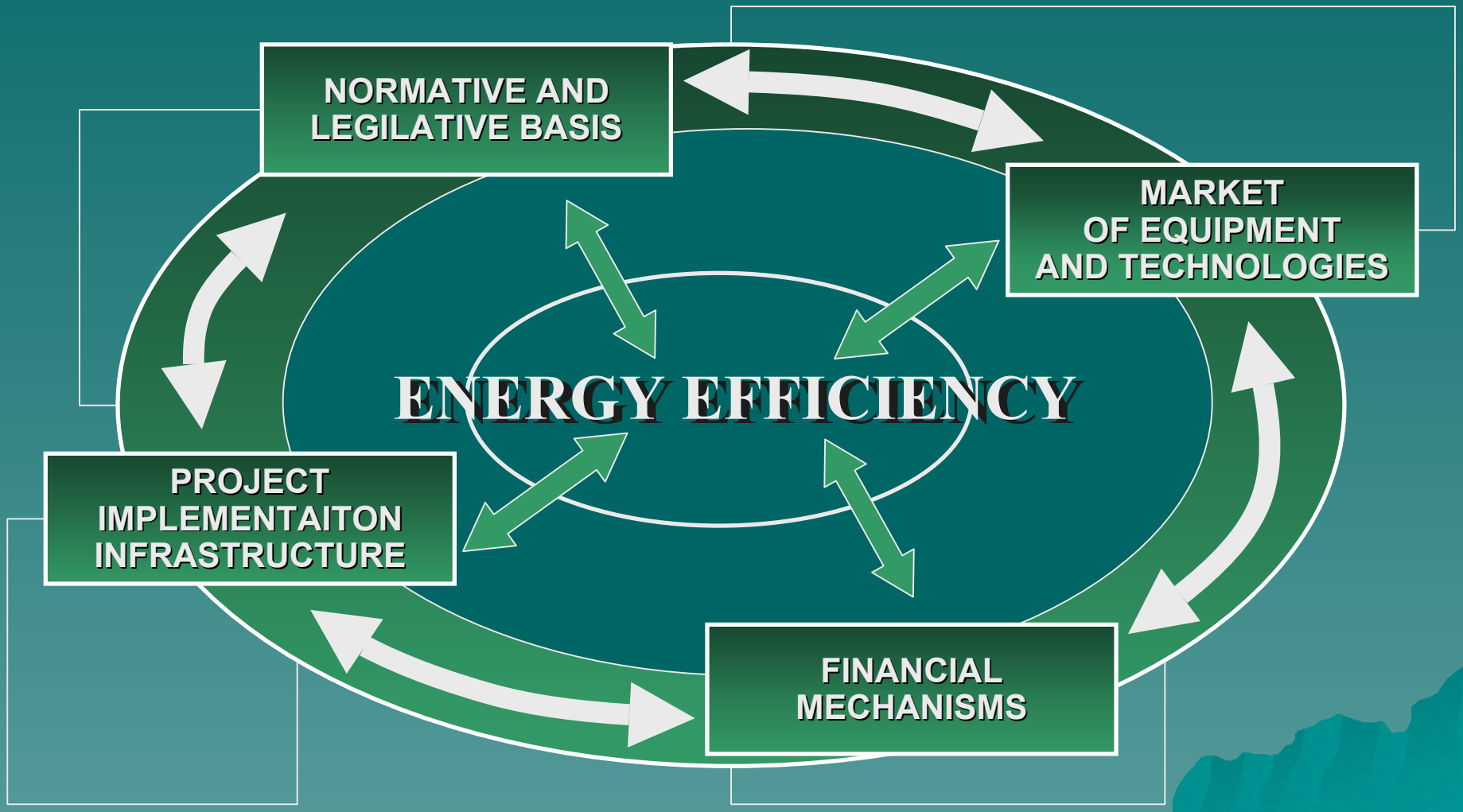
RUSSIA - ENERGY EFFICIENCY INVESTMENTS

BASIC ELEMENTS OF ENERGY SAVING



CURRENT SITUAITON ON THE MARKET OF ENERGY SAVING SERVICIES

- 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

