

# Hydrogen **Naturally** Inc.

Carbon-Negative **Bright Green™** Hydrogen



# Everything we talk about we have done before at large scale

## Founders with a track record



Developer of renewable biomass projects

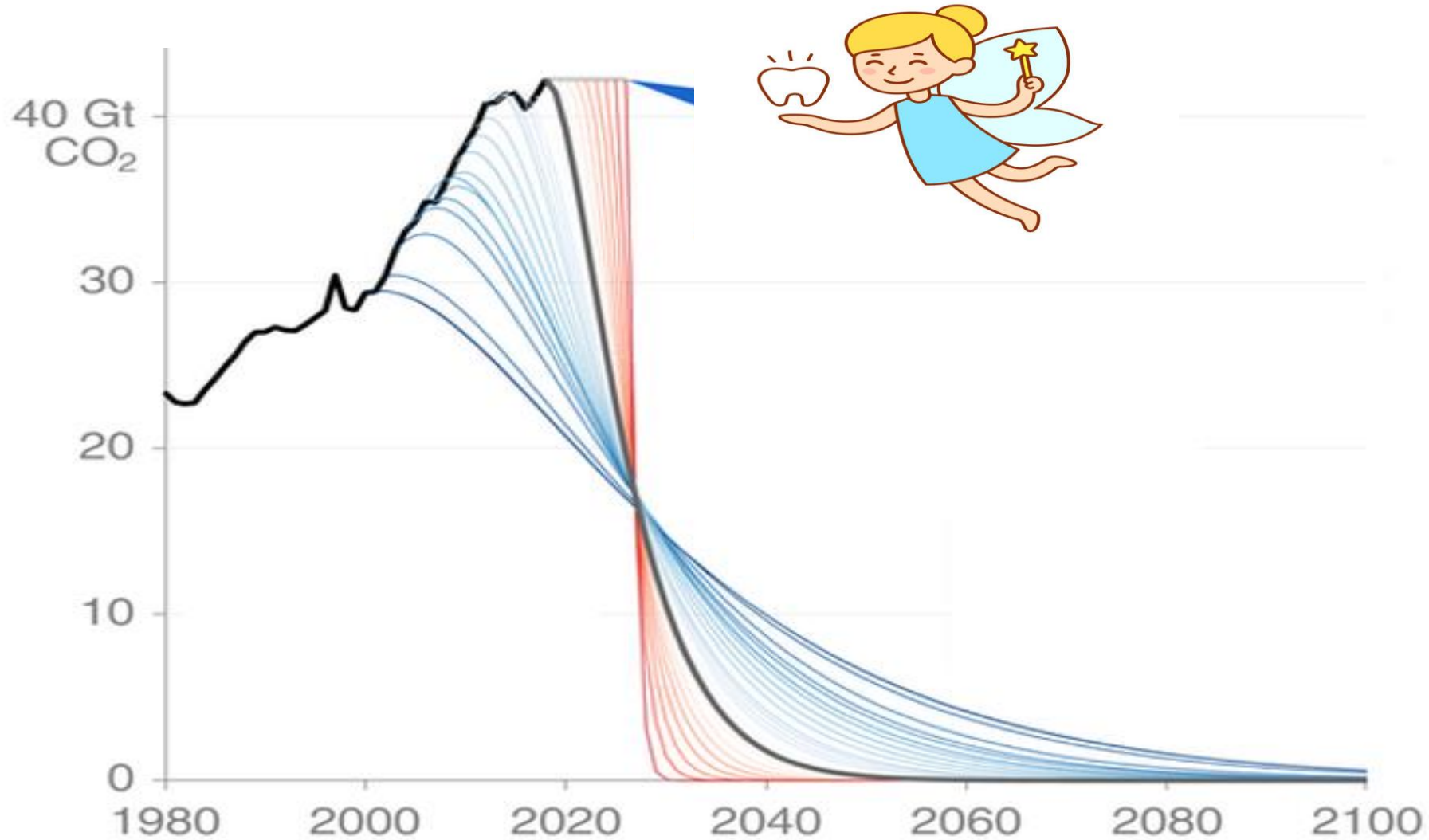


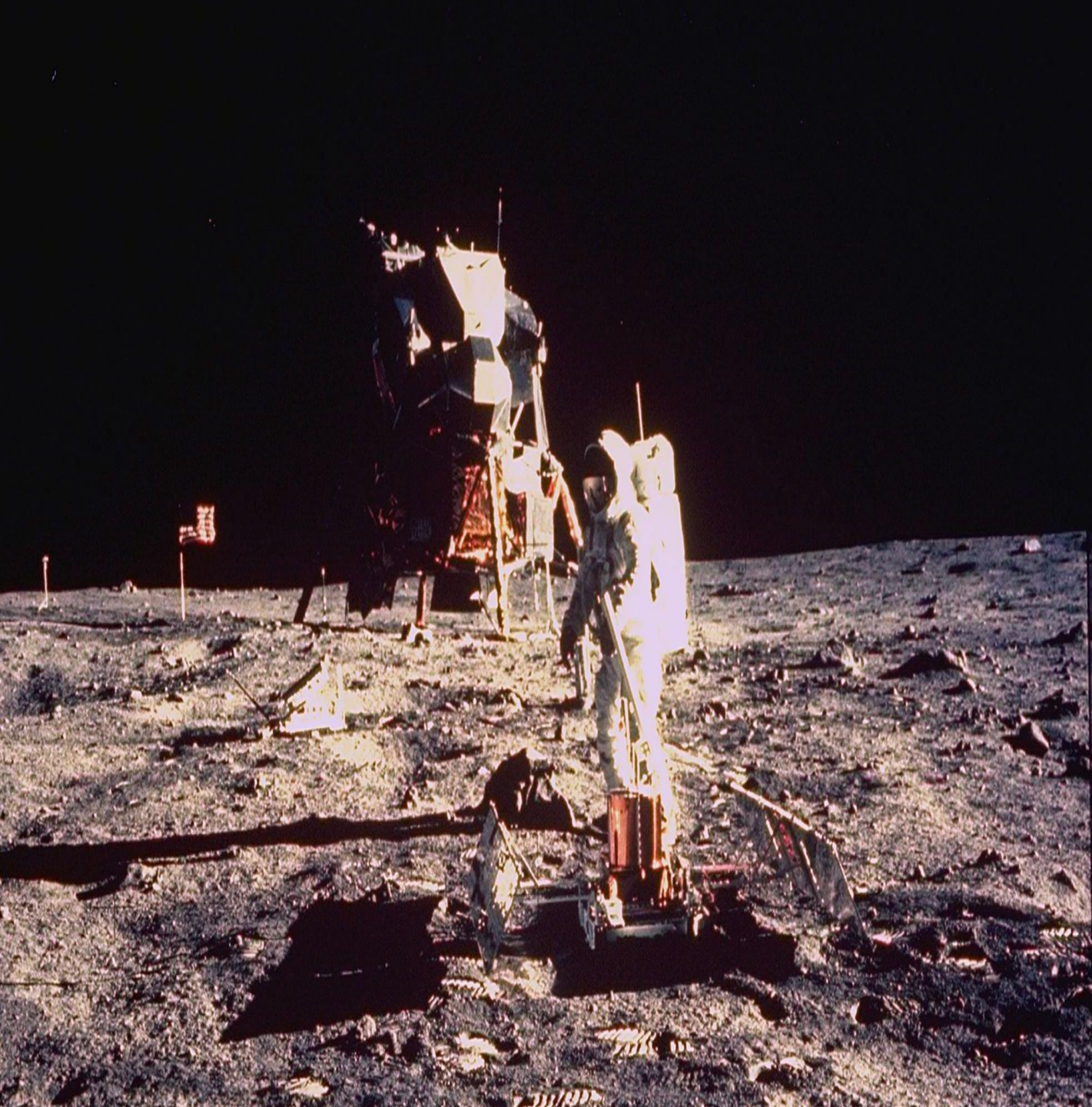
Environmental Infrastructure Builder

Doers not announcers



# Vertical CO<sub>2</sub> reductions required to meet 2° goal



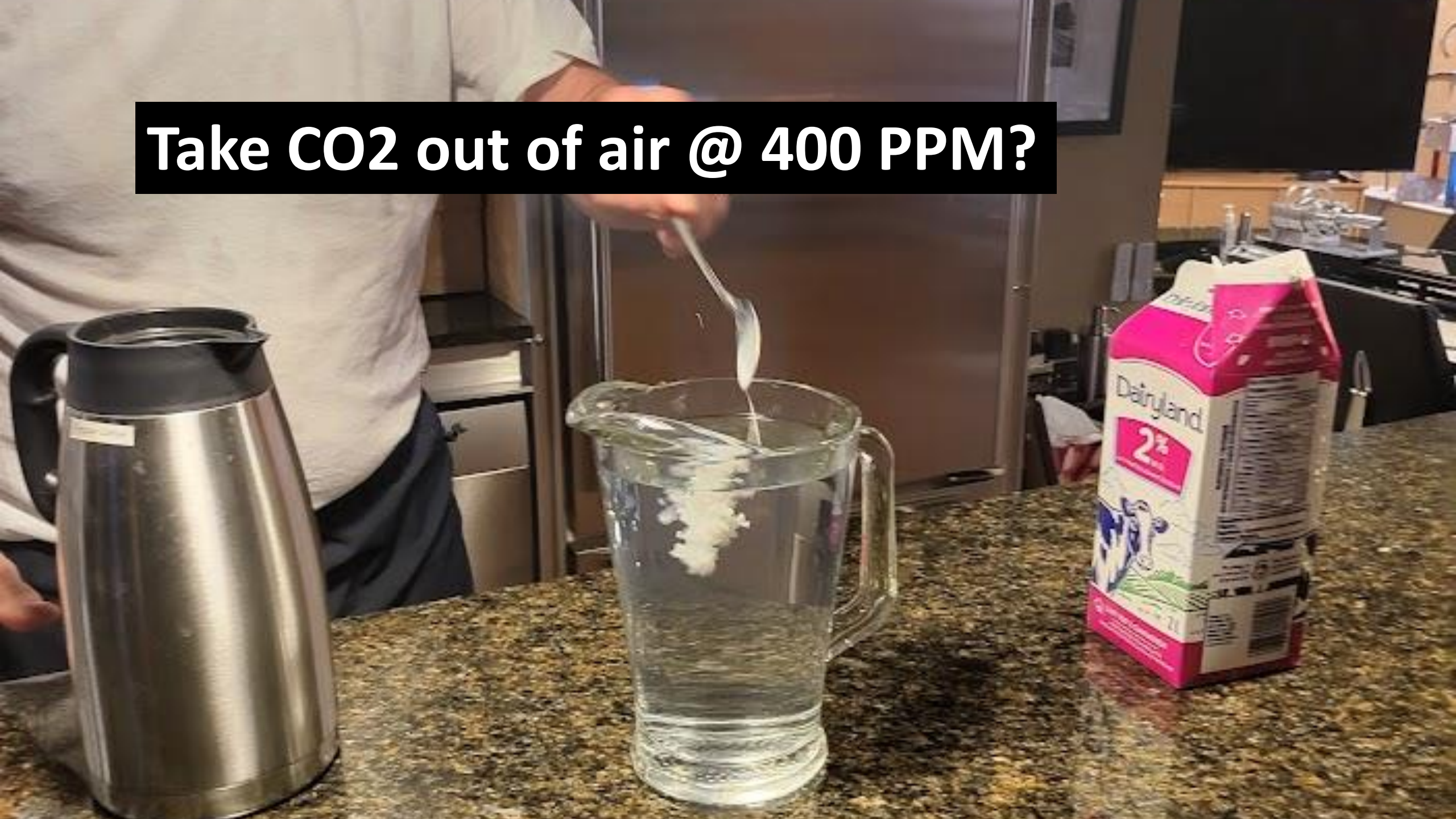


