



**DIRECTORATE GENERAL OF NEW, RENEWABLE ENERGY, AND ENERGY CONSERVATION
MINISTRY OF ENERGY AND MINERAL RESOURCES – REPUBLIC OF INDONESIA**

Implementation of GBEP Sustainability Indicators of Bioenergy

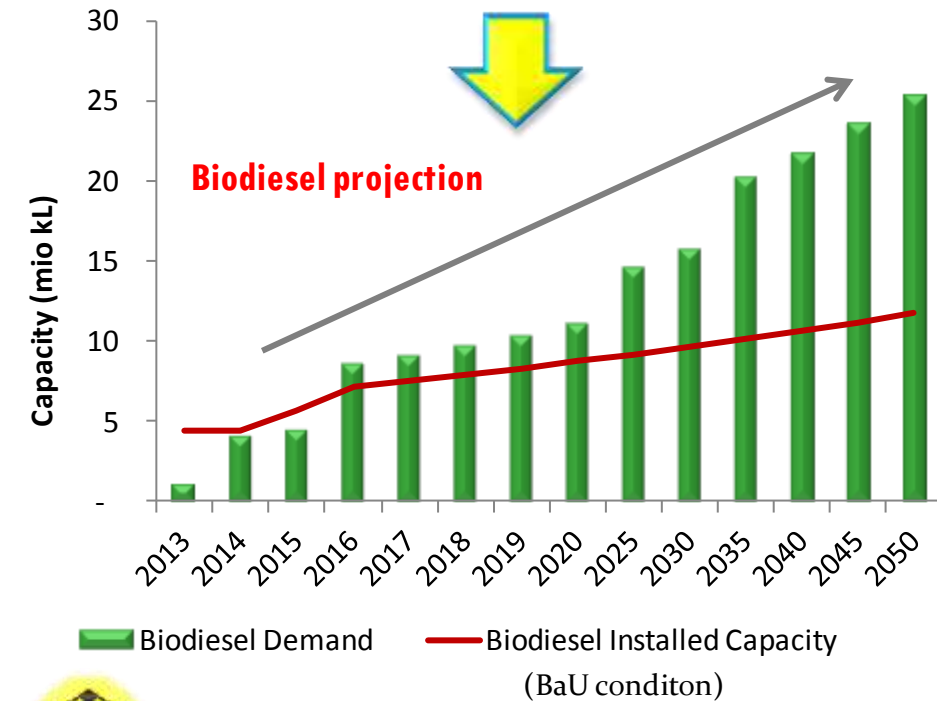
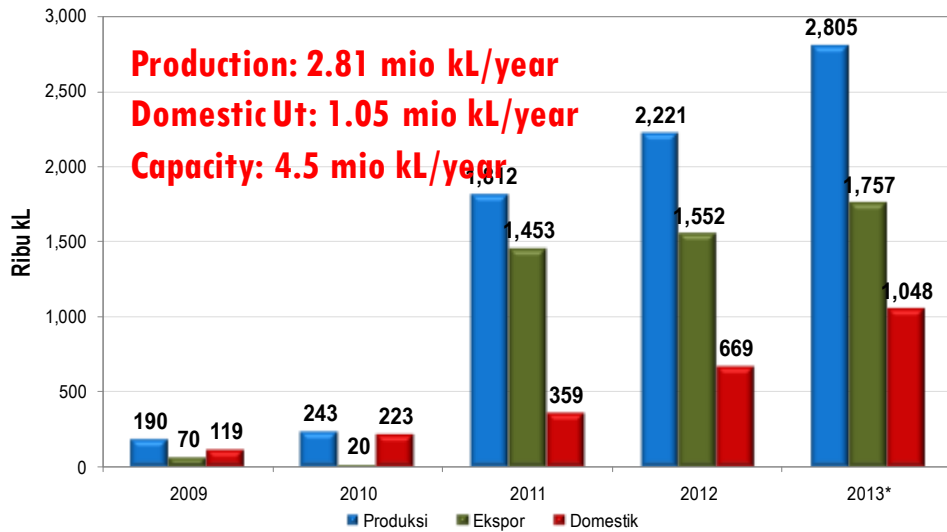
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Directorate of Bioenergy

