Open seminar on negative emissions: Bridging societal and mitigation needs
Wednesday 2nd September 2015, Hokkaido University, Japan

Global Carbon Project (GCP)
Tsukuba International Office

About GCP

The Global Carbon Project (GCP) was established in 2001 in recognition of the large scientific challenges and critical nature of the carbon cycle for Earth’s sustainability.

Diagnostics: Patterns & Vulnerability
- Carbon Budget
- Methane Budget
- Regional Carbon Cycle Assessment and Processes
- Component Assessments: forests, grasslands

Vulnerability: Processes & Feedbacks
- Carbon pools size and vulnerability (permafrost, methane hydrates, global pools assessment)
- Socio-economic drivers of emissions

Low Carbon: Carbon Manag. & Policy
- Future carbon budgets (permissible emissions)
- Urban development
- Energy-carbon-water
- Negative emissions

MaGNET Initiative: Background

Keeping global warming to no more than 2°C above pre-industrial levels be achieved? One core ingredient in the mitigation mix are negative emissions (NE)—explicitly put forth as an option also by the recent IPCC-AR5—mostly based on carbon-neutral bioenergy (due to the same amount being sequestered by feedstock growth as being emitted when combusting biomass for energy generation) combined with carbon capture and storage (BECCS), which in addition captures CO₂ during the energy production phase. MaGNET explores the opportunities of and limits to BECCS and looks into other ways of achieving sustainable NE as well.

Objectives and Agenda

The main objectives of this half-day seminar of MaGNET (Management of Negative Emission Technologies) are capacity building (e.g. at universities, research facilities) and outreach to possible stakeholders both in terms of policymakers and in terms of those parts of industry that would implement NETs, especially BECCS (Bioenergy & CCS).

Date and Venue

Wednesday, 2 September, 2015
13:30-16:30
Graduate School of Environmental Science, D201
Hokkaido University
N10W5 Sapporo, Hokkaido 060-0810

Contact Details
Ayyoob Sharifi (Executive Director)
Yukako Ojima (Administrator)

Further Information
http://www.globalcarbonproject.org/
http://www.cger.nies.go.jp/gcp/

Organizers
- Yoshihito Yamagata, NIES
- Masahiko Fujii, Hokkaido University
- Ayyoob Sharifi, NIES
- Sabine Fuss, MCC, Germany
- Florian Kraxner, IIASA, Austria

References

13:30-13:40 Welcome address and outline/rationale
13:40-14:10 The Need for Negative Emissions
14:10-14:30 From Global Biomass Issues to the Japanese situation
14:30-14:50 2nd generation agricultural biomass
14:50-15:00 Coffee break
15:00-15:20 Current trends and issues in utilizing biomass energy in Hokkaido, Japan
15:20-15:45 CCS pilot in Tomakomai - Introduction of CCS and negative emissions
15:45-16:00 CCS in Korea
16:00-16:30 Panel discussion

Welcome and Rationale
- Welcome and introduction
- Welcome address and outline/rationale

The Need for Negative Emissions
- Sabine Fuss and Pete Smith
- Current status of negative emissions
- Future potential for negative emissions

From Global Biomass Issues to the Japanese Situation
- Florian Kraxner
- Global biomass issues
- Japanese biomass issues

2nd Generation Agricultural Biomass
- Etsushi Kato
- Current status of 2nd generation biomass
- Future potential for 2nd generation biomass

Coffee Break

Current Trends and Issues in Utilizing Biomass Energy in Hokkaido, Japan
- Masahiko Fujii
- Current status of biomass energy in Hokkaido, Japan
- Future potential for biomass energy in Hokkaido, Japan

CCS Pilot in Tomakomai - Introduction of CCS and Negative Emissions
- Atsushi Kurosawa
- Current status of CCS pilot in Tomakomai
- Future potential for CCS pilot in Tomakomai

CCS in Korea
- Yowhan Son
- Current status of CCS in Korea
- Future potential for CCS in Korea

Panel Discussion
- Yoshiki Yamagata (chair)
- Discussion topics

Low Carbon: Carbon Management & Policy
- Future carbon budgets (permissible emissions)
- Urban development
- Energy-carbon-water
- Negative emissions

Contact Details

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