



Don't just upgrade your fleet,  
electrolyze it.

Sales Deck

November 2024





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# 20% less fuel. 100% more forward-thinking.

Accelerating performance simplified.

## Hydrogen on demand:

The engine will now receive a small amount of hydrogen with the air coming through the air intake.

## Enhanced fuel efficiency:

The small amount of hydrogen allows the engine to burn the fuel more completely. The fuel will release more energy, resulting in less unburned fuel out the exhaust.





# HY performance. HY fuel savings.

⚡ Did you know? A truck using \$80k/year in fuel will only cost \$10k to convert into a hybrid.

ROI in under one year and will result in \$160,000 in fuel savings over ten years.

Note: Spending \$80K/year in fuel, saving 20%

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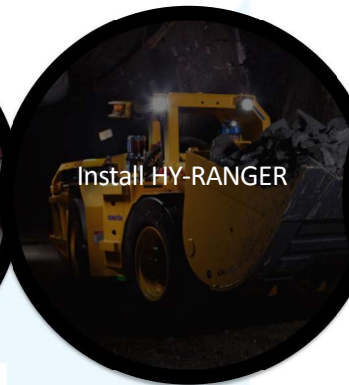


# Ride HY

How a pilot works.

## Pilot Program Highlights:

- **Vehicle Selection (Dec 1–7):** Share your vehicle details for system sizing.
- **Baseline Data Collection (Dec 1–7):** Measure current fuel consumption and emissions.
- **Installation (Dec 15–30):** HY-RANGER installed on-site in one day per vehicle.
- **Data Collection (Jan–Feb):** Weekly fuel tracking and emissions tests at months 1 and 2.
- **Final Report (March):** Comprehensive savings report and fleet conversion strategy.



# Case Study:

Kawartha Lakes



Now converting all 305 fleet vehicles into hydrogen hybrids over five years, representing \$3M in sales.

75%

AVG  
PM Reduction

15%

AVG  
Fuel Savings

Emissions Tester: Third Party City Vendor  
Emissions Test System: Snap-On,  
Fuel Data: City GPS Telematics Data

## Hybrid Truck

69% PM Emission Reduction  
24% Fuel Savings



## Hybrid Bus

9% Fuel Savings



## Hybrid Pick-Up Truck

81% PM Emission Reduction  
7% Fuel Savings



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# Case Study:



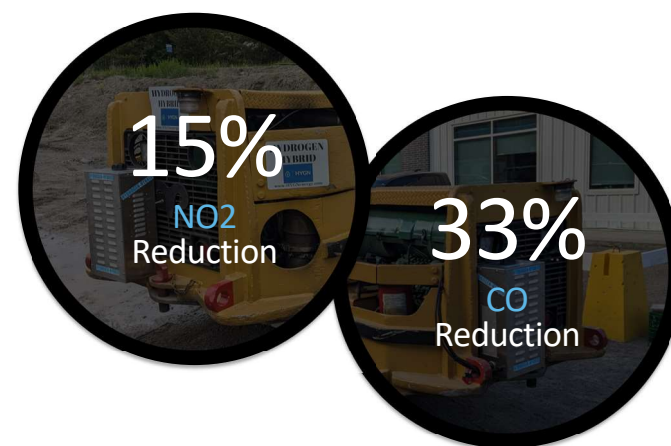
Vehicle: Tamrock JS 285 Loader

Engine: 1989, 413 Deutz inline 5-cylinder (9.6L)

Test Center: NORCAT Underground

Emissions Test System: Drager EM200E

Note: No fuel gauges or odometer



The underground mining vehicle at NORCAT generated the data to showcase at Mining Transformed.

There we connected with ReThink Mining and CDL who are helping us form a consortium of mines to pilot our technology.

