

Who we are



Contact us

Project Coordinator:
Engineering Ingegneria Informatica S.p.A

info@bd4nrg.eu

Let's stay connected



BD4 NRG

Big Data for Next
Generation Energy

**Establishing new market
opportunities in energy sector
by unlocking and exploiting the
potential of big data**



BD4NRG project has received funding from the European Union's Horizon 2020 Research and Innovation programme under grant agreement No 872613



BD4NRG leads the way

Supporting Big Data Management in Energy sector

BD4NRG envisions to give a competitive edge to improve decision making and open new market opportunities.

Offering innovative AI-based solution

BD4NRG aims at **evolving, upscaling and demonstrating the innovative energy-tailored Big Data Analytics Toolbox** contributing significantly on addressing key challenges of the energy value chain stakeholders.

BD4NRG solution will be demonstrated to three main pillars:

BD-4-DER

Management of Distributed Energy Resources

Optimising operation and management of distributed energy resources and assets connected to the grid.

BD-4-ENEF

Investments & Efficiency in Buildings

Optimising efficiency and comfort of buildings by de-risking investments for energy efficiency as well.

BD-4-NET

Operation of Electricity Networks

Increasing the efficiency and reliability of the electricity network.

BD4NRG Solution

The BD4NRG Framework will include 4 main layers.



Data Governance Layer

State of the art solutions to act as a mediator between data users and data providers.



Scalable Big Data Management & Processing Layers

Smart management and processing of data by an intelligent information broker.



Applications Layer

Analytics services tailoring power network improvement via cross-functional decision-making to improve and optimize energy sector management.



The overall BD4NRG solution will be applied, demonstrated, and validated in 12 large-scale pilots (LSPs) across 10 EU countries.

Expected impacts

- **Infrastructures** planning and **enablement**
- Capacity building in the **big data AI-based models** for energy market.
- **Redesign** of the **energy value chain**.
- **Strengthen links with key stakeholders** of the energy value chain.
- **Interoperability** among data hubs.
- Increased **availability** of big data in energy sector.
- Integration of **digital technologies** in the energy sector.
- New **data-driven business models** for innovative **energy services**.
- Improved **energy asset management**.
- Increase of **consumers participation**.
- Validated cases to **face complexity in energy management**.
- Contribution in the **use of digital platforms** for energy.