



Practice-oriented solutions for renewable gases Biomethane, LNG, CNG, Hydrogen and Power-to-X

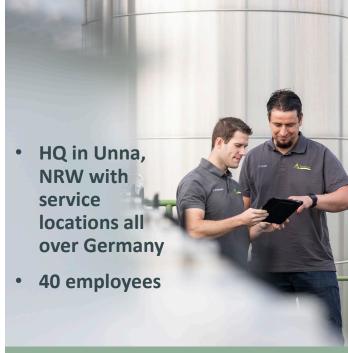
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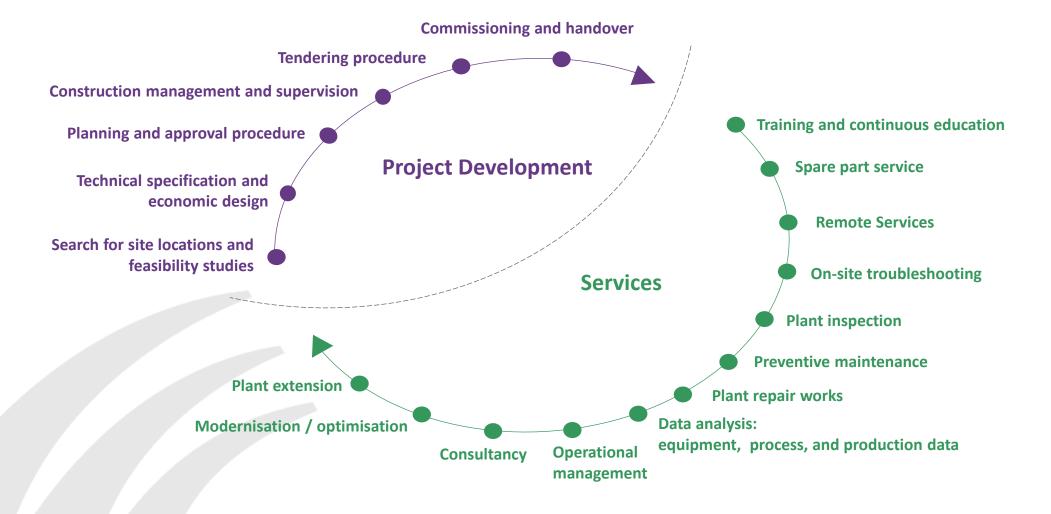
Company profile: ARCANUM Energy Systems GmbH & Co. KG















Agricultural holdings

Genuine biogas production at multiple locations

Biogas Pool

Biogas upgrading (biomethane and grid injection)

Municipal Utilities

Utilisation of biomethane



Biogas Pool 1 for Municipal Utilities: Bruchhausen - Vilsen







→ ARCANUM: operational and company management



Service with the knowledge of a plant manufacturer and the experience of an operator



Project planning & development

From idea to commissioning

- Market and location analysis
- ▲ Technical + economic design
- Financing (e.g., participations, funding)
- Approvals
- Project tendering and construction supervision
- Startup and operations



Plant Management & Sales Market

We focus on the profitability of every plant

- Technical + commercial management (control room)
- ▲ Operation + Maintenance + 24/7 service for upgrading and grid injection plant
- Data analysis and process optimisation (I.D.E.R.)
- Modernisation and plant expansion
- Certifications and approvals acc. RED II
- Plant design in line with legal framework European Renewable Energy Directive II
- Gas commercialization and GHG quota trading



Upgrading Technologies

Biogas upgrading

- Chemical scrubbing
- Physical washing
- Pressure swing adsorption
- Membrane separation

Main Manufacturer

MT, Cirmac, Purac, Haase, Ros Roca, Schwelm, Carbotech, Malmberg, Pentair Haffmanns



Membrane separation



Water scrubber





Comprehensive services in the field of green gases

- Concept development decarbonisation
- Investment & participation management
- **▲** Market analysis
- **▲** Project development & control
- **▲** Planning & approval
- **▲** Cooperation within the NEA group:
 - Hytron: Plant construction steam reformers & electrolysers
 - Alternative Energy Driven Solutions: transportation concepts
 - **Hofer**: H₂-fuel station construction





Please feel free to contact us:

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