

The Future of Tomorrow, Today



Novel electrolyzer technology that extracts hydrogen from dilute or waste gas streams, leading to lower H2 per-unit costs and emissions.



Technological solution to meet net zero emissions goals by producing high purity (99%+) H2 and electricity without emissions or dangerous by-products.



Proven and demonstrated results in pilot plant trials with thousands of hours of testing proving efficient extraction of hydrogen.



Technology provides cost advantages, decreasing power and water consumption relative to traditional technologies and tolerating common contaminants (e.g. carbon monoxide).



A Transformative Green Solution

Progressus provides green energy solutions in a modular, scalable and inherently safer design than alternatives.



PROGRESSUS
CLEAN TECHNOLOGIES



POWERING THE FUTURE

Enabling the green energy economy with hydrogen technology to power the future of tomorrow, today

+1-403-464-7851
info@progressuscleantech.com
progressuscleantech.com



PROGRESSUS
CLEAN TECHNOLOGIES

Accelerating The Green Energy Transition

The world is facing an imminent need to transform the way we think about energy. Green hydrogen will play a major role in the achievement of net-zero for all energy related sectors. Governments, natural gas utilities and the public are calling for technological innovation. Progressus is the solution.



Today, energy generation is primarily produced from fossil fuels (oil, natural gas and coal), equaling 84% of global production. These methods produce significant greenhouse gases and emissions leading to global temperature rises threatening our most fundamental resources.

2020 Global Energy Production



33% OIL



27% COAL



24% NATURAL GAS

Technology Advantages



Net zero carbon emissions from high purity H2



Utilizing existing infrastructure saving tax payer dollars



Cost savings and improved safety from lower energy requirements



Leveraging wasted energy for power needs today



Progressus Home Unit Specifications

Generating 1–5 kg H2 per day
or
Convert the H2 into >70 kWh per day electricity

Our home unit is designed to power the average American home and charge common electricity powered equipment (e.g., car batteries, mobile equipment, etc.)

This will power an average American household & more, 1,200 hours of television, and 210 miles in a Tesla Model S

Progressus powers the home of tomorrow, TODAY

Delivering Value

Annual estimates for green hydrogen sales now exceed \$700 billion by 2050. With nearly 140 million homes in the United States alone, the market opportunity is huge and transformative. Hydrogen technologies around the globe will have to work synergistically to meet the growing need.

The AES home power unit is undergoing commercial design and testing.

Commercial demonstrations are planned for mid-2023 with in-market deployment planned thereafter.

