

SPECTRUM

CORPORATE PRESENTATION

DISCLAIMER

This Presentation contains forward-looking statements that relate to SpectrumH2 Ltd. (“**SpectrumH2**” or the “**Corporation**”)) current expectations and views of future events.

In some cases, these forward-looking statements can be identified by words or phrases such as “may”, “might”, “will”, “expect”, “anticipate”, “estimate”, “intend”, “plan”, “indicate”, “seek”, “believe”, “predict” or “likely”, or the negative of these terms, or other similar expressions intended to identify forward-looking statements. The Corporation has based these forward-looking statements on its current expectations and projections about future events and financial trends that it believes might affect its financial condition, results of operations, business strategy and financial needs. These forward-looking statements may include, among other things, statements relating to the Corporation’s expectations regarding its estimated revenue; gross margin; cash operating costs; adjusted EBITDA; product cost reductions; liquidity; market size and growth projections; customer value propositions; and expected sales and product shipments. The Corporation’s expectations regarding its anticipated cash needs and its needs for additional financing; the Corporation’s intention and ability to grow the business and its operations; including its ability to complete offtake agreements; expectations regarding our growth rates, plans and strategies; and the Corporation’s expected business objectives for the next twelve months.

Forward-looking statements are based on certain assumptions and analyses made by the Corporation in light of the experience and perception of historical trends, current conditions and expected future developments and other factors it believes are appropriate and are subject to risks and uncertainties. In making the forward looking statements included in this Presentation, the Corporation has made various material assumptions, including but not limited to (i) obtaining the necessary regulatory approvals; (ii) general business and economic conditions; (iii) the Corporation’s ability to successfully execute its plans and intentions; (iv) the availability of financing on reasonable terms; (v) the Corporation’s ability to attract and retain skilled staff; (vi) market competition; (vii) the products and technology offered by the Corporation’s competitors; and (viii) good relationships with our suppliers, service providers and other third parties will be maintained. Although management believes that the assumptions underlying these statements are reasonable, they may prove to be incorrect, and the Corporation cannot assure that actual results will be consistent with these forward- looking statements. Given these risks, uncertainties and assumptions, prospective purchasers of the Corporation’s securities should not place undue reliance on these forward- looking statements. Whether actual results, performance or achievements will conform to the Corporation’s expectations and predictions is subject to a number of known and unknown risks, uncertainties, assumptions and other factors.

The Corporation’s forward-looking statements are based on the reasonable beliefs, expectations and opinions of management. Although the Corporation has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking statements, there may be other factors that cause results not to be as anticipated, estimated or intended. There is no assurance that such statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on forward-looking statements. We do not undertake to update or revise any forward- looking statements, except as, and to the extent required by, applicable securities laws in Canada.

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LEADERSHIP TEAM



George Ardies
Founder & CEO

Professional geologist with 25 years of energy experience. Founded three companies over his career & is dedicated on creating value while reducing GHG emissions across Canada. Active member of the Association of Professional Engineers & Geoscientists of Alberta (APEGA) plus the Canadian Hydrogen & Fuel Cell Association (CHFCA).



Rich Greenough
Founder & President/CFO

Seasoned finance professional with 25+ years of experience building & leading organizations in both public market & private equity settings. Driven to deliver shareholder value from high growth new-ventures. Highly adaptive with a proven ability to deal with risk & ambiguity. CA designation & MBA from Queens University & Cornell.



Jason Schultz
Founder & CMO

Bringing a diverse 15-year track record of energy exposure within the downstream, midstream, & upstream channels; coupled with another decade of railway, logistics, sales, supply chain & contract management experience. Jason holds an MBA as well a B.Sc. in Physical Geography from the University of Saskatchewan.

ADVISORY TEAM



Ed Malcolm
Strategic Advisor

Ed has over 35 years of experience in energy marketing including leading organizations & developing new markets.



Gary Kline
Strategic Advisor

Gary has 35 years of experience in energy business development, including work in the power & natural gas markets.



Doug Lautermilch
Strategic Advisor

Doug has over 35 years of experience including in multi-discipline engineering, fabrication and construction of highly technical EPC mega projects.



