



**International**  
ESBI Energy Innovation

# ESBI

# Company Profile

**ESB International**

Bringing Energy Innovation to the World...



# ESB International

**ESBI** is one of Europe's most progressive and commercially focused electricity consultancy firms with a strong international track record.



## Company facts:

- Wholly owned by ESB, Ireland's State-owned electricity company
- 1,200 employees
- €767m turnover in 2009 (latest published figures)
- Completed projects in over 115 countries
- Investments in over 2300MW of installed plant and 2500MW in development
- O&M contracts totalling approximately 4,000MW worldwide
- A strong utility-based engineering capability



# ESBI Company Profile

**ESB International** (ESBI) is a growing international energy company which invests in, builds, owns and operates power assets in Ireland and internationally. ESBI is wholly owned by the Irish state electricity company ESB, a fully integrated power utility established in 1927 which had an annual turnover in 2009 of €3.1 billion and annual sales exceeding 16,000GWh.

ESBI incorporates a multidisciplinary engineering business, comprising more than 1,200 specialist technical, engineering and commercial staff, which is responsible for the design, construction, operation and maintenance of ESB's asset portfolio.

Our engineers have developed, designed, project managed, constructed and commissioned all of the generation plants in the ESB/ESBI generation portfolio, and provide ongoing asset management and engineering services to support the development and enhancement of the Irish transmission and distribution networks. ESBI has particular expertise in the following areas:

- **Gas Turbine:** CCGT and OCGT
- **Renewable:** Wind, Tidal and Solar
- **Fossil Fuel:** Coal, Oil and Peat
- **Hydro:** Pumped Storage and Run of River/Dam
- **Transmission & Distribution:** Networks up to 400kV

As part of a vertically integrated utility, ESBI has a unique and practical insight into the commercial and operational challenges facing power asset owners. We draw on this experience to provide strategic and engineering consultancy to a broad range of international clients.

Since 1976, ESBI has completed projects in over 115 countries in Central and Eastern Europe, countries of the former Soviet Union, Asia, North America, Africa and the Middle East. Our staff have a reputation for carrying out assignments quickly, efficiently and economically and for their ability to work in harmony with people across diverse cultures and operating environments.

We have a solid track record in delivering large scale capital projects, and have developed an award winning project delivery methodology to minimise project risk and optimise long-term business benefits for power asset owners.

For over 35 years, ESBI has worked collaboratively with external clients to optimise the potential of their energy assets, drawing on the same pool of experts we use to service its own power portfolio.

ESBI primarily serves the electricity and energy sectors but also offers services in water and environment, transport, telecommunications, industry and commerce.

## ESBI offers business solutions in the following areas:

**Engineering Consultancy:** Providing a full range of integrated engineering solutions relating to all aspects of the power sector including generation, transmission and distribution.

**Operations and Maintenance:** Optimising the efficiency, availability and performance of power plants world wide.

**Strategic Consultancy:** Providing financial, commercial and technological expertise to support power project development and market change.

**Renewables:** Researching and developing technologies and solutions relating to renewable energy and decarbonisation, including wind, ocean, biomass, carbon capture and storage and environmental management.

**Carbon Solutions:** Investing in decarbonisation projects in developing countries that deliver a sustainable stream of carbon credits.



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ESBI's business solutions are underpinned by a comprehensive range of services which are delivered by a multi-disciplinary team of engineering, regulatory and commercial specialists. These services are outlined below:

## ESBI Services

### Engineering Consultancy

#### Transmission and Distribution Engineering

- substations
- overhead lines
- cables
- SCADA and telecommunications
- protection
- design and design audit
- system planning and protection studies
- operations and maintenance
- commissioning
- site supervision
- project management

#### Power Plant Engineering

- combined cycle generation
- thermal power plant
- renewables
- transmission and distribution systems
- independent power plants
- combined heat and power

### Strategic Consultancy

- institutional development and power sector restructuring
- feasibility and due diligence studies
- utility planning
- efficiency, quality and business systems audits
- techno-economic studies and financial analysis
- asset valuation and allocation
- energy efficiency and demand side management
- renewable energy (wind, ocean and biomass)
- tariff management
- change management
- regulator and electricity market analysis, support and advice
- social and environmental impact analysis
- independent power plants framework and agreements

### Operations/Management

- operation and maintenance
- system planning
- plant refurbishment and system rehabilitation
- commissioning of plant
- total utility management
- owner/operator

### Carbon Solutions

- analysis for investment clean development mechanism\* projects
- operations and maintenance support
- carbon footprint studies
- energy efficiency audits

### Environmental Consultancy

- environmental impact analysis
- water management and pollution control
- air quality and emission control
- waste management
- landfill planning and design
- catchment management and planning

### Construction and Design

- detailed design of civil, electrical and mechanical works
- substations, transmission lines and cable systems
- electrical distribution systems
- dams/tunnels/bridges/roads

\* The Clean Development Mechanism (CDM) is one of the flexibility mechanisms defined in the Kyoto Protocol (IPCC, 2007). The CDM allows industrialised countries to invest in emission reduction targets in developing countries.

# ESBI's Commitment to Excellence



## ESBI Values

Three core values **adaptability, commitment** and **progressiveness** underpin and govern ESBI's business conduct. In particular, the company is committed to the highest standards of safety, quality and sustainability across all areas of its business.

## Safety

Safe working is an integral part of how we plan, organise and undertake our business activities and operations. Our commitment to safety is reflected in our achievement of OSHAS 18001:2007 Certification across all our businesses in ESBI.

## Quality

Quality is integral to our provision of engineering and consultancy services to domestic and international customers. To this end, ESBI is certified to ISO 9001:2000 standard for Quality Management Systems.

## Corporate Social Responsibility

ESBI is committed to being a successful, responsible and progressive company contributing to the economic and social life in all the countries that we operate.

## Sustainability

ESBI is playing a leading role in delivering ESB's strategy of becoming one of the first carbon-neutral utilities in the world. This is being achieved through an investment strategy focused on developing the following:

- World class sustainable networks including smart grids/metering
- Renewable business of scale
- Best practice generation portfolio
- Significant improvements in energy efficiency

**ESB International**

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