**SHAKE UP**

***DISRUPT!***

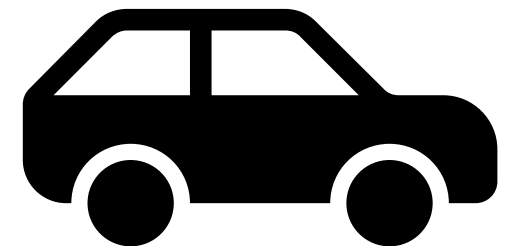
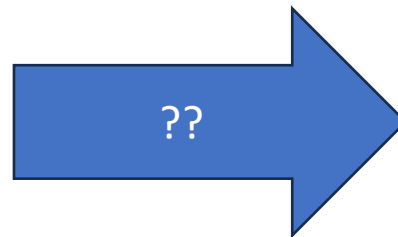
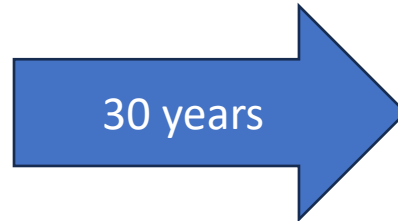
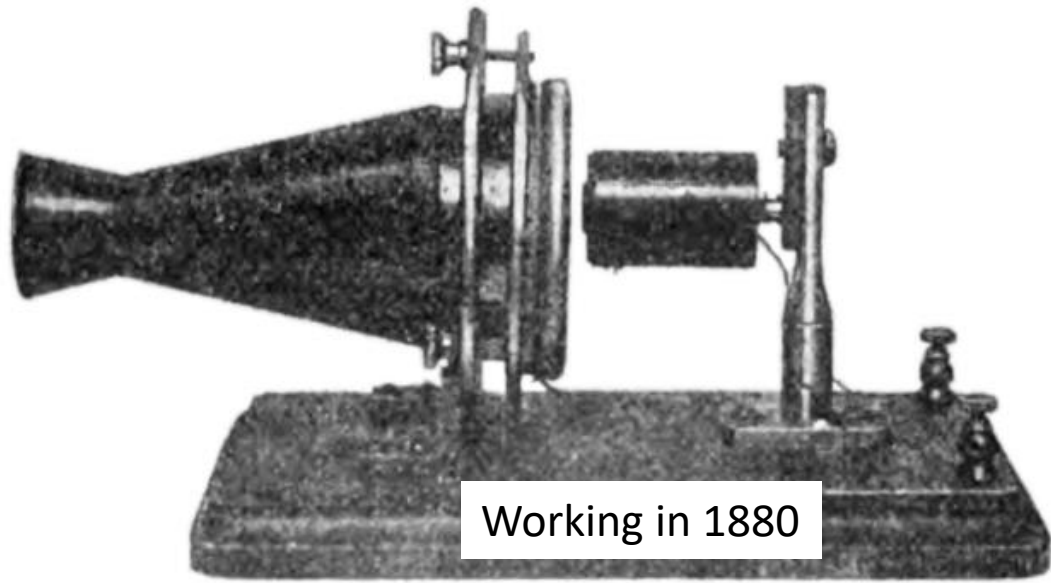


Take CO2 out of air @ 400 PPM?



# Carbon Collector Science Exhibition





~50,000 scale up



JULY 1957

35 CENTS

# POPULAR MECHANICS

MAGAZINE

WRITTEN SO YOU CAN UNDERSTAND IT



## HILLER'S AERIAL SEDAN

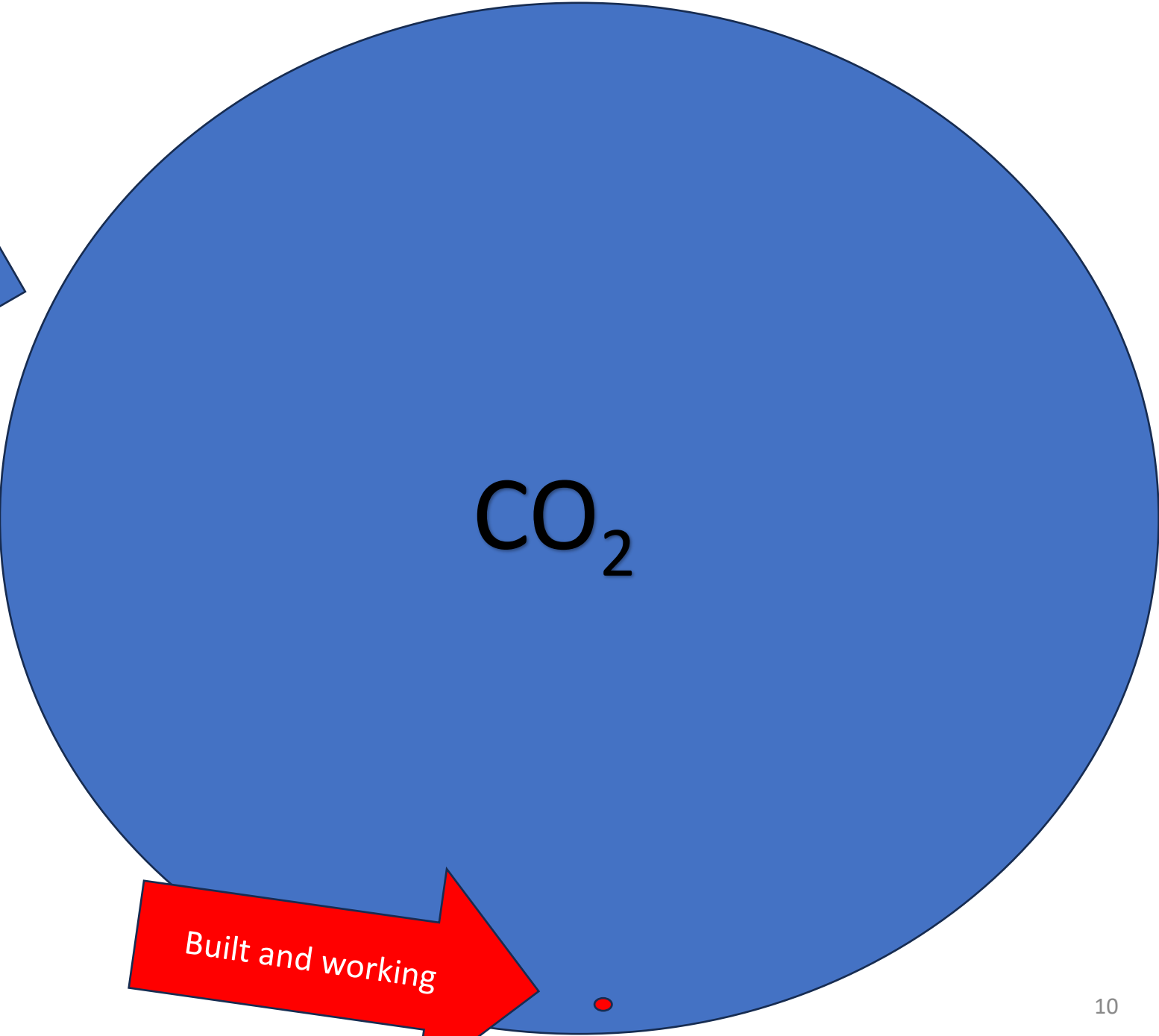
*—your flying car for 1967—page 74*

Stand by for Satellite Take-Off!

