



Shell Scotford

November 2021

Mark Pattenden

Senior Vice President, Shell Canada &
General Manager, Shell Scotford

 /ShellScotford

 @ShellScotford

WHO WE ARE

- Petrochemicals Plants, Refinery, Upgraders, & Quest Carbon Capture & Storage.
- Leader in low-carbon solutions and energy efficiency.
- 1,300 innovative Shell Canada employees.
- 400 long-term/embedded contractors.
- Thousands of short-duration contractors annually to support operations and maintenance, including Turnarounds.



SHELL ENERGY AND CHEMICALS PARK SCOTFORD

CANADA'S MOST ENERGY EFFICIENT REFINERY

LOW-CARBON PRODUCTS & PERFORMANCE CHEMICALS



LOW-CARBON
FUELS



BIO-FUELS
AND
HYDROGEN



LOW-CARBON
CHEMICALS

CARBON CAPTURE AND STORAGE

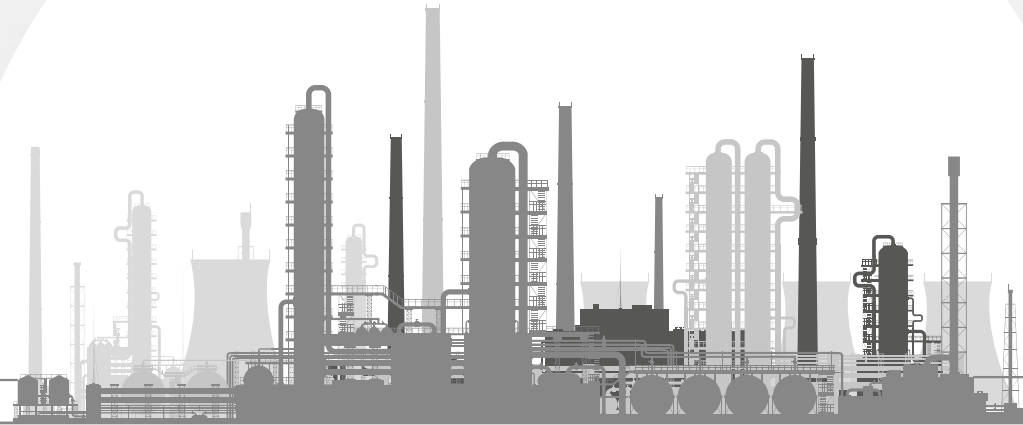
300M TONNES OF CO₂ STORAGE
CO₂ STORAGE HUB OPERATOR



2000m

CUSTOMER FOCUS

Delivering customer centric products from current and new value streams.
Bringing customers and assets together.



RENEWABLE FEEDSTOCKS



BIOMASS



WASTE
OILS/FATS

RENEWABLE POWER



MOVING TO RENEWABLE ENERGY SOURCES

Leveraging Alberta's other natural resources – long, sunny summer days.



- Installation of 14,600 solar panels is underway – we are closing in on 50 per cent installation with the expected completion in mid-November.
- The farm will produce 4.6 MW of power to the Chemicals plant.
- Displacing 3% of the electricity consumption, thereby reducing Scope 2 emissions and our site electricity supply costs.
- Exploring other solar opportunities

CCS AND PROPOSED CO₂ STORAGE HUB

QUEST CCS

Quest CCS captures and stores 1 million tonnes/yr CO₂ storage for the AOSP upgrader. Quest has captured more CO₂ than planned for less cost than anticipated.

POLARIS CCS

Shell is proposing Polaris CCS to capture about 750,000 tonnes/yr from Scotford refinery and chemicals.

PHASE 2 OF POLARIS

Will see the creation of a CO₂ storage hub for >10 million tonnes/yr storage. If built, it would provide CO₂ transport and storage on behalf of existing and new third-party emitters.



