Curious?
Learn more here:

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https://s.fhg.de/net-zero-energy
The evolution to Industry 4.0 has made energy an even more complex issue. Industrial companies are not only being confronted with efficiency standards and changing legal constraints with concomitant volatility of renewable energies but also have to keep an eye on ongoing digitalization, their infrastructures’ resilience and steadily rising energy prices.

Positioning oneself to be technically future-proof, preparing for unforeseeable events and thus ensuring continued production in the long-term are contingent on an integrated and structured assessment of energy. Our experts at the Fraunhofer IFF use their long-standing scientific expertise to analyze the conditions for this at manufacturing facilities.

Building upon this, we use innovative tools to develop and implement the right solution technology-agnostically and always with an eye toward cost effectiveness and sustainability. A detailed list of actions based on individual objectives is compiled, covering the entire spectrum from energy production and supply, including marketing and reuse, to infrastructure integration down to new business models.

Our Three-Point Plan for Your Objectives

Requirements analysis and capability analysis
- Analysis of the basic energy and infrastructure conditions including operating, safety and facility requirements
- Definition of strategic objectives and the time horizon
- Examination of the legal requirements
- Data acquisition and as-is survey

Technology Screening
- Compilation of individual and market agnostic technology summaries
- Review and recommendations for amending operating and safety requirements and regulations

Implementation plan
- Development of a system design including technologies and actions
- Assessment of the complete system’s economic efficiency, scalability, and economic and environmental impacts
- Assistance with the development of business models
- Implementation of the custom net-zero energy facility design

NET ZERO ENERGY: The New Energy Efficiency

Your Benefits

- Energy- and resource-efficiency
  economical and efficient use of natural resources and energy carriers
- Decarbonization
  carbon neutral facilities and services that boost competitive edges
- Service reliability and demand responsiveness
  increasing the level of self-sufficiency for greater independence
- Right for every starting situation
  We factor in your existing situation and start exactly there.
- Custom solution
  Our net-zero energy-solution customized for your requirements
- Agnosticism
  We are technology, commercial partner and product agnostic