Tony Berthelet
Strategic Advisor

Tony is a Professional Engineer with over 25 years of experience in construction & operations including the implementation & optimization of secondary & enhanced recovery projects.



Marie Buchinski
Strategic Advisor

Marie is a lawyer with a track record of success providing strategic advice & representing clients on diverse regulatory & related commercial matters, compliance, tolls, tariffs, & Indigenous matters.



Don Lawton
Strategic Advisor

Don has over 35 years of subsurface geologic experience including teaching at the University of Calgary & focusing on carbon capture & storage.

VALUES & APPROACH



CUSTOMER FOCUS & ENGAGEMENT

WE ARE FLEXIBLE AND ABLE TO CREATE “BUILT-TO-SUIT” SOLUTIONS FOR OUR CUSTOMERS HYDROGEN OR CO2 SEQUESTRATION NEEDS.



PROVEN TECHNOLOGY

WE ARE FOCUSED ON USING RELEVANT, PROVEN AND COMMERCIAL TECHNOLOGIES. WE CONTINUE TO MONITOR THE HYDROGEN AND CO2 SEQUESTRATION LANDSCAPE FOR OUR CLIENTS.



SHAREHOLDER VALUE

WE ARE FOCUSED ON IMPLEMENTING DE-RISKED TECHNOLOGIES IN A MODULAR, CUSTOMIZED FASHION TO MAXIMIZE RETURNS FOR SHAREHOLDERS.



GROWTH

WE ARE FOCUSED ON ACHIEVING SIGNIFICANT GROWTH FOR OUR CLIENTS BY BEING OPPORTUNISTIC AND HAVING A BIAS TO ACTION.

WHY HYDROGEN?



ADOPTION

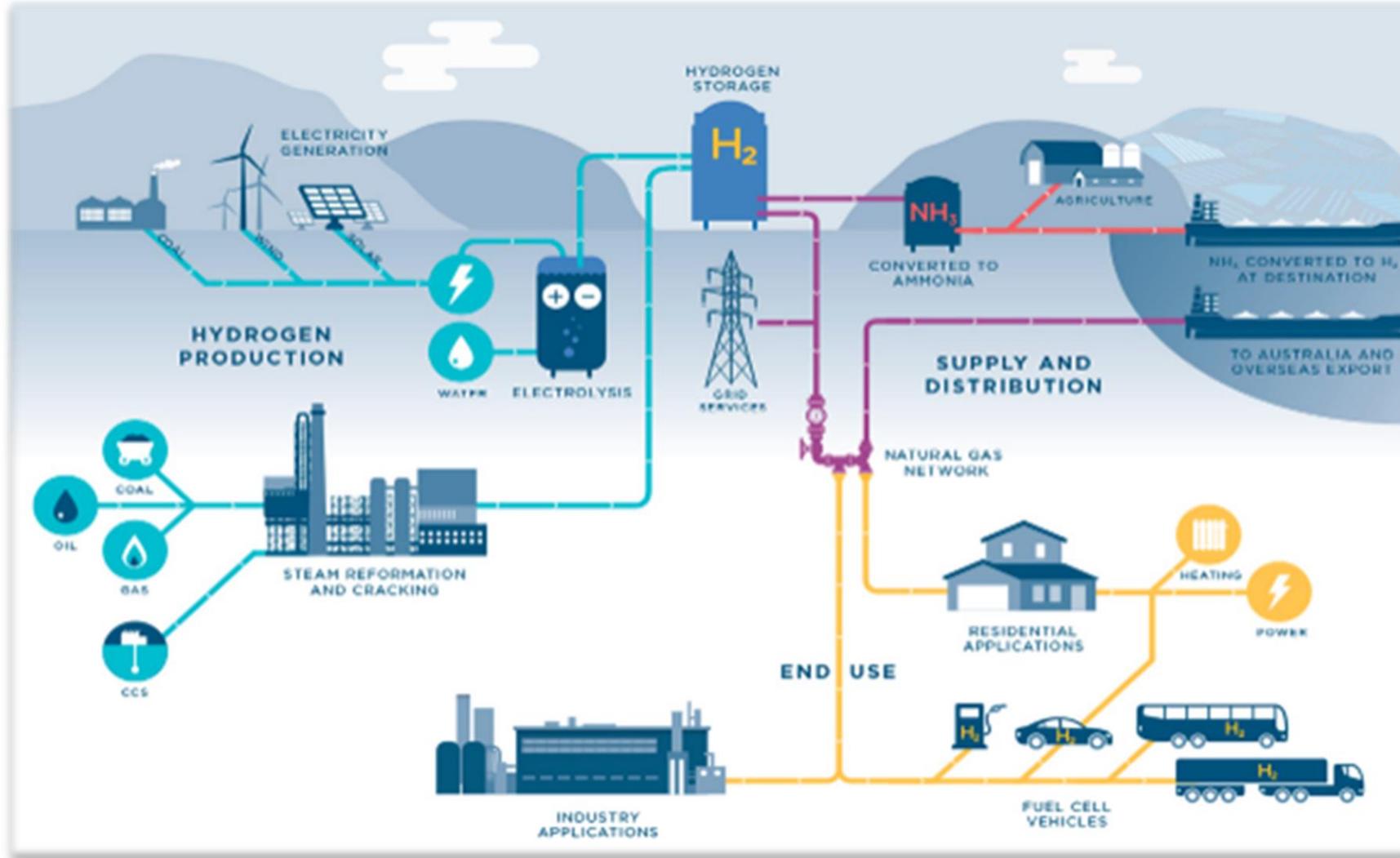
- HYDROGEN IS AN ENERGY SOURCE THAT EMITS ZERO CO₂
- CHEAP & ABUNDANT FEEDSTOCK (NATURAL GAS, WATER, ELECTRICITY)
- DISPATCHABLE ENERGY SOURCE
- DOES NOT OVERWHELM THE ELECTRICAL GRID
- EXPEDIENT FUELING
- LEVERAGING PROVEN TECHNOLOGY FROM COUNTRIES THAT ARE EARLY ADOPTERS