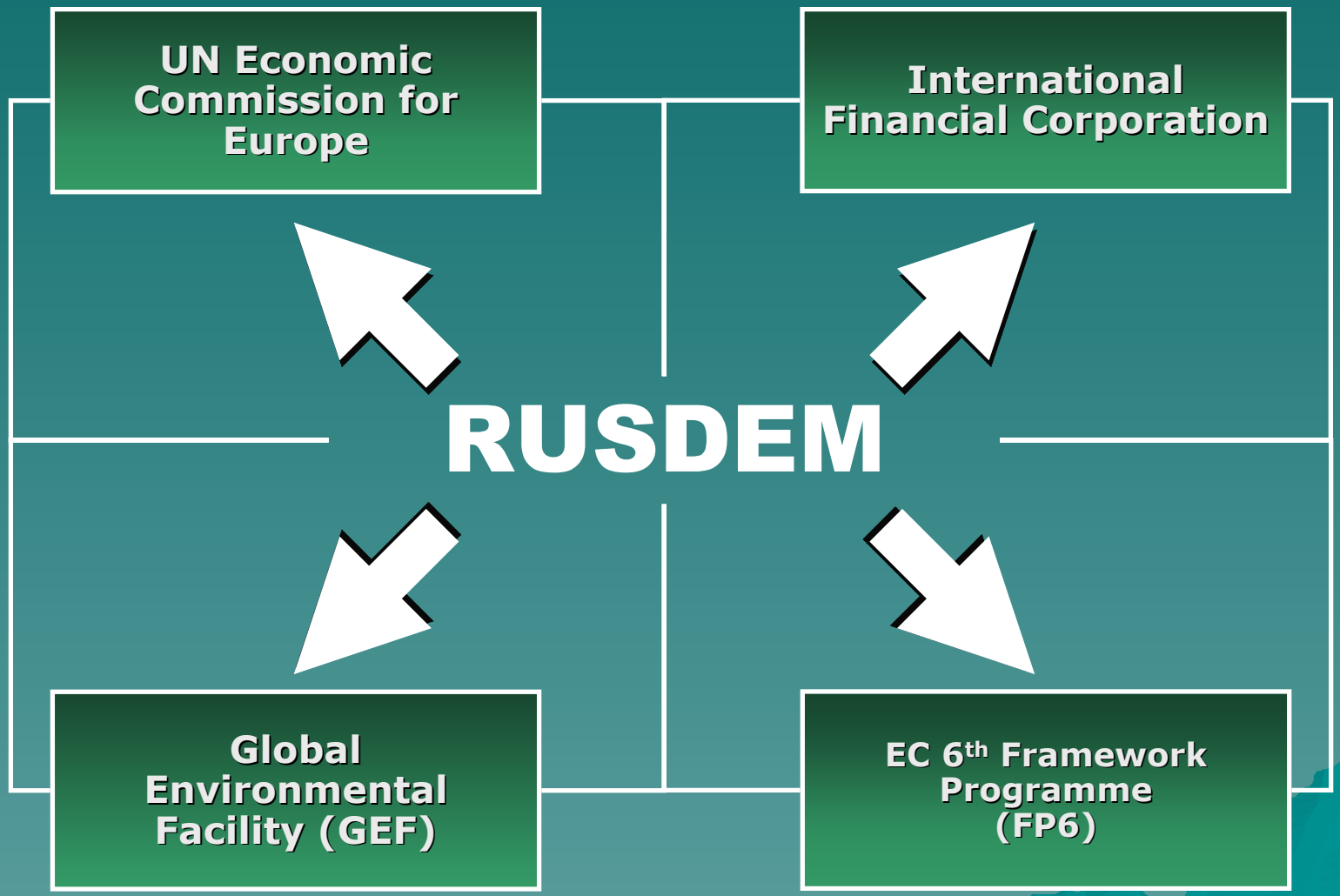
- Undeveloped normative and legislative basis (as on federal, as well on regional level), which would stimulate investments into energy saving as in commercial as well as budgetary spheres.

