

International Energy Agency

Why are we here?

Dr Wolf Heidug

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



BECCS technology chain



CARBON CAPTURE AND STORAGE

- 1. Biological sequestration
- 2. Capture
- 3. Storage

© OECD/IEA 201



What BECCS can deliver



2011 IPCC Special Report on Renewable Energy

CARBON CAPTURE AND STORAGE



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 knowhow
- 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

CARBON CAPTURE AND STORAGE



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

CARBON CAPTURE AND STORAGE

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

© OECD/IEA 2010



CARBON CAPTURE

AND STORAGE

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

© OECD/IEA 2010