

3rd International CCS Symposium for Low-Carbon Society

January 23, 2016
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“3rd International CCS Symposium for Low-Carbon Society” will be held on February 16, 2016 under the sponsorship of Ministry of the Environment (MOE).

1. Symposium Outline:

The Government of Japan made a Cabinet decision on the Plan for Global Warming Countermeasures including its long-term emission reduction targets in May 2016, and the Paris Agreement entered into force in November 2016. To meet the targets and shift to low-carbon society, drastic energy saving and maximum use of renewable energy are required. Moreover, it is expected to apply Carbon Capture and Storage (CCS) technology to large-scale emission sources such as thermal power plants that will continue to emit huge amount of CO₂ for the long term through their continuing operation.

In this context, MOE started “Feasibility Study for the Introduction of Sustainable CCS Technology” in FY 2014, and “Demonstration Project of Sustainable CCS Technology” in FY 2016. This Demonstration Project includes environmental impact assessment of amine-based CO₂ separation and capture process in coal-fired power plants, development of countermeasures, and knowledge gathering about operability of such power plants as peak load power, aiming for developing effective methods to introduce CCS in Japan.

As a part of this Demonstration Project, MOE will host “3rd International CCS Symposium for Low-Carbon Society” as it did last year. This symposium will include presentations by policymakers and experts of Japan or other key countries in this field as well as the outline of MOE’s CCS project. MOE hopes that this symposium will promote the understanding and deepen the discussion on the CCS introduction.

- 2. Date:** February 16, 2017, 10:00-18:00
- 3. Venue:** THE GRAND HALL
(Shinagawa Grand Central Tower 3F, 2-16-4 Konan, Minato-ku, Tokyo)
- 4. Seating Capacity:** about 200
- 5. Host:** MOE
- 6. Secretariat:** Mizuho Information & Research Institute, Inc.
- 7. Cooperation:** Global Carbon Capture and Storage Institute (GCCSI)
- 8. Language:** Japanese and English (with simultaneous interpretation)

9. Program (tentative):

MC: **Dr. Makoto Akai** (National Institute of Advanced Industrial Science and Technology)

Time	Section	Speaker Theme
10:00-10:05	Official Welcome	Mr. Hiroshi Kamagata (Global Environmental Bureau, MOE)
10:05-10:35	Lecture 1	Mr. Takehiko Fukushima (Climate Change Projects Office, Climate Change Policy Division, Global Environmental Bureau, MOE) Japan's mid-to-long term target and the role of CCS
10:35-11:15	Lecture 2	Ms. Samantha McCulloch (Carbon Capture and Storage Unit, IEA) Introduction of the report "20 years of Carbon Capture and Storage"
11:15-11:30	(Break)	
11:30-12:10	Lecture 3	Mr. Howard J Herzog (Massachusetts Institute of Technology) Cost analysis and financial opportunities on large and commercial scale CCS project
12:10-12:50	Lecture 4	Ms. Kirsty Anderson (Global CCS Institute) Global CCS status 2016
12:50-14:10	(Lunch)	
14:10-14:50	Lecture 5	Prof. Kelly Thambimuthu (IEA Greenhouse Gas R&D Programme (IEAGHG)) Progress of CO ₂ capture technology since IPCC Special Report in 2005 and its future trend
14:50-15:30	Lecture 6	Mr. Kensuke Suzuki (Toshiba Corporation) Mikawa CO ₂ Capture Project
15:30-16:10	Lecture 7	Dr. Keith Burnard (IEA Greenhouse Gas R&D Programme (IEAGHG)) Operational flexibility of power plant with capture system
16:10-16:40	(Break)	
16:40-17:55	Panel discussion	Moderator: • Dr. Shuichiro Hirai (Tokyo Institute of Technology) Panelist: • Mr. Takehiko Fukushima (Climate Change Projects Office, Climate Change Policy Division, Global Environmental Bureau, MOE) • Ms. Samantha McCulloch (Carbon Capture and Storage Unit, IEA) • Mr. Howard J Herzog (Massachusetts Institute of Technology) • Ms. Kirsty Anderson (Global CCS Institute) • Prof. Kelly Thambimuthu (IEA Greenhouse Gas R&D Programme (IEAGHG)) • Dr. Keith Burnard (IEA Greenhouse Gas R&D Programme (IEAGHG)) Necessity and challenges of CCS based on the Paris Agreement
17:55-18:00	Closing	

* See the symposium website (<http://www.ccs-symposium.jp/>) for the latest information.

10. Pre-registration:

This symposium is open to public. To participate in this symposium, please visit the symposium website (<http://www.ccs-symposium.jp/>) to register online. Please be aware that the registration will be processed on a first-come, first-served basis. After reaching the full capacity (200 persons), the registration will be closed.