

# Press Release



New Energy and Industrial Technology  
Development Organization

<http://www.nedo.go.jp/english/index.html>

June 22, 2012

## Implementing GIS Projects Based On Emission Trading With Ukraine – Expected To Utilize Japan’s Advanced Energy Conservation Technologies –

The New Energy and Industrial Technology Development Organization (NEDO) and the State Environmental Investment Agency of Ukraine (SEIA) have agreed to implement 4 projects including the Replacement of Police Cars With Hybrid Vehicle Project based on the Green Investment Scheme (GIS\*<sup>1</sup>) concluded through the GIS agreement\*<sup>2</sup>.

With this agreement, the allocation of GIS financial resources Ukraine received from NEDO through emission trading has been finalized.

### 【Project Outline】

Project Title	Project Outline
i) Police Cars Replacement Project	By replacing existing police cars with highly fuel efficient hybrid vehicle, the project aims to reduce fossil fuel consumption and greenhouse gas emissions.
ii) Educational Facility “ARTEK” Energy Conservation Project	By installing solar power generation device and solar power hot water device to educational facility “ARTEK”, the project aims to reduce energy and fossil fuel consumption and greenhouse gas emissions.
iii) Horlivka City Heat Distribution Improvement Project	By dispersing existing one Horlivka City Heat Distribution Public Corporation boiler house to four, and by replacing outdated boilers with newest and high efficient boilers, the project aims to reduce fossil fuel consumption and greenhouse gas emissions.
iv) Social Project (Improvement of Heat Insulation Capacity of Public Facilities Project)	By improving heat insulation capacity of window frames and walls of 42 facilities including schools, hospitals, etc in 4 oblasts in Ukraine, the project aims to reduce greenhouse gas emissions. Including the latest agreement, social projects will be implemented at 340 places in 1 autonomous republic, and 10 oblasts.

## 1. Contact Persons

For information on the above:

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## Glossary of Terms (Reference)

\*1 GIS (Green Investment Scheme):

Under Article 17 of the Kyoto Protocol, GIS is a mechanism in the framework of international emission trading which designates the use of proceeds from AAU transfers to green house gas emission reduction and other environmental projects.

\*2 GIS agreement:

On March 18, 2009, NEDO and SEIA, formerly NEIA, concluded an AAU purchase agreement for 30million (CO<sub>2</sub> equivalent). Through this agreement, NEDO's AAU purchase funds are guaranteed to be used for greenhouse gas emission reduction and other environmental projects.

(Reference No. 1)

## Installation of Hybrid Vehicles to The Ministry of Internal Affairs of Ukraine Project

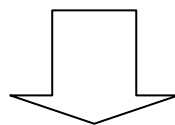
Project Implementer: Ministry of Internal Affairs of Ukraine

Project Coverage: Police cars operating at the Ministry of Internal Affairs  
of Ukraine

Project Outline: Police cars currently used in Ukraine are outdated models with low energy-efficiency, of which most are close to replacement time. By replacing those old cars with highly fuel-efficient hybrid vehicles, a 70% cut in CO<sub>2</sub> emission as compared to existing car will be achieved. Number of replacement through this project is assumed to be approximately 1,000 cars.

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< Existing Police Cars >



Hybrid Vehicles

(Reference No. 2)

## Ukraine/ARTEK Energy Conservation Project

Project Implementer: ARTEK (state-run short stay style child education facility)

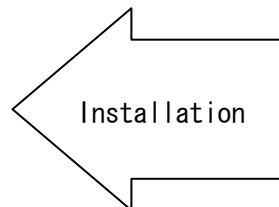
Project Coverage Region: Autonomous Republic of Crimea

Project Outline: ARTEK, built on the Black Sea in 1925 is a historical and prominent short stay style child education facility in the CIS region. This project, through installation of 1MW interconnected solar power generation device, will aim to partially replace existing energy consumption with new energy and raise the children's awareness on the importance of new energy.

With this project, approximately 2,000 tons of CO<sub>2</sub> emission reduction is expected.

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### **【Project Scheme Chart】**



## Ukraine/Horlivka Highly-Efficient Boiler Installation Project

Project Implementer: Horlivka Heat Distribution Public Corporation

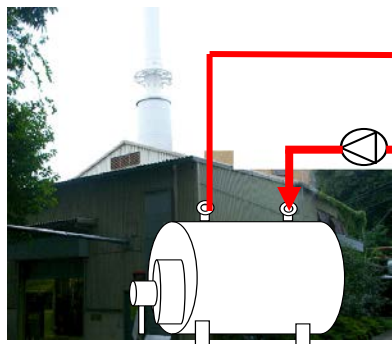
Project Coverage Region: Horlivka (Gorlovka) City, Donetsk Oblast

Project Outline:

In Horlivka, heat and hot water are distributed through the regional heat distribution system. The core boiler of the system (fuel: natural gas) was installed during the former Soviet Union era and has dilapidated. This project will replace the existing boiler house with highly-efficient new models. By increasing the numbers, boilers will be aligned closer to the point of demand in a decentralized alignment, in an aim to realize an efficient and stable heat distribution. A 30% reduction in natural gas consumption amount is assumed and greenhouse gas emission reduction is also expected.

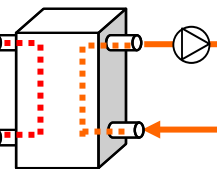
### **【Project Scheme Chart】**

Boiler House A



Highly efficient hot water boiler

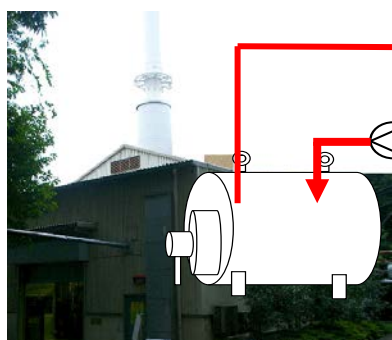
Hot water heat exchanger



Horlivka City Residential Area (a)



Boiler House B



Horlivka City Residential Area (b)



(Reference No. 4)

## Ukraine/Social Project

Competent Authority: State Environmental Investment Agency of Ukraine (SEIA)

Project Applicant: Local Autonomous Body (4 Oblasts)

Project Coverage Facility: Public Facilities Including Schools and Hospitals in Ukraine

Project Outline: Projects aim to reduce global warming by improving heat insulation capacity of window frames, walls and roofs of schools, hospitals etc. (42 facilities) in various regions in Ukraine.

Many public facilities including schools and hospitals etc. in Ukraine have dilapidated with low heat insulation capacities and are in need of renovation. Expectations from various regions are high since improving heat insulation of these facilities as GIS Projects will address the social needs, and will increase public awareness on energy conservation in Ukraine.

(Reference) Number of facilities

Region	Educational Facility	Medical Facility	Other Public Facilities	Total
Zhytomyr Oblast	0	5	0	5
Ternopil Oblast	7	0	1	8
Zaporizhia Oblast	14	9	0	23
Khmelnyskyi Oblast	5	1	0	6
Total	26	15	1	42