



Institut International d'Ingénierie de l'Eau et de l'Environnement
International Institute for Water and Environmental Engineering

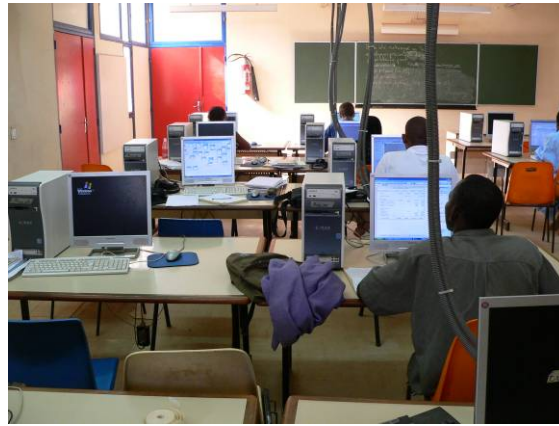


2iE : AN INTERNATIONAL SCIENTIFIC AND CAPACITY BUILDING PLATFORM IN THE HEART OF WESTERN AFRICA



High Education & Research Institution

- On site High Education : BSc, MSc and PhD
- Distance learning High Education : BSc and MSc
- Vocational training: short courses and professional degrees
- Research and Development: Focus on innovation
- Engineering





2010-2015 Research Activities

■ Development of Research based on

□ An International PhD program

- Partnership with 14 Universities (France, Ghana, Switzerland, Ivory Coast, Burkina and USA)

□ 4 thematic programs:

- Secure Water for Africa: SWAF
- Access to Sustainable Energy for All in Africa : ASENAA
- Sustainable and Safety Urban Life : SSAUL
- Innovation and Green Business for Africa : IGBA

□ 6 international standard laboratories:

- Water
- Energy (Renewable)
- Environment
- Eco-materials



Laboratory of Solar Energy and Energy Savings (SEESL)

- Accurate assessment of the solar resource and energy needs in Africa
 - ✓ *Elaboration of database and maps of DNI (direct normal irradiation) in Africa*
 - ✓ *Elaboration of maps for energy needs in Africa (south of Sahara)*
- Concentrating solar power plants (CSPP)
- Bioclimatic architecture & Solar PV / thermal (low temperature) Systems
- Optimal design and thermodynamic optimization of energy systems & Energy Efficiency

Solar PV field
2.85 KWp



Diesel generator
11.5 KVA

Pilot of « Flexy Energy »



Laboratory of Biomass Energy and Biofuels (LBEB)

- Alternative energy for rural areas: biomass and bio-fuel, thermochemical conversion
- Adaptation of gasoline engines to vegetal oils
- Esterification of vegetal oils to biofuels
- Activated carbon for water and waste treatment



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2iE/LBEB: Research on Biofuels



AFRETEP meeting- ISPRA- 2010



www.2ie-edu.org

Merci!

Our main partners