INVESTING

- SIGNIFICANT RUNNING ROOM & MARKET GROWTH
- OPPORTUNITY TO GET IN ON THE GROUND FLOOR
- ALBERTA POSITIONED PERFECTLY TO STORE CO₂ ASSOCIATED WITH H₂ PRODUCTION
- SYNERGISTIC OPPORTUNITIES ACROSS MANY INDUSTRIES
- VERTICAL INTEGRATION MODEL IS ECONOMIC TODAY
- BLENDING OPPORTUNITIES WITH DIESEL, GASOLINE, INDUSTRIAL, RESIDENTIAL, BUILDINGS, POWER GENERATION SECTORS

THE HYDROGEN AND SEQUESTRATION ECOSYSTEM



SpectrumH2 plans to leverage the value chain by sourcing cheap and abundant natural gas to produce hydrogen. Hydrogen in which the associated CO₂ is sequestered is referred to as “Blue hydrogen”.

We plan to take advantage of proximate geology (depleted zones, saline aquifers, etc.) to store and sequester CO₂. We will reduce emissions and provide base level returns to our shareholders with carbon credit upside.

Concurrently focused on supplying Blue Hydrogen to refiners and chemical companies based on traditional economics. Will be well positioned to meet the growing supply requirements for Blue Hydrogen.

Source: Hydrogen Strategy for Canada (December 2020), Government of Canada.

BLUE HYDROGEN (H₂) OPPORTUNITY LANDSCAPE

Hydrogen is currently produced throughout North America with proven technology (Steam Methane Reformer) and abundant feedstock (natural gas); H₂ is currently used in the refining of fuel products and fertilizer.

Fertilizer products including ammonia and urea are made from hydrogen and are distributed throughout North America safely and routinely by truck and rail.

Refining traditional diesel – a variety of refiners ranging from the Northwest Upgrader outside of Edmonton, Alberta to Teapot refineries throughout Western Canada, use hydrogen to produce diesel products

Refining renewable diesel – a diesel product utilizing oils derived from soy, canola and animal fat can be infused with hydrogen to create a hydrocarbon-like diesel product.

