Why are we here?

Bioenergy, CCS and BECCS: Options for Indonesia, Jakarta, 21-23 September 2012

Dr Wolf Heidug
BECCS technology chain

1. Biological sequestration
2. Capture
3. Storage
What BECCS can deliver

2011 IPCC Special Report on Renewable Energy
BECCS Work Programme

- Increased relevance of BECCS for climate change - but limited action
  - No industrial champion
  - Lack of awareness among policy makers
  - Tendency to ‘fall between chairs’ in terms of markets, institutions, and know-how

- Collaborate with IIASA’s Ecosystem Services and Management Programme to complement in-house expertise
  - IEA/IIASA Expert Workshop, November 2011

- Focus on bottom-up approach – as opposed to top-down

- Country-specific studies
  - Indonesia – 2012
  - Brazil – 2013
  - China, US, Sweden
Objectives

- Explore fit of BECCS with energy and climate policy strategy of target countries
- Analyze opportunities, understand gaps
- Capacity building

Deliverables

- Synthesis report with policy recommendations – 2014 (hopefully)
- Others – to be defined through workshops

Exploit synergies with IEA’s other CCS activities

- CO2-EOR for storage
  
  *Kick-off workshop with OPEC in Kuwait City, February 2012*

- Guidelines for storage capacity estimation
  
  *To be published beginning 2013*

- Economic analysis of long-term liability arrangement for storage
  
  *Scoping study starting October 2012*
This Workshop

- Exploring relevant issues
  - Based on climate, biomass and CCS policy in Indonesia
    - Status, plans, targets
  - Potential, cost of capture and emission reductions achievable
    - Biomass availability and supply side issues
    - Accounting and quantifying emissions reductions from BECCS
    - Sustainability/ LULUCF issues
    - Subsurface storage potential
- Policy for BECCS
  - Policy framework
  - International/bilateral funding options
  - Role of development institutions
- Next steps
  - Framing a dialogue on BECCS
  - Actions

Background material + further info: [www.iea.org → workshops](http://www.iea.org/workshops)