



# INFORSE-EUROPE

International Network for Sustainable Energy



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## Best practice from Ukraine



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# Ukraine: Context and challenges

Energy balance structure is mostly made up of conventional fuels: imported gas, oil products & nuclear fuel, high risk for Ukraine's energy and economy safety.

Renewable energy sources (RES): hydro < 1% of primary energy supplies.

2010: energy intensity of Ukraine's GDP was 2 – 2.5 times higher compared to world leading countries.

According to IEA (2008), Energy intensity of Ukraine (total primary supply per unit of GDP adjusted for power purchase parity) is 0.40 compared to the EU's 0.14

Gas crisis 2006, 2009 + impact of global financial crisis, increasing tariffs on Russian gas have focused GoU's attention to the need to increase energy efficiency and resulted in steady increases in energy tariffs across the economy, including households.

# EE potential in housing sector of Ukraine

Municipal infrastructure has the biggest potential for EE: 40 - 50 % of heat is wasted in residential buildings, built in 1950s, 1960s, 1970s and which are 85 % of the Ukrainian housing stock.

Analysis of 230 energy conservation (EC) projects implemented in Ukraine in 2000- 2010 shows: 67% of projects implemented in heating sector; only 3% - in housing sector to improve insulation of residential and municipal buildings.

# EE and RE Policy measures

2005 Energy Strategy (ES) until 2030 declared priorities in EE and RES, which is more a wish-list

2010, the GoU has started preparation a new National ES

2010 Law on green tariff for Renewable Energy

2010 Law on Fundamental principals of EcoPolicy, included 10years framework of SCP policy

2011 NAP on EcoStrategy implementation

Resently GoU, Donors and IFI have started activities focused on the development of municipal EE plans and modernisation of municipal utilities and related infrastructure in some largest cities (regional centres, industrial cities, etc.) and prepared credit lines for lending to these municipalities.

April 2011: New EU grant program for small cities on EE  
National Agency for Energy Efficiency and Energy Conservation (EC) approved 23 regional EC programs.

# NGO “MAMA-86”



**1991** Kiev city ecoNGO,

**2001:** Ukrainian National Environmental  
NGO network: 17 branches,  
200 members, mainly women

**Goal:** to secure sustainable  
development of Ukraine

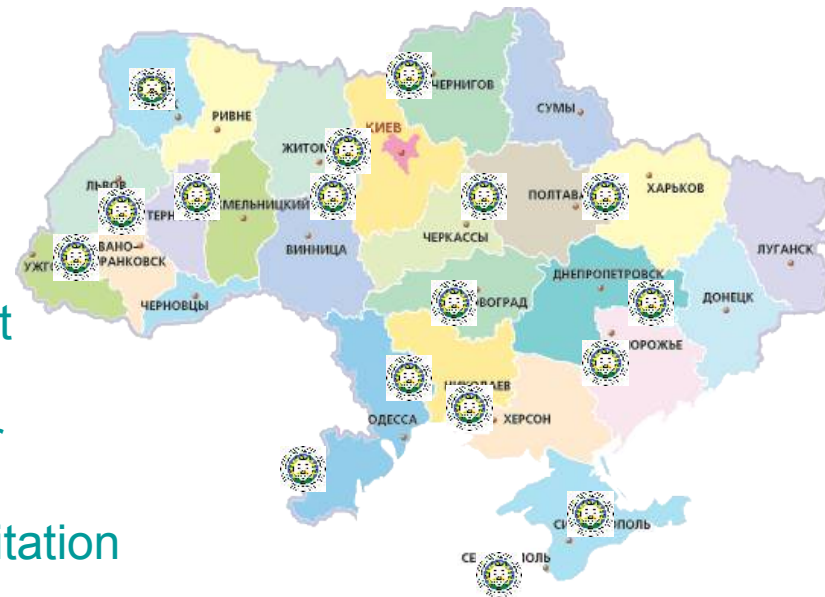
**Mission:** to protect the future  
generation's right to clean environment

## **Key thematic areas of activities:**

- ecologization of policy and practice for sustainable development
- access to safe drinking water and sanitation
- Chemical safety

## **Main tools**

- Information and education
- Pilots implementation
- Public lobbying and monitoring of policy/decision making/implementation





# Thematic direction I: **Greening policy and practice**

**2005 MAMA-86 initiated preparation of Report on  
Non Nuclear way of energy sector development of  
Ukraine**

**2010 lobbying of EcoStrategy and NAP  
to incorporate 10years SCP frame  
EE and RES development**

***MAMA-86's Resource saving pilots  
Housing sector***





# “Green choice of Ukraine”

- Project duration 2004 - 2007
- Theme: Organic farming, ***economically efficient and environmentally sound housing***, and environmental education in Ukraine

Goal:

raise consumers awareness on SCP and people empowerment to make green choice for food, housing and life safety

develop and implement the models of sustainable housing =Affordable and environmental friendly house pilots

Donor: OxfamNovib



# **EKODIM – efficient and safe house pilots**

*Project areas: **cities Artemivsk and Odesa***

*Target groups: **dwellers of apartment  
buildings**, experts, public, business, local  
authorities*

