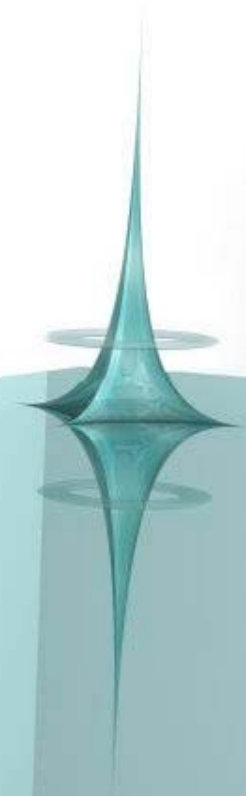
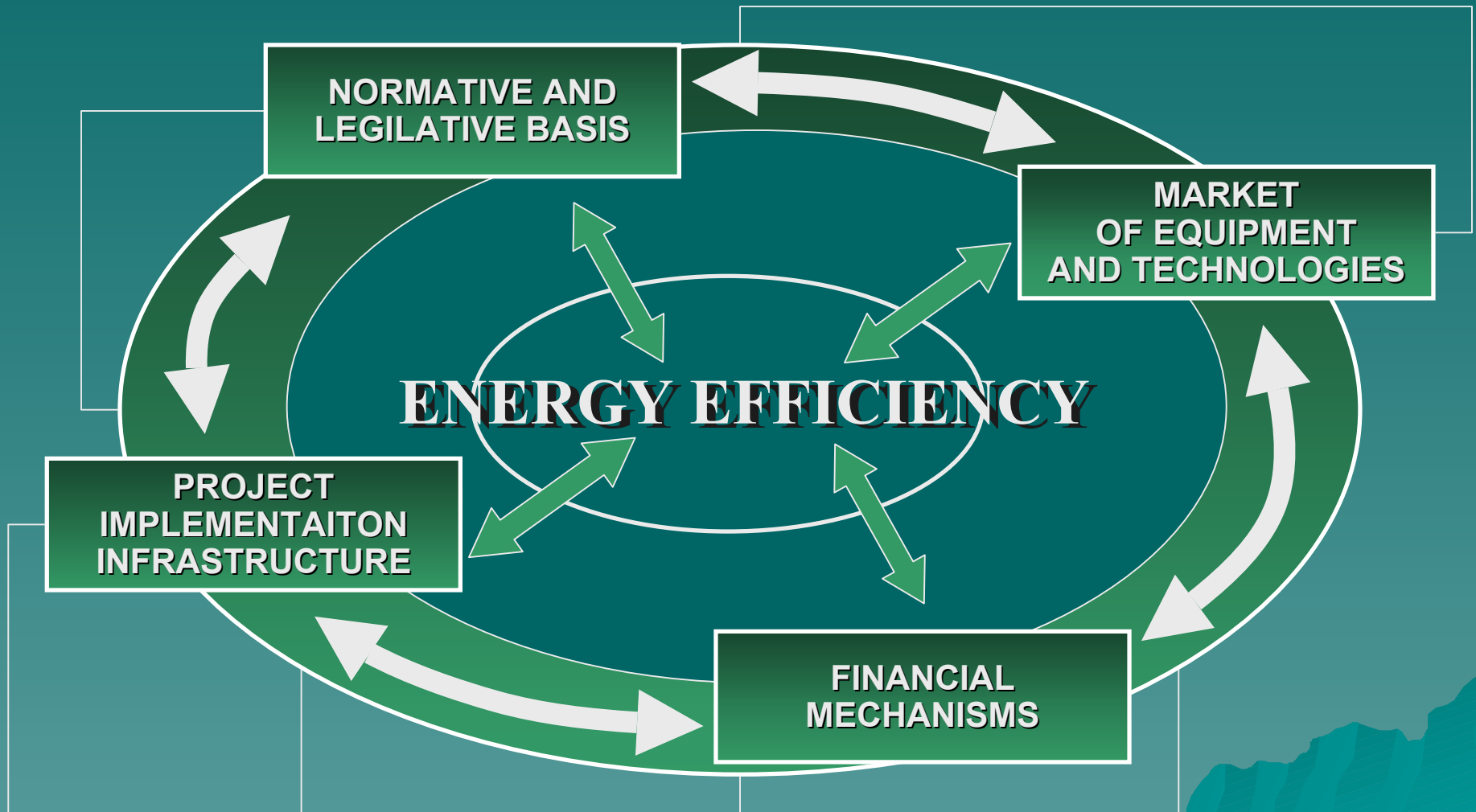


