

Implementation of the Kyoto Protocol Mechanism in Ukraine and its' promotion of the enhancement economic energy efficiency

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Topics of presentation

- 1. Institutional Capacity Building Process
- 2. Legislative Regulation
- 3. JI projects portfolio in Ukraine



1. Institutional Capacity Building Process

- **Ministry of Environmental Protection of Ukraine** is responsible for implementation of UN FCCC and Kyoto Protocol in Ukraine and is DNA.
- **The National Action Plan** of the Implementation of Kyoto Protocol was approved by Government of 18 August 2005 and is under implementation.



2.1 Institutional Capacity Building Process

- UNFCCC Implementation Division of the Ministry of Environmental Protection of Ukraine fulfils the function of the JI office.
- In April 2007 it was created National Agency of Ecological Investments of Ukraine.
- World Bank capacity building project develops the infrastructure for GIS.



2.2 Institutional Capacity Building Process

- **National registry:** It is under installation now.
- **National Inventory System:** It was created by Government Decision “Procedure of the Functioning National System of the Estimation of Anthropogenic Emissions by Sources and Removals by Sinks of GHG not Controlled by the Montreal Protocol” (21.04. 06 p., №554)



2.3 Institutional Capacity Building Process

- **Institutions which are involved in JI:**
- Another Ministers, representatives of Academy of Science, NGOs - across of the Inter-ministries Commission of the Climate Change;
- private or public entities as owner and (or) developer of JI projects.



3. Legislative Regulation

- Government of Ukraine adopted the Resolution “On Approval of the Procedure for Consideration, Approval and Implementation of Projects Aimed at Anthropogenic Emissions Reduction or Greenhouse Gas Absorption Increase Pursuant to Kyoto Protocol to the United Nation Framework Convention on Climate Change” dated February 22, 2006 № 206



3. 1 Legislative Regulation

- Ministry of Environment Protection of Ukraine resolutions (MEP) of 17.07.06 which contains the Requirements to the PIN and PDD contents. They are registered by Ministry of Justice of Ukraine 2 August 2006 (according State Registration Procedure).
- MEP: PIN № 341, Ministry of Justice: № 925/12799
- MEP: PDD № 342, Ministry of Justice: № 926/12800



4. JI PROJECTS PORTFOLIO IN UKRAINE

- Number of submitted projects – 73
- Number of projects obtained LoE – 69
- Number of projects obtained LoE&LoA – 8
- Project cost range: \$2-60 million
- Total cost projects obtained LoE – 3.5 billion Euro
- Total average annual emission reduction – more 12 million t CO₂ eqv.



4. 1 JI PROJECTS PORTFOLIO IN UKRAINE

- Letter of Approval have got the projects:
- “Mine methane utilization at Coal Mine named after A.F. Zasyadko, Donetsk, Ukraine”, submitted by the Coal Mine named after A.F. Zasyadko located in the city of Donetsk, Ukraine, dated 4.10.2004. The estimated ERUs – 1.741.000 tons CO₂e/yr
- “Heat and Power Production on Collected Casing-head Gas at Boryslav” project, proposed by the Scientific-productive company “Eastern European Energetic Union” Ltd., located in the city Kyiv, Ukraine. The estimated ERUs – 87.500 tons CO₂e/yr



4. 2 JI PROJECTS PORTFOLIO IN UKRAINE

Letter of Approval have got the projects:

- Landfill gas utilization in Kharkiv oblast (Dergachi landfill)

The estimated ERUs – 80–90.000 tons CO₂e/yr

- Mine methane utilization at Coal Mine named “Pervomayskvuhillya”

The estimated ERUs – 57.645 tons CO₂e/yr

- Switch from wet-to-dry proces at Podilsky Cement, Ukraine.

The estimated ERUs – 620.000 tons CO₂e/yr



4.3 JI PROJECTS PORTFOLIO IN UKRAINE

- Municipal District Heating Supply System Rehabilitation in Chernihiv oblast. The estimated ERUs – 55.000 tons CO₂e/yr;
- Hydropower Station Rehabilitation Project. The estimated ERUs – 260.000 tons CO₂e/yr;
- Increasing Efficiency Energy Use at the Donetsk Mini Metallurgical Plant ISTIL. The estimated ERUs – 75.155 tons CO₂e/yr;



**PRIORITY SECTORS FOR JI ACTIVITIES:
NON-TRADITIONAL AND RENEWABLE ENERGY AND
ENERGY EFFICIENCY**

- Coal bed methane
- Landfill gas recovery
- Renewable energy
- Municipal district heating and water utilities
- Natural gas transportation and distribution systems
- Waste fuel and heat in metallurgy
- Coal and natural gas combustion systems