**Owners Report: OLDSMOBILE**

HOW TO OUTSMART HOUSEBREAKERS

Announcements



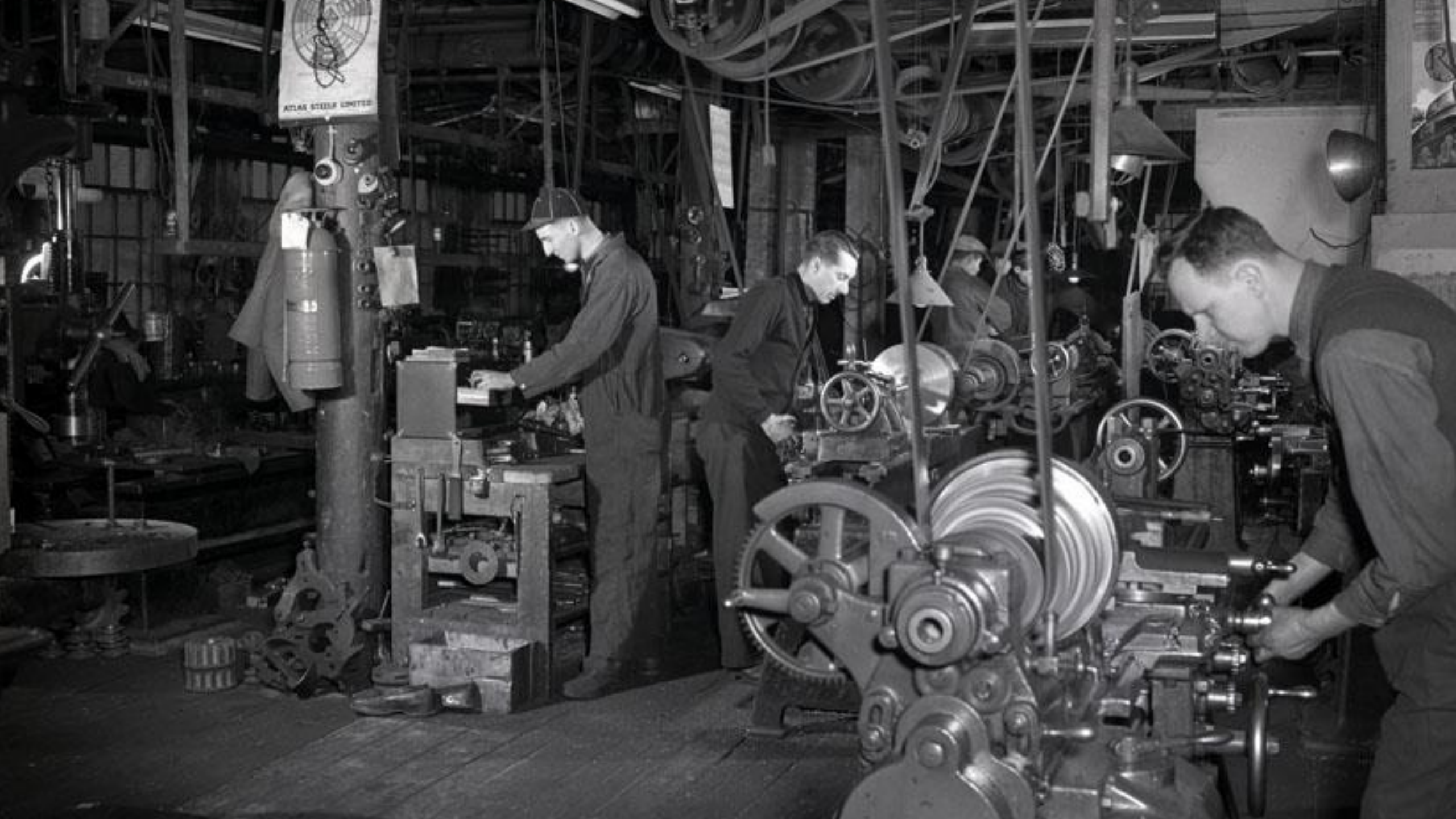
Built and working



A scenic landscape featuring a range of rugged, rocky mountains with patches of snow, reflected in a calm, clear lake. The foreground shows a dense forest of evergreen trees along the shoreline. The sky is a clear, bright blue.

