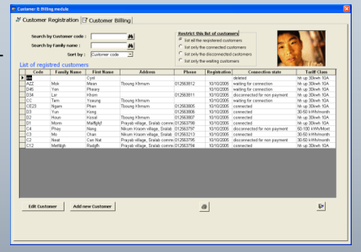
MANAGEMENT Mini-grids and SHS

MG MANAGER©

Management tool for mini-network operators, MG Manager offers various modules to simplify the day-to-day management and operation of the company.

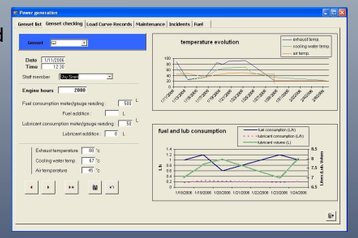
- customer management,
- monitoring of maintenance operations (production and distribution),
- billing and payment collection.
- performance monitoring



PV MANAGER©

Management tool for distributors and installers of solar home systems distributed to individuals.

- monitoring of the clientele and the reception of their facilities,
- stock management,
- billing and payment collection,
- monitoring of technical and financial performance.



Our References

Many institutions in the world trust our IT solutions and use our software. Some references….

Institutions and national agencies

- Rural Electrification Development Agency (ADER, Madagascar)
- Electrification Development Funds (FDE, Burkina Faso)
- Benin Rural Electrification and Demand Side Management Agency (ABERME, Benin)
- Rural Energy Agency (REA, Tanzania)
- Ministry of Water and Energy (MINEE, Cameroon)
- Ministry of Industry, Mines and Energy (MIME, Cambodia)
- Rural Electrification Funds (REF, Cambodia)
- Ministry of Energy and Mines (MEM, Lao PDR)

Utilities

- SONABEL (Burkina Faso)
- TANESCO (Tanzania)
- EEPCO (Ethiopia)
- SBEE (Benin)
- CI-ENERGIES (Côte d'Ivoire)
- ENEMALTA (Malte)
- SENELEC (Senegal)

Private companies

- TPF (Belgium)
- RMT-EIFFAGE (Germany)
- EKDS Nouvelle (Ivory Coast)

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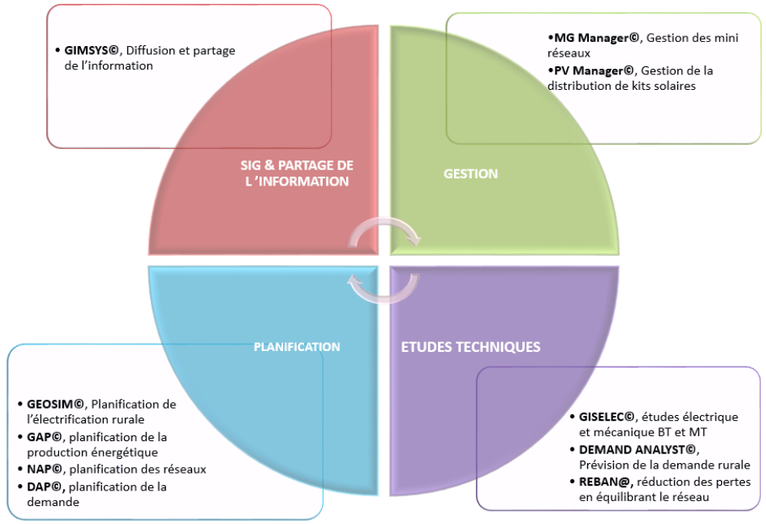
SOFTWARE & IT SOLUTIONS

Electrical Sector and Renewable Energies

WHO ARE WE?

IED is an independent company specialized in the field of **rural electrification** and **renewable energies.** From planning to operational management, IED offers a wide range of IT solutions tailored to your electrification, network reinforcement and renewable energy projects.
Specialized tools for institutions, companies, local authorities and consulting firms involved in the energy sector.



GIS AT THE SERVICE OF PLANNING ACCESS TO ENERGY

Geographic information systems (GIS) have the capacity to store and use alphanumeric data as well as geographic data offering new opportunities for the decentralized rural planning sector, energy production and demand assessment.

