

## Powering the Future, TODAY!

With renewable energy on the rise, Green Hydrogen is set to become a **\$10 trillion dollar market**<sup>(1)</sup> that will decarbonize **25%** of all energy consumption<sup>(2)</sup>. Progressus is the latin word for advancement, and its suiting because we are a leading green hydrogen company with the ability to change the world. Uniquely differentiated, we own the intellectual property for a world class proprietary system that enables lower cost hydrogen production with no greenhouse gas emissions. Green hydrogen is playing a major role in the achievement of net-zero for all energy related sectors. **Governments, natural gas utilities and the public are all calling for technological innovation and we have the solution.** We've partnered with industry leading experts and have accelerated our commercial development to meet the imminent demand and need for green hydrogen. With beta testing underway, you can look forward to seeing our leading-edge technology on your doorstep soon.

## Key Highlights

### ATTRACTIVE MARKET

- Decarbonization through residentially accessible green energy is forecasted to create an unparalleled commercial opportunity that will require trillions in investment over the next three decades<sup>(3)</sup>

### HIGH PURITY HYDROGEN

- Our technology economically extracts hydrogen from gas streams at extremely high purity which can then be stored or used to produce electricity, in the same unit, at the point of demand

### SCALABLE AND SAFE

- Technology that is modular, scalable, and inherently safer than alternatives means its application is market responsive and can be applied where and when required

### SHAPING HYDROGEN PORTABILITY

- Progressus designs are made directly for consumer applications, unintrusive and capable of producing more than 70 kWh per day of energy, enough to power the average American home and more



### 01. EMPOWERING

Generate over 70 kWh of energy per day for your home. More than enough to independently power the average American home – providing you with energy security and protection whether as a back-up or primary power source



### 02. INTEGRATED

One ton of hydrogen can be converted to ~33,000 kWh of useable energy for home, work, and transport. Our technology is fully integrated enabling direct hydrogen separation and direct power generation for use

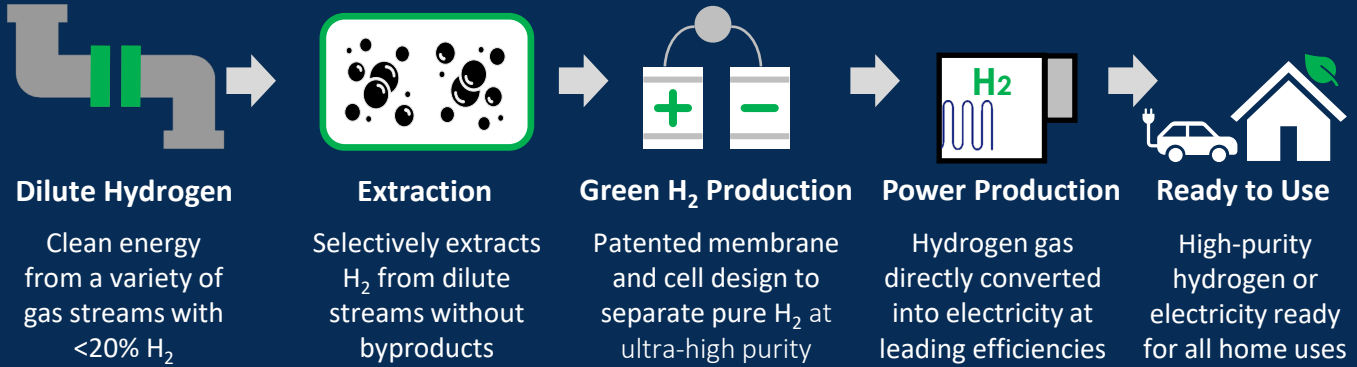


### 03. SUSTAINABLE

High purity hydrogen is produced while all other components are recycled or used for thermal efficiencies. This protects the environment while lowering home ownership costs due to lower electricity consumption

# Why Green Hydrogen & Why Progressus

Today, energy is primarily produced from fossil fuels (oil, natural gas, coal), equaling 84% of global production. These methods produce a significant amount of greenhouse gas emissions leading to global temperature rises that threaten our fundamental resources. Progressus provides the technological solution to meet net zero emissions goals by producing ultra high purity (99%+) hydrogen and electricity without emissions or dangerous by-products



## The Future Re-imagined

With the Progressus Home Power Unit Generating **more than 70 kWh** per day of electricity<sup>(4)</sup>:



**210 miles** for a Tesla Model S



**50 Light Bulbs** in an American home for **7 days**



**13 days** for a Refrigerator that is used all day



A Water Heater for **16 hours**



**1,170 hours** of Television



**37 hours** of Air Conditioning & Heating

## By the Numbers



**99%+**

High Purity Green Hydrogen with no Oxygen by-product



**\$50M**

+15 years of research and +\$50M in R&D investments



**80%+**

Reduction in electricity energy consumption



**\$700B+**

Annual estimates for green hydrogen sales by 2050<sup>(5)</sup>

Sources:

- (1) Forbes – “Green Hydrogen, Fuel of The Future, Set for 50-Fold Expansion”
- (2) McKinsey Hydrogen Council – “Hydrogen for Net Zero, November 2021”
- (3) BCG and GFMA – “Climate Finance Markets and the Real Economy”
- (4) Direct Energy – “What Uses the Most Electricity in My Home?”
- (5) Eco Cost Savings – “TV Wattage; 2022’s Most Efficient TV’s”
- (6) Optiwatt – “How Much Electricity Does It Take to Charge a Tesla?”