

# Energy, source of development



## IED AT A GLANCE

**A**t IED, we have gathered over two decades of experience in sustainable energy systems. We have a culturally diverse team composed of employees originating from some fifteen countries, and are currently focused on Africa and Asia where we conduct 90 % of our business. We are pleased with our achievements so far and excited about the new challenges that lie ahead.

Our role as consulting engineers places us at the heart of realities that are often conflicting: social, financial, and logistical realities on the one hand; and administrative requirements, non-negotiable deadlines, and technical constraints on the other.

Our vision of our mission inspires us to find the best possible course looking beyond conventional approaches in order to sustainably meet the needs of beneficiaries.

Denis Rambaud-Measson  
Chairman



Anjali Shanker  
Managing Director



## 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.



An international team



## Our Corporate Social Responsibility

- Offsetting of carbon emissions generated by our business travel, car pooling, use of green electricity, rationalisation of our energy consumption, systematic recycling.
- Purchasing of fair trade consumer goods.
- Social fund supporting projects where employees are personally committed: more than 20 projects have already received support, including rehabilitation and education of street children in India, building a library and a rural school in Burkina Faso, fighting against dyslexia, offering music classes in the hospital of Lyon, supporting sport associations such as handball and rugby.





## 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)



## Communication, training and capacity building

- ☞ 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

## Infrastructure engineering

- ☞ 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

## Project financing

- ☞ 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

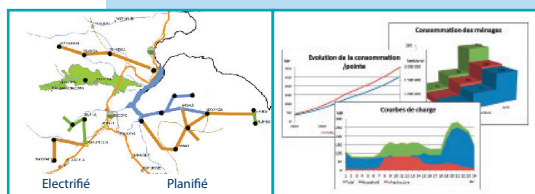


## Tools

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.



**GISELEC** : a specialized tool, built on the GIS technology, with the objective of streamlining electrical lines design through electrical and mechanical calculation



**GAP** : a software for the analysis of energy power systems and generation expansion planning.

**DAP** : a software designed to forecast the demand and the peak load and prepare Demand Side Management (DSM) actions.

**NAP** : a professional tool to analyze and plan transmission network through advanced load flow calculation.

**IED** operates  
in more than  
fourty 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.



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