

SHAPING THE FUTURE OF ENERGY



The demo site in Skiathos, Greece, aims to reduce carbon emissions by making the energy system more flexible. It uses the DFLEX platform to create a marketplace where system operators can better manage renewable energy sources like solar panels, batteries, and EV chargers through digital solutions.

CHALLENGES IN CLEAN ENERGY TRANSITION

- ⚡ **Unstable Supply** – Solar & wind fluctuate, making grid management harder.
- 💰 **Limited Market Access** – Small producers can't easily trade energy.
- 📄 **Regulatory Gaps** – Lack of equipment & clear rules slows progress.
- 🔌 **Grid Overload Risks** – Too much renewable energy can cause blackouts.
- 🏠 **Low Consumer Engagement** – People lack tools & incentives to participate.



A Smarter, More Flexible Energy System

The Skiathos demo site uses digital solutions to make the energy grid stronger, more flexible, and sustainable.



- DFLEX Platform – A local marketplace where small energy producers help balance the grid.
- Direct Consumer Participation – Households and businesses can sell energy without middlemen, creating new income opportunities.
- Better Grid Management – Improved coordination between system operators ensures a stable energy flow.
- Upgraded Infrastructure & Policies – Smart meters and better regulations make energy trading easier.

Local Impact

- 💰 **Financial**– Using energy more efficiently lowers costs. Local energy markets help reduce grid congestion and improve energy flow.
- 👥 **Social**– Removing barriers makes it easier for people to join the energy market. More direct participation increases awareness and engagement.
- ⚡ **Innovation** – Smart meters and new technology improve grid stability. Better data sharing strengthens the energy system.