# North West Capital

Merit of an idea is measured by action taken







CARD PUNCH

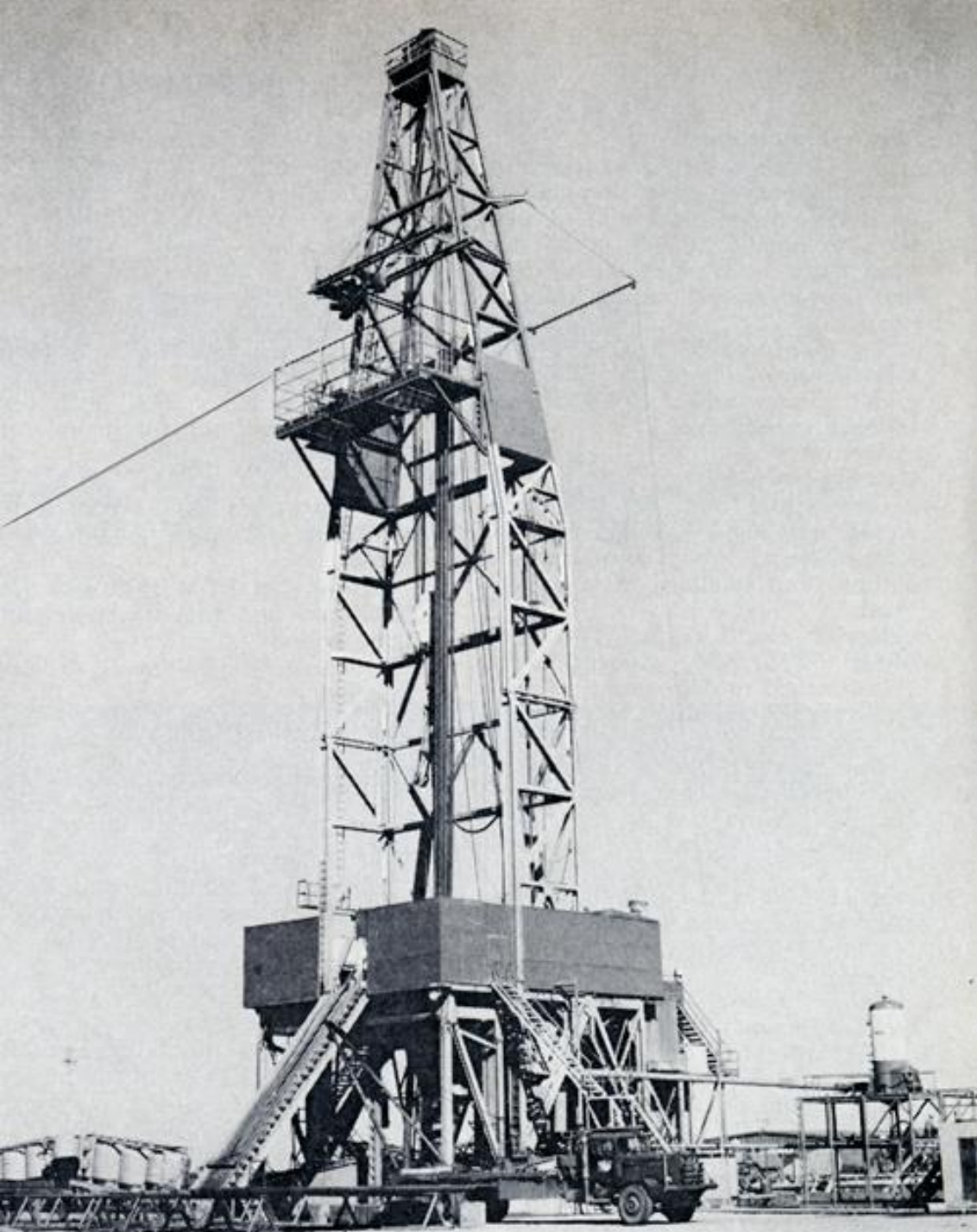




























**CO<sub>2</sub>: 40 M Tonnes**  
**Oil: 150 M bbls**



Calgary









calgary health region

Enoch's Hospital



Entrance





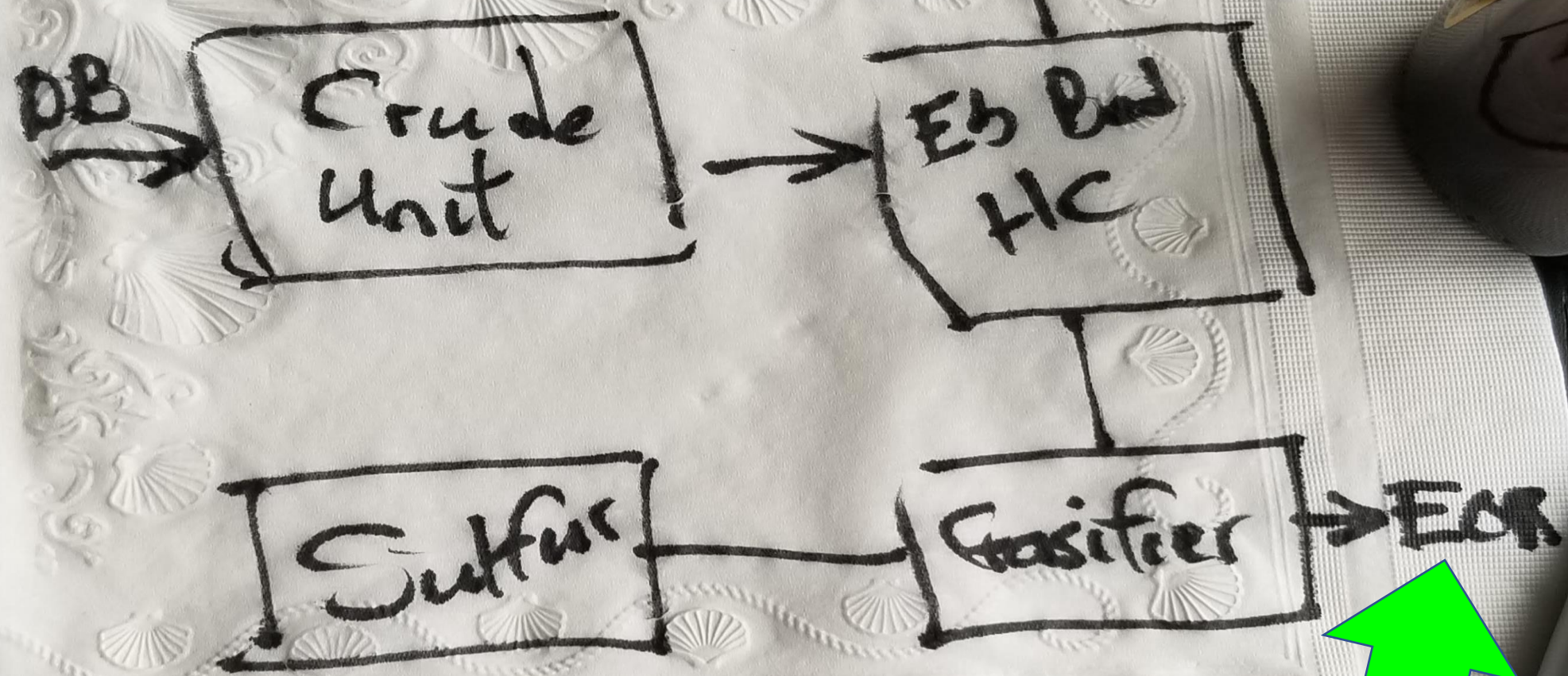
**Announcements**

# 50 years of Diversification in Alberta

**Built and  
working**



12/10/2004



Refinery Kit







**15 Million Tonnes/yr**  
**World's Largest Operational System for Manmade CO<sub>2</sub>**







# Essential elements of CCS

1. Pure CO<sub>2</sub>

2. Pipeline to move it

3. Reservoir to put it permanently

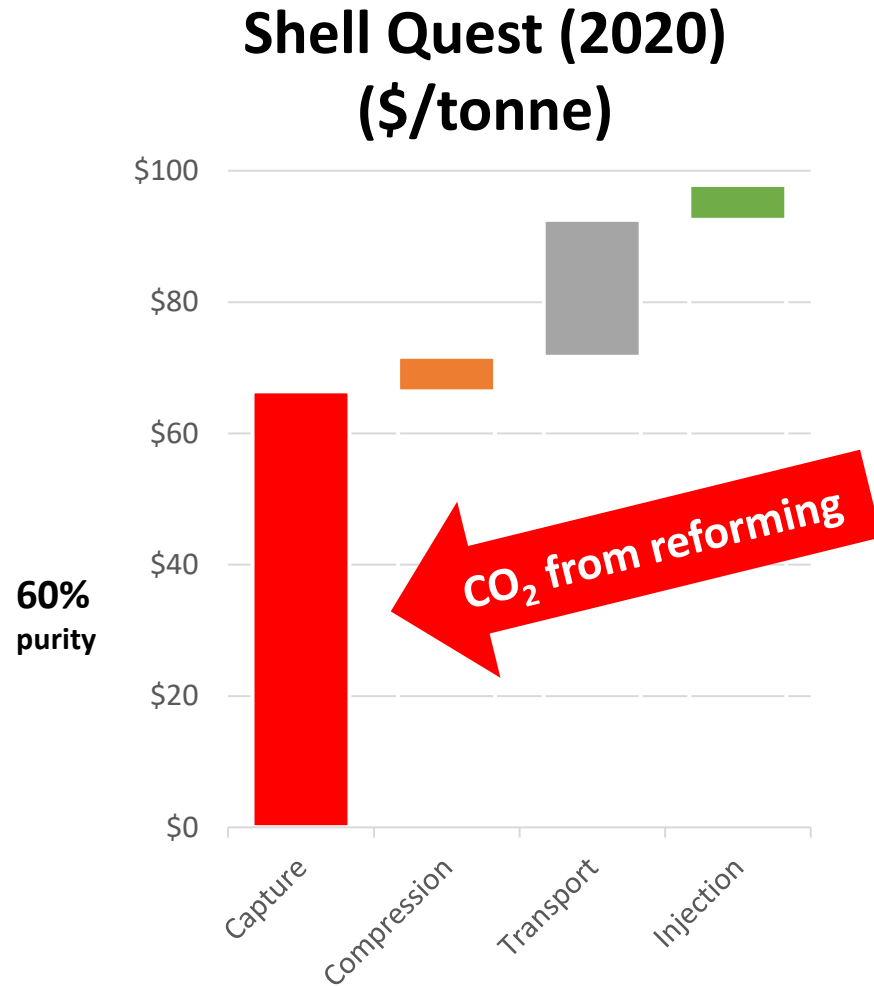


World's  
largest blue  
H<sub>2</sub> plant

Gasification is tough: **Why bother?**

Sequestration ready CO<sub>2</sub> and H<sub>2</sub>

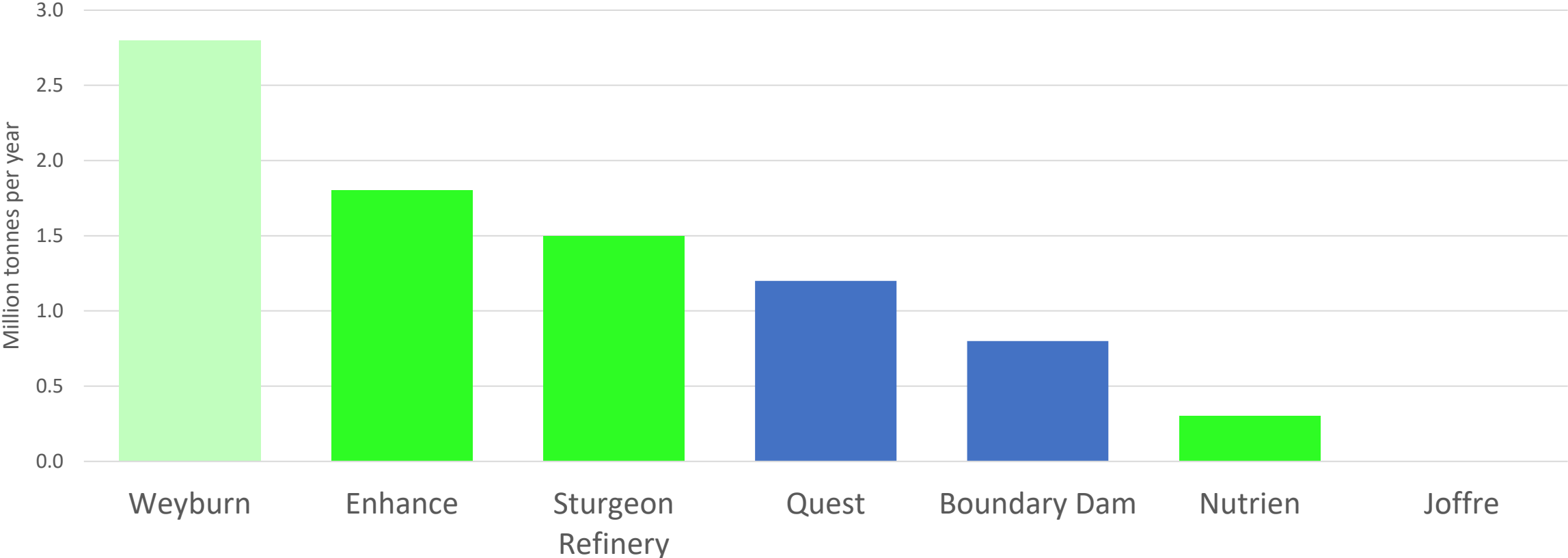
# CCS is expensive, gasification reduces costs



**>4 million T**



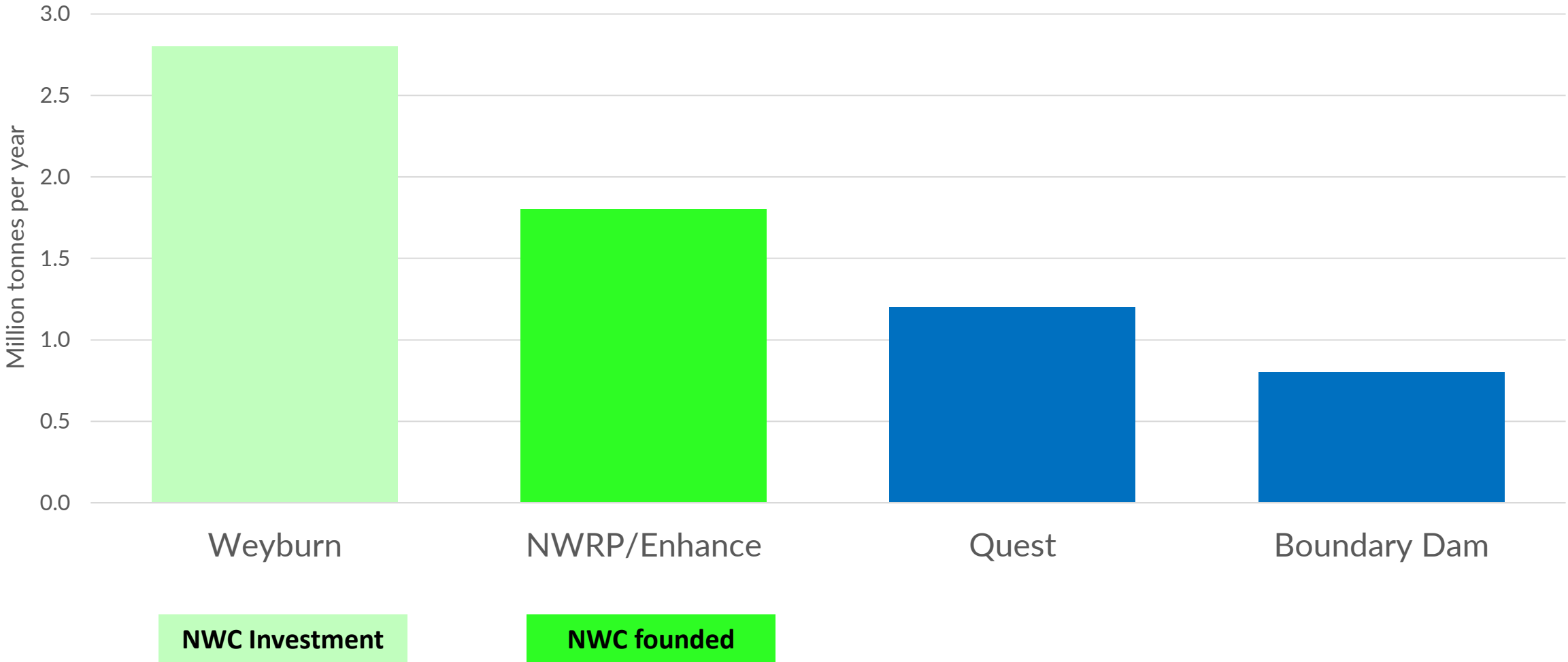
# NWC CCS experience >20 years as inventor, builder and owner



