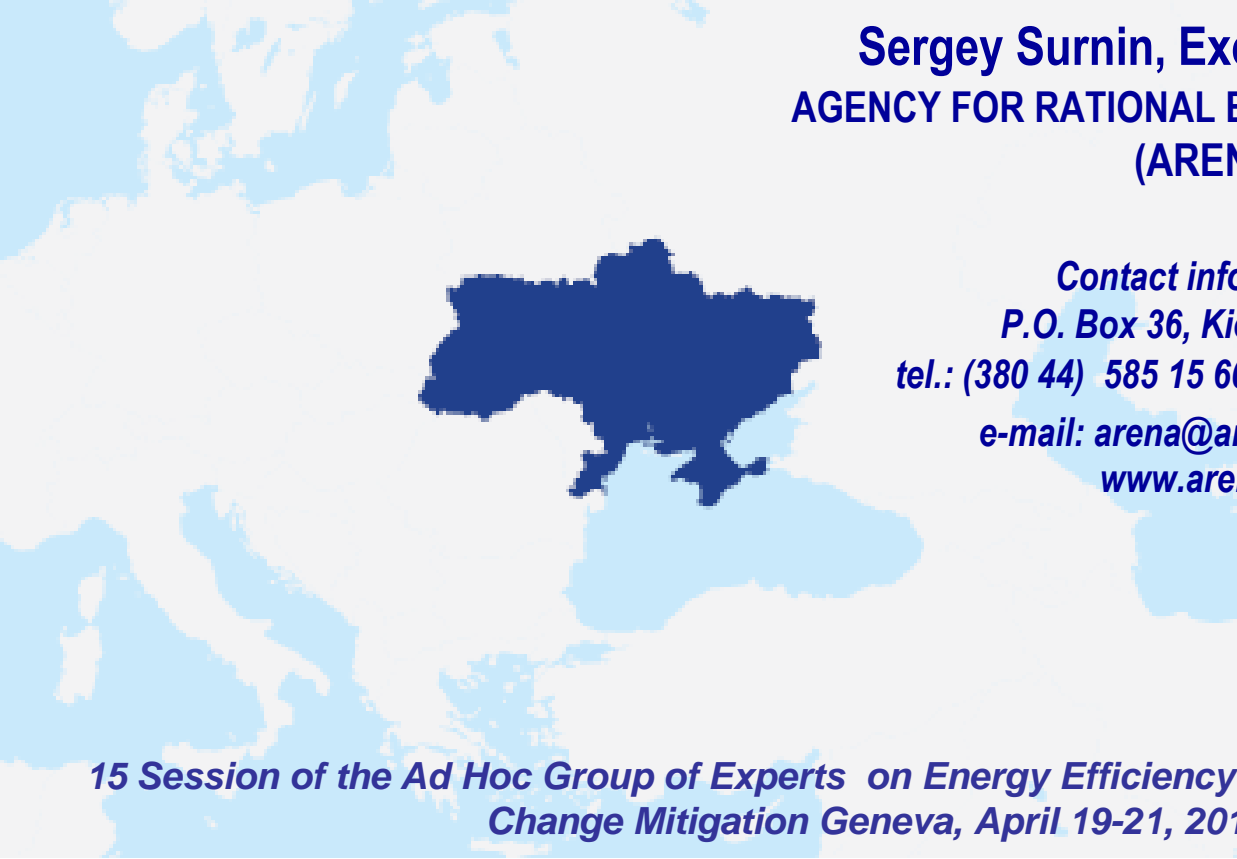


**PROJECT "FINANCING ENERGY EFFICIENCY  
INVESTMENTS FOR CLIMATE CHANGE MITIGATION"  
IN UKRAINE**



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*15 Session of the Ad Hoc Group of Experts on Energy Efficiency Investments for Climate  
Change Mitigation Geneva, April 19-21, 2010*



## GENERAL INFORMATION ABOUT THE PROJECT

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- *Project Title:* **Financing Energy Efficiency Investments for Climate Change Mitigation**
- *Project No:* **(ECE – INT- 04-318)**
- *Basis:* **Memorandum of Understanding No: ECE/GC/2008/022**
- *Client:* **United Nations Economic Commission for Europe**
- *National Participation Institution:* **Agency for Rational Energy Use and Ecology (ARENA-ECO), Kyiv, Ukraine**
- *National Project Coordinator:* **Mykola Raptsun, President, ARENA-ECO**

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## DESCRIPTION OF ASSIGNMENTS

