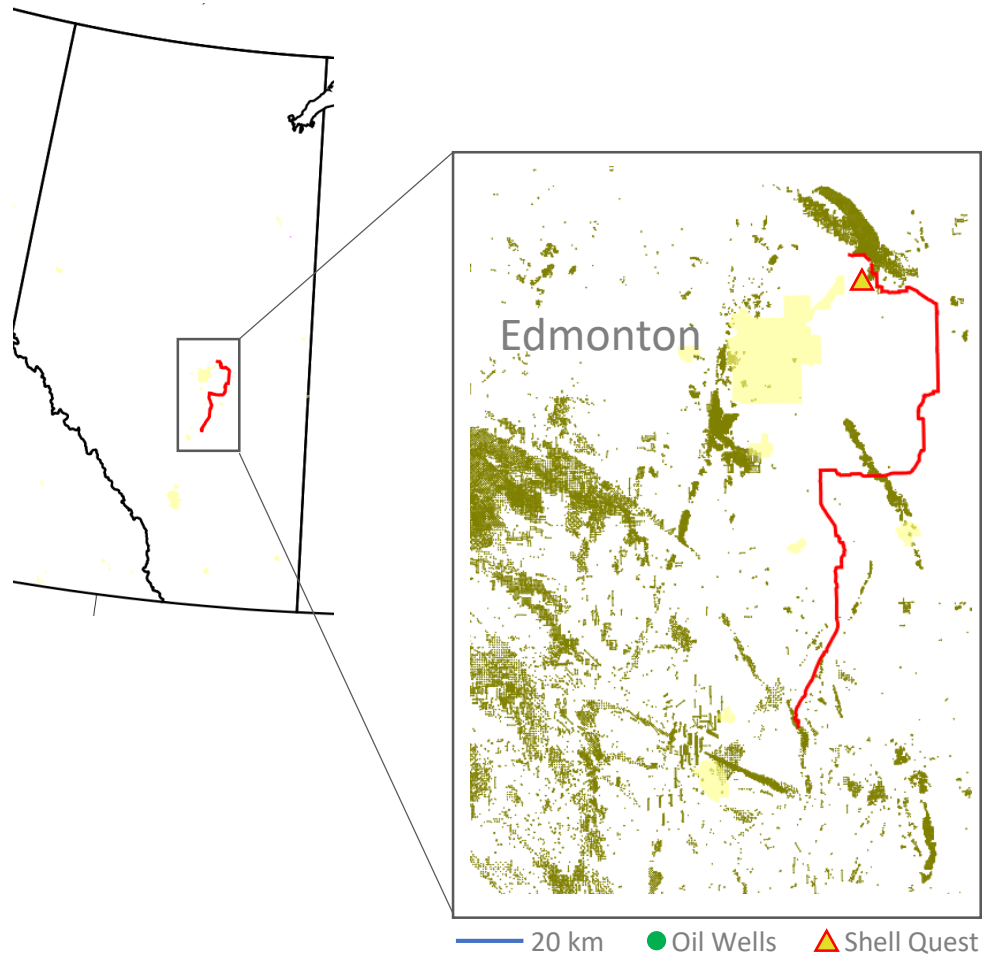
Multiple emitters in close proximity



- Large emitters near ACTL pipeline include:
 - Power Generation (31.5 MTPA)
 - Refining (7.5 MTPA)
 - Fertilizer (2.1 MTPA)
 - Hydrogen production (1.6 MTPA)
 - Petrochemical (1.6 MTPA)
 - Cement (0.6 MTPA)
- Reduced infrastructure required to bring on additional emitters



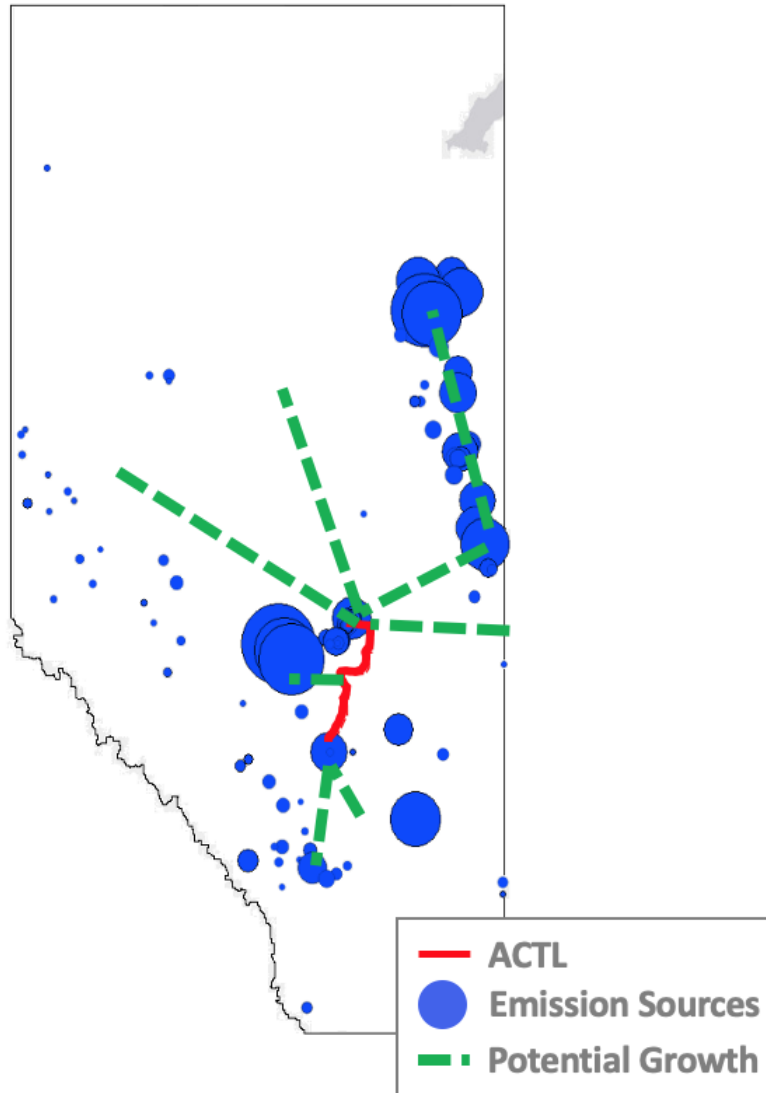
Located near large storage opportunities



- High pressure, open access pipeline
- Capacity of 14.6 MTPA
- Nearby suitable enhanced oil recovery fields and saline aquifer sequestration
- Provides emitters access to lower cost infrastructure for CO₂ sale or sequestration



Potential for significant growth



- Large emissions sources beyond immediate capture area
- Hub-and-Spoke configuration– Multiple Users
- Potential for system to grow to 1000's of kilometers of pipe
- Basis for world-class CO2 supply and demand system

Thank You

