



### **Corporate Update**

July 15, 2021



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Certain statements and documents referred to in this presentation, other than statements of historical fact, may include forward-looking information that involves various risks and uncertainties that face the Company; such statements may contain such words as "may", "would", "could", "will", "intend", "plan", "anticipate", "believe", "estimate". "expect" and similar expressions, and may be based on management's current assumptions and expectations related to all aspects of the automotive and capacitor industries, consumer demand for zero emission transportation solutions and the global economy. Risks and uncertainties that may face the Company include, but are not restricted to: the Company may not be able to replicate test results in mass produced commercial products; the Company's energy storage and fuel technology may not be successfully commercialized at all, in a manner providing the features and benefits expected while under development, or on a timely basis or the Company may not be able to successfully incorporate this technology into its current or proposed products or the products of others; steps taken by the Company to protect its proprietary rights may not be adequate or third parties may infringe or misappropriate the Company's proprietary rights; the Company has a history of losses from operations and may not be able to obtain financing, if and when required or on acceptable terms due to market conditions or other factors, to fund future expenditures for general administrative activities, including sales and marketing and research and development, expansion, strategic acquisitions or investment opportunities or to respond to competitive pressures; competitors may develop products which offer greater benefits to consumers, have greater market appeal or are more competitively priced than those offered by the Company; the Company may be exposed to product liability claims which exceed insurance policy limits; the Company is dependent on the ability and experience of a relatively small number of key personnel; new products introduced by the Company may not be accepted in the market or to the extent projected; new laws and regulations may be enacted or existing ones may be applied or governmental action may be taken in a manner which could limit or curtail the production or sale of the Company's products; and the Company may be negatively affected by reduced consumer spending due to the uncertainty of economic and geopolitical conditions. These risks and uncertainties may cause actual results to differ from information contained in this presentation, when estimates and assumptions have been used to measure and report results. There can be no assurance that any statements of forward-looking information contained in this presentation will prove to be accurate. Actual results and future events could differ materially from those anticipated in such statements.

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#### Who are we?

- Canadian-based technology, growth stage company, operating internationally
- Identifying practical solutions
  - Clean
  - Sustainable
  - Economically viable
  - Can be implemented now
- Initial core technology is carbon-free ammonia (NH3)





#### **Vision**

The climate crisis has already been solved.

We already have all the facts and solutions.

All we have to do is wake up and change.

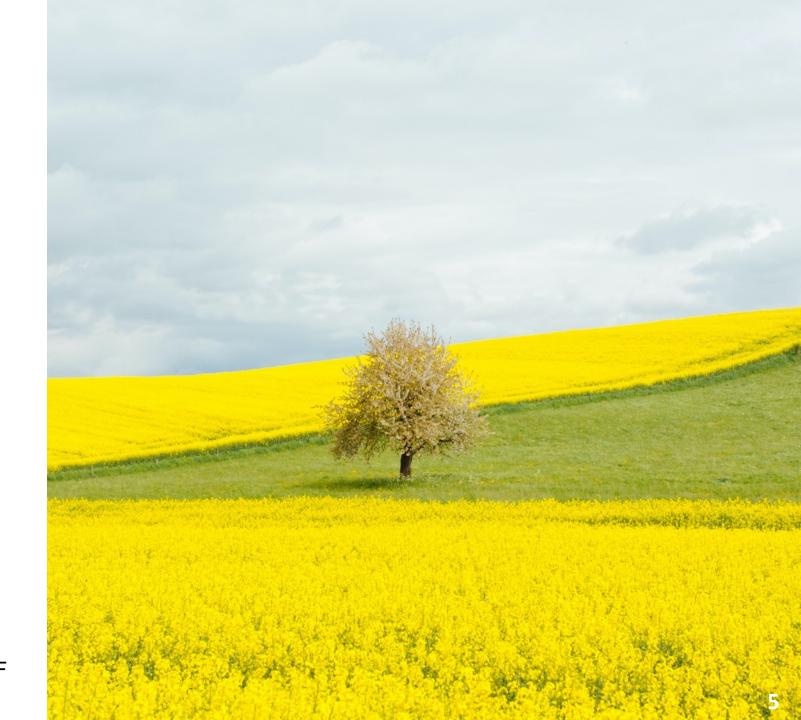
Greta Thunberg





# Progressing as Planned

- Financing
- Intellectual Property Protection
- Growing Team
- Future Technologies
- Carbon-free NH3