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- **National Project Website**
- **National Energy Policy Information for Regional Analysis**
- **National Case Study**



## **STATUS OF ASSIGNMENT (1) "NATIONAL PROJECT WEBSITE"**

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- **Web-site structure, content, goal and functions have been determined**
- **Web-site working version has been prepared**
- **The following web-site sections have been filled:**
  - **Financing Energy Efficiency Investments for Climate Change Mitigation Project;**
  - **Characteristics of Ukraine as the project participant;**
  - **Ukrainian state institutions engaged in energy efficiency issues;**
  - **Eastern European Energy Efficiency Fund (EEEEF);**
  - **Energy efficiency regulatory framework;**
  - **News: UNECE and Pöyry mission in Ukraine.**

**STATUS OF ASSIGNMENT (2)****"NATIONAL ENERGY POLICY INFORMATION FOR REGIONAL ANALYSIS"**

- **Current state of energy and other economy sectors was defined, key energy efficiency developments have been listed;**
- **Energy conservation and energy efficiency legal framework has been analyzed;**
- **Energy market structure and participants have been determined, progress of reforms to introduce market-based relations have been noticed;**
- **Specific 'bottlenecks' to energy efficiency and renewable energy market formation as well as reforms to overcome these barriers in participating countries, their neighbours and western countries have been studied;**
- **Key disadvantages of the national energy efficiency policy have been outlined, and improvement recommendations have been suggested**

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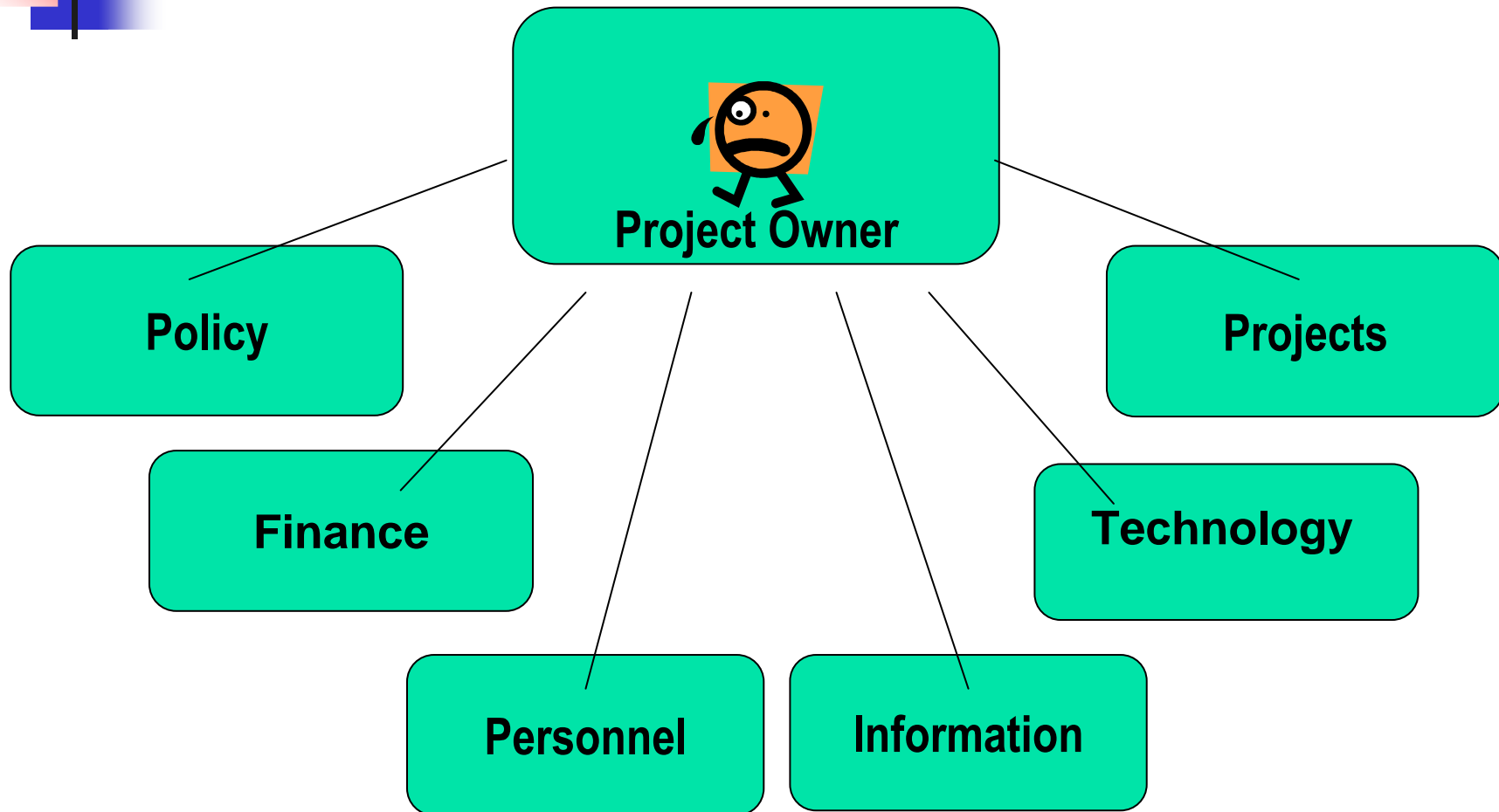
## **STATUS OF ASSIGNMENT (3) "NATIONAL CASE STUDY"**

