Piloting the GBEP Sustainability Indicators in Ghana

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Ghana Renewable Energy Agency

Global Bioenergy Partnership (GBEP) Seminar, 18 June 2012, Rio de Janeiro
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1.1 Project partners

- Funded by: NLAgency (Dutch government)

- Ghana + ECOWAS partners:
  - Ghana Renewable Energy Agency
  - Council for Scientific and Industrial Research
  - Ghana Energy Commission
  - ECREEE

- Assisted by: Partners for Innovation (Netherlands)
1.2 Goals of the Ghana pilot

1. How to use GBEP Sustainability Indicators as a tool to:
   - Assess sustainability of the Ghanaian bio-energy sector
   - Develop sustainable bioenergy policies

2. Learning lessons on using the indicators:
   - Enhance their practicality for policymakers
   - Spread experiences within ECOWAS / GBEP
1.3 Stakeholder group

- Dr. A.B. Salifu, Director-General, **CSIR**
- Dr. Hakeem Wemah, **Northern Development Forum**
- Dr. Agyekum Hene, Africa Biofuel **Renewable Energy Company**
- Mr. Salifu Abdul-Razak Ziblim, **Min. Food and Agri.** (MoFA) - DCS
- Dr. Komla B. Kotatsi, **Min. of Environment, Sci. and Tech.** (MEST)
- Mrs. Florence Agyei, **Environmental Protection Agency** (EPA)
- Prof. Abeeku Brew-Hammond, Energy Centre, **KNUST**, Kumasi
- Mr. Kwabena A. Otu-Danquah, **Energy Commission**
- Dr. Beatrice Mensah, **CSIR-Institute of Industrial Research**
- Representative, **Ministry of Lands and Natural Resources**
- **Forestry Commission**
1.4 Involved Research Institutes

- CSIR-FORIG: Forestry Research Institute Ghana
- CSIR-IIR: Institute for Industrial Research
- ISSER: Institute of Statistical, Social and Economic Research
## 2.0 Status of activities

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<td>• Stakeholder identification</td>
<td>• Policy Stakeholder Group</td>
<td>• Data assessment: availability, quality and usefulness</td>
<td>• Workshop with policymakers</td>
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<td>• Policy inventory</td>
<td>• Terms of Reference Research Institutes</td>
<td>• Workshop with policymakers</td>
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<td>• Selection of indicators</td>
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<td>• Pre-selection of Research Institutes</td>
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2.1 Research Institutes

- CSIR-FORIG: Environmental Indicators
- ISSER: Social Indicators
- CSIR-IIR: Economic Indicators
## 2.2 Selected indicators

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<th>Environmental</th>
<th>Social</th>
<th>Economic</th>
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<tr>
<td>1. Life-cycle GHG emissions</td>
<td>9. Allocation and tenure of land for new bioenergy production</td>
<td>17. Productivity</td>
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<td>3. Harvest levels of wood resources</td>
<td>11. Change in income</td>
<td>19. Gross value added</td>
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<td>4. Emissions of non-GHG air pollutants, including air toxics</td>
<td>12. Jobs in the bioenergy sector</td>
<td>20. Change in consumption of fossil fuels and traditional use of biomass</td>
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<td>5. Water use and efficiency</td>
<td>13. Change in unpaid time spent by women and children collecting biomass</td>
<td>21. Training and re-qualification of the workforce</td>
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<td>6. Water quality</td>
<td>14. Bioenergy used to expand access to modern energy services</td>
<td>22. Energy diversity</td>
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<td>7. Biological diversity in the landscape</td>
<td>15. Change in mortality and burden of disease attributable to indoor smoke</td>
<td>23. Infrastructure and logistics for distribution of bioenergy</td>
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3.0 Assignments for Institutes

**Aim:**
1. Collect most appropriate (existing) data
2. Assess usefulness, availability and quality
3. Provide recommendations for improved data collection and use
4. Propose baseline values for most important indicators

- GBEP Indicator report is starting point for the work to be carried out
- Uniform reporting in a prescribed Excel template
3.1 Deliverables Institutes

- Mid July 2012: draft Final report Institutes
- Mid August 2012: Final report Institutes
3.2 Example reporting

**Indicator 2: Soil carbon**

Percentage of land for which soil quality, in particular in terms of soil organic carbon, is maintained or improved out of total land on which bioenergy feedstock is cultivated or harvested. The indicator applies to bioenergy production from all bioenergy feedstocks.
THANK YOU

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