**NWC founded and had built the Alberta Carbon Trunk Line, a 15 million tonne per annum CO<sub>2</sub> transportation system**

**NWC founded**      **NWC Investment**

# NWC and CCS: Weyburn+Enhance= 4.5 MT/yr (10% of world total)







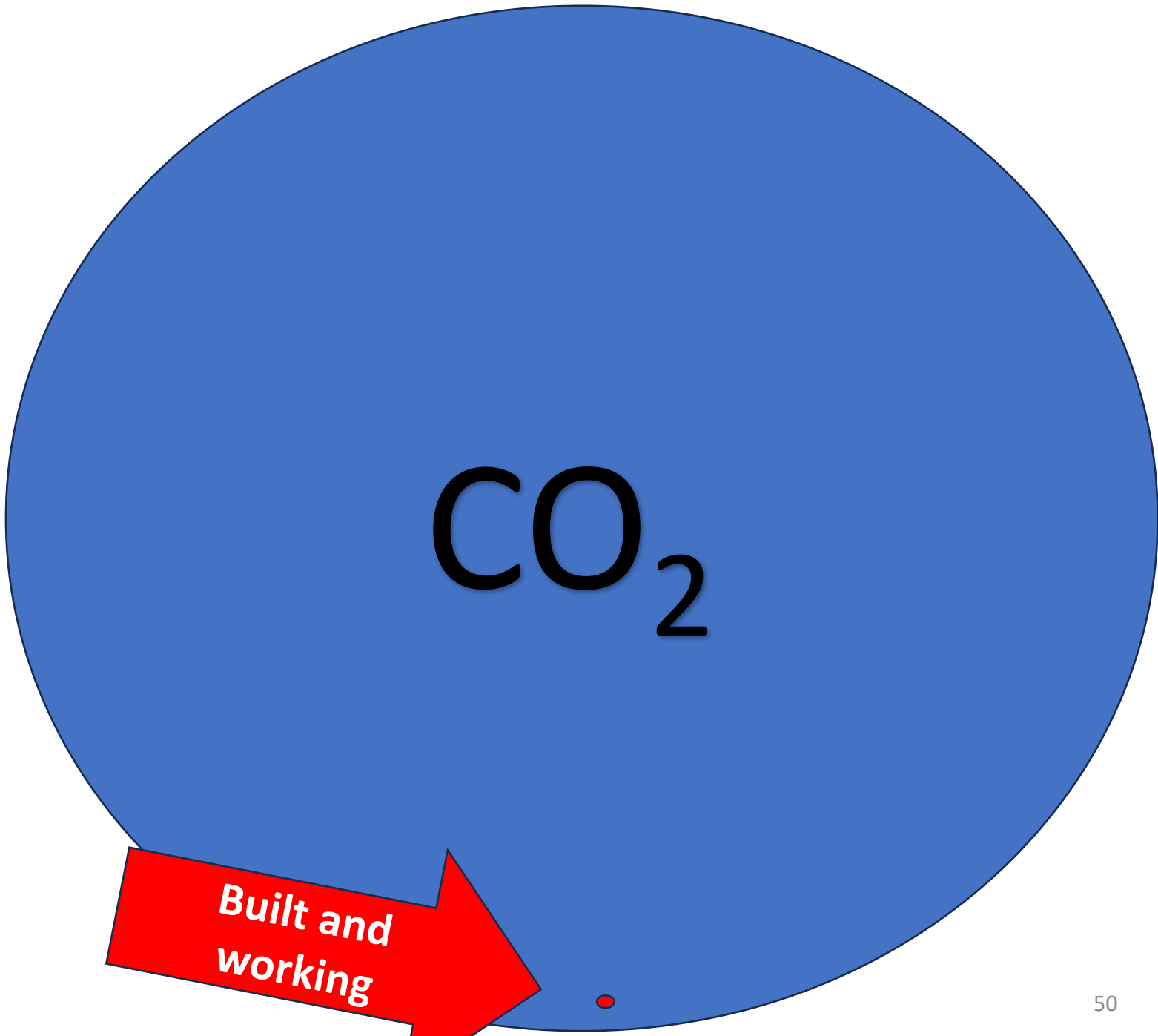


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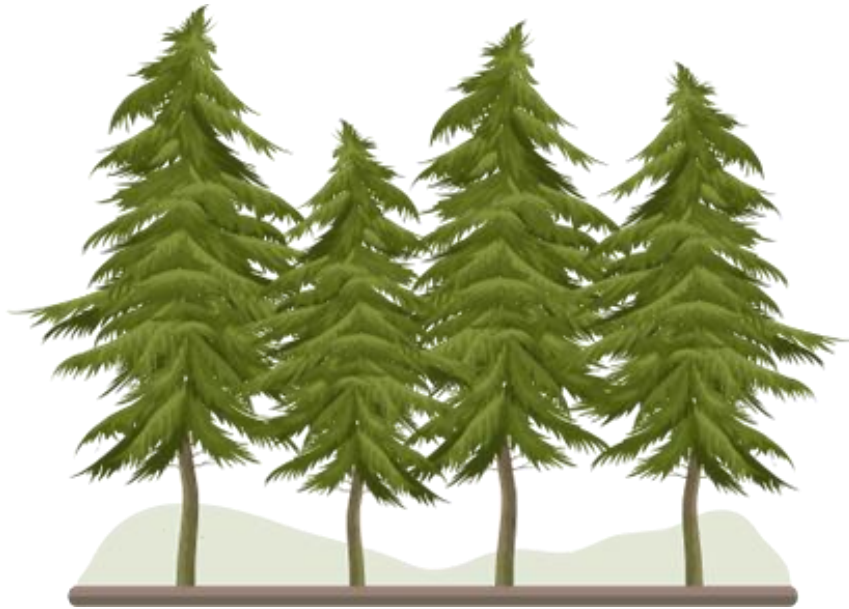
**Announcements**



**Built and working**



# Business Plan:



Temporary Carbon Storage



# return of CO<sub>2</sub>



# Don't waste the carbon capture work of our forests

## Gasify wood waste, make H<sub>2</sub>, sequester CO<sub>2</sub>

1. No moon shots
2. \$100/tonne
3. Financeable
4. Reconciliation: Good jobs where needed

TEAM

# BIOMASS, TECHNOLOGY and CCS



**Brian Fehr - Co-Chairman**

BFG Founder; diversified portfolio of innovative businesses in the forestry, construction and renewable sectors. Chairman Emeritus of the BID group, a \$bn wood processing and technology company that he founded and built. Order of BC recipient for commitment to rural growth and sustainability of the forest industry.



**Chris O'Neill - Advisor**

25+ year technology leader, including 10 as executive at Google; 2-time Fortune 500 BoD member (Tim Hortons, Gap Inc.); CEO and Chairman of Evernote, CGO of Xero Inc.



**Brett Jackson - President**

Founder of Cenairus; engineering and manufacturer of complex steel forms and machinery for the precast market. Twin projects ltd. Founder; developer and manufacturer of gasification systems for use in heavy residual to hydrogen production.



**Stuart Primrose - Chief Financial Officer**

Partner at North West Capital. Finance professional whose background includes deal sourcing, commercial structuring, investment execution corporate finance. Founder of Qube Technologies; Using AI to detect, measure and reduce GHGs.



**Ian MacGregor - Executive Chairman**

Founder of North West Refining and the Sturgeon Refinery; a \$10bn startup incorporating the worlds largest blue hydrogen plant. Founder of Enhance Energy; builder of world's largest operational CO<sub>2</sub> EOR and CCS system. Founder of North West Capital, a private investment company.



