

Electrochaea is growth stage Company that is commercializing a disruptive and scalable technology to meet immediate and growing market needs in California:



- **storing renewable energy**
- **displacing fossil gas with renewable natural gas, and**
- **reusing carbon dioxide**

We can meet these market needs with the product of our proprietary process – renewable methane. In doing so, our technology is ready to contribute to achievement of California’s aggressive climate goals.

### Power-to-Methane

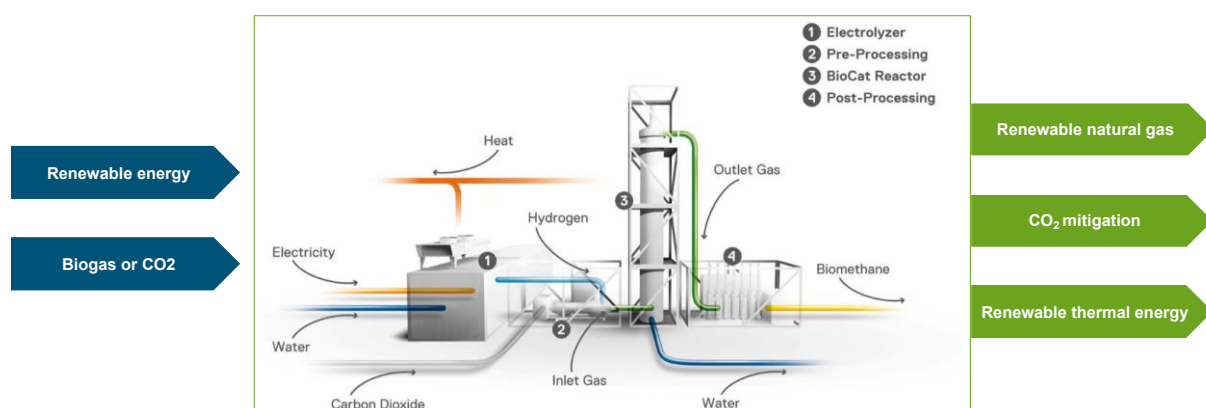
Electrochaea’s proprietary biological catalyst and unique reactor store surplus renewable energy in the chemical bonds of methane and simultaneously provide a carbon neutral drop-in replacement for fossil methane. Since methane is the major component of natural gas, our product provides a renewable substitute for fossil natural gas. This basic process is called ‘power-to-methane’ (P2M). The more generic term is ‘power-to-gas’ (P2G) and refers generally to using either methane or hydrogen as the gaseous energy carrier. Process heat from renewable sources is available as a byproduct.

### Simple and Scalable

Electrochaea’s process is based on a proprietary and robust biological catalyst. Our system has been demonstrated in three commercial scale reactors (Denmark, Switzerland, USA (NREL)).

- The methane product has been injected into the existing natural gas grids in Denmark and Switzerland and meets Rule 30 specifications for injection into the CA grid.
- Our renewable methane is storable, transportable and useable for any commercial application in which natural gas can be used, at a time and place of highest value.
- This includes transportation fuels, residential, commercial and industrial uses and peaker or base load power generation.

By directly linking the use of renewable power to generate renewable gas, we can access our largest already built energy storage system and store great quantities of renewable energy while providing a very large sink for CO<sub>2</sub> from any source. Unlike batteries or hydrogen which require new infrastructure, we can literally ‘charge’ the gas grid with renewable energy.



### Partnering in California

Electrochaea is establishing key partnerships for project execution and working with regulators to frame markets and regulations for renewable gas, and is seeking to license our technology to project developers and owner/operators to develop projects to serve CA renewable energy markets. Please contact: Joe Feldman, North American Business Development ([joe.feldman@Electrochaea.com](mailto:joe.feldman@Electrochaea.com); +1.312.961.2099 (US)) or Mich Hein, Managing Director, CEO ([mich.hein@Electrochaea.com](mailto:mich.hein@Electrochaea.com); +49.162.486.2002 (Germany) or +1.773.241.4947 (US)).