

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)

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.



KEY BENEFITS

Consumer/producer

- Improved access to distributed and micro-Generation,
- Reduced energy costs,
- Innovative tariffs and price plans.

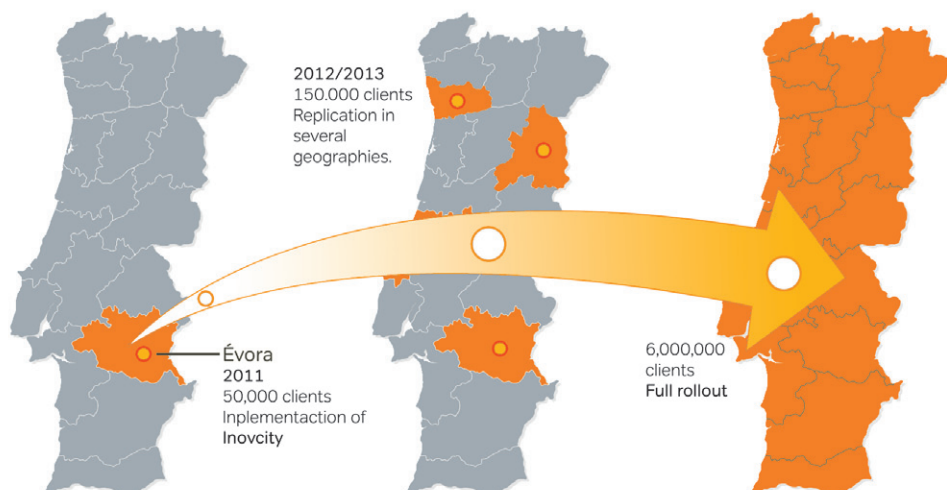
Supplier

- Ability to offer new services,
- Improved customer relationship management,
- Reduced entry barriers.

OUR ANSWER

Summary

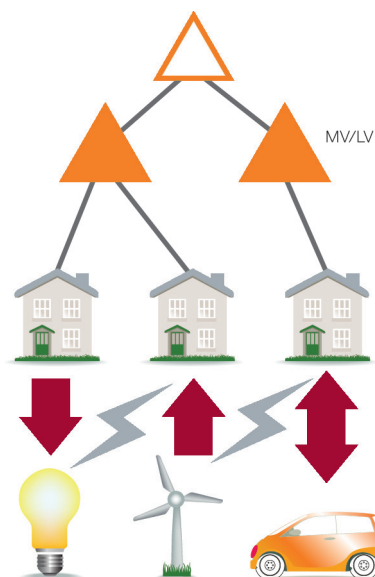
Ultimately, InovGrid project will support six million customers located across Portugal. Starting with a Smart City initiative in Évora (35.000 clients), there will be a rollout across the country. The project targets a Smart Grid since the early stage and encompasses smart metering, distribution management and integration of micro-generation (photovoltaic and wind) and electric vehicles.



What we are doing

In consortium with two other Portuguese technology providers, we are supporting a three-level infrastructure for EdP Distribution:

- supervision of Energy Boxes (metering devices) installed on client premises,
- supervision of the Distribution Transformer Controller at the medium voltage to low voltage distribution transformer level,
- implementation of the new AMI platform with Supervision/Control Room component both based on our Sm@rtering solution.



Distribution Network Electrical Infrastructure

DSO

- Reduced network operational and maintenance costs,
- Reduced network losses,
- Optimised network management and control,
- Optimised investment,
- Improved quality and reliability of supply.

Regulator

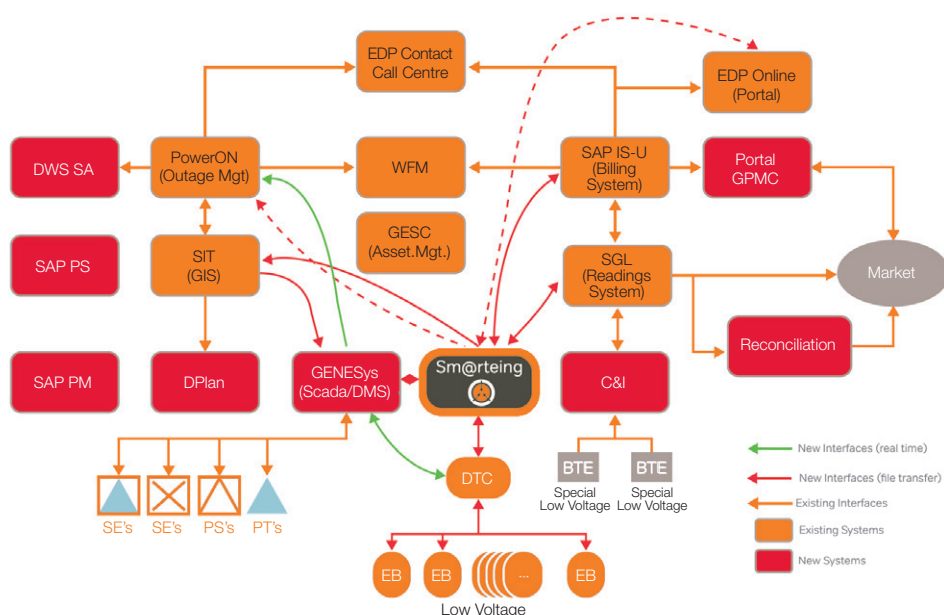
- Increased market efficiency and competition,
- Continuous improvement in reliability and quality,
- Modern economy, environment sustainability.

National economy

- Improved energy efficiency,
- Support for penetration of renewable energy reducing dependency on fossil resources,
- Development of competency centres and boost to R&D and economy,
- Convergence to European energy goals.

We were also responsible for:

- Working together with EDP to define new 'end-to-end' business processes empowered by new functionalities provided by AMI implemented on distribution network,
- Adapting the existing corporate systems (GIS, Outage Management, Asset Management, Work Force Management, Billing System, Customer Information and others) to the new processes integrated with Sm@rtering, supported by service oriented architecture.



WE PLAYED A MAIN ROLE IN:

- AMI implementation
- Sm@rtering platform
- New interfaces to support 20 end to end business processes to handle over 100 infrastructure services
- SmartGrid Control Room
- Impact and changes in existing systems
- Outage Management
- Meter Asset Management
- SAP IS-U
- GIS
- Work Force Management
- Legacy Meter Readings System
- Call Centre
- Portal EdP

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.

We understand the powerful relationship between the three elements of the physical infrastructure, the market infrastructure and consumers that combine to create the benefit of Smart. We know how our clients can gain value from their operations in each area and across the energy value chain.

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

InovGrid Consortium



Experience the commitment®

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About CGI

Founded in 1976, CGI Group Inc. is the fifth largest independent information technology and business process services firm in the world. Approximately 69,000 professionals serve thousands of global clients from offices and delivery centers across the Americas, Europe and Asia Pacific, leveraging a comprehensive portfolio of services including high-end business and IT consulting, systems integration, application development and maintenance, infrastructure management as well as a wide range of proprietary solutions. With annualized revenue in excess of C\$10 billion and an order backlog exceeding C\$18 billion, CGI shares are listed on the TSX (GIB.A) and the NYSE (GIB). Website: www.cgi.com