**Larry Vadori - Senior VP, Chief Technology Officer**

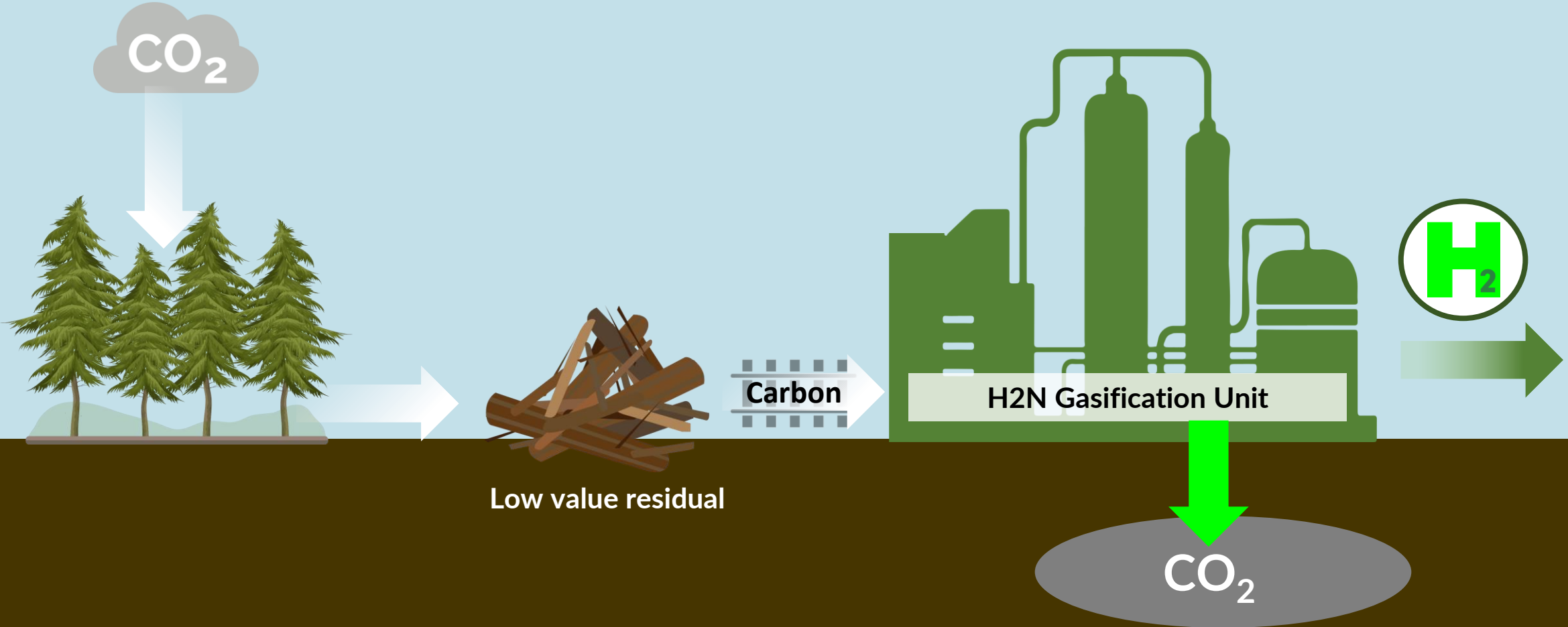
Former Senior VP Operations and Development for North West Redwater Partnership, overseeing the Sturgeon refinery operation. 30-year Shell Canada career, including Shell Scotford Refinery complex General Manager.



**David Nikolejsin - VP External Relations**

7-year B.C Deputy Minister tenure responsible for mining, BC Hydro, independent power producers, oil, natural gas and pipeline affairs. LNG Canada Project Government FID process leader; largest private sector investment in Canadian history.

# Air Capture+CCS = carbon-negative **Bright Green H<sub>2</sub>**



# Negative emission Bright Green™ hydrogen

GREY HYDROGEN

90+ g CO<sub>2</sub>e/MJ

25+ g CO<sub>2</sub>e/MJ

BLUE HYDROGEN

0 - 10 g CO<sub>2</sub>e/MJ

100% Renewable Power

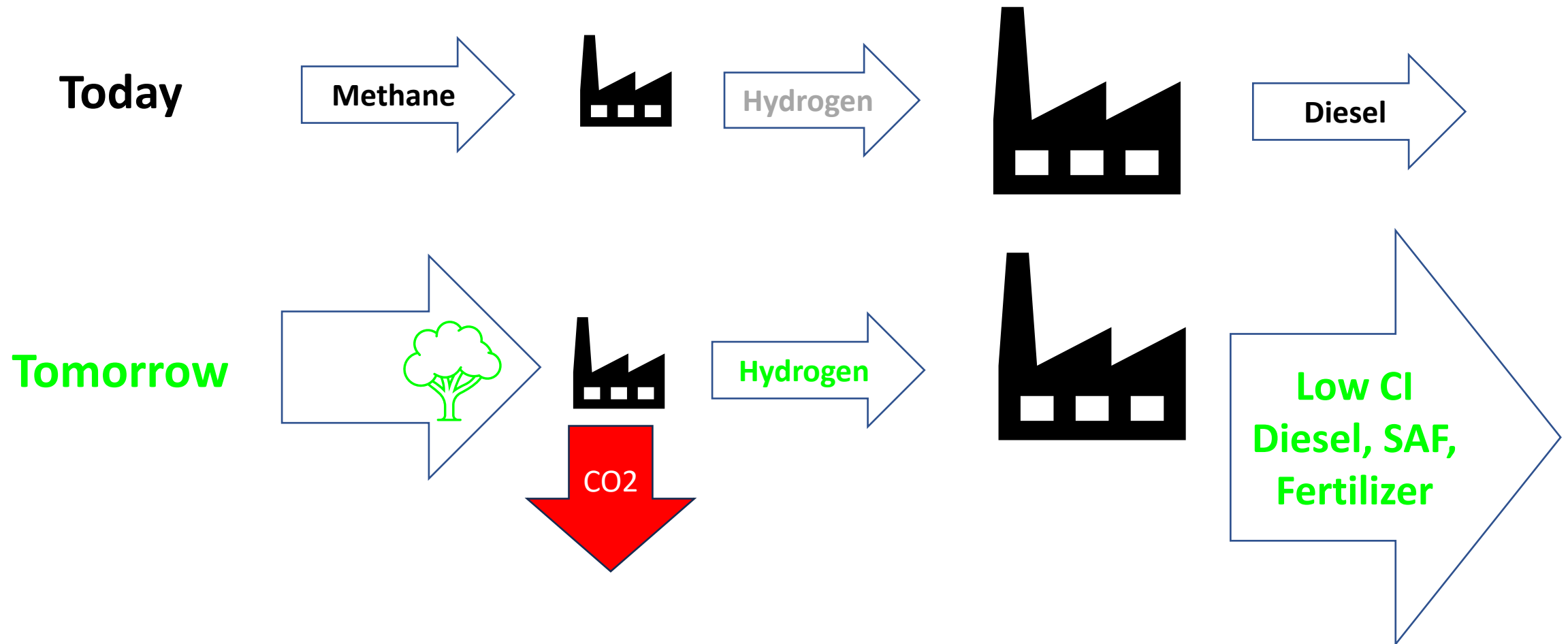
GREEN HYDROGEN

**-150** g CO<sub>2</sub>e/MJ

H<sub>2</sub>N BRIGHT GREEN  
HYDROGEN

**CARBON-NEGATIVE H<sub>2</sub>**

# Use **H<sub>2</sub>** to decarbonize **NOW**



**Now** no waiting for new H<sub>2</sub> infrastructure



# Decarbonization at scale with existing infrastructure



A large pile of logs is burning in a forest. The fire is intense, with bright orange and yellow flames rising from the logs. The background shows a clear blue sky and several evergreen trees. The word "Feedstock" is overlaid in the center of the image in a large, bold, green font.

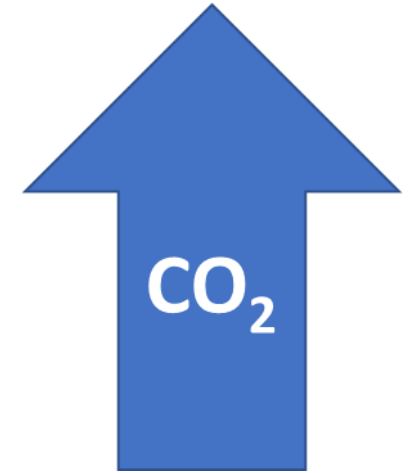
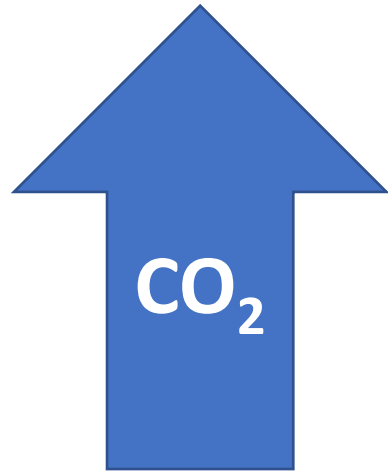
# Feedstock