Diesel products produced with hydrogen generally have a CI (“Carbon Intensity” score) that directly impacts their pricing. The use of Blue Hydrogen and carbon capture and storage can enhance CI scores.

BLUE HYDROGEN (H₂) OPPORTUNITY LANDSCAPE CONT'D

Alberta accounts for 35% of the natural gas use in Canada.

Natural gas (CO₂ intensive) can be substituted with H₂ (zero CO₂) in numerous applications.

H₂ is currently competitive with diesel pricing and is a more compelling alternative for heavy haul vehicles than electricity given recharging time and battery weight/volume.

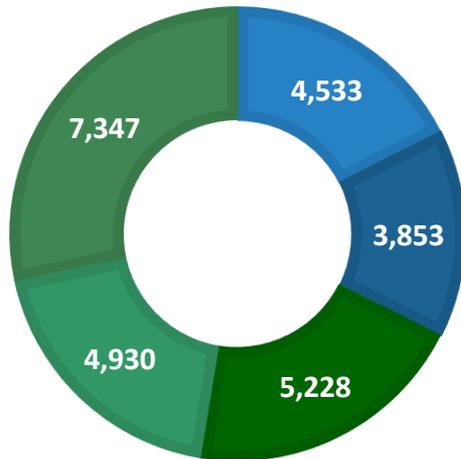
Numerous companies are beginning the transition to hydrogen as CO₂ pricing escalates including ESG initiatives.

Source: Transition Accelerator Reports Volume 2 • Issue 5 • November 2020

BLUE HYDROGEN (H₂) OPPORTUNITY LANDSCAPE CONT'D

Transitioning from Natural Gas to H₂ is projected to create incremental demand in Alberta = **25,891 t H₂ /day***
(approximately \$129 mm/day at \$5/kg or \$46 billion annually).

Total Current Projected H₂ Market demand in Alberta of 5,378 t H₂/day + 25, 891 t h₂/day = **31,269 t H₂ /day***



