



# INCREASING THE VALUE OF GREEN ENERGY POWER TO METHANE

- ① Industrial Emissions
- ② CO<sub>2</sub> Capture
- ③ Water Electrolysis
- ④ Methanation



### USA: PETRA NOVA PROJECT

- CO<sub>2</sub> recovery: 4.776 t/d
- CO<sub>2</sub> in flue gas: 13.6 vol%-dry
- CO<sub>2</sub> compressed to: 1.6 bar (a)
- CO<sub>2</sub> used for: Enhanced Oil Recovery
- Start of operation: December 2016
- MHI Role: License + EPC Consortium

## MITSUBISHI POWER AS A TRUSTED PARTNER

Mitsubishi Power Europe is a licensee of MHI on economically proven world class carbon capture technology based on amine solvent. Mitsubishi Power Europe has formed strong partnerships with key technology providers towards the development of core components on hydrogen electrolysis and methanization. We offer patented and licensed processes for Power-to-Methane and Power-to-Methanol that are cutting-edge technologies leading the way to a low-carbon world.

### STEPS PRODUCING VALUE

- Feasibility study including location analysis
- Tailored cost proposals
- Equity and financing models
- Turnkey Solutions:
  - Engineering
  - Supply
  - Construction
  - Commissioning
- Long Term Maintenance Agreements (LTMA)

### CAPABILITIES

- Turnkey solutions with commercial warranties on performance and availability.
- Manufacture and construction of hydrogen electrolysis plants up to 100 MW with manufacturing lead-times of less than 12 months.
- MHI has installed the world's largest carbon capture plant with a 4.776 t/d capacity in Texas, USA.

For more information please contact our team: [energysolutions@eumhi.com](mailto:energysolutions@eumhi.com)

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