EAST-WEST COOPERATION
for SUSTAINABLE ENERGY

INFORSE - Europe Seminar
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The project was aimed at gathering, working up and dissimilating of information on renewable energy in Ukraine. All information - analytical works were initiated and fulfilled by NGOs under active support of experts from National Academy of Science of Ukraine. During the project period a quarterly magazine “Zelena Energetyka” (“Green Energy”) devoted to sustainable energy and energy conservation development in Ukraine was founded. The magazine presented examples of successful projects realizations in Ukraine where modern technologies in biogas production, straw and wood industry waste burning for heat, solar heating etc had been used.

A mobile exhibition consisting of 12 posters on real potential of using renewable energy sources in Ukraine was organized as well. The exhibition material included also maps of Ukraine on all renewable energy sources.
Поновлювані джерела енергії в країнах Євросоюзу

Розподіл використання ПДЕ в країнах ЄС, запропонованих у стратегії White Paper

Альтернативні види ізоляції

POSTERS
WORKING GROUP for CLIMATE CHANGE

Lviv

Rivne

Kiev

Zaporizhzhia
| MAGAZINE  
“ZELENA ENERGETYKA”  
AND MOBILE EXHIBITION  
Danish Open Air Council’s Small  
Grant Fund | NATIONAL  
ENERGY CONSERVATION  
INFORMATION NETWORK  
TACIS EUK 9802 |
|---|---|
| **Participants** | NGOs:  
FAE, Ukraine  
OVE Denmark/INFORSE-Europe |
| **Cost of the Project** | around **30 000,00 Euro**  
around **2 000 000, 00 Euro** |
| **Results** | Quarterly magazine “Zelena Energetyka”  
(“Green Energy”), devoted to sustainable  
energy and energy conservation  
development in Ukraine, was founded.  
12 posters, showing real RE potential in  
Ukraine, was prepared.  
Mobile exhibition visited 10 cities and towns  
of Ukraine.  
Conceptions for biomass, solar and wind  
energy development in Ukraine were  
prepared and presented at different  
conferences and workshops held in Ukraine |
|  | 5 + 7 (additionally) regional  
information centers were created  
during 2 years.  
Once a year, Energy Conservation  
Weeks were held in Ukraine (Kiev,  
Donetsk, Zaporizhya etc).  
2 advertising clips were made as  
well as some advertising stickers.  
Web site was created.  

A. Konechenkov - FAE  
www.inforse.org/europe/seminar03  
8/22
<table>
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<tr>
<th>Project Period</th>
<th>NATIONAL ENERGY CONSERVATION INFORMATION NETWORK</th>
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<td>9 month</td>
<td>24 months</td>
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<tr>
<th>Followup</th>
<th>NATIONAL ENERGY CONSERVATION INFORMATION NETWORK</th>
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<td><strong>Magazine “Zelena Energetyka” has been published for 3 years already. This publication is participating in different RE national and international conferences fairs as an information sponsor (about 50 a year). “ZE” provides 5 websites with information. Posters from mobile exhibition are used by Ukrainian NGOs for different events devoted to environmental and energy issues. They are also used by 7 Ukrainian Universities for educational process.</strong></td>
<td>Due to the absence of further financing all the information centers stopped their activity and do not exist any more. Only the Web site is still available but it is not very popular.</td>
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DEMO SOLAR EAST-WEST
Inco-Copernicus programme 1998-2002

Participants:

OEAR-Regionalberatung GesmbH, Austria

Energy Saving & Energy management
Institute NTUU “KPI”, Ukraine

NIMH, Bulgarian Academy of Sciences, Bulgaria

Cost of the project is more than 200 000, 00 Euro
Wooden construction for solar collectors. Hand-made technology.
Energy Saving & Energy Management Institute
NTUU “KPI”
Kiev, Ukraine
<table>
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<th>TASKS</th>
<th>RESULTS</th>
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<tr>
<td>Installation of two solar collectors under the hand-made technology.</td>
<td>Two Austrian produced solar collectors were installed.</td>
</tr>
<tr>
<td>Installation of Ukrainian produced solar collectors.</td>
<td>No installation due to the lack of financing.</td>
</tr>
<tr>
<td>Installation of thermosyphon collectors (Greek production)</td>
<td>No installation due to the lack of financing.</td>
</tr>
<tr>
<td>Publishing of hand book on solar collectors hand made technology.</td>
<td>No publication due to the lack of financing.</td>
</tr>
<tr>
<td>Solar System Software.</td>
<td>No software due to the lack of financing.</td>
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Due to several changes in budget initiated only by the project leader (a consultant from Austria) financing was exhausted with different unforeseen meetings, increasing in project leader’s salary, traveling expenses etc.
The municipal sector of Ukraine consumes about 74 million toe/year that equals to 0.08% of solar energy being received by the territory of Ukraine.

Hand made solar collectors being installed at National Expocenter, Kiev, Ukraine.
REDUCTION OF GREENHOUSE EFFECT THROUGH METHANE UTILIZATION AT LUGANSK LANDFILL

1.5 MWe LANDFILL GAS POWER STATION AT LUGANSK MSW LANDFILL, UKRAINE

Participants:
Scientific Engineering Centre “Biomass”, Kiev, Ukraine
Closed Joint Stock Company “Protos”, Lugansk, Ukraine
SCS Engineering, Inc., Reston, VA, USA

Cost of the project is 49 000,00 USD

ECOLINKS 2002-2003
Lugansk population: 505,000
Time since landfill opened: 1979
Average annual waste acceptance rate, m³: 300,000 – 350,000
Area, hectares: 8.4
Depth, m: 20 - 25
Current MSW in place (mln. m³): 6.4
Current MSW in place (mln tons): 1.6

Location - 25 km from Lugansk
Heat/power consumers within 3-4 km town of Alexandrovsk
The Lugansk Landfill managed by Protos emits almost 4 million m³ of methane into the atmosphere each year. The following activities were planned and executed to address this issue:
- First, a feasibility study has been made to assess different solutions for a LFG extraction, collection and utilization system.
- Then, based on the study results, a demonstration project of the system was set up and monitored.
- Finally, a business plan and marketing strategy have been developed for the implementation of a LFG extraction, collection and utilization system for the entire Lugansk landfill.

The project has been very successful and nowadays municipal authorities of several Ukrainian towns are planning to implement this technology in their landfills.
PROJECT IN THE FRAME OF PSO PROGRAMME
2001-2002

CRIMEA
Simferopol
Poultry farm
Based on the above mentioned projects one can easily come to conclusion that international funds could achieve larger and better results for sustainable energy projects if:

- It is easier to get smaller grants;
- Funding is more flexible regarding changes the deadline and some other changes;
- Any changes of the budget are coordinated by all the participants of the project not only by a project leader.
FOR YOU INFORMATION:

- www.windpower.com.ua
- www.enport.com.ua
- www.necin.com.ua
- www.zelenaenergetyka.lviv.ua
- www.rea.org.ua
- www.inforse.org/europe