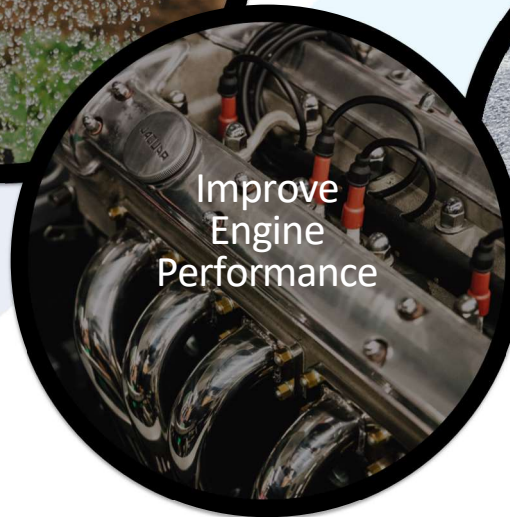
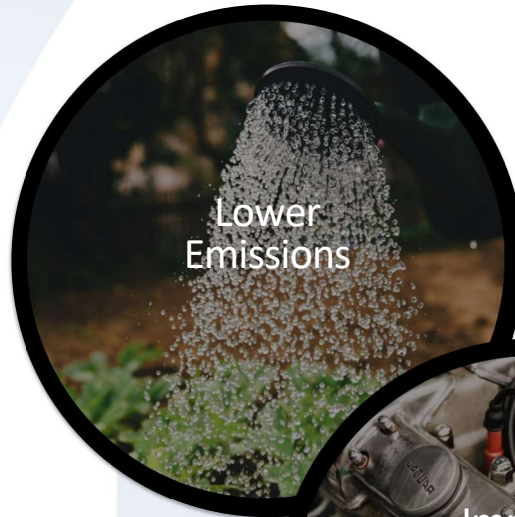


## Innovation 1:

# Hybrid engine kits.

### Safe and Reliable

- Built to ASME Pressure Vessel Standards
- Never stores or pressurizes hydrogen
- Low Temperature
- No Rare earth or toxic materials



## What is an Electrolyzer?

A device that uses electricity to convert water into hydrogen and oxygen gas.





# Supercharge engines, while extending range.

- ⚡ **More complete combustion.**  
Get more energy out of the fuel you use.
- ⚡ **Still use gas/diesel, but less.**  
Save money on fuel.
- ⚡ **Less unburned fuel out tail pipe.**  
Less smoke and smell from the tail pipe.
- ⚡ **More range for fuel.**  
More efficient engine operation.

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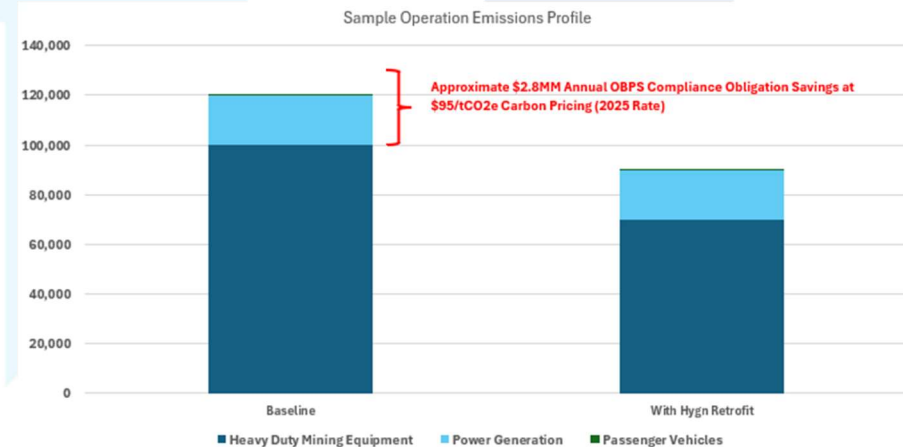
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# Save money & the environment.

