

Energy Storage

In the future an essential component for economical operation of your energy systems

Position yourself for the future and act proactively with an energy storage system to meet the challenges of the energy transition. Iqony offers you energy storage solutions for a wide range of applications. You benefit from our experience with the various storage technologies.



Solutions for a wide range of applications

We help you to find the optimum energy storage method for your needs, regardless of the energy source you use and what your requirements are, such as:

- Stand-alone solution to provide system services
- Reduction of power purchase costs through optimal combination with in-house generation plants
- Relief of transmission and distribution grids through use as a grid booster
- Flexibilization of energy plants
- Stabilization and integration of renewable energy facilities
- Reduction of grid charges and forced power operation
- Stabilization, protection and optimization of industrial networks
- Load shifting and participation in energy markets
- Expansion of integrated energy (electricity, heat, gas and mobility products)

Our experience is your gain

You can trust our decades of experience in the design and construction of energy storage systems.

- Complete range of services from the conceptual study to the overall implementation of a project
- Experience in operation, maintenance and optimization of Iqony's own energy storage systems
- Professional consultancy from in-house expertise and tools, among others in the areas of storage dimensioning, grid connection and grid calculations, fire protection, permitting and procurement processes
- Extensive experience with integration into existing plants
- Cost-efficient solution due to non-proprietary status and technology neutrality

We support you in all questions around energy storage and find the optimal solution.



In doing so, we are with you from the first ideas on design and construction to the operation and optimization of your system.

Our services in detail:

- Technical and commercial consultancy
- Conceptual development and site investigation
- Advice on the use of funding opportunities
- Preliminary, design and implementation planning
- Permit planning
- Procurement planning (with EPC contractor or by lots)
- Project management, site management, quality management and commissioning
- Interface processing and integration into the site
- Delivery of complete turnkey solutions
- Network calculation and grid integration
- Simulation & optimization of charging management
- Optimized maintenance through IT-supported predictive maintenance

Selected references

- Technical concept for grid booster system (engineering: 2 x 100 MWh, 2022)
- Secondary reserve storage, Duisburg (orientation request: 240 MWh, 2021/22)
- Series solution large-scale battery systems in Southern Europe (preliminary planning: 600 MW, 2021)
- Relocation of large-scale battery storage in Lünen (planning and implementation: 15 MW, 2020)
- District heating storage, Herne (conceptual study, 2019)
- Large-scale battery storage, 6 locations (planning and implementation: 6 x 15 MW, 2016/17)
- Salt storage power plant, Lünen (R&D study, 2015/16)
- Arenales solar thermal power plant, Spain (operation: 1000 MWhth molten salt storage, 2013-2019)
- Storage in distribution network with large PV share (study, 2013)
- Green Island Project, Greece (study, 2010)
- LESSY battery storage system, Völklingen, Germany (pilot project: 1 MW, 2009-2017)
- Creavis Science-to-Business Center Eco², Marl, Germany (battery research, 2009-2014)
- Ruth Storage, Duisburg (planning and implementation: 120 t/h, 1988/89)

Contact

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