### **Financing**

- Completed C\$5 million
  - U.S. institutional financing
- Balance sheet strong
  - Current cash balance is over
  - C\$6 million
- Full funding for Phase 2 carbonfree NH3 commercial prototype demonstration systems in hand
  - Commercial build partner: National Compressed Air
  - To confirm broad application potential across sectors
- Extensive warrants exercised in Q1, Q2





# Intellectual Property Protection

- Filed comprehensive provisional patent for core carbon-free NH3 technology
- Includes other related initiatives to be built upon further and protected





### **Growing Team**

- Core team
  - March 29, 2021:
     Dr. Ibrahim Dincer and team
  - July 12, 2021: André Mech
- Consulting partners
  - RBMG Investor Relations
  - IBN Communications
  - Sussex Group Government Relations
- More to come
  - Staff
  - Consultants
  - Advisory committee





#### Dr. Dincer and his team

- Co-inventors
- Professor, Lead Technologist
- Automotive, Mechanical and Manufacturing Engineering
- Leading development of globally sustainable energy solutions
- Brings expertise in ammonia and hydrogen energy and fuel cells; energy and environment policies and programs; renewable energy solar thermal systems; thermal energy storage systems and implementation
- Runs an exemplary team of graduate and post-graduate PhDs participating in the project
  - Hydrogen and ammonia specialists
  - Engineers and technical experts
  - Fully engaged in commercializing carbon-free NH3 system and associated technologies



# André Mech, Carbon Credit and Emissions Reduction Specialist

- Expert in emissions reduction space for more than 20 years, assessing emission profiles of hundreds of transportation and renewable energy companies and technologies worldwide
- One of most knowledgeable emissions reduction and carbon credit specialists in his sectors
  - Each ton of FuelPositive's carbon-free NH3 used as a fertilizer will be eligible for up to 2.5 carbon credits; each ton used to replace fossil fuels will be eligible for up to 5 carbon credits
- B. Eng., MBA



# **Complementary Technologies**

 Exploring complementary technologies to broaden portfolio of sustainable energy solutions









### Carbon-Free NH3

**Our Lead Product** 



#### What's ammonia?

- N + HHH = NH3
- Used for over 100 years
- 200 million tons consumed annually worldwide
- 80% used in agriculture
  - Also for textiles, mining feedstock, chemicals production, cleaning materials, pharmaceutical manufacturing, water treatment, fuel, refrigerant
- Adaptable to current infrastructure
  - Easily stored and shipped





#### **Market Size**

- 200 million tons consumed annually
- Existing NH3 market over US \$70 billion per year, with compound annual growth estimated at well into double digits





# The problem with traditional ammonia

- Traditional production
  - Energy intensive
  - Polluting: Massive refineries
    - To produce a litre of ammonia = one of highest concentration of greenhouse gas emissions
- To date, clean production is too expensive
  - 2 4 times more than traditional production





#### **Our Carbon-free NH3**

- Takes air, water and sustainable electricity and converts that into non-polluting:
  - Fuel for engines, fuel cells
  - Fertilizer
  - Chemical
- FuelPositive's production system is affordable
  - Takes 30% less energy to produce than traditional production





# FuelPositive's System

- Phase 2 commercial demonstration prototypes currently in development
- Modular, scalable
- Easily transported
  - Size of shipping containers
  - Onsite production
- Output/unit will produce commercially viable quantity of liquid carbon-free NH3
- Pilot projects in place Q1 2022





# Will there be enough clean electricity?

- Producing clean NH3 requires a clean electricity source, e.g., hydroelectric, solar, wind, geo-thermal
- Forecasts are strong
- Over 85% of electricity in B.C., Manitoba, Quebec, Newfoundland & Labrador and Yukon is hydroelectric
- Massive green movement, initiatives, targets around the world