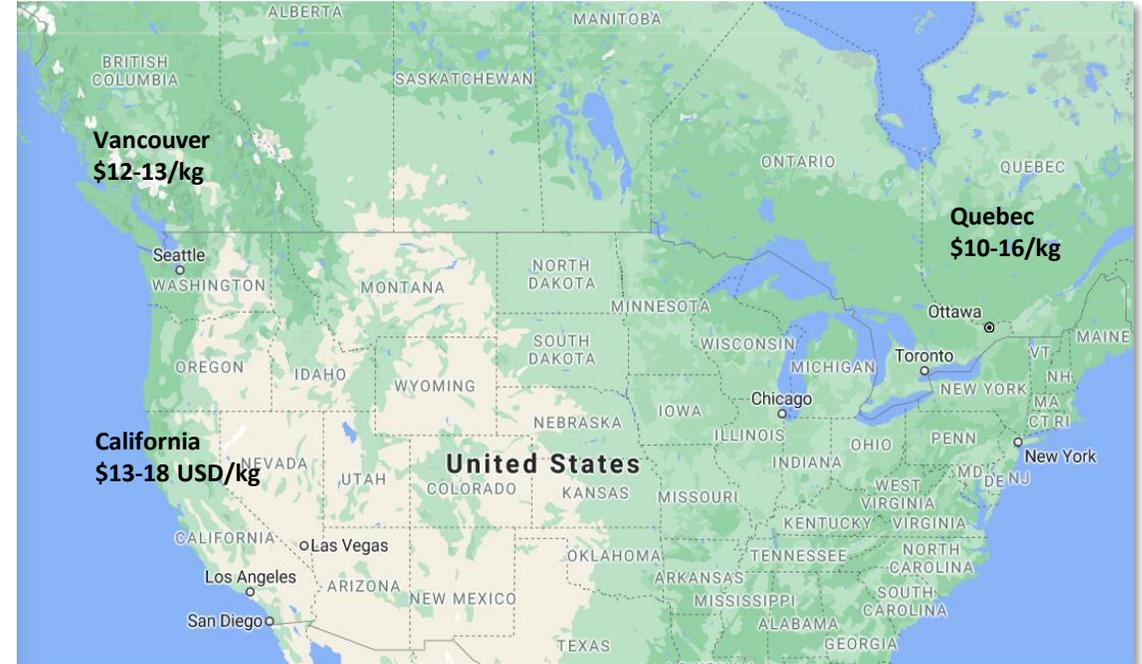
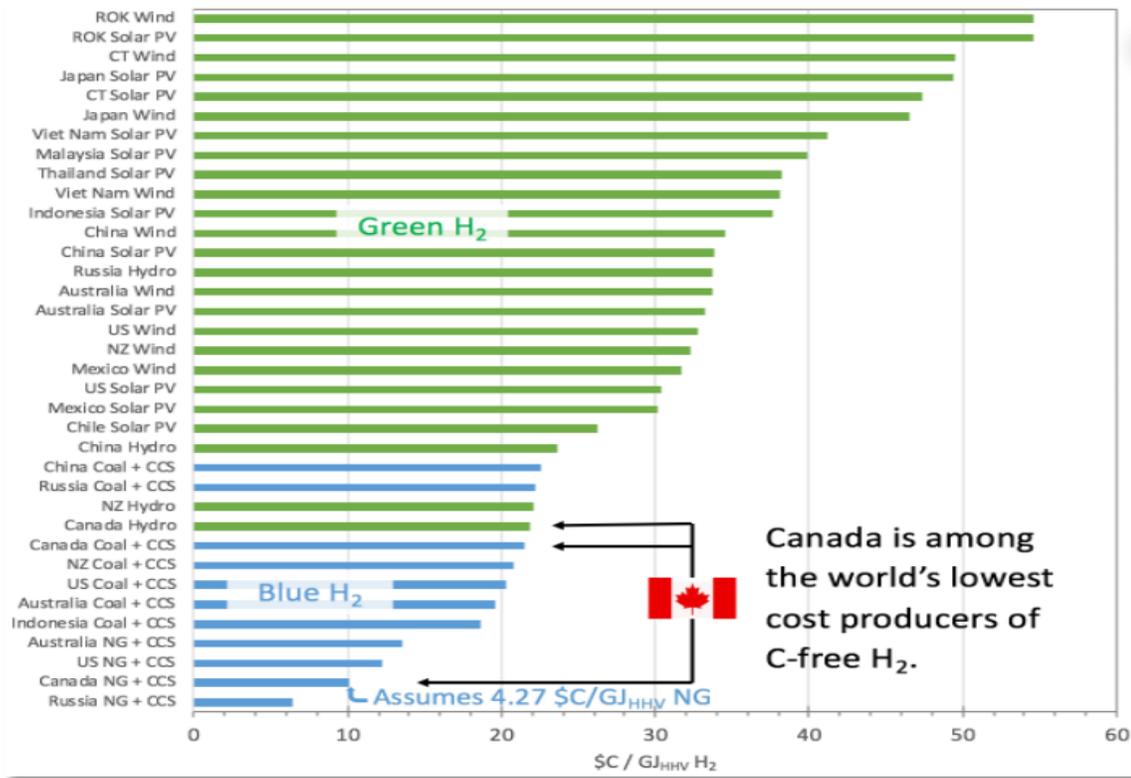
TOTAL NEW HYDROGEN FUEL MARKET: 25,891 T H₂/DAY

■ Displacing Diesel & Gasoline: Semi-Trucks, Buses & Taxis	4,533
■ Displacing Natural Gas Currently Used For Pipeline Operations & Other Industrial Uses	3,853
■ Displacing Natural Gas Currently Used to Heat Buildings	5,228
■ Displacing Natural Gas Market: Power Generation	4,930
■ Displacing Natural Gas Currently Being Used for Oil & Gas Operations	7,347

*Source: Transition Accelerator Reports Volume 2 • Issue 5 • November 2020

BLUE HYDROGEN TRANSPORTATION ARBITRAGE OPPORTUNITY

SIGNIFICANT PRICING DISLOCATION



“THE ALBERTA ADVANTAGE”

CHEAP NATURAL GAS
+ ABUNDANT CARBON STORAGE POTENTIAL
= LOW-COST BLUE HYDROGEN

Source: Transition Accelerator Reports Volume 2 • Issue 5 • November 2020

CO₂ SEQUESTRATION OPPORTUNITY LANDSCAPE

CO₂ is currently sequestered through out North America with Alberta being the largest emitting province of CO₂ in Canada.

