LOAD FORECASTING

DURATION

4 days

TARGET AUDIENCE

Ministries in charge of infrastructures planning (health, education, water, transportation, energy, …)

Rural electrification agencies

National utilities

Engineering firms

Engineering school

Electric systems operators

Independent consultants

QUELQUES REFERENCES
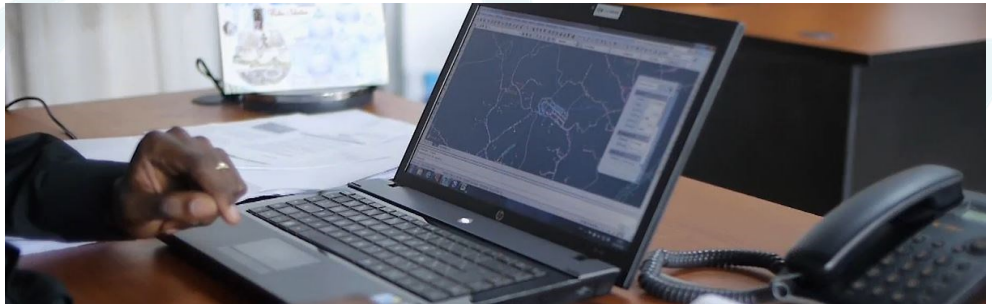
CI-ENERGIES (Ivory Coast)

REA (Tanzania)

MIME (Cambodia)

SBEE (Benin)

USED TOOLS

Demand Analyst© , Survey Analyst

Innovation Énergie Développement

2 chemin de la Chauderaie

69340 Francheville FRANCE

Telephone : +33 4 72 59 13 20

Fax : +33 4 72 59 13 39

Mail : ied@ied-sa.fr

Website: www.ied-sa.fr

OBJECTIVES

This course examines all functionalities of the Load Forecasting software Demand Analyst© and provides keys to the creation of a forecasting model adapted to the context of each study. Demand Analyst© is characterized by a "bottom up" approach disaggregated by consumer type, thus allowing for a fine analysis of load curves, essential for accurate sizing of systems, and ensuring profitability of the power plants. The course begins with the task of organizing a household level survey to determine assumptions that will be used by Demand Analyst© software, for rural electrification situations.

TRAINING PROGRAMME

1. Field level energy survey for load forecasting
♦ Sampling and methodology
♦ Templates and use of the survey-processing tool : Survey Analyst
♦ Statistical analysis of survey results
Practical session : cleaning, analysing and using a survey file

2. Load Forecasting
♦ Advantage of using an adequate load forecasting approach
♦ Presentation of Demand Analyst©
♦ Comparative scenarios
Practical session 1 : Using a set of data from surveys
Practical session 2 : Analysis of demand at the scale of a group of village

3. Advanced - Sensitivity analysis
♦ Synchronisation factor
♦ Integrating industrial activities into the model
♦ Sensitivity analysis and assumptions
♦ Result interpretation and use