

55 Internet and Smart Energy Projects

STAINLESS STEEL WIRE MESH

Long-lasting and durable

Comprehensive specifications

Customized non-standard products



Overview

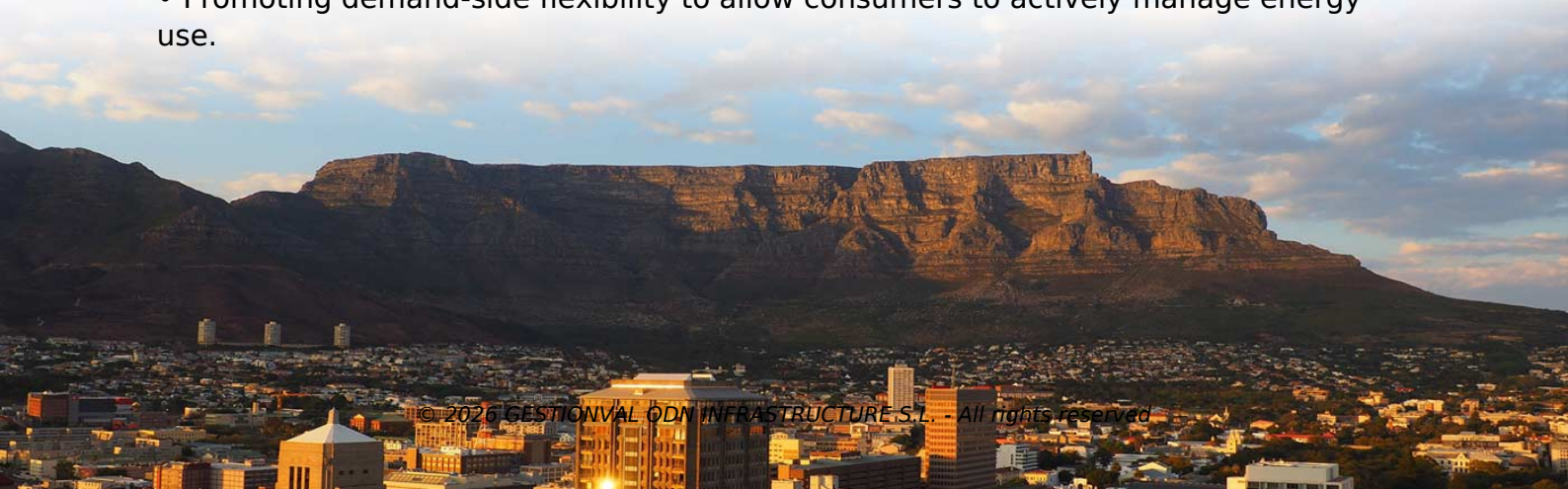
DOE Invests \$61 Million for Smart Buildings that Accelerate WASHINGTON, D.C. — The U.S. Department of Energy (DOE) today announced \$61 million for 10 pilot.

Key Takeaways

The EU supports over 55 smart energy and digitalisation projects aimed at accelerating decarbonisation, integrating AI, and enhancing energy efficiency across Europe. Overview of Smart Energy Projects

The EU has launched numerous initiatives to modernise energy systems, combining smart grids, energy storage, and digitalisation to improve efficiency, flexibility, and sustainability. These projects are often funded through Horizon Europe, LIFE, and Digital Europe programmes, and focus on integrating renewable energy, reducing carbon emissions, and enabling consumer participation in energy management. Key objectives include:

- Optimising electricity grids using AI and digital tools to balance supply and demand.
- Enhancing energy efficiency in buildings, industry, and transport.
- Promoting demand-side flexibility to allow consumers to actively manage energy use.



- Integrating data centres sustainably into the energy system to support cloud computing and AI technologies .

Notable Initiatives and Clusters

- iENERGY provides a database of European and global smart energy projects, highlighting activities in energy flexibility, security, and storage .
- Smart Energy Cluster is a collaborative network of over 20 EU projects, aiming to merge energy services, overcome market fragmentation, and accelerate sustainable energy solutions .
- AI.grids initiative focuses on developing pan-European AI models for power grid optimisation, improving operational efficiency and reliability .

Alignment with EU Policy

These projects support the “Fit for 55” package, which targets a 55% reduction in greenhouse gas emissions by 2030 and promotes electrification, renewable energy adoption, and cross-industry decarbonisation . Smart energy projects contribute by:

- Facilitating indirect electrification through e-mobility, heat pumps, and renewable integration.
- Enabling data-driven energy management and digital twin simulations of the European electricity grid .
- Supporting cross-sector collaboration between energy providers, technology developers, and public authorities.

Impact and Future Directions

The combined effect of these 55+ projects is to create a more resilient, efficient, and decarbonised energy system in Europe. Future plans include expanding AI applications, integrating more renewable sources, and enhancing consumer engagement through smart metering and digital platforms . These initiatives also aim to bridge gaps between research, innovation, and market deployment, ensuring faster payback periods for sustainable energy investments . In summary, the EU's smart energy projects represent a strategic, multi-faceted approach to achieving climate goals, digital transformation, and energy security, while fostering innovation and collaboration across the continent.

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