



Shell Energy and Chemicals Park, Scotford

City of Fort Saskatchewan Council Update – January 2025

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Scotford: Producing vital energy products

- Refinery opened 1984
 - 114 kbpd
- Chemical plants - Styrene in 1984, Glycols in 2000
- Upgrader opened in 2003, expanded in 2011
 - 320 kbpd



SHELL ENERGY AND CHEMICALS PARK SCOTFORD

CANADA'S MOST ENERGY EFFICIENT REFINERY

CUSTOMER FOCUS

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

POTENTIAL FUTURE PRODUCTS & PERFORMANCE CHEMICALS



LOW-CARBON FUELS



BIO-FUELS AND HYDROGEN



LOW-CARBON CHEMICALS

CARBON CAPTURE AND STORAGE

Proven CO₂ capture and storage performance / leveraging strong geology



2000m

POTENTIAL FUTURE RENEWABLE FEEDSTOCKS



BIOMASS



WASTE OILS/FATS

RENEWABLE POWER



CCS AND CO₂ STORAGE HUBS

QUEST CCS

Quest CCS captures and stores about 1 million tonnes/yr CO₂ for the AOSP upgrader. Quest has captured more than 9 million tonnes of CO₂ since opening in 2015.

POLARIS Carbon Capture

Shell is building Polaris Carbon Capture to capture about 650,000 tonnes/yr from Scotford refinery and chemicals.

ATLAS CARBON STORAGE HUB

Will see the creation of a CO₂ storage hub (Shell/Atco). First phase will store CO₂ from Polaris. A future phase, if built, could provide CO₂ transport and storage on behalf of existing and new third-party emitters.

POWER GENERATION FACILITIES

OTHER HEAVY INDUSTRY SOURCES (PETROCHEMICALS, MANUFACTURING, CEMENT PRODUCTION, ETC.)

NEW THIRD-PARTY HYDROGEN FACILITIES

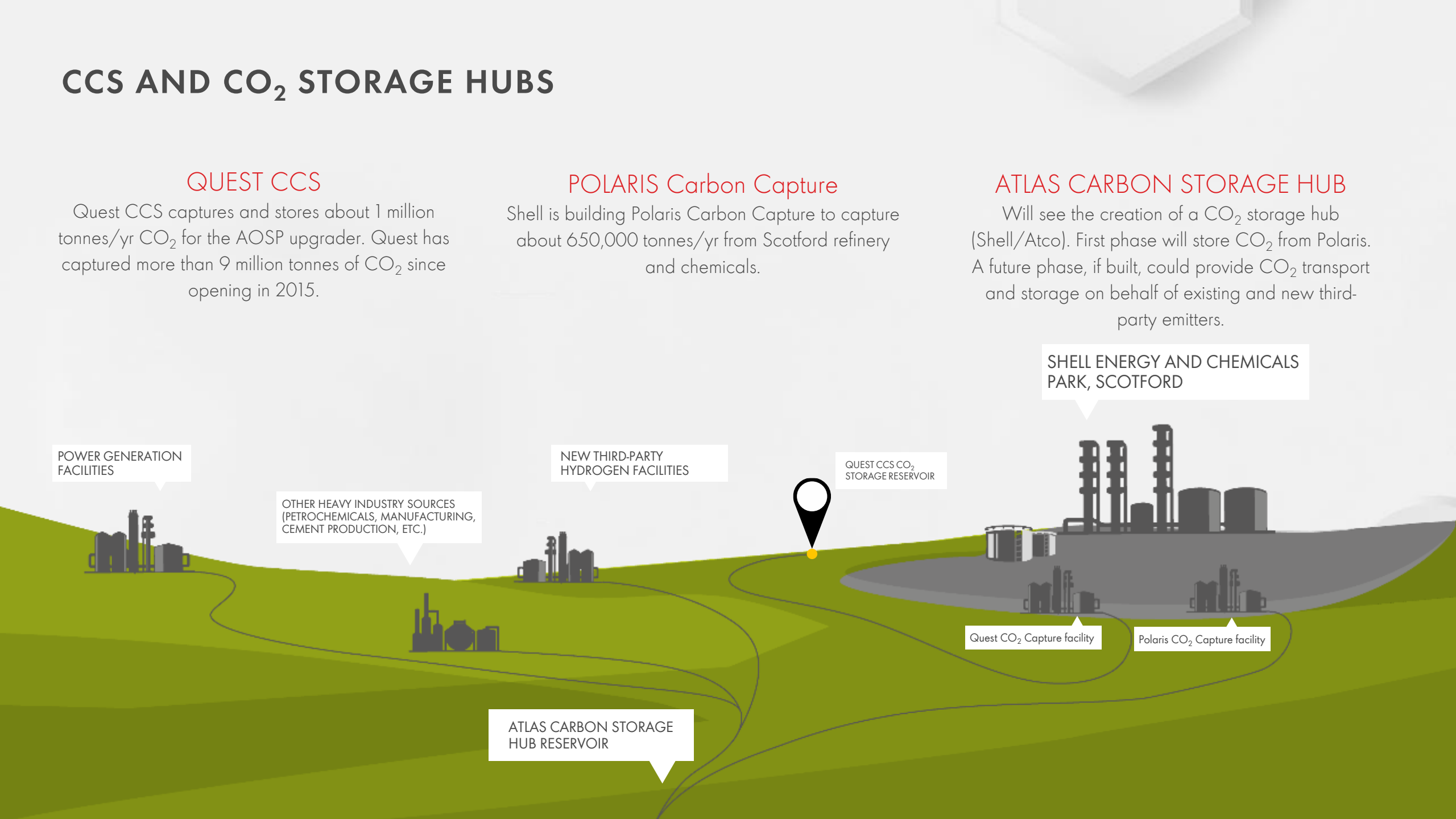
QUEST CCS CO₂ STORAGE RESERVOIR

SHELL ENERGY AND CHEMICALS PARK, SCOTFORD

Quest CO₂ Capture facility

Polaris CO₂ Capture facility

ATLAS CARBON STORAGE HUB RESERVOIR



Upcoming Scotford Activities

Polaris – Carbon Capture Facility

- Construction ongoing, operational in 2028
- Peak construction - 400 people – Q4 2025/Q1 2026

Atlas Carbon Sequestration Hub

- Carbon sequestration wells drilled nearby Josephburg
- Pipeline connecting to Polaris under construction

Upcoming Turnarounds

- Upgrader South Mega Turnaround - April - June
- MEG/Chemicals Turnaround – August – October





Investing in Our Community

Community Donations - \$565,000

- Women Building Future - Digital Literacy Program - \$350,000
- Mental Health Foundation – Kickstand Integrated Youth Service Programs - \$100,000
- NAIT – Jill of All Trades Program - \$75,000
- University of Alberta – DiscoverE Carbon Capture Boxes - \$30,000
- Regional community events, sponsorships and donations - \$10,000

