EDP Distribution
INOVGRID

Evolution of the smartest

There’s a new paradigm in the electricity industry sector. It is based on more efficient usage of energy, supported on demand management, renewable and micro generation (distributed production), reinforcing the role of the consumer/producer and making room for an active network management.

ABOUT ENERGIAS DE PORTUGAL (EDP) DISTRIBUTION

EDP is a holding company for utilities that generate, transmit, and distribute electricity. They rank among Europe’s major electricity operators and serve nearly 12 million customers in Portugal, Spain and Brazil.

THE CHALLENGE

EDP saw the need to increase intelligence, supervision and control of the network. They wanted greater efficiency and quality of supply, and to allow for distributed generation and electrical vehicles. They branded this effort InovGrid and sought to introduce AMI improvements to their network management capability.

EDP strongly believes that InovGrid will bring significant benefits to customers, with increased control over energy consumed, lower costs, increased flexibility of tariffs and value added services.

The InovGrid project will respond to the challenges and opportunities, bringing benefits to all users and stakeholders. These benefits will help them perform efficiently, and effectively bring them to a new stage towards Active Network Management.

THE ANSWER

Solution overview

In consortium with two other technology providers, we provided a three-level infrastructure for EDP Distribution:

- New AMI platform with Supervision/Control Room component using CGI Sm@rtering solution.
- Distribution Transformer Controller at secondary substation
- Energy Boxes (metering devices) on client premises

InovGrid has been selected by the European Union Commission and Eurelectric as a leading smart grids reference project in Europe.

CASE STUDY
UTILITIES

Key Benefits

Consumer/producer
- Improved access to micro generation
- Reduced energy costs
- Innovative tariffs and price plans

Supplier
- Ability to offer new services
- Improved customer relationship
- Reduced entry barriers

DSO
- Reduced network losses and operational and maintenance costs
- Optimized network management and control
- Optimized investment
- Improved quality and reliability

Regulator & National Economy
- Increased market efficiency, competition and reliability
- Modern economy, sustainability
- Support for penetration of renewable energy
- Boost to R&D and economy

Architecture
**Project ambition**

Ultimately, InovGrid project will support six million customers located across Portugal. Starting with a Smart City initiative in Évora (35,000 clients), there will be a rollout across the country.

The project targets a Smart Grid since the early stage and encompasses smart metering, distribution management and integration of micro generation (photovoltaic and wind) and electric vehicles.

**WHAT CGI DELIVERED**

- The new AMI platform, using our Sm@rtering solution
  - Collect and storage of all meter readings
  - Services Platform, integrated with EDP technical and commercial systems
  - Event and Incident Management for the new infrastructure monitoring
  - Support for network management functionalities
  - Adaptation of the existing corporate systems and processes to manage and benefit from the new information.

**WHY WORK WITH CGI**

Our industry knowledge, technical excellence and global delivery expertise ensure we have an excellent track record in the industry. We are known for our depth of understanding of the markets in which we operate. By building on the extensive experience and practical knowledge of our consultants, we are consistently at the forefront of innovation in the utilities industry.

The solutions that we have developed will help you to evolve your operations and realize the benefits that Smart makes possible. We understand, innovate and continue to deliver. When projects are large, complex and critical, organizations around the world trust CGI to make it happen.

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For more information, please contact us at info@cgi.com or visit www.cgi.com.