***Direct beneficiaries:** 657 people*

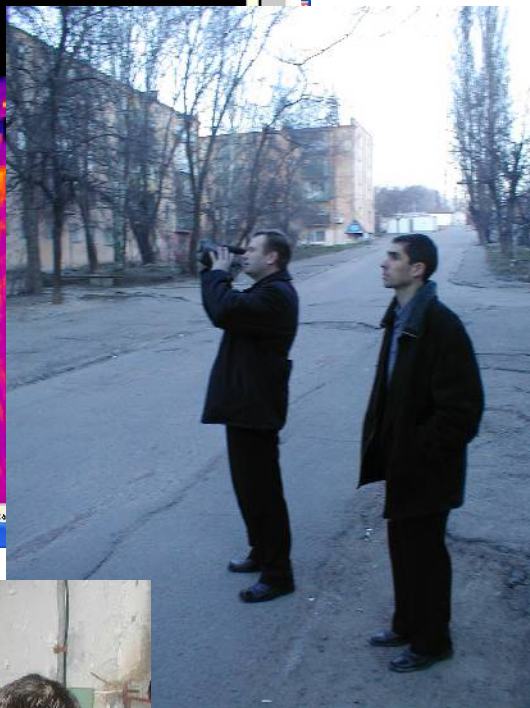
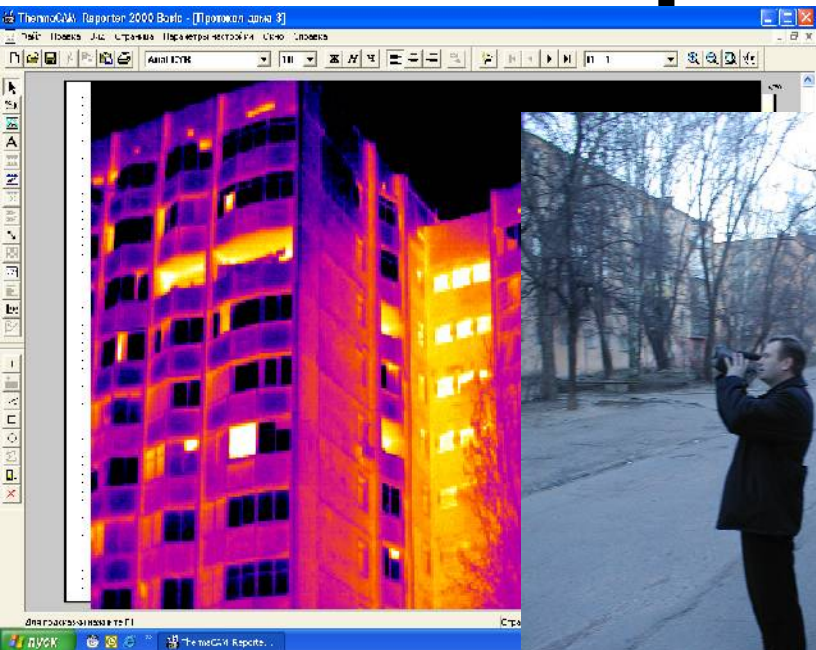
*Artemivsk: 5-flows building, 100 apt., 178 dws*

*Odesa 14 flows building, 196 apts, 479 dws*

***indirect beneficiaries:** > 2.520,000*



# Pilot implementation tools



- Research:
  - Infrared scan of heat losing
  - Heat losing assessment
  - Energy audit of buildings
  - Analysis of in&out door air pollution, hygienic conditions of building and area around
- Building Modernization AP
- Dwellers's opinion pools, apartment ecotour
- Education campaign on resources saving



# Improvements made



- Energy saving lamps
- Installation of movement detector in corridors
- Isolation of Hot water heating pipes in building basement
- Windows and doors isolation
- Installation of cold/hot water, heat meters
- Waste separation for recycling of paper, organic and glass wastes

# Waste separation





# Pilot Results: Odesa

Decreasing of consumption and payments:

- on 30% for electricity
- on 70% - for heating
- on 80% - for hot water and on 50% - for cold water

Income generation due to recycling of paper, glass  
20 USD/month in 2007

Improvement of indoor air and comfort conditions of the apartments due to isolation and usage of env.friendly detergents and other chemicals for cleaning and washing.



# Results: Artemivsk

- Heat saving: was estimated as 24000 Hs (2,400 Euros) for 16 months or 150 Euro/month
- Electricity saving was 30%

Pilot was used as a model for City program “Warm building” which was covered 35 buildings in Artemivsk.



# «Save sanitation , health and dignity»



- **2004 - 2010**
- NGO MAMA-86 : Kyiv+ 8 regions
- Ecosanitation technologies( DT, OrgWaste composting, constructed wetlands) introduction and promotion
- Capacity building -**20 local trainers**
- **Built more than 80 individual DTs + 5 School DTs**
- 9 HH and 2 school Local WWT units



**Thank you for attention**  
**[www.mama-86.org.ua](http://www.mama-86.org.ua)**