IED combines its knowledge of the energy sector with its solid expertise in the design of information systems, the development of alphanumeric and cartographic databases and spatial analysis through several GIS software (MapInfo, ArcGis, Manifold, QGIS).

The data collection (alphanumeric and cartographic) and its consolidation (geographic, topographical, demographic, socio-economic data, etc.) is one of the main capabilities and qualities of IED experts who are used to operating in contexts where data access is often difficult.

- **Overlay of multisectoral data**

  Visualization of different layers of data to take into account a large number of factors influencing the final decision: socio-economic infrastructure, road networks, rivers, protected areas, ...)

- **Publication of decision support maps**

  Production of detailed decision-making maps for decision-makers (wind farm identification, energy constraints, social and environmental impact ...)

- **Dissemination, communication and consensus of data**

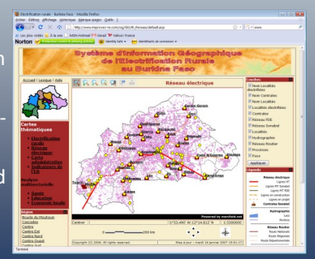
  Communication on geographical data, in electronic, paper or on the Internet. They promote a better understanding of the issues and therefore an easier consensus on energy projects.

SHARING AND DISSEMINATION OF INFORMATION

GIMSYS©

Internet platform stored on the cloud, sharing and disseminating information based on GIS technology. GIMSYS © offers:

- Map access to information and the possibility of decentralized updating of geo-referenced data without software
- Universal or protected access to information through a simple, user-friendly and cartographic interface.
- Update real-time georeferenced data from mobile devices



PLANNING
Rural electrification and conventionnal sector

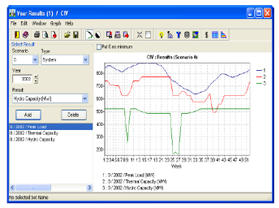
GEOSIM©

Geospatial rural electrification planning software exploiting the power of Geographic Information Systems (GIS)

- Spatial analysis and Identification of Development Poles,
- Load forecast
- Identification of least-cost electrification options (grid extension, decentralized solar, hydro, biomass or hybrid diesel / wind and solar projects as well as distributed solutions)

GAP©

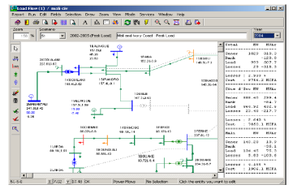
GAP is a software for analysis and planning of generation systems including hydroelectric and thermal powerplants and wind farms, solar parks and energy storage. At the heart of the GAP lies a stochastic model of production simulation, calculating the technical and economic results of different generation park expansion scenarios.



NAP©

NAP is a complete software for the analysis and planning of electrical networks. A single graphical interface groups together several calculation modules:

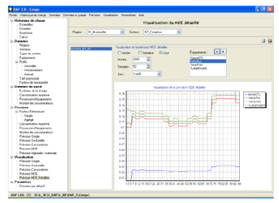
- Instantaneous Load Flow (ILF)
- Load Flow with constraints (CPF)
- Optimized Load Flow (OPF)
- Short-circuit (SCC)
- Incident Simulation (OUTSIM)
- Stability calculation (STABIL).



DAP©

DAP is a software designed both to forecast the demand and the peak load, and to prepare actions of Demand Side Management (DSM).
DAP has four applications:

- Simple trend forecast,
- Sector trend forecast,
- Customer trend forecast,
- DSM forecast



TECHNICAL STUDIES
Electrical and mechanical calculation

DEMAND ANALYST©

Software for forecasting electricity demand in rural areas. The tool is based on a "bottom-up" model fed in advance by surveys conducted at the household level and village infrastructures in order to model the evolution of consumption / peak.

GISELEC©

Electrical and mechanical calculation software based on Geographical Information Systems (GIS) technology to calculate and design distribution networks to build. GISELEC© optimally designs both LV and MV networks with the help of catalogues of equipment adapted to each project environment and restores the quantity of materials required for tenders (supports, armaments, drivers, etc.).

REBAN©

REBAN provides traditional functions of low voltage network calculation software. From the description of the network and its loads (which can be individualized or distributed linearly), REBAN renders power transits and their margins, voltage drops and their gravity, and finally power losses.