**GBEP Working Group on Capacity Building for Sustainable Bioenergy (WGCB)
Bonn, 3rd July 2014**

OUTLINE

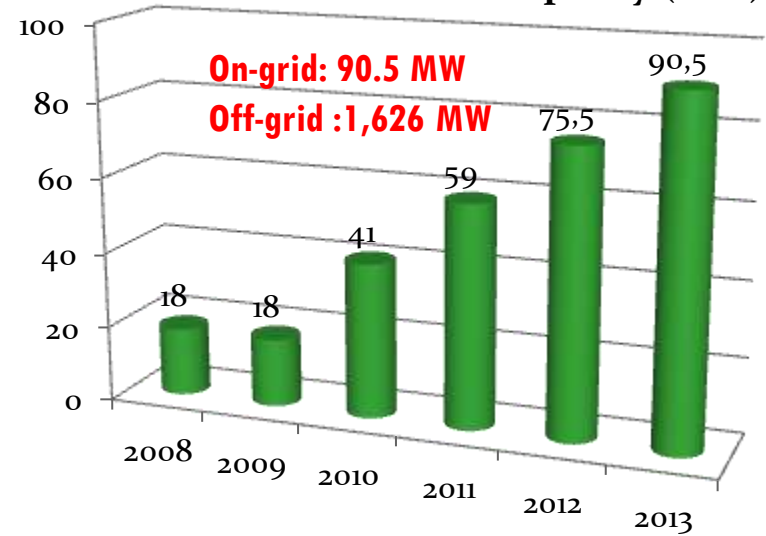
- **OVERVIEW**
- **LESSONS LEARNED**
- **NEXT STEPS**

BIODIESEL

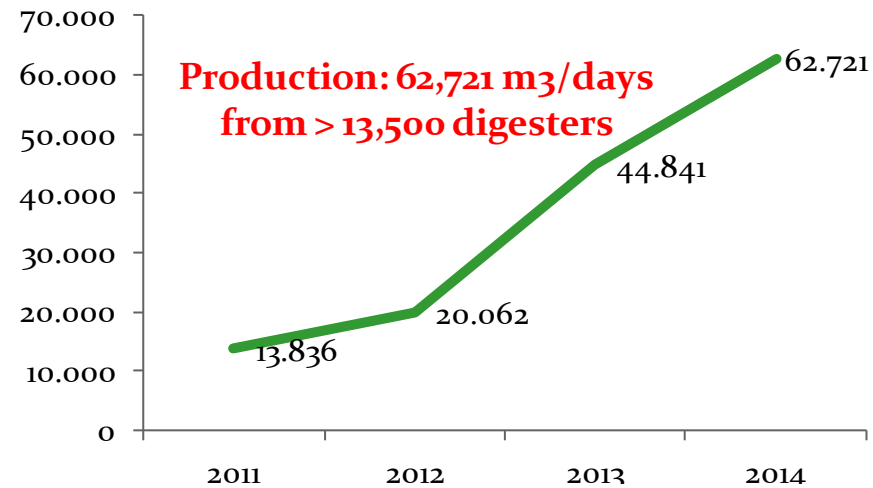


BIOMASS POWER PLANT

Installed Capacity (MW)



HOUSEHOLD BIOGAS



Pilot Testing of GBEP indicators in Indonesia

- Agreement between FAO and DGNREEC, Ministry of EMR.
- Involving all national stakeholders.
- 2011: First round of assessment on all 24 indicators (Cooperation Phase 1).
- 2013: Assessment on Indicator 10 “Price and supply of a national food basket” Tier II.
- 2014:
 - 14th April 2014 in Jakarta, Indonesia: Kick-off Meeting of Cooperation Phase 2.
 - 15th-16th April 2014 April in Bogor, Indonesia: GHG calculation tool “BioGrace” Workshop.

Lessons Learned

- Data availability, quality, and access. It spans across many sectors and stakeholders and most is still not decentralized.
- Assessment on indicator 10 “Price and supply of a national food basket”: it would be useful to estimate at what level of utilization (quantity) of palm oil as feedstock for biodiesel Indonesia will face substantial sustainability issues (e.g food vs fuel).

Current situation:

- Palm oil production is about 30 million ton per year with export rate is about 21 million ton per annum.
- In 2030, biodiesel demand is projected about 15 mio kL, while the CPO production is estimated 40 mio ton per year.
- Despite the domestic demand of biodiesel is substantially increasing due to the national mandate, the biodiesel price is not increasing.

Next Activities

- Commencing Phase 2.
- Discussion on assessment results for Indicator 10 “Price and supply of a national food basket” Tier III.
August 2014: training on tool for indicator 10 “Price and supply of a national food basket” Tier III.
- Completing assessment on Indicators 1,2,3,5,7,8 and 23:
Indicator 1 “Life-cycle GHG emissions”
Indicator 2 “Soil quality”
Indicator 3 “Harvest levels of wood resources”
Indicator 5 “Water use and efficiency”
Indicator 7 “Biological diversity in landscape”
Indicator 8 “Land use and land use change related to bioenergy feedstock production”
Indicator 23 “Infrastructure and logistic for distribution of bioenergy”
- September 2014: training on an advanced GHG calculation tool.



Thank You

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