- 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

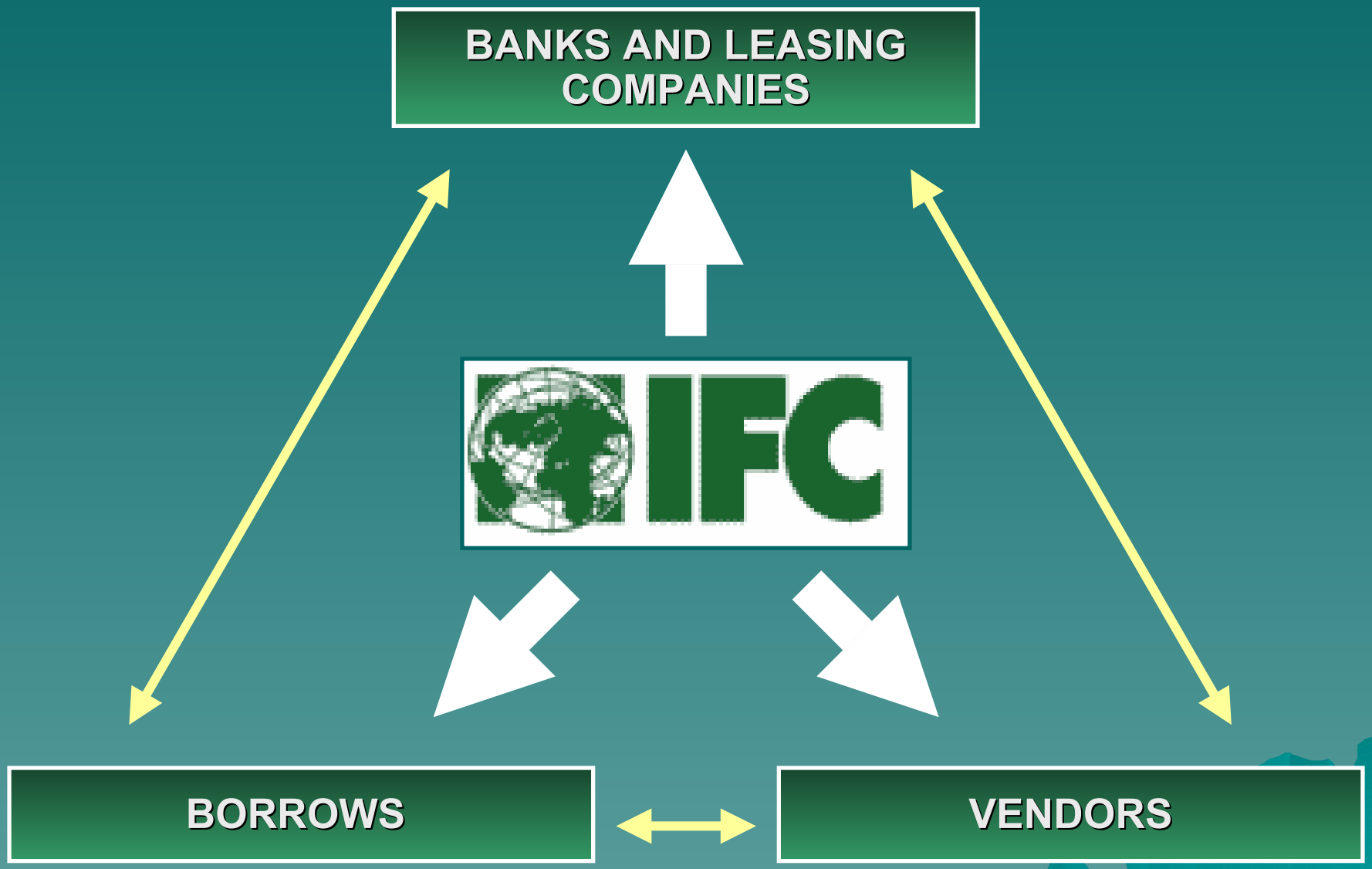
CREDIT LINE

BANK AND LEASING COMPANIES

$$$

BORROWERS

ADVISORY SUPPORT



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 then 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;

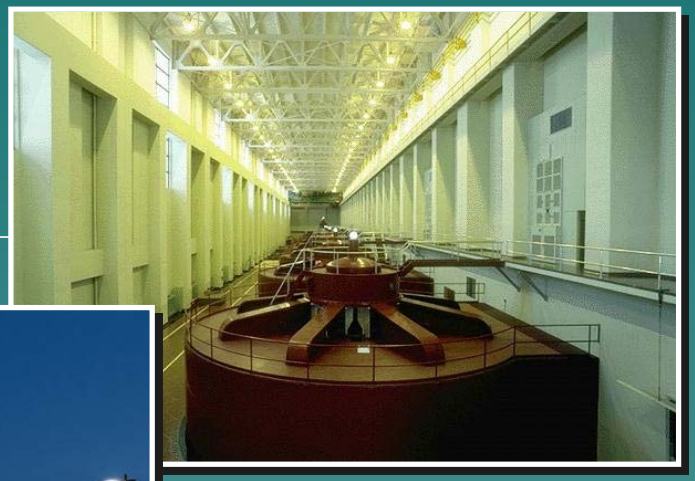
- **GENERIC INDUSTRY ENERGY EFFICIENT TECHNOLOGIES:**

- **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 IUNDUSTRIAL LIGHTENING AND OUTDOOR ILLUMINATION SYSTEMS :**



- **RENEWABLE ENERGY SOURCES:**
- **Utilization of wood wastes and other types of biofuel**

THANK YOU