Energy, source of development
Sustainable development: a long-standing conviction

As an independent consulting and engineering firm, IED has been involved in the provision of sustainable energy services since its creation in 1988. Our involvement extends from the study phase right through to the construction and commissioning of infrastructure such as distribution networks and renewable energy production plants.

Sustainable development has always been at the core of our approach. We are careful to provide technical solutions that are environmentally friendly and adapted to the needs of the beneficiaries, whilst also ensuring that the services provided locally are appropriate from a social and economic standpoint.

We have developed proven expertise in project management within contexts where technical proficiency must be adapted to specific sociological and contractual environments. Our expertise is grounded in local realities, thanks to a continuous presence in over forty countries through subsidiaries, project management offices, and partners. Active participation in a number of international networks ensures that our know-how is constantly updated.

We work for private investors and for clients in the public sector (power utilities, ministries, rural electrification agencies), and for international financial institutions.
Power systems, integration of renewable energy, and energy efficiency

On a local or regional scale, we undertake projects:

- **Power systems**
  Medium- and high-voltage design and implementation of network, planning, design and implementation of distribution networks to rural and urban areas, cost reduction and optimisation, end-user connections and metering.

- **Hydroelectricity**
  Regional planning, feasibility studies, development of mini and small power plants, micro hydro in villages and pico-turbines.

- **Photovoltaics**
  Stand-alone individual and community systems, hybrid plants in villages, solar farms connected to the grid.

- **Biomass**
  Cogeneration for agro-industry, biogas and gasifiers, improved stoves, sustainable management of wood resources.

- **Energy efficiency**
  In industry and commercial buildings (insulation, air conditioning, lighting, flow management, etc.), and in power grids (loss reduction).

We play an active part in sharing experiences on an international level, through numerous expert networks (CLUB-ER, IEA, ARE, etc.).

Specific capacity building activities systematically provided to the contracting authorities, the local operators and the end-users.

Structuring of new institutions and innovative approaches: laws and regulations, drafting of process manuals, human resource assessments, training programmes.

Detailed design studies, technical specifications and generation systems engineering, power transmission and distribution.

Drafting of tender documents, management of supply and works contracts, acceptance in factory and on site, performance monitoring.

Social and sustainable engineering by matching technical choices to the needs of the beneficiaries.

Analysis of the electricity market: socio-economic surveys, demand forecasting.

Techno-economic studies, elaboration of financing schemes.

Mobilisation of funds and financial engineering for public-private partnerships.

Formulation of regulatory frameworks and financial mechanisms: incentive schemes, dedicated lines of credit.
Innovation Energie Développement

Tools

Based on our operational experience, we have developed decision support tools that are made available to our clients:

**GeoSim**

GeoSim is a rural electrification planning tool. It is an interactive software based on a Geographic Information System Database to create and optimize planning scenarios for rural electrification. GeoSim can be linked up to a Web-based interactive visualisation platform.

**Demand Analyst**

A disaggregated approach to load forecasting in rural electrification contexts, at the village level or over a selected area.

**PV Manager**

Software for billing, management and technical monitoring of large Solar Home System programmes.

**MG Manager**

Software for billing, management and technical monitoring of a mini power grid.

IED operates in more than forty countries

AFRICA

More than half of IED’s activity takes place in Africa. IED has worked in most countries in Sub-Saharan Africa, with a stronger presence in Central and Western Africa, and more recently in Eastern and Southern Africa. IED has a number of subsidiaries (Burkina Faso, Cameroon, Mali, etc.) and project management offices (Benin, Tanzania, Mauritania, etc.) on the African continent.

ASIA

Historically present in South Asia (India), IED has developed a continuous presence in South-East Asia, and particularly in Cambodia with one subsidiary, as well as in Laos, the Philippines and Indonesia.

EUROPE

IED’s presence in Europe and in France in particular, is organised around two themes: energy efficiency and the development of renewable energy.

AROUND THE WORLD

In addition to its core areas of Africa, Asia and Europe, IED also works in other regions (such as the Pacific Islands and the Caribbean, the Maghreb). IED has contributed a number of strategic and forward looking publications for international institutions (such as the International Energy Agency, the French Agency for Development, the European commission), on themes such as access to electrical services or the deployment of renewable energy systems.