# Canada's vast carbon capture resource

60M tonnes/yr of CO<sub>2</sub> return to atmosphere



40M tonnes/yr of CO<sub>2</sub> return to atmosphere



Pulp or combustion

Burnt or rots

# New Source of Feedstock High Hazard Wood Waste

2023 alone = .5 GT of CO<sub>2</sub>



# High Hazard Wood Waste

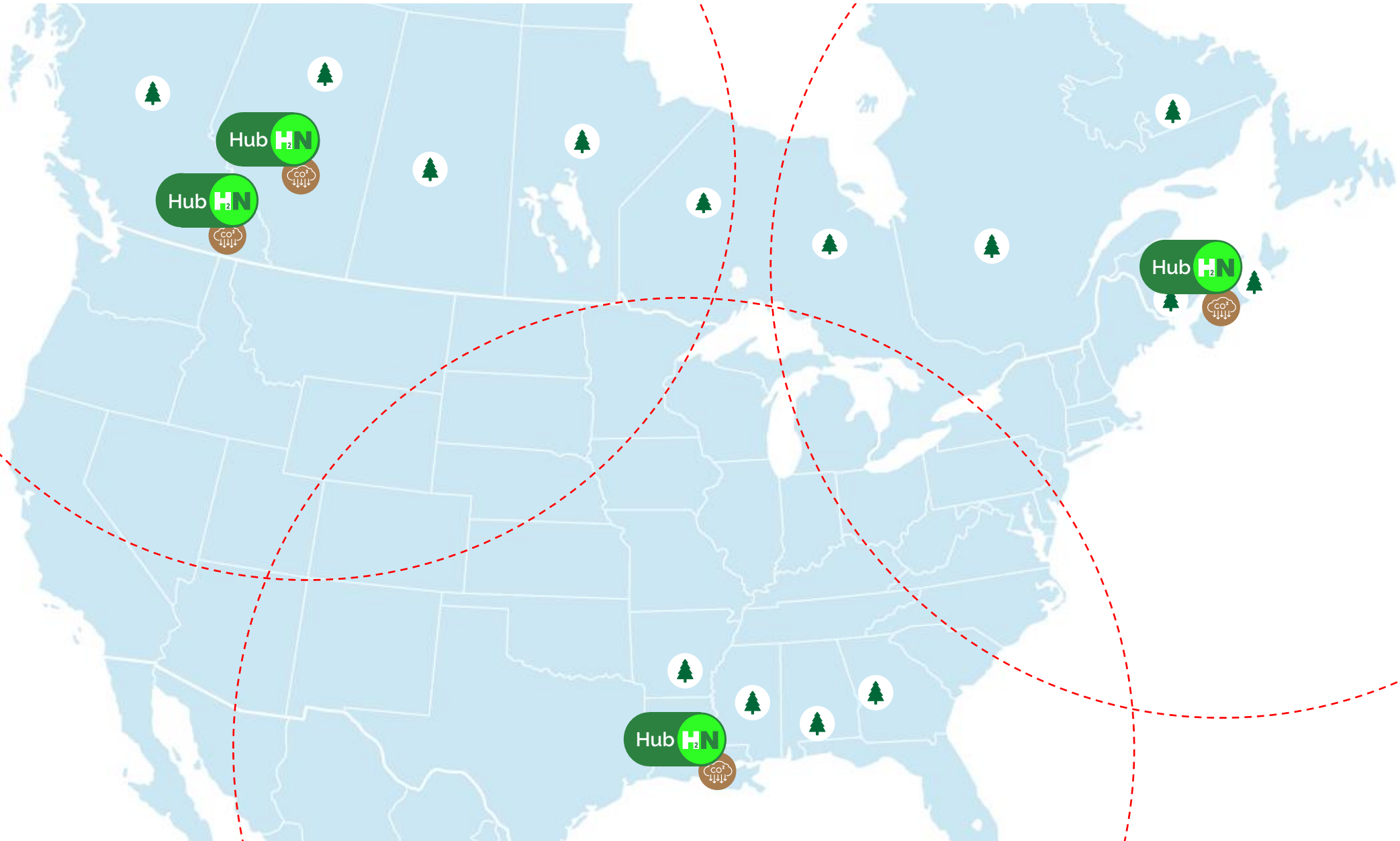
A photograph of a forest landscape. In the foreground and middle ground, there are several young, healthy green pine trees. Interspersed among them are many dead, skeletal trees with dark, charred trunks and bare branches, representing high hazard wood waste. The background shows a dense forest of taller trees on a hillside under an overcast sky.

1. Slow regrowth
2. Carbon returns to the air
3. Fuel for the next fire



**Ultimately H<sub>2</sub>N replaces Pulp: CO<sub>2</sub> is more valuable than cardboard**

# Develop 4-10 H2N Hubs in North America



# Reconciliation: New Durable Jobs where needed



**9,000 Forestry jobs per Hub**



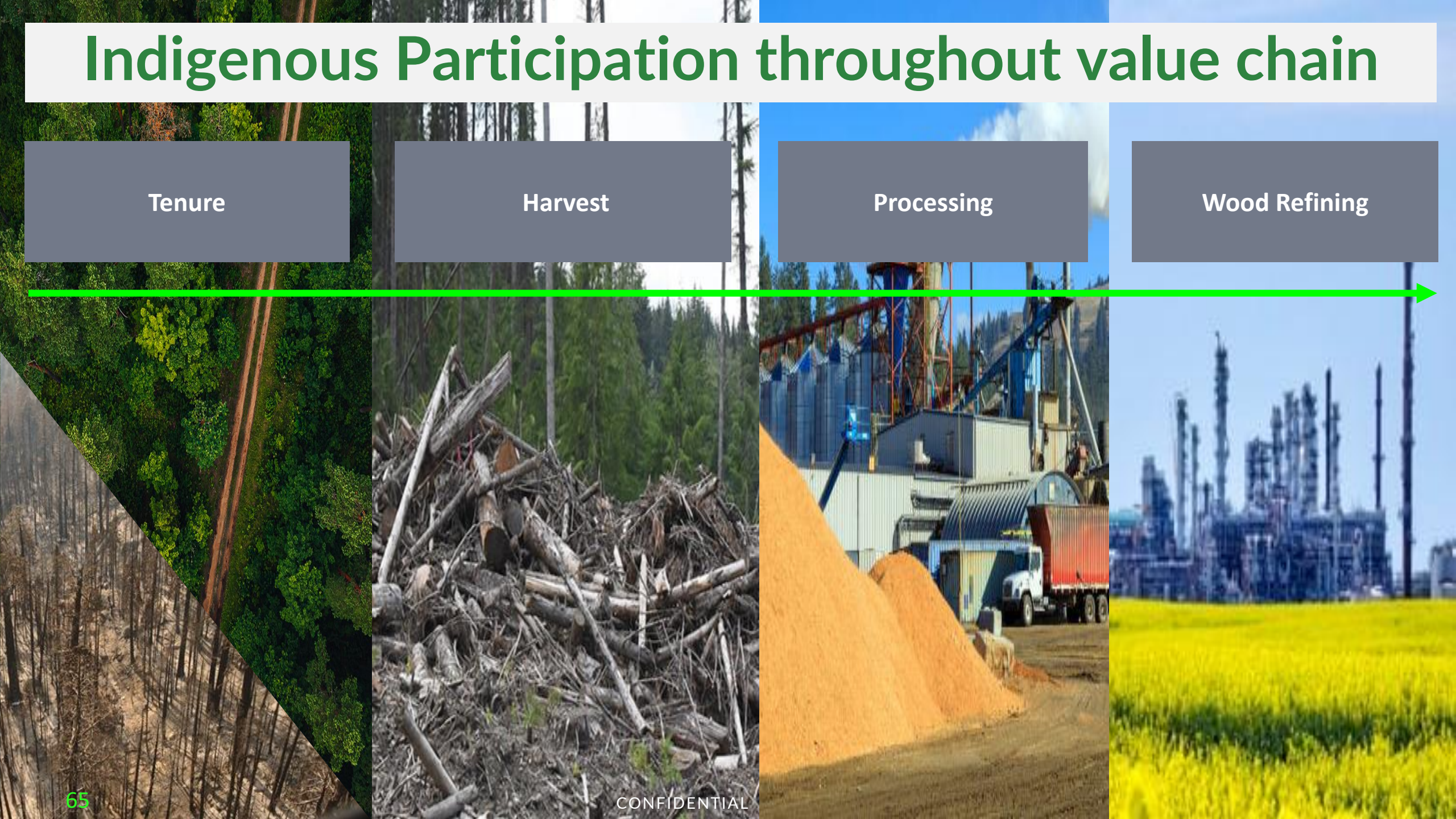
# Indigenous Participation throughout value chain

