

Press release

Electrochaea Launches Power-to-Gas Bioreactor Portfolio at Energy Storage Europe 2018

- High efficiency biological catalyst allows low capex and operating costs
- Broad range of applications: Landfill sites; sewage, biogas and geothermal plants
- Industry and climate benefit from CO₂ upcycling

Düsseldorf/Planegg, March 12, 2018 – The power-to-gas specialist Electrochaea is launching its portfolio of power-to-gas bioreactors ranging from 1 to 50 MW at this year's Energy Storage Europe in Düsseldorf (March 13-15, hall 8b, stand D12).

Electrochaea uses microorganisms called archaea as a catalyst to convert surplus electricity and CO₂ from industrial sources into pipeline-grade biomethane suitable for storage and transport in natural gas infrastructure. The biomethane is either used directly on site or fed into the natural gas grid without the need for any additional costly treatment. Landfill sites, sewage, biogas and geothermal plants, and industrial companies with higher CO₂ emissions are all typical locations for deploying the bioreactors.

Electrochaea boasts the world's most efficient strain of archaea. As the reactor range has now been standardized, planning and delivery times can be reduced by around 30% and operating and investment costs can be significantly reduced to generate profitable business cases in various territories. Electrochaea has thus succeeded in further increasing the economic benefits of biomethanation, which were already at a high level prior to this standardization. The product range is set to be expanded further in the upcoming years to include the first 100 megawatt reactors.

Mich Hein, CEO of Electrochaea stated: "Our bioreactors are a turn-key-solution for storing excess renewable energy and CO₂ in a standard gas product. Our clients and partners can effectively reuse CO₂, to make a drop-in replacement for fossil natural gas that can be stored or transported in existing natural gas infrastructure. The renewable gas product unites different energy sectors and provides economic leverage for owners and operators of existing assets."

Stand information: Electrochaea will have a booth at Energy Storage Europe 2018 from March 13-15 (Electrochaea GmbH, hall 8b, stand D12).

Contact on site: Dr. Markus Forstmeier, markus.forstmeier@electrochaea.com. Please send a quick message to Rebekka Hausemer rebekka.hausemer@electrochaea.com or Tim-Ake Pentz t.pentz@hoschke.de if you are interested in organizing a meeting, interview or a background discussion on site.

Credits/Image: Electron microscope photograph of the Electrochaea archaea strain, a variation of *Methanothermobacter thermautotrophicus*. © Prof. Andreas Klingl, 2017

About Electrochaea GmbH: On the basis of biocatalysis, Electrochaea offers a power-to-gas key technology which has been patented internationally. It cost-effectively recycles CO₂ and simultaneously produces storable and usable biomethane from surplus electrical energy. The first industrial scale plant operates successfully in Denmark. Plants of more than one gigawatt of capacity are targeted by 2025. 20 employees work for Electrochaea in Denmark and at the head office in Munich. CEO is Mich Hein.

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