# RUSSIA - ENERGY EFFICIENCY INVESTMENTS

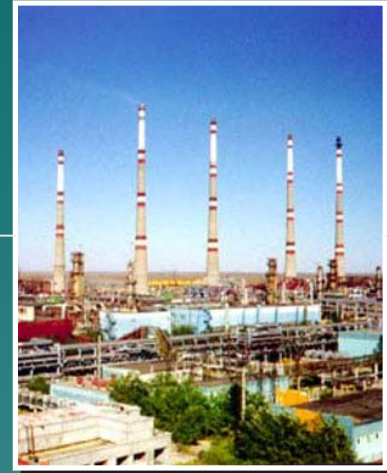


# BASIC ELEMENTS OF ENERGY SAVING



# CURRENT SITUATION ON THE MARKET OF ENERGY SAVING SERVICES

- ◆ Big companies start to establish daughter specialized structures (Gazenergo and others)



- ◆ A lot of offers in the field of ASKUE, energy audits and etc

- ◆ A lot of offers of energy efficient equipment (from Russian and foreign producers)



# PROBLEMS

- ◆ **Lack of targeted state policy on stimulating investments into energy saving (only declarations), which is characterized in undeveloped SPB, absence of specialized designated body, insurance and guaranties facilities (international practice).**



# PROBLEMS



- ◆ **Undeveloped normative and legislative basis (as on federal, as well on regional level), which would stimulate investments into energy saving as in commercial as well as budgetary spheres.**

- ◆ **Practically no specialized financial companies (banks) which offer financing for energy saving, understand financial mechanisms for energy saving and which have positive experience in implementing projects.**



# INTERNATIONAL AND FOREIGN PARTNERS (PROGRAMME) FOR ENERGY SAVING FOR RUSSIA



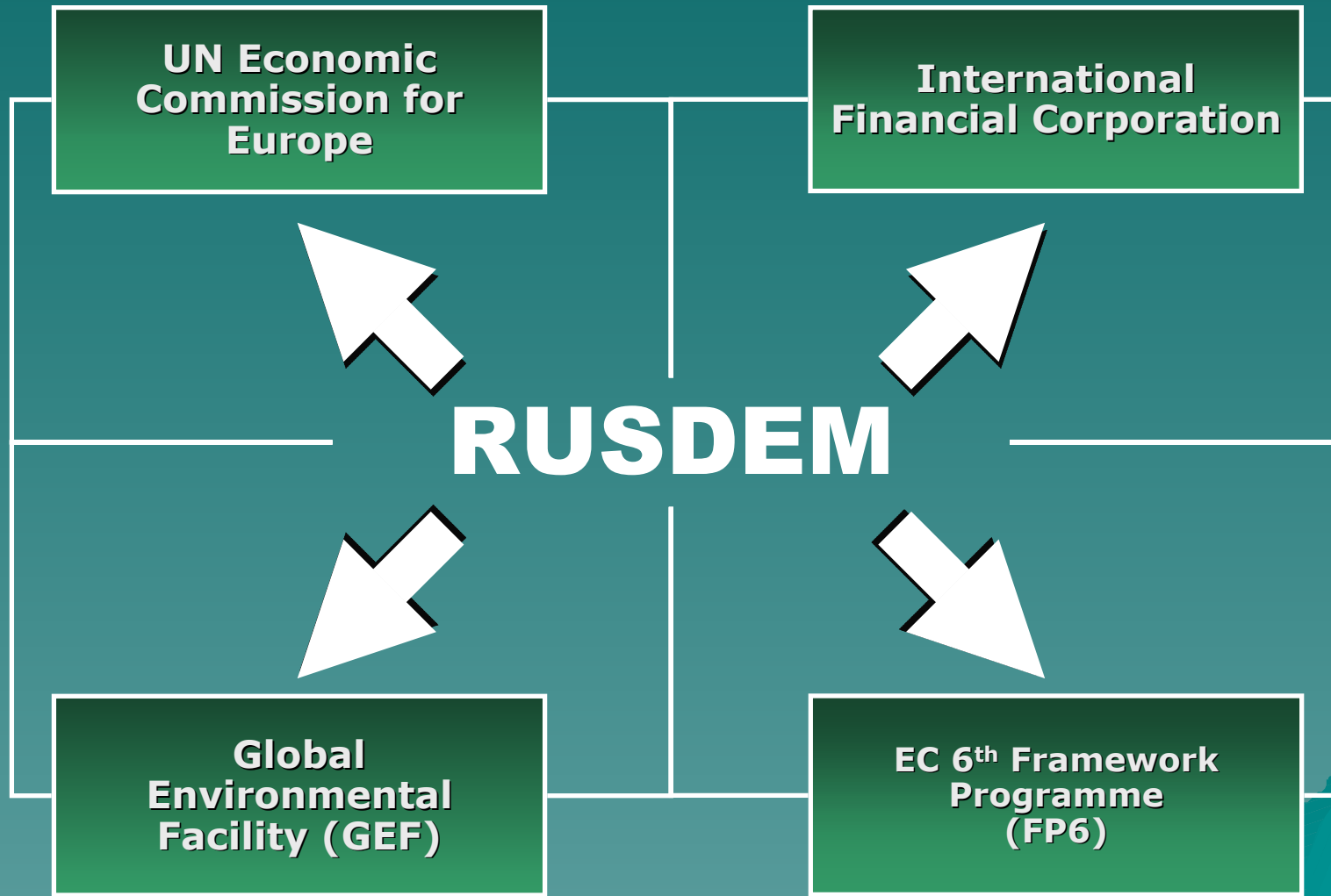
- ◆ Developed market of energy service companies and readiness of these structures to work on Russian market.