⚡ HYGN Hybrid Kits create Two Carbon Reduction Revenues:

1. Shared Recurring-Revenue form Verified Gold Standard Carbon Credits for fuel savings
2. Reduction in Annual OBPS Compliance Obligation



# Just bolt it on.

Turn-key  
Cost effective  
Environmentally friendly



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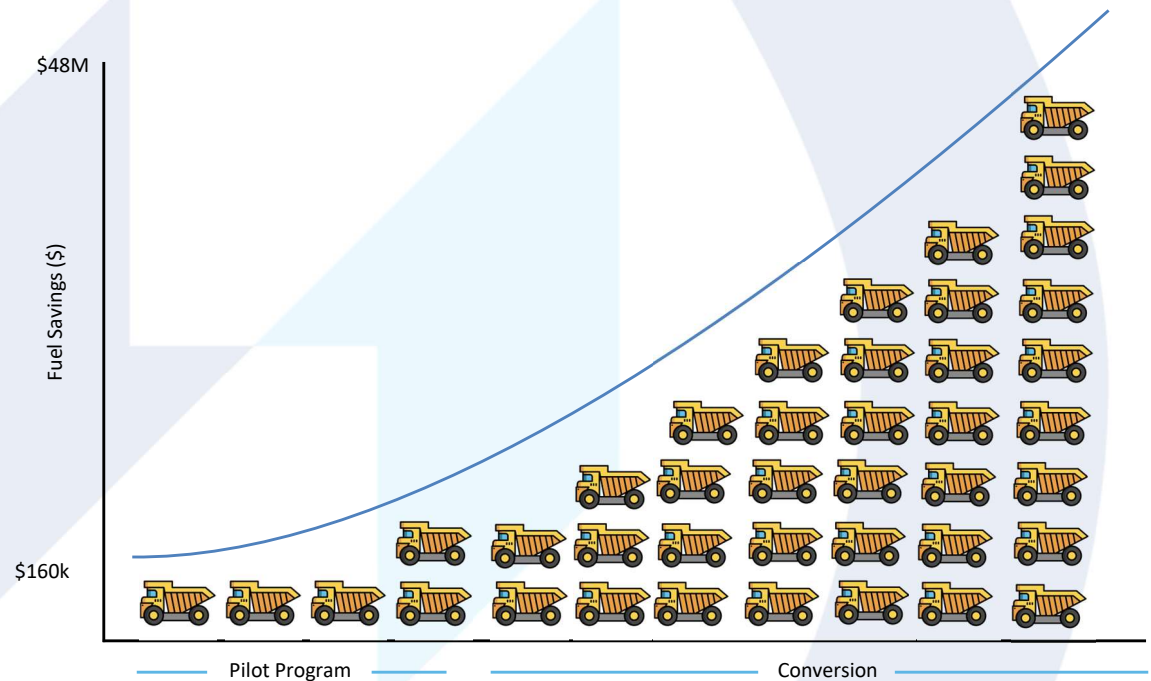
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# Powering Profits

How you save money.

- **Cost:** \$10k per truck
- **Fuel Savings:** \$160K per truck
- **Recurring Revenue:** Carbon Credits and Carbon Tax Reduction
- **Fleet Savings:** 300 vehicles can realize \$48M in fuel savings alone



# Our team.

Thomas Ross  
Director & Co-Founder



Tom brings a wealth of experience in hydrogen technology and sustainable energy solutions. His experience spans both the technical and strategic aspects of the energy sector. Tom has also made significant contributions to his community, leading environmental sustainability and economic development initiatives.

John Fiorini  
Director & Co-Founder



John is a highly skilled engineer with an extensive background in hydrogen technology development. His expertise was honed at Ballard Power System, where he contributed to pioneering hydrogen technologies with multiple patents across the globe.

Bill Ross  
Research



Bill is renowned for his expertise in hydrogen production and electrolysis design. His significant contributions to the field are evidenced by numerous patents and his ongoing work with HYGN, which continues to push the boundaries of clean energy technology.

Alex Logie  
Finance



Alex serves as the Chief Financial Officer of HYGN Energy Inc., bringing over two decades of experience in finance and investment within the energy sector. He is a graduate of Queens University and was a past SVP of Citibank Canada.

Dan Horner  
Sales



Dan brings over 25 years of experience in sales, operations, and plant management within the automotive and manufacturing sectors. His leadership is driven by his commitment to innovation and ability to forge strategic partnerships.

Doug Willson  
Advisor



Doug brings us a wealth of knowledge as the prior President of Sony Canada. His experience across strategy and operations further support HYGN's revenue potential, brand strength and customer centric focus.



## Our supporters, riding HY.



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