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# Poverty Alleviation through Cleaner Energy from Agro-Industries in Africa

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PACEAA

PACEAA cooperates closely with two large initiatives from the agro-industries in East and Southern Africa, both supported by the Global Environment Facility (GEF) through UNEP. From the GEF project point of view, the activities thus focus on the electricity generation side, whereby CO<sub>2</sub> emissions are reduced. The PACEAA project integrates with the two GEF projects but focuses on the use of electricity, and especially its potential consumption by communities surrounding and associated with the agro-industries. The Project “Greening the Tea Industry in East Africa (GTIEA)” (<http://greeningtea.unep.org/> <sup>[1]</sup>) executed by the East Africa Tea Trade Association (EATTA) will support the development of small hydropower for the tea factories as a substitute for expensive and unreliable electricity from the grid and diesel backup power. The project “Cogen for Africa” (<http://cogen.unep.org/> <sup>[2]</sup>) executed by AFREPREN/FWD aims to help transform the cogeneration industry in Eastern and Southern Africa into a profitable cogeneration market.

## Results

- A framework for the removal of policy, commercial and regulatory barriers that are currently restricting the uptake of rural electrification from cogeneration and renewable energy systems from agricultural industries in East and Southern Africa.
- Detailed policy and regulatory guidelines and financial incentives for agriculture sector involvement in rural electrification for selected countries.
- Completed methodology and tools for rural electrification plans for regions with agro-industries interested in cleaner energy project development.
- Enhanced local, national and regional capacity for successful rural electrification development in the vicinity of cogeneration and small hydro projects led by agro-industries.

## Lesson learned

- An appropriate policy and regulatory environment was a crucial requirement for the PACEAA project objectives to be met, and consequently for rural communities to realize the intended benefits.
- Findings from field investigations indicate that most community members know the benefits of electricity, and many of them have made attempts at getting access to electricity through government RE programmes. High costs and other barriers have however frustrated their efforts and as a result the members have despaired.
- In most cases, members of the local communities are not aware that use of the power sources that are within their reach can be more sustainable, due to substantially lower environmental and social downsides. It is therefore necessary to close or reduce the communities’ knowledge gaps.

## Partners and coordinator

<a href="#">Danmarks Tekniske Universitet / Technical University of Denmark</a> [3]	Denmark
<a href="#">INNOVATION ENERGIE DEVELOPPEMENT</a> [4]	France
<a href="#">United Nations Environment Programme - Division of Technology Industry and Economics</a> [5]	France

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## Budget

Overall budget: 1.267.242,00 € (EU contribution: 50,00 %)

## Key documents

- [Review of national frameworks](#) [6]  
PDF 1.48 MB 
- [Summary Slides](#) [7]  
PPT 1.47 MB 
- [Rural Electrification Plan report Giciye\\_V3](#) [8]  
PDF 2.19 MB 
- [Rural Electrification Plan report Kipchoria\\_V9](#) [9]  
PDF 3.72 MB 
- [Rural Electrification Plan report Lujeri\\_V5](#) [10]  
PDF 4.02 MB 
- [Rural Electrification Plan report Suma\\_V5](#) [11]  
PDF 2.26 MB 
- [Newsletter n. 1](#) [12]  
PDF 363.41 KB 

- [Newsletter n. 2](#) [13]  
PDF 1.48 MB 
- [Business Models](#) [14]  
PDF 1.25 MB 

## In brief

Sector: Sub-Saharan Africa

Duration: 01/09/2007 to 31/08/2010

Contract number: EICOO/EIE/06/247/2006

Website: <http://www.paceaa.org>

### Tags:

agroindustry  
electricity  
CO2

## Related projects

- [\[ENABLE\]](#) [15] Building capacity in renewables in the health, education and water sectors...
- [\[MIRREIA\]](#) [16] Mitigating Risk and Strengthening Capacity for Rural Electricity...
- [\[REEPASA\]](#) [17] Renewable and Efficient Energy for Poverty Alleviation in Southern Africa
- [\[RIAED\]](#) [18] Réseau International d'Accès aux Energies Durables

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**Source URL:** <https://ec.europa.eu/energy/intelligent/projects/en/projects/paceaa>

### Links

[1] <http://greeningtea.unep.org/>

[2] <http://cogen.unep.org/>

[3] <https://ec.europa.eu/energy/intelligent/projects/en/partners/dtu>

[4] <https://ec.europa.eu/energy/intelligent/projects/en/partners/innovation-energie-developpement>

[5] <https://ec.europa.eu/energy/intelligent/projects/en/partners/united-nations-environment-programme-division-technology-industry-and-economics>

[6] [https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/paceaa\\_review\\_of\\_national\\_frameworks\\_en.pdf](https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/paceaa_review_of_national_frameworks_en.pdf)

[7] [https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/paceaa\\_summary\\_slides.ppt](https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/paceaa_summary_slides.ppt)

[8] [https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/paceaa\\_rural\\_electrification\\_plan\\_report\\_giciye\\_v3.pdf](https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/paceaa_rural_electrification_plan_report_giciye_v3.pdf)

[9] [https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/paceaa\\_rural\\_electrification\\_plan\\_report\\_kipchoria\\_v9.pdf](https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/paceaa_rural_electrification_plan_report_kipchoria_v9.pdf)

[10] [https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/paceaa\\_rural\\_electrification\\_](https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/paceaa_rural_electrification_)

plan\_report\_lujeri\_v5.pdf

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[https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/paceaa\\_rural\\_electrification\\_plan\\_report\\_suma\\_v5.pdf](https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/paceaa_rural_electrification_plan_report_suma_v5.pdf)

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[https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/paceaa\\_newsletter\\_n.\\_1.pdf](https://ec.europa.eu/energy/intelligent/projects/sites/iee-projects/files/projects/documents/paceaa_newsletter_n._1.pdf)

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