



UNILIA (CANADA) FUEL CELLS INC.

PRESENTATION TO THE STANDING COMMITTEE ON NATURAL RESOURCES

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WHAT'S GOING WELL

Funding

- \$2.75b (over 5 years) Infrastructure Canada, Zero-emission bus fund
- \$1.5b (over 3 years) Canada Infrastructure Bank, ZEV bus associated infrastructure
- \$0.2b Fueling infrastructure fund
- \$3b (over 5 years) Strategic Innovation Fund, Net Zero Accelerator

Policy

- Net-zero commitment
- Price on carbon (\$170/mt by 2030)
- Clean fuel standard (13% by 2030)
- Light duty ZEV zero-emission vehicle standards (BC and Quebec)
 - Retail hydrogen refueling stations growing in BC and Quebec

GAPS

- Supply security for clean low cost hydrogen in main hub areas
 - Edmonton – exists.
 - Need in other locations: Toronto, Montreal, Vancouver, ...
- Project funding approval (project approval guidelines - targets)
- Medium-duty vehicle and heavy-duty vehicle market pull
 - Measures to de-risk the demand side for private sector
 - Demand guarantee for private sector

RECOMMENDATIONS

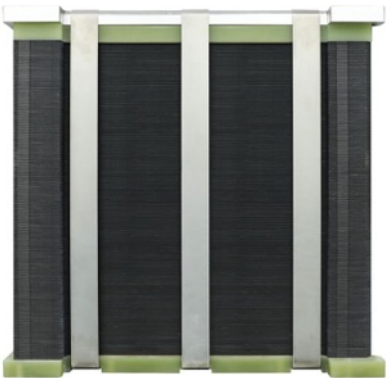
- Guarantee demand for fuel providers
 - Issue credits based on installed capacity
- Net zero emission requirements for vehicles in Canada
- Net zero emission requirements for heating fuels in Canada
- Guarantee project funding approvals using targets (funding \$ per mega ton of Carbon)

FUEL CELLS HAVE GONE FROM RESEARCH AND DEVELOPMENT ... TO DEPLOYMENT



We need demand and market pull in Canada - this is happening for Unilia in Asia

Unilia is selling everything we can produce in China



	POLARIS	ELECTRA
Launch Date	Q2 2020	Q2 2021
Stack Power ¹	Scalable to 83 kW	Scalable to 130 kW
Power Density	3.8 kW / L	4.4 kW / L
Freeze-Start-Up	- 30°C	- 30°C
PGM ² Utilization	2.0 kW / g	3.6 kW / g
Durability (as of 2021Q1)	>20,000 hours	>30,000 hours

¹ Power at 2.5 bar_a Oxidant, 0.6 V / cell

² Platinum Group Metal Catalyst

UNILIA FUEL CELLS INC

A REFIRE Group Company



2017 Two sides of the company established in Vancouver and in Shanghai

2019 Merged to form one consolidated entity - UNILIA

2020 Stack factory commissioned with annual capacity of 5000 stacks

May 2021 - UNILIA delivers 1,000 stacks to customer

2 UNILIA (CANADA) FUEL CELLS INC.

- North America R&D Center located in Vancouver, Canada
- Responsible for state-of-art stack and MEA engineering with proprietary IP
- A 38-person team, with 15 - 20 years of experience

1 UNILIA (SHANGHAI) FUEL CELLS INC.

- Shanghai R&D Center to focus on process engineering and trial production

3 UNILIA (GUANGDONG) FUEL CELLS INC.

- The first series stack production factory for Unilia
- Phase one of 4,000m2, annual production capacity of 5,000 stacks

CORPORATE STRUCTURE



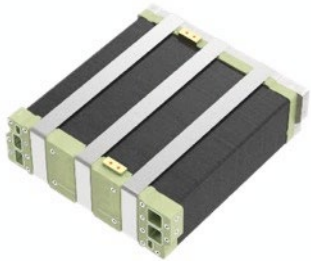
PONDO Electric
FCS Power Electronics



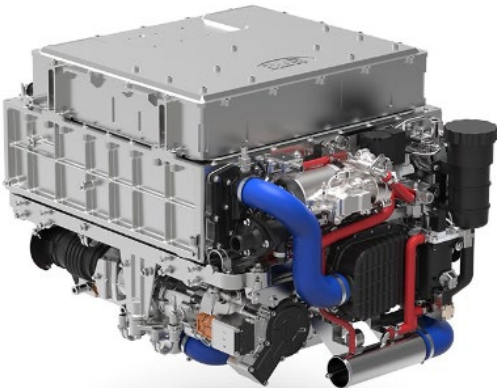
REFIRE Technology
FCS and Powertrain Application Engineering



UNILIA Fuel Cells
Stack and MEA



63-65kW Fuel Cell System
Light/Medium-Duty Applications



PRISMA VI



PRISMA XII

120kW Fuel Cell System
Heavy-Duty Applications



we're celebrating



zero carbon kilometres

11,522,623 L
Diesel Equivalent

Total CO2 Saved
30,261,721kg

DRIVEN BY REFIRE-POWERED VEHICLES
HELPING 17 CITIES CLEAN THEIR SKIES

REFIRE
MOVE. BREATHE. EASY

*calculated using 0.717 kg CO2 reduction per litre of diesel