

# Japan's Initiative for Putting Co-benefits Forward -Demonstrating Tangible Co-benefits Projects-

The Ministry of the Environment, Japan (MOEJ) has newly launched development and implementation of Pilot Projects for Co-benefits Clean Development Mechanism (CDM), which contributes to environmental pollution control and to addressing climate change (green house gas (GHG) emission reductions) in developing countries.

MOEJ financially supports half of initial investment of potential co-benefits CDM projects, under the condition that the support recipients will transfer 50-100% of generated Certified Emission Reductions (CERs) to Japan's national registry without any charge.

## [Malaysia] Reduction of Methane Gas Emission and Early Environmental Improvement at Pulau Burung Landfill Site

MOEJ adopted this project as the first potential co-benefits CDM project under the new support programme in September 2008.

This project will improve a municipal landfill site from anaerobic condition into semi-aerobic condition. This project will aim to reduce methane emissions from a landfill site in addition to improvement of water (leachate) quality, environmentally sound management of wastes and prevention of odor.

According to support recipient's plan, CERs generated is estimated to be 162,846tCO<sub>2</sub>e /9years and half of them (81,423tCO<sub>2</sub>e) will be transferred to Japan's national registry until February 2019.



### Climate Benefits

Estimated GHG  
emission reductions  
162,846tCO<sub>2</sub>e/9years  
(Year2010-2018)

### Local Benefits

Improvement of water quality  
Reduction of explosion risk  
Early safe closure of landfill site  
Introduction of new technology  
Prevention of odor

## [Thailand] Biogas from Ethanol Wastewater for Electricity Generation

In October, 2008, MOEJ adopted this CDM project as the second co-benefits Pilot Project. This project aims to introduce an anaerobic reactor for water quality improvement and recovery of methane (GHG). Wastewater from ethanol production process, which was discharged into lagoon in the baseline case, is properly treated and methane gas from lagoon is recovered for on-site energy use, owing to the technology transfer and initial costs partly covered by the support.

According to support recipient's plan, amount of estimated CERs generated from this project is estimated to be 79,996tCO<sub>2</sub>e /14years and half of them (40,856tCO<sub>2</sub>e) will be transferred to Japan's national registry until the end of March, 2020.



### **Climate Benefits**

Estimated GHG  
emission reductions  
79,996tCO<sub>2</sub>e/14years  
(Year2010-2024)

### **Local Benefits**

Improvement of water quality  
Reduction of cost for fossil fuel

## **MOEJ' Next Steps to Be Taken**

MOEJ accelerates efforts to implement more tangible co-benefits projects addressing the environmental pollution and climate change in developing countries by the following activities.

- Promoting development and implementation of tangible co-benefits CDM projects contributing to environmental improvement (air pollution control, water pollution control, waste management and environmentally sustainable transport)
- Increasing co-benefits projects addressing national development needs and global needs (such as climate change mitigation) in different schemes
- Developing Quantitative and Qualitative Evaluation Methods in a Measurable, Reportable, and Verifiable (MRV) manner for a better assessment of contribution to sustainable development