Tenure

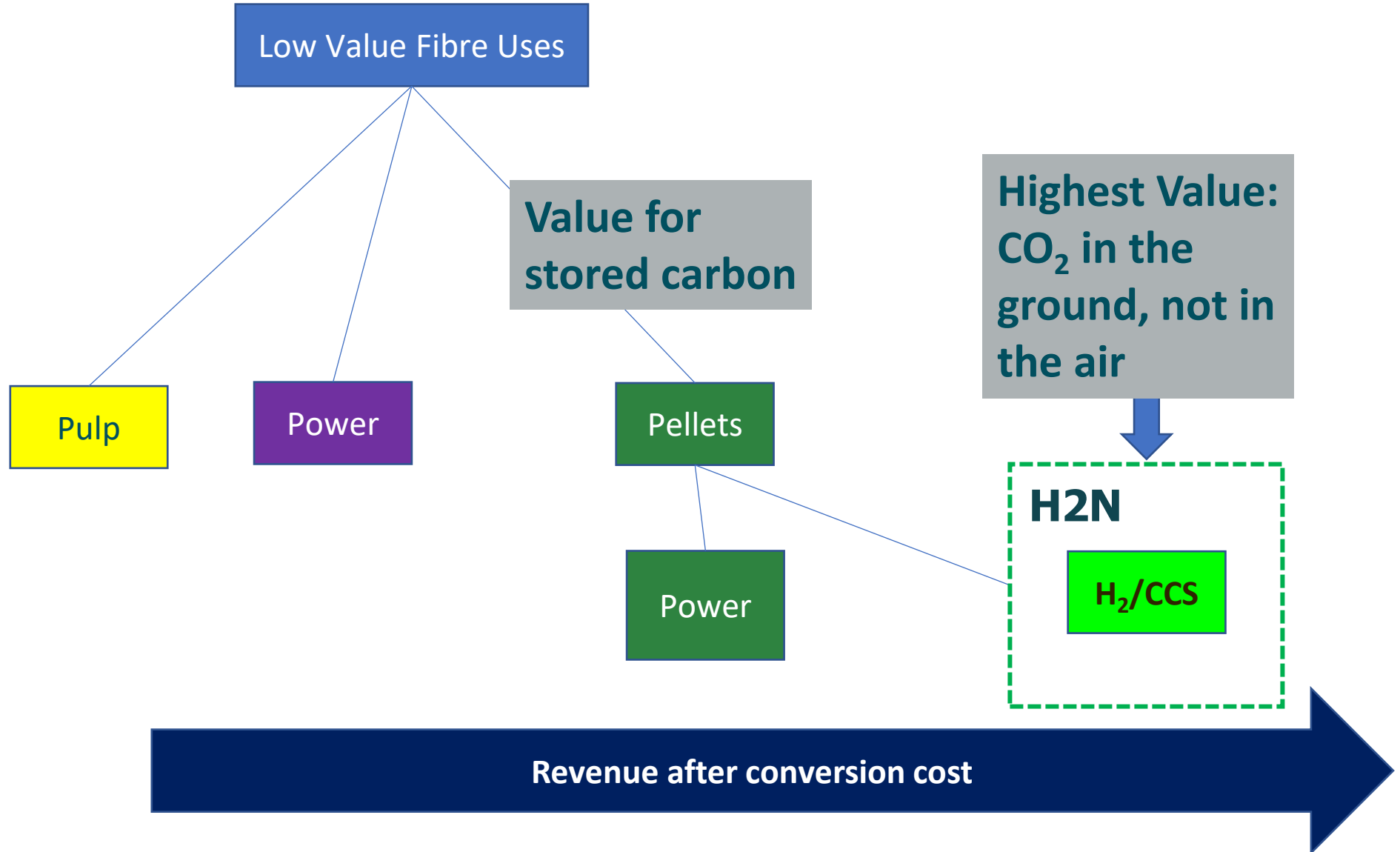
Harvest

Processing

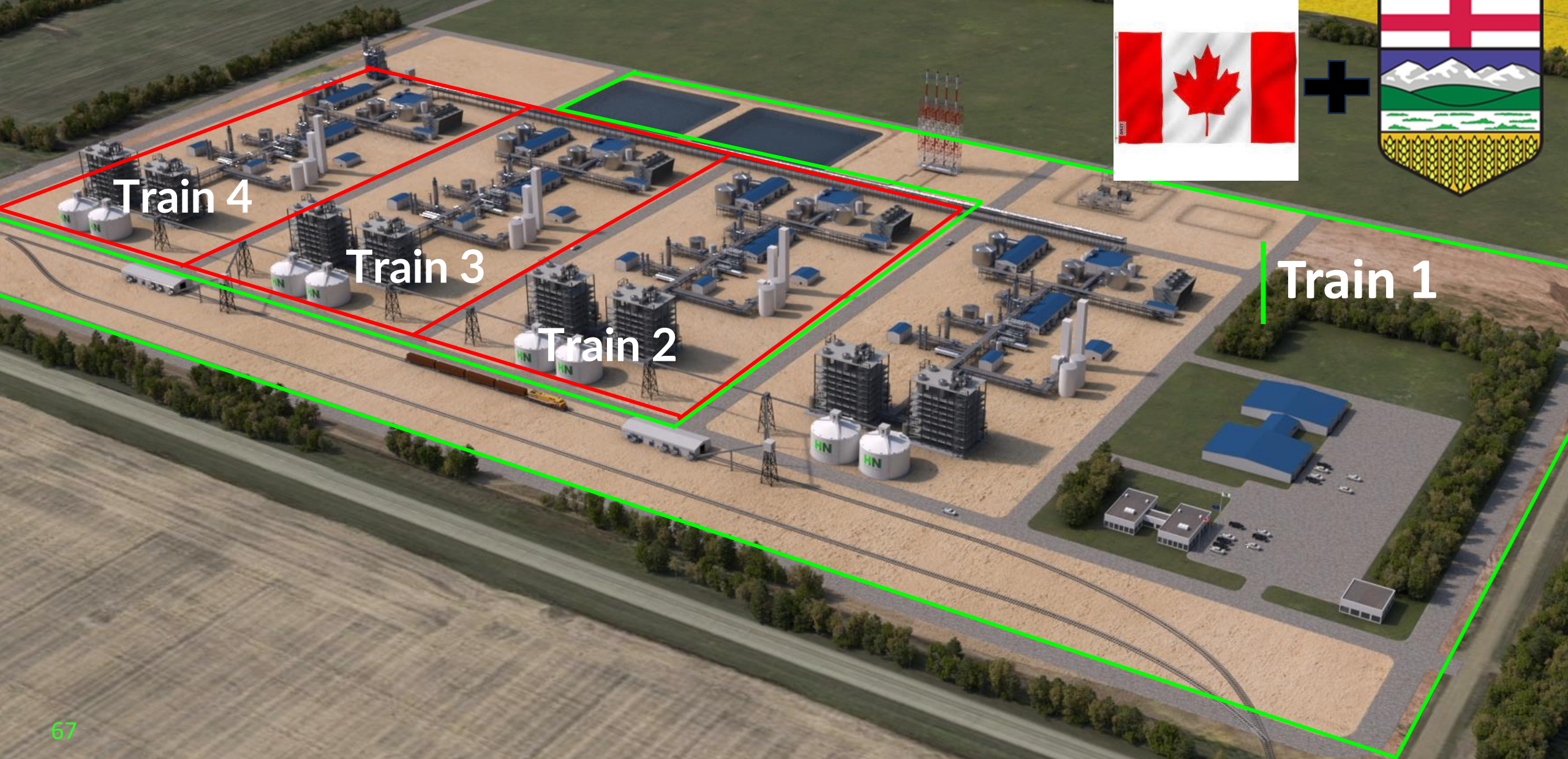
Wood Refining



# Replace Canada's Declining Pulp Industry



# First H2N in Alberta's Industrial Heartland



Train 4

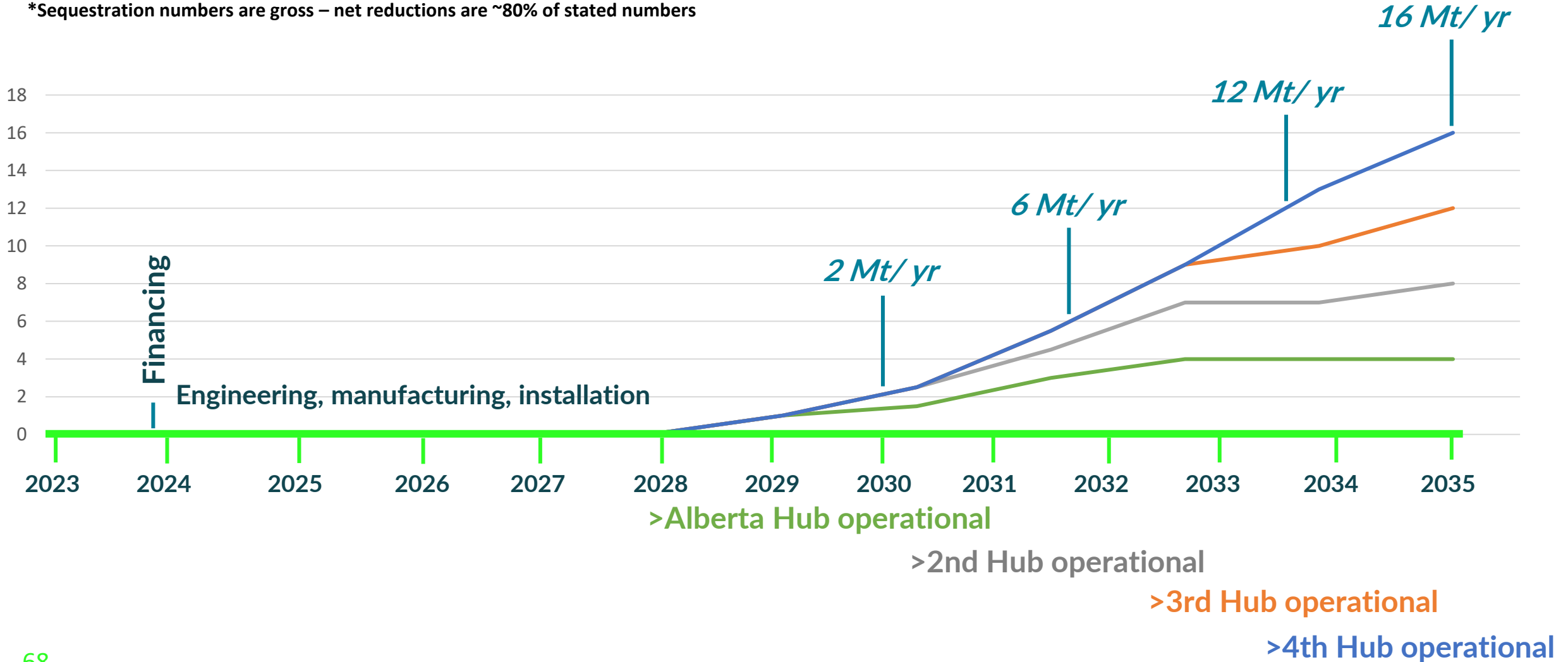
Train 3

Train 2

Train 1

# CO<sub>2</sub> removed from the air annually

\*Sequestration numbers are gross – net reductions are ~80% of stated numbers



# A new manufacturing industry

- Pre packaged production trains



Cost  
\$\$

- 4 trains/Hub, 4-10 Hubs in NA

- 5,000 skilled person years/train

**GM employs ~5,000 people in Canada**

**1 Hub = 4 yrs GM**



**35,000 person  
years**



**Now**

✓ **Team  
Site  
Engineering  
Offtake MOU  
ITC's?**

**Scaling Up**



**Brett**

JULY 1957

35 CENTS

# POPULAR MECHANICS MAGAZINE

WRITTEN SO YOU CAN UNDERSTAND IT



# Canada's Choice?