- ◆ GEF, UNDP project, NEFCO. UN ECE, Technical Assistance programmes of various countries.



- ◆ Numerous potential partners interested in promotion of their equipment and technologies, offering good financial terms.

# INTERACTION OF RUSDEM WITH INTERNATIONAL ORGANIZATIONS



# IMPLEMENTATION OF INTERNATIONAL PROJECTS

- ◆ Economically efficient projects at educational establishments. GEF project with involvement of Norway.



- ◆ Capacity building to reduce key barriers to energy efficiency in Russia residential sector and heat supply.

# CARACTERISTICS OF PROSPECTIVE DIRECTIONS OF ENERGY SAVING

- ◆ Construction of mini-TPS for power and heat production.



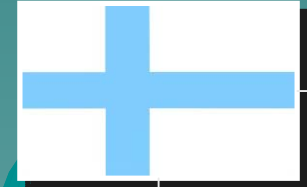
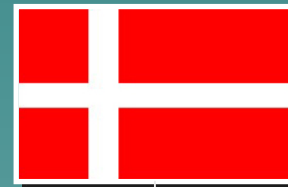
- ◆ Installation of block-modular new generation boiler houses

- ◆ Installation of automotive individual heating points (AIHP) in heat supply systems for residential buildings and objects of budgetary sphere.



# RUSSIAN SUSTAINABLE ENERGY EFFICIENCY FINANCE PROGRAMME

- ◆ Programme is financed by the GEF, IFC, Danish Agency for Environmental Protection, Ministry of Foreign Affairs Finland and Ministry of Industry and Trade Finland.



- ◆ **IFC developed the programme aiming at stimulating investments into modernization projects which lead to energy efficiency of industrial enterprises.**

# INVESTMENTS



CREDIT LINE



BANK AND LEASING  
COMPANIES



BORROWERS

# ADVISORY SUPPORT

BANKS AND LEASING  
COMPANIES



BORROWS

VENDORS



# PROJECT “ENERGY EFFICIENCY – VOLGA REGION”



Project is implemented with financial support  
of the Free State of Saxony  
**GERMANY**

## Goals of the project

- ◆ **Identify the solid pipeline of energy efficiency/clean production projects in Volga region;**
- ◆ **Market these investment opportunities to local financial institutions;**
- ◆ **Conduction of advisory and training activities for companies and financial institutions of the Volga region in the field of energy efficiency and clean production in industry;**

◆ **Project implementation shall lead to substantial efficiency of energy use by the end-consumer;**

◆ **Borrows - private enterprises (with direct or indirect state participation of less than 49%);**

◆ **Technologies to be financed – only proven technologies (Russian, as well as foreign);**

◆ **The size of investments is determined by the financial institution but generally does not exceed 2 million dollars;**

◆ **The maximum project payback - 5 years;**

- ◆ **GENERIC INDUSTRY ENERGY EFFICIENT TECHNOLOGIES:**

- ◆ **Co-generation, boiler houses equipment, heat exchangers, compressors, freezers, frequency-regulated gears, ventilation, lightening and etc**



◆ **MODERNIZATION OF ENERGY INTENSIVE TECHNOLOGICAL EQUIPMENT, which lead to reduction of energy consumption per unit of production:**

◆ **Ovens, crushers, dryers systems, evaporators, internal workshop transportation systems and etc.**



◆ **ENERGY EFFICIENT INDUSTRIAL LIGHTENING AND OUTDOOR ILLUMINATION SYSTEMS :**



◆ **RENEWABLE ENERGY SOURCES:**

◆ **Utilization of wood wastes and other types of biofuel**



**THANK YOU**