AcroLabs

Powering Clean Power

Overview

Founded
Bootstrapped January, 2017

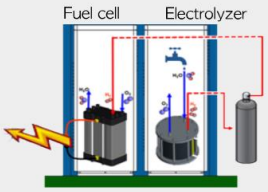
Industry
Clean and renewable energy

Business Area
Renewable energy hybrid products

Product
Acrogen Modular Clean ESS solution

Why Acrogen?

- Acrogen for On/Off-Grid Frequency Regulation replaces legacy battery technologies and **improves system reliability.**
- Acrogen is **scalable** and **compatible** with renewable energy generators in **solving their output instability problems.**



- **Surplus:** Acrogen uses excess electricity to produce hydrogen
  Shortage: Acrogen uses hydrogen to generate insufficient electricity

Market Segments

Energy Efficiency


Factories


Blackouts

Renewable Energy


Solar


Wind

Supply Security


Base Stations


Data Centers

Contact Us

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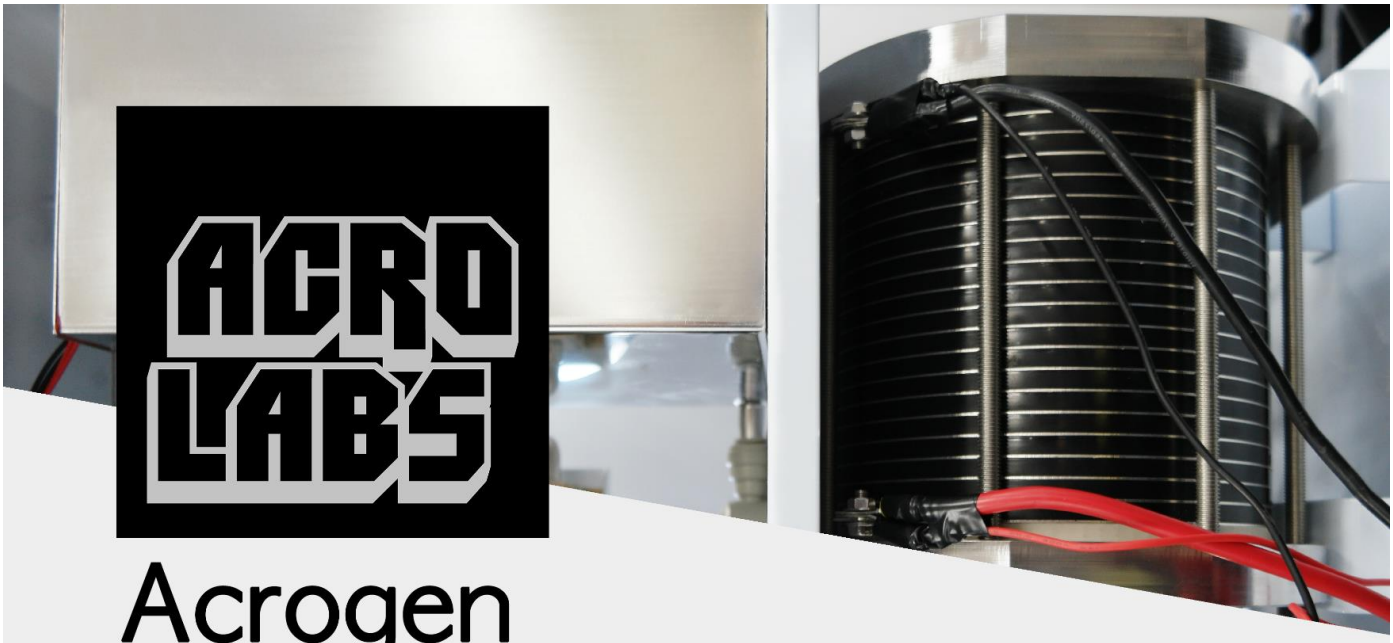


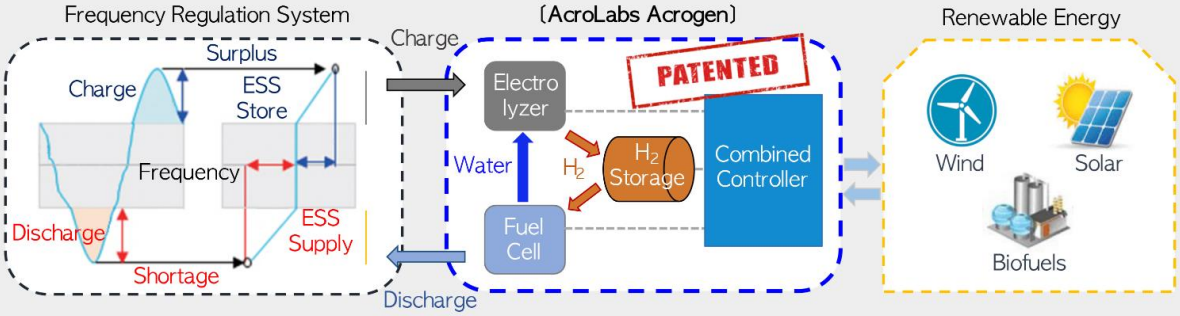
Acrogen

Modular Clean ESS Solution

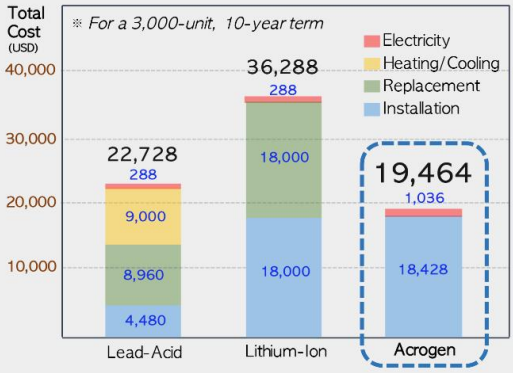
About Acrogen

Specifications

1. **Output Power** (kWh)	5 - 50	3. **DC Power Consumption** (kWh/Nm^3)	4 - 4.5
2. **Capacity Range per Unit** (Nm^3 H_2/hr)	2 - 12	4. **H_2 purity** (%)	≥ 99.9



Acrogen Advantage



	Battery-based ESS	Acrogen
Pros	1. Currently cheaper 2. Higher maximum capacity	1. Mass producible 2. Low maintenance fees 3. Reliable 10-year life cycle 4. No hazardous waste disposal
Cons	1. Limited installation conditions 2. High maintenance fees 3. High replacement costs 4. Disposes hazardous wastes	1. Higher cost (currently early stage) 2. Regulatory issues with H_2 gas
Scalability	1. Limited due to performance drain 2. Limited further applicability	1. Generator advantage (scalable) 2. Highly applicable into other fields (including Off-Grid, UPS)

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