CO₂ is typically captured by a Carbon Capture Unit which uses amine to capture CO₂.

Alberta is currently the market leader in sequestering CO₂. At a price of \$50/t of CO₂ carbon capture projects can be self-funding.

The province of Alberta has initiated a process to award certain parties HUB Operator status in specific jurisdictions with the aim to ensure operators demonstrate appropriate technical and financial abilities.

SpectrumH₂ has contacted and discussed with numerous operators, their interest in sequestering their emissions.

CARBON CAPTURE IS GROWING

KEY US POLICY

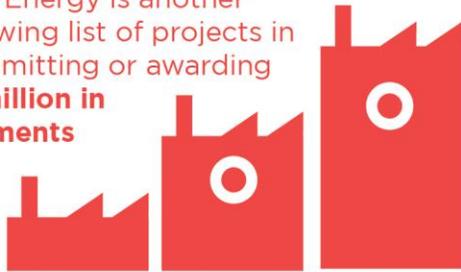
New projects were, in large part, incentivised by the **45Q tax credit** and the **California Low Carbon Fuel Standard (LCFS)**.



2020 is the year that CCS was mainstreamed into energy and climate policy discussions, with support from both **Democrats and Republicans**.



US Department of Energy is another reason for the growing list of projects in development, committing or awarding more than **\$270 million in co-funding agreements in 2020**.



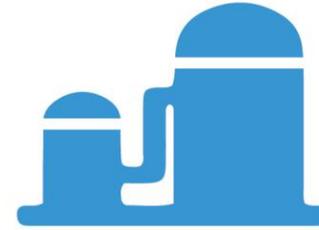
Source: Global CSS Institute "Global Status of CCS 2020" report

OPERATIONAL MILESTONES

Several significant CCS operational milestones were achieved across the Americas in 2020:



Alberta Carbon Trunk Line (ACTL) in Canada **came on-line**.



5M
TONNES
CAPTURED &
STORED

Shell Quest facility surpassed **5 million tonnes** of CO₂ captured and stored over 5 years of operation.



Boundary Dam 3 CCS facility in Saskatchewan surpassed over **4 million tonnes** of CO₂ captured and stored.



14M
TONNES
CAPTURED &
STORED

Offshore Brazil, Petrobras Santos Basin CCS facility surpassed **14 million tonnes** of CO₂ captured and stored.

CARBON CAPTURE IS GROWING CONT'D

CCS FACILITIES IN THE AMERICAS

In 2020 the Global CCS Institute added 12 new commercial projects in the Americas to our database of CCS facilities.



There are now **38 commercial facilities in operation**, or various stages of development in the region. This represents around one half of the total projects around the globe.

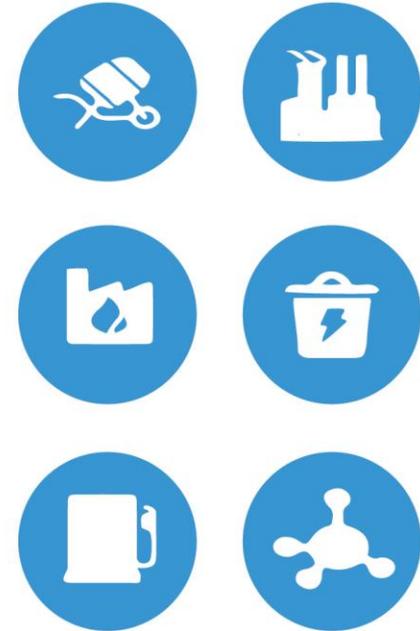


CO₂ CAPTURE

Operational commercial CCS Facilities in the region have a capture capacity of over **30 million tonnes per annum**.