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- Energy efficiency projects have been analyzed;
- Two energy efficiency case studies have been selected (cogeneration unit use, biofuel production);
- The project of cogeneration unit installation in Ivano-Frankovsk heating system has been described (including technical, financial and ecological indices);
- The biofuel production project has been described and project indices have been provided;
- Preconditions of reforms to encourage biofuel usage have been identified.

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## PREPARATION OF ENERGY EFFICIENCY AND RENEWABLE ENERGY USE PROJECTS (1)





## **PREPARATION OF ENERGY EFFICIENCY AND RENEWABLE ENERGY USE PROJECTS (2)**

### Policy

- Analysis of existing energy efficiency policy and reforms conduction monitoring;
- Analysis of investment and target energy efficiency programs at the state and municipal levels from the viewpoint of their financial provision;
- Analytical survey of barriers and problems on the way to investing into energy efficiency projects;
- Development of recommendations for central and local executive authorities for attraction of investments into energy efficiency and renewable energy use projects in sectors of economy.



## **PREPARATION OF ENERGY EFFICIENCY AND RENEWABLE ENERGY USE PROJECTS (3)**

### Finance

- Research of needs in capital investments of investment and target programs, and other project owners;
- Identification of financial institutions of Ukraine, which can be interested in cofinancing of energy efficiency projects and Investment Fund support;
- Development of requirements of Eastern European Energy Efficiency Fund to project owners concerning interrelation and functioning of financial mechanisms;
- Identification and preparing necessary documents for conduction of negotiations between project owners and financial institutions of Ukraine and the Fund.



## **PREPARATION OF ENERGY EFFICIENCY AND RENEWABLE ENERGY USE PROJECTS (4)**

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### Personnel (for project development)

- Formation of project development groups;
- Identification of potential energy efficiency and renewable energy use projects and preparation of business plans;
- Identification of potential suppliers of energy efficient equipment and technologies;
- Training, consulting, sharing the experience;
- Maintenance of a national website;
- Conduction of negotiations.

## **PREPARATION OF ENERGY EFFICIENCY AND RENEWABLE ENERGY USE PROJECTS (5)**

### Information

- Collecting, processing and analysis of information on the status of energy efficiency in Ukraine;
- Organization and conduction of meetings with representatives of project owners with financial institutions of Ukraine;
- Exchange of information through a regional and a national website;
- Creation of a section at the national website of the regulatory framework concerning energy efficiency and renewable energy;
- Maintenance of an investment project section at the national website;
- Maintenance section at the national website on energy efficiency and renewable energy news.



## **PREPARATION OF ENERGY EFFICIENCY AND RENEWABLE ENERGY USE PROJECTS (6)**

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### Technology

- Selection of priority sectors of economy for implementation energy efficiency and renewable energy use projects;
- Analytical survey of technologies and equipment to be used in energy efficiency projects;
- Analysis of best foreign practice on development and implementation of high technological solutions;
- Technical analysis of identified projects

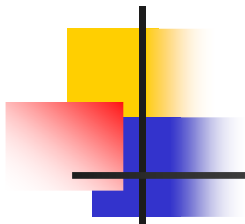


## **PREPARATION OF ENERGY EFFICIENCY AND RENEWABLE ENERGY USE PROJECTS (7)**

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### Projects

- Feasibility studies of projects development;
- Financial, economic, environmental and social analysis of identified projects;
- Development of project financing schemes and mechanism of reinforcing of financial resources;
- Identification of barriers and problems of political, regulatory, administrative and institutional nature on the way of project implementation;
- Development of recommendations facilitating project implementation.



*THANK YOU FOR ATTENTION!*

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