# Doesn't the chemical NH3 pollute?

- NOx can be avoided
  - Agriculture: Injecting liquid ammonia fertilizer deep into ground
  - Transportation: Using a catalytic converter to eliminate NOx when NH3 is used as fuel in engines
- When made/used cleanly, the resultant emission from NH3 fuel is water



### **Agriculture**

- 80% of world's NH3 is used for fertilizer, to get nitrogen into soil
- Problems
  - Greenhouse gases
  - Supply chain uncertainty
- FuelPositive system creates NH3 in situ/onsite
  - Farmers produce what they need, whenever needed
  - Injected into soil; nitrogen is fully used in the soil





# Why not just use manure?

- Manure contains ammonia and also polluting methane, nitrous oxide
- Farmers spray liquified manure on soil, releasing gaseous ammonia
  - Rain and run-off pollute waterways and water tables
- Resting piles of manure release gaseous ammonia into atmosphere, which becomes pollutant when mixed with other airborne pollutants

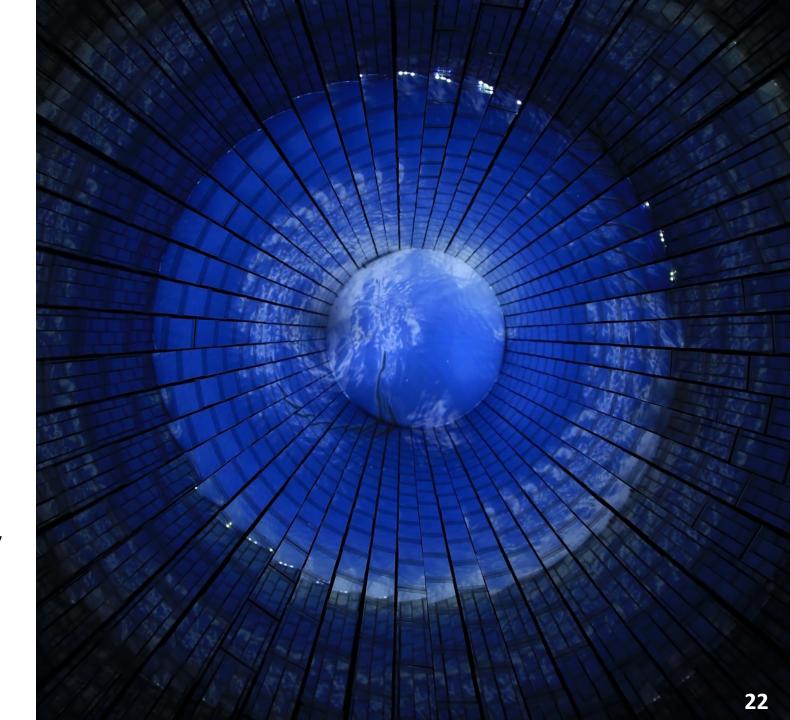




## The Hydrogen Economy

- Hydrogen is the goal, but faces many challenges:
  - Production is energy intensive
  - End-product is highly volatile
  - Requires extreme pressure to store
  - Escapes at normal temperatures and leaks into structure of metals, making them brittle
  - Distribution infrastructure is virtually non-existent
  - Transportation has severe safety concerns





### Our NH3: Makes Hydrogen Economy POSSIBLE NOW

- Using FuelPositive's system, our NH3 requires 30% less energy than conventional NH3 production, with no carbon emissions
- Carbon-free NH3 stores 65% more hydrogen than highly compressed hydrogen
  - No "boiling off"
  - No extreme compression
  - No cracking of brittle metals
- Lower cost from start to finish
- Easy to store and transport, using existing infrastructure





### **Transportation**

- Carbon-free NH3 can replace gasoline and diesel at lower cost/distance travelled
- Straightforward to convert engines
  - Kit similar to those converting gas and diesel engines to run on propane and natural gas
- Leverage existing fossil fuel infrastructure
- Gas stations could produce fuel on site
- Aviation, shipping/freight sector need a solution now





