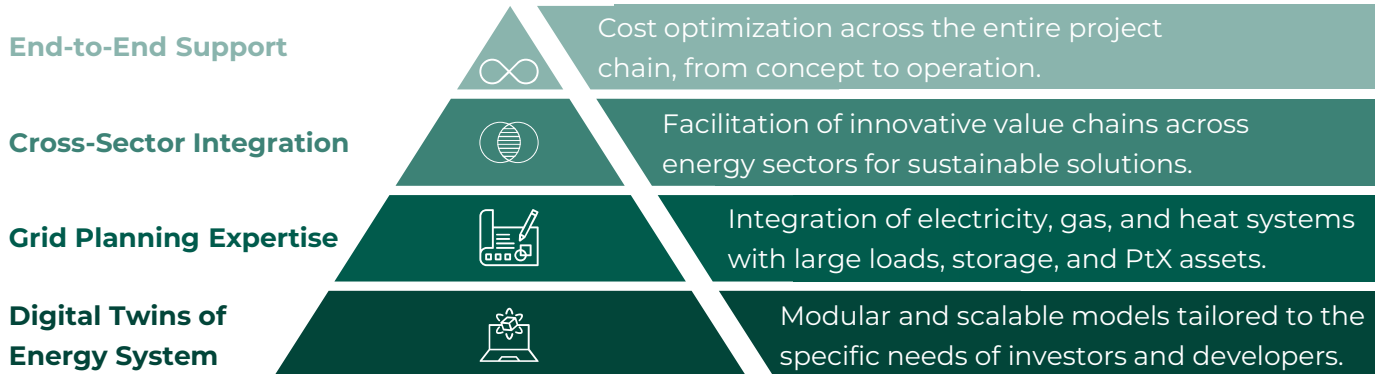


# Providing Solutions for Energy Grid & Infrastructure

We are a consultancy company focused on driving the energy transition, combining decades of industrial experience with technological expertise and cutting-edge market knowledge. Across all project phases, our innovative approach balances cost-efficiency, system reliability, and transparency, enabling seamless integration of renewable energy, storage systems, and Power-to-X units into the grid.

## Our Service Scope



## Our Service Activities

- Advanced simulation tools to assess the optimal techno-economic design and performance, as well as to handle uncertainties through large-scale sensitivity analyses.
- Tailored analyses of technical constraints, grid connection, and sector coupling studies.
- Transparent trade-off evaluations, such as reliability versus investment costs.
- Feasibility studies and sensitivity analyses to determine the optimal grid design and integration strategies for energy assets.
- Hands-on support for integrating renewable energy into power systems.

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## Our References

### H2 and E-Fuels Plants

Techno-economic assessment by an automated load flow calculation and cost assessment for a 100% RES based islanded grid including the initial assessment of grid stability measures.

### PV and Wind-Supplied P2X Plants

Customized grid planning, KPI development, and sensitivity analyses for techno-economic optimal design.

### Analysis of Electricity Supply

Qualitative, quantitative and simulative analysis of the primary electricity supply starting from the high-voltage level down to low-voltage consumers to identify possible single points of failure and other risks.

### Renewables for Sewage Plants

Feasibility simulations and business case analyses to optimally size and integrate renewable energy sources in combination with storage systems to meet 80% RES-targets

### EMS Market Analysis

Analysis of the German EMS market with a focus on the C&I and utility segments. Identification of the top EMS providers and their offerings. Evaluation of the value pools along the BESS / EMS value chain and the outlook until 2035. Assessment of overall market attractiveness and business potential.

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