



Bioenergy: the overlooked contributor to the 1.5°C climate objective



Sustainable wood energy as a contribution to Forest Landscape Restoration



Dr. Tiziana Pirelli
Dr. Cisco Aust

Objective

Building or strengthening synergies between
modern wood energy & FLR realms



**350 Mha
by 2030**

Sustainable practices along the value chain as opportunities for synergies between WE & FLR

Transition towards modern wood energy systems

- Preserve biodiversity
- SFM practices
- Forest planning
- Add value to waste and residues of woody industry;
- reduce losses;
- enhance efficiency;
- promote FFPOs;

Woody biomass
supply

Biomass pre-
treatment

Bioenergy
production and
use

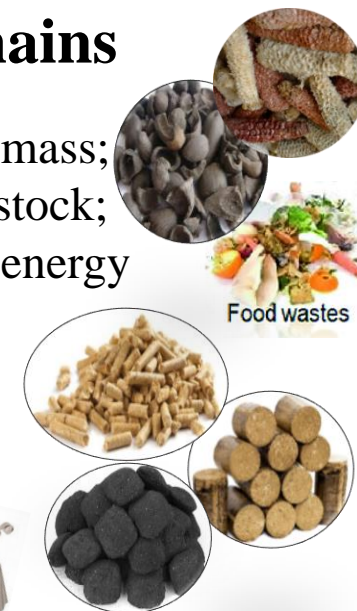
Add value to
bioenergy
by-products

Support alternative, local and short bioenergy value chains

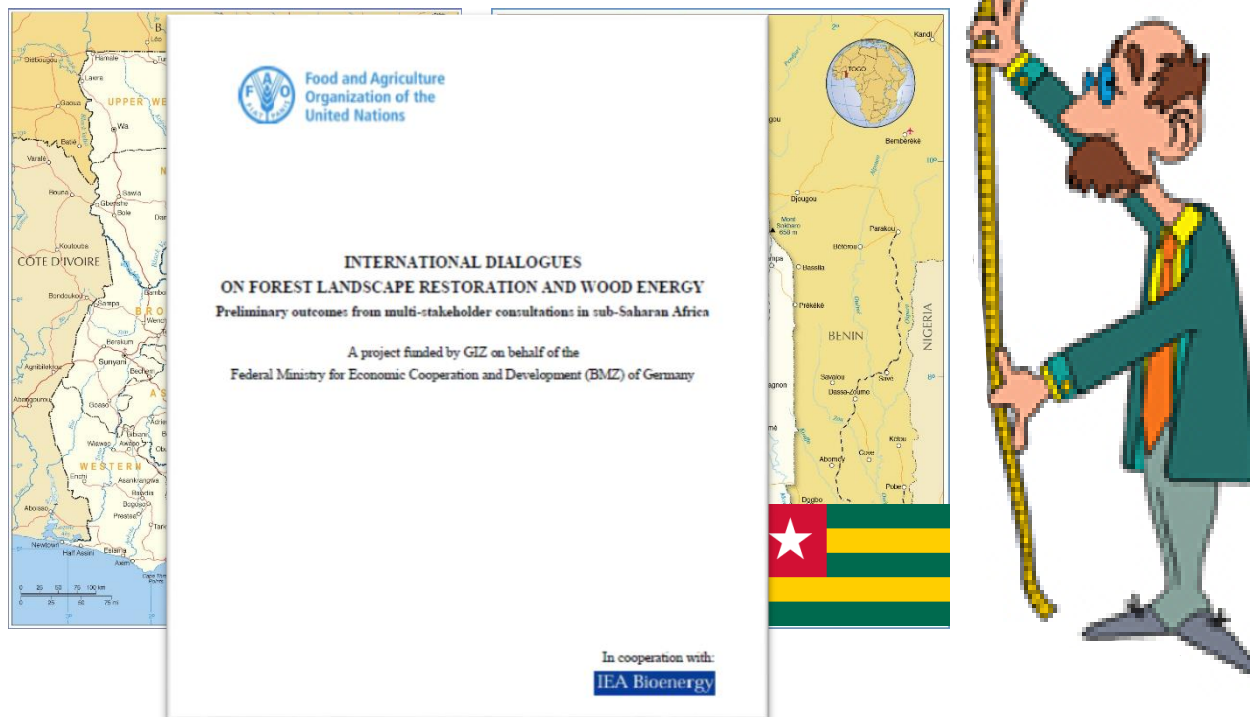
- Alternative biomass;
- Improved feedstock;
- Alternative bioenergy value chains.



Biogas digesters



Modern bioenergy is not a "one size fits all" solution



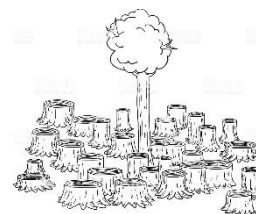
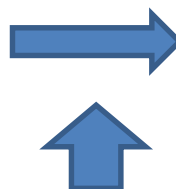
**National dialogues among Wood Energy & FLR stakeholders
performed in Togo and Ghana**

Feasibility studies and long term monitoring are key

IKI project: Forest Landscape Restoration through a sustainable wood-energy value chain in Ghana

2/3 of rural population depend on wood-energy

~ 2 Mill. tons of charcoal production per year



One main driver for
deforestation in
Ghana

Project

Increase sustainable
management



Increase biomass
resources



Reduce demand on
energy wood



Good practices and lessons learned are accessible to all on the web



READ

Working paper:

[International dialogues on FLR and wood energy. Preliminary outcomes from multi-stakeholder consultations in sub-Saharan Africa.](#)



LISTEN

Interactive sessions and Webinars:

1. [Positive Relationships between Sustainable Wood Energy and Forest Landscape Restoration](#);
2. [Climate-Smart Biochar Systems: opportunities and challenges](#);
3. [GLF Bonn 2018](#): Contribution of a sustainable wood energy production approach to FLR in Sub-Saharan Africa (SSA);
4. [GLF Accra 2019](#): 3rd Dialogue on FLR and Bioenergy.



WATCH

Video:

<https://www.youtube.com/watch?v=FniFP-5dYtc>



Thank you!

Contact us:

Dr. Tiziana Pirelli,

Global Bioenergy Partnership (GBEP)

Food and Agriculture Organization of the United Nations

GBEP-Secretariat@fao.org



Dr. Cisco Aust, GIZ Ghana, cisco.aust@giz.de

GIZ Ghana: <https://www.giz.de/en/worldwide/324.html>

IKI Projects: https://www.international-climate-initiative.com/en/projects?iki_lang=en