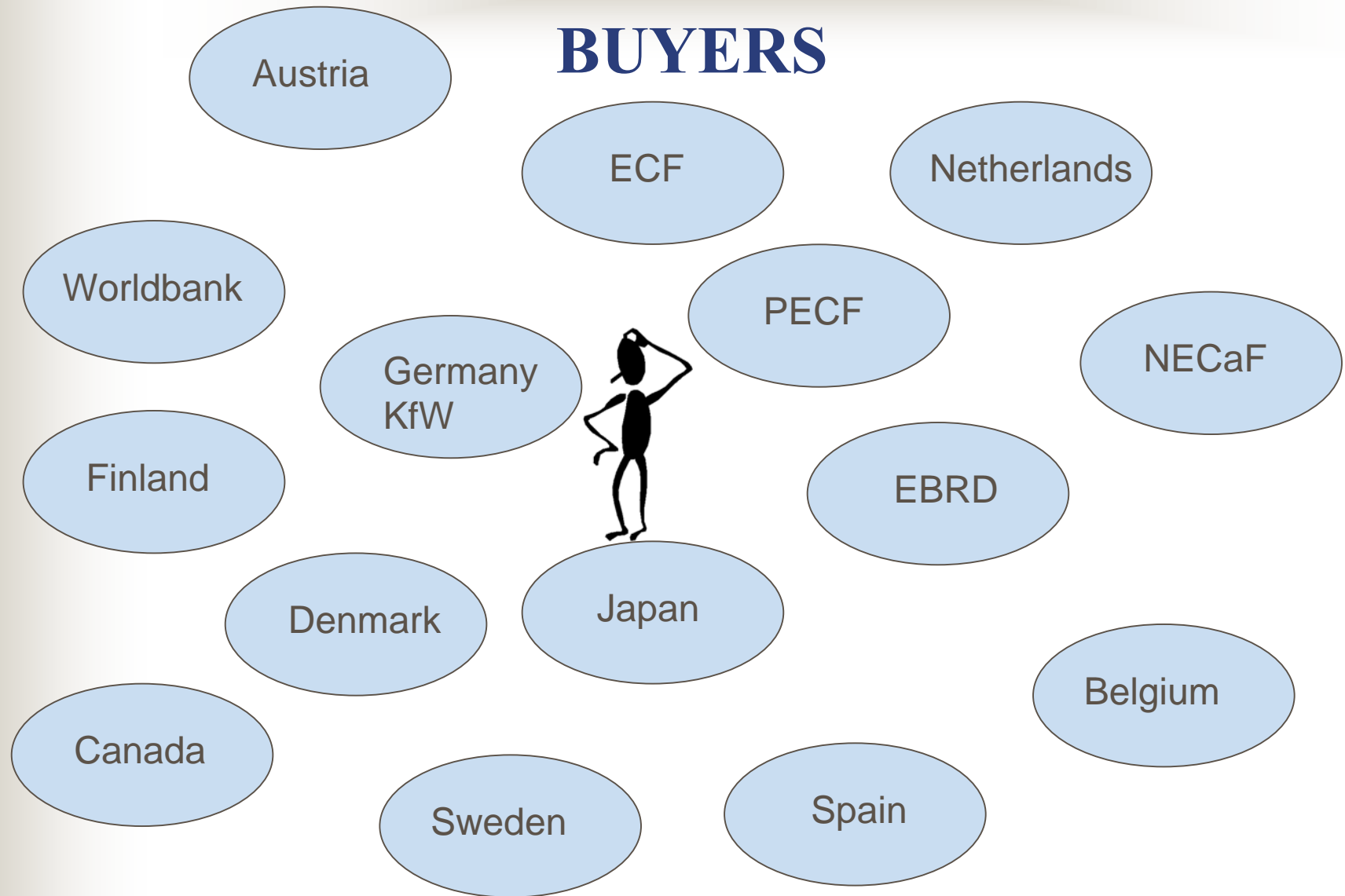
ENERGY SAVING AND CLIMATE EFFECTS FROM REALIZATION OF JI PROJECTS POTENTIAL IN UKRAINE

- Annual reduction of energy resources consumption : 4,2 - 6,8 mln tce
- Reduction of energy resources consumption assessment for 2008-2012 years: 27 mln tce
- Annual GHG emissions reduction: 8 – 12 mln t CO_{2e}
- GHG emissions reduction assessment for 2008-2012 years: 60 mln t CO_{2e}

STRUCTURE of JI PROJECTS PORTFOLIO IN UKRAINE

TOTAL NUMBER OF PROJECTS OBTAINED LOE/LOA	74	100%
Technology improvements	17	23.0%
Landfill gas utilization	16	21.6%
CHP installation	10	13.5%
Coal mine methane utilization	10	13.5%
District heating rehabilitation	8	10.8%
Energy efficiency / waste energy use	7	9.4%
Gas supplying system	3	4.0%
Biomass utilization	1	1.4%
Non-traditional and renewable sources of energy	1	1.4%
Processing of liquid wastes	1	1.4%

BUYERS





MOST ACTIVE ERUs BUYERS

- **Japan**
- **Austria**
- **Netherlands**
- **Denmark**
- **Germany**



What is needed for facilitating JI activity ?

- To develop guidelines :
- baseline methods for deferent type JI projects;
- monitoring and data report;
- undertaking additionallity tests;
- uncertainties estimation in baseline;
- for methods for using conservative assumptions;
- GHG units transaction procedure.



Thank you for your attention

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