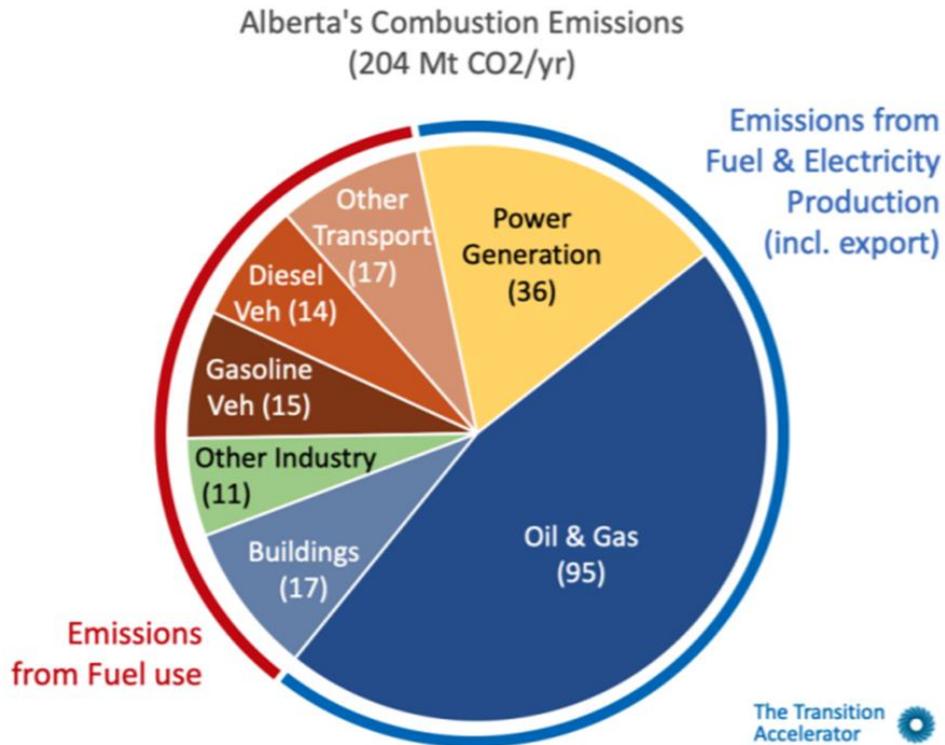
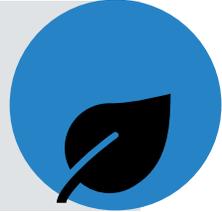
The **versatility of CCS** is evident in the US in 2020. Projects were announced on: **cement manufacturing, coal-fired power plants, gas-fired power plants, waste-to-energy-plants, ethanol facilities, chemical production.**



Source: Global CCS Institute "Global Status of CCS 2020" report

SIZE OF THE PRIZE – ALBERTA COMBUSTION EMISSIONS

ALBERTA GREENHOUSE GAS EMISSIONS BY SECTOR



Crucially, net-zero emissions can be achieved through the following decarbonization options:



Carbon capture

Chemical absorption and the injection of CO₂ into depleted oil reserves



Nuclear energy

Produces energy through nuclear reactions



Storage & utilization

Improves electricity grid storage



Renewable innovation, and others

Includes hydrogen, batteries, and scaling renewables



GETTING TO NET-ZERO THROUGH CARBON CAPTURE

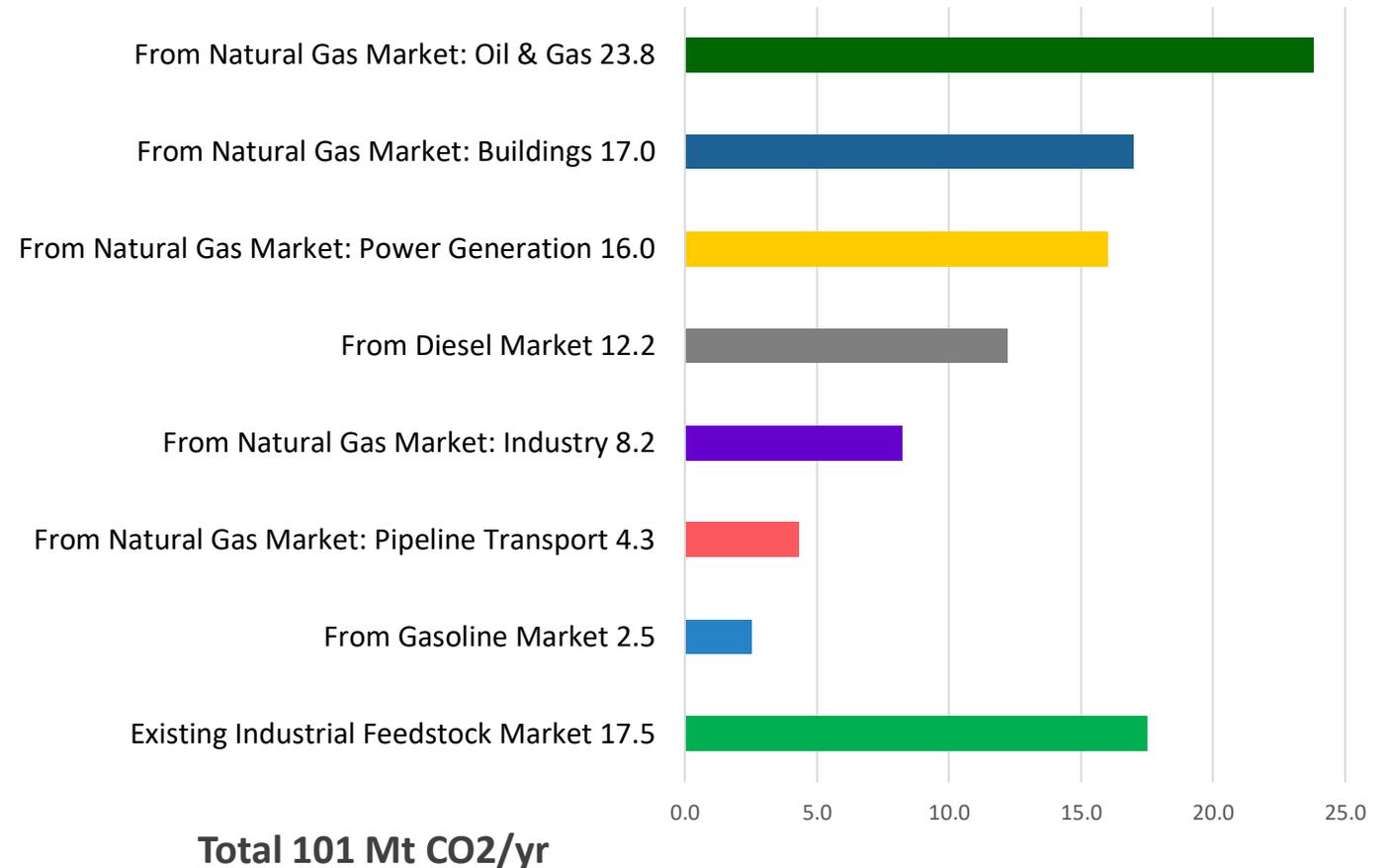
SIZE OF THE PRIZE – CARBON CAPTURE & STORAGE

Summary of carbon capture & storage (CCS) with natural gas demand in Alberta's hydrogen economy.

If all hydrogen were produced as blue hydrogen from natural gas with CCS, the annual CCS capacity requirement would be about 101 Mt CO₂/yr.

- This is over 40 times more than the current 2.5 Mt CO₂/yr capture rate that already exists from the Shell Quest & Alberta Carbon Trunk Line projects.

MARKET POTENTIAL FOR CO₂ STORAGE DEMAND IN ALBERTA



Source: Transition Accelerator Reports Volume 2 • Issue 5 • November 2020

THANK YOU!

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