

REFERENCES

> World' largest commercial 6,3 MW_{el} Power-to-SNG system
(Werlte, Germany), for customer Audi AG

> 0,6 MW_{el} Power-to-Hydrogen system
(Vienna, Austria), for customer RAG

> Container-based 100 kW_{th} Hydrogen-to-SNG system
(Germany), for lean gas upgrading in industrial production process

> First Power-to-SNG system (25 kW_{el}) in Switzerland
(Rapperswil), for Hochschule Rapperswil

> 250 kW_{el} Power-to-SNG pilot plant¹
(Stuttgart, Germany), with ZSW Baden-Württemberg & Fraunhofer IWES

> First demonstration of Power-to-SNG operation with biogas
(Morbach, Germany) with juwi AG, ZSW Baden-Württemberg, Fraunhofer IWES

> First-of-its-kind 25 kW_{el} Power-to-SNG demonstration plant incl.
CO₂ absorption from ambient air
(Stuttgart, Germany), with ZSW Baden-Württemberg

¹ The project was supported by the German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety.



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Audi with Reference to ETOGAS



PRODUCTS AND SERVICES

Power-to-Gas turn-key systems

> Power-to-Hydrogen (PtH₂)

> Power-to-SNG (PtSNG)

> Hydrogen-to-SNG (H₂tSNG)

Consulting/Services

> Feasibility Studies & Power-to-Gas Business Model Design

> Basic Engineering

> Site Engineering

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smart energy conversion

POWER-TO-GAS TURN-KEY SYSTEMS

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OUR PRODUCTS

(Please refer to the respective datasheets for more details)

Power-to Hydrogen (PtH2)

Pressurized alkaline electrolyzer systems specially designed for energy market and utility-scale applications:

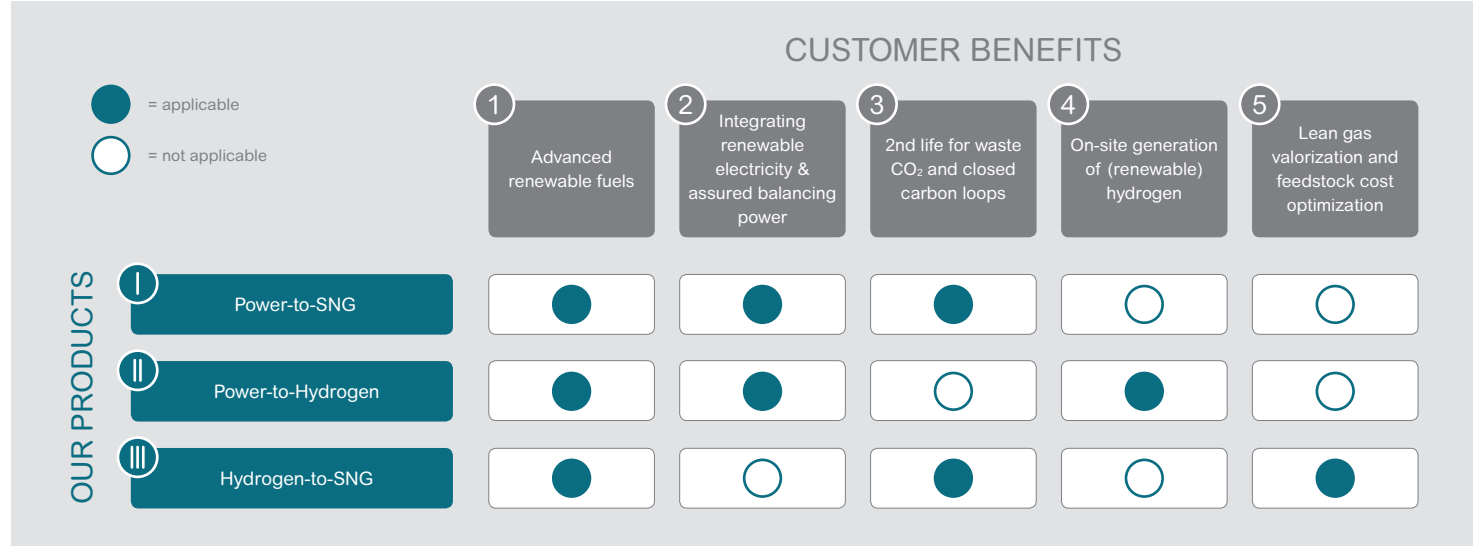
World's largest cell stack capacity with active cell area of 6.000 cm² features lowest CAPEX while allowing for full dynamic operation.

Power-to-SNG (PtSNG)

Combined PtH2 and H2tSNG (electrolysis with methanation unit) to convert electrical power to grid-compliant synthetic natural gas (SNG).

Hydrogen-to-SNG (H2tSNG)

Methanation systems with innovative fixed-bed plate reactor and membrane concept to convert hydrogen-rich lean gases to SNG.



THE POWER-TO-GAS COMPANY

ETOGAS designs and builds multi-megawatt Power-to-Gas (PtG) turn-key systems based on its proprietary technology portfolio, comprising high-pressure alkaline electrolyzers and methanation systems as well as balance of plant components.

All products are specifically designed for the requirements of the power market and volatile renewable electricity supply:

- Minimized costs (CAPEX and OPEX)
- Full dynamic and intermittent operation
- Highest efficiency

ETOGAS is the PtG technology and market leader with its products addressing the whole PtG value chain.

OUR SERVICES

ETOGAS offers integrated consulting and plant engineering services. As the pioneer of Power-to-Gas, ETOGAS brings in specialized and practical experience from several PtG plant projects and numerous feasibility studies and consulting projects.

- Feasibility studies & Power-to-Gas Business Model Design: Economic analysis and business case evaluation for PtG projects incl. legal framework analysis
- Basic Engineering
- Site Engineering

CONCEPT

ENGINEERING

CONSTRUCTION

COMMISSIONING / START-UP

MAINTENANCE