

**Management**  
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GREEN Gruppo di Ricerca  
in Economia dell'Energia



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The research area of the Energy Economics Group is focused on Energy markets, Renewable energy and energy efficiency economics and policy, Energy and climate policies.

We work in the field of regulation for various bodies at the international level and are consultants for companies and public administrations.

Main research topics

- Conversion of solar energy
- Energy markets and regulations
- Energy scenarios and energy/environment policies
- Technologies for energy saving
- Economic evaluation of environmental and energy resources

## New business models for electricity supply

Liberalization policies, the challenges of integrating distributed generation resources, and the recent flattening of electricity demand due to the economic crisis and technological change have led to lower returns for European electricity suppliers. Innovative and sustainable business models are needed to serve electricity customers while reflecting the operational needs of the system and maintaining supplier financial viability. Our research describes a novel model of Integrated Energy Services that encompasses distributed generation (DG) and demand response (DR) resources for industrial customers. We further worked on some of the market opportunities and regulatory drivers for the development of similar schemes across Europe.

The traditional business of European Utilities is shrinking and their market value has been dramatically reduced in the last decade. This is due to the low margins in electricity supply, with a flat demand since the crisis of 2008 and the fast technological change that is making the digital control of electricity grid affordable and reliable. In this framework a new role is given to grid operators and utilities are looking for higher margins in supplying new services with higher returns. Our work is focused on understanding the value for the system of these services and on addressing the regulation for an efficient evolution of the sector.