### **Grid Storage**

- Wherever renewables are situated
- Excess is stored onsite through creation of carbonfree NH3
- When needed, carbon-free NH3 will power clean turbines to generate clean electricity
- Decentralizing grid is a global imperative





#### **Carbon Credits**

- Significant revenue from carbon credits will fund future growth and investment in new technologies
- Each ton of carbon-free NH3 will reduce carbon emissions by more than 4 tons
- 2.5 carbon credits per ton for fertilizer and up to 5 for fuel applications in Canada
  - Potentially higher in other jurisdictions





# **Summary: Our Carbon-free NH3**

- End fertilizer-related agriculture emissions
- Make the hydrogen economy possible, almost immediately
- Clean transportation
- Power fuel cells
- Store power for grids
- Decentralize power grids
- Reduce costs





#### **FuelPositive**

- Financially solid
- Protecting/expanding our patents
- Securing expertise
- Exploring new, complementary technologies
- Developing partnerships
- On track with initial demonstration products that offer huge potential
  - Aggressively developing prototypes and setting up pilot projects





#### **Share Metrics**

#### **Capital structure**

TSXV: NHHH • OTCQB: NHHHF

52-Week Price Range C\$0.02-C\$0.40

Market Cap C\$66.5 M

Shares Outstanding 277,403,662

(Basic)

**Share Price** 

Warrants 63,504,054

Options 26,282,5000

Fully Diluted Shares 367,190,216

Management, Board & Insider Ownership

~10%

C\$0.24

#### **Trading History: Six Months**

0.240 CAD

July 14, 2021, 2:06 p.m. EST · Disclaimer

1 day	5 days	1 month	6 months	YTD	1 year	5 years	Max
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Open		0.240	Divyield		-		
High		0.240		Prev close		0.220	
Low		0.230		52-wk high		0.400	
Mkt cap		66.5M		52-wk low		0.020	
P/E ratio		-		Volume		716.2 K	



# Potential Partnerships

**Sustainable Food Production** 









**Agricultural Applications** 





Knowledge grows



















**Vehicle Propulsion Systems** 

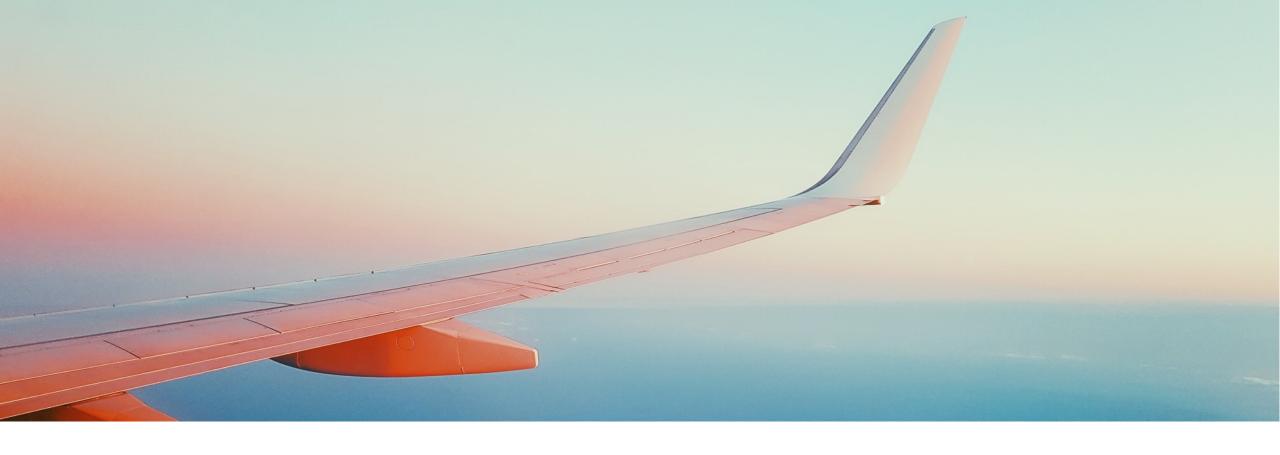


















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