

Municipal Energy Database

Software used by the Municipal Energy Efficiency Network "EcoEnergy", Bulgaria

Analyses and assessments

Data base

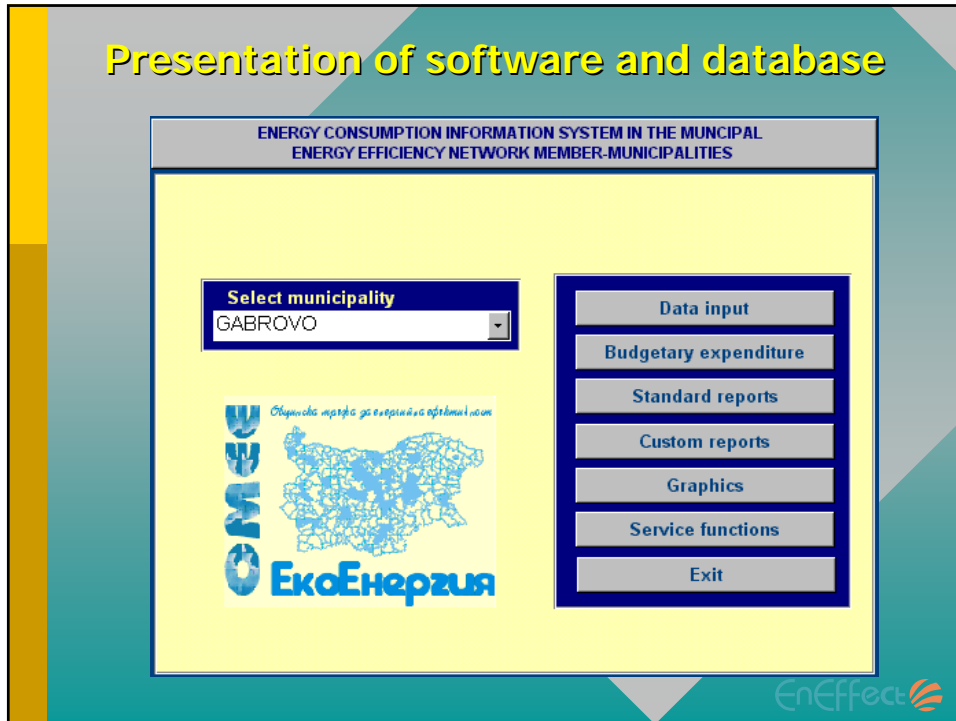
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Organization of the information system

- The municipality as energy consumer
- **Energy consumption in municipal sites**
- The municipality as energy producer

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Presentation of software and database



Data input 1 - General information

Municipality
Sector
Target group
Site name
Settlement name
Address
Entered by
Contact person
Number of buildings

Data input 2 - Construction information

Type of building
Year of construction
Number of floors
Type of construction
Floor area in m²
Total floor area in m²
Built up volume in m³
Type of space heating
Connected head load
Heated space in m²

Data input 3 - Information about installations

- Installation
- Year of installation
- Condition
- Type of installation

Data about installations of building No **1**

Sector: Education
 From site: I OU "Ran Bosilek"
 Target group: Schools and colleges
 Municipality: GABROVO
 Settlement: gr.GABROVO

Installation	Year of installation	Condition	Type of installation
Electrical wiring	1966	Satisfactory	
Space heating	1966	Satisfactory	
	0		



Data input 4 - Street lighting system information

Data entry street lighting

Municipality: KARLOVO
 Settlement: gr.KARLOVO

Quantity of supply poles: 11200
 Quantity of luminaries: 12186

Type of light sources

	Hg			Na					Compact		
	400 W	250 W	125 W	250 W	150 W	100 W	70 W	50 W	55 W	40 W	36
Total	650	7010	4026	0	280	190	30	0	0	0	0
In operation	0	0	0	0	0	0	0	0	0	0	0

Total installed capacity, kWh: 1800

Quantity of supply power distribution substations: 212

Electric meters: Single-tariff: 131, Double-tariff: 95, Three-tariff: 0

Light and semi-night lighting:

Manner of switching ON and OFF: Posredstvom elektroni chasovnici - tip IQDC-12P

Centralized control system:

Type of centralized control system:

Operation and maintenance: Elektrorazpredelenie EAD, predpriyatie Plovdiv, Elektro

Operation and maintenance costs: 0, Personnel: 6, Hours of lighting per year: 3650

Implemented energy efficiency measures in the past 3 years:

1. Montazh na 500 br. ESL
2. Montazh na el. chasovnici
3. Zakupivane i montazh na dvoynotarifni elektromeri

Brief description of activities:

Currently implemented energy efficiency program:

Fuel and energy consumption

Exit



Data input 5 - Energy consumption by fuel types

Fuel and energy consumption about building No.1

From site: IOU "Ran Bosilek"
 Municipality: GABROVO
 Settlement: gr.GABROVO
 Sector: Education
 Target group: Schools and colleges

Year: 1999
 Quarter: Per year

	Quantity	toe	MWh	Value
Wood (m3)	0,000	0,000	0,000	0,00 лв
Coal (tonnes)	0,000	0,000	0,000	0,00 лв
Heating naphtha (tonnes)	40,000	33,420	388,675	27 000,00 лв
Heating naphtha (litres)	0,000	0,000	0,000	0,00 лв
Heat (Gcal)	0,000	0,000	0,000	0,00 лв
Natural gas (thousand m3)	0,000	0,000	0,000	0,00 лв
Propane-butane (tonnes)	0,000	0,000	0,000	0,00 лв
Electricity (thousand kWh)	25,000	2,148	24,975	3 000,00 лв
Petrol (l)	0,000	0,000	0,000	0,00 лв
Diesel oil (l)	0,000	0,000	0,000	0,00 лв
Heavy oil (tonnes)	0,000	0,000	0,000	0,00 лв
Light ship fuel (l)	0,000	0,000	0,000	0,00 лв
Total		35,568	413,650	30 000,00 лв
<i>Related to heated area in m2</i> 5565,8		kg oem2	kWh/m2	Value/m2
		6,390	74,320	5,39 лв

Buttons: New quarter, Past quarter, Next quarter, Exit

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Data input 6 - Budget information

Budgetary expenditure of municipality of YAMBOL

Year	Quarter	Amount, BGL
1999	1	2 612 893,00
1999	2	2 870 749,00
1999	3	1 518 962,00
1999	4	2 182 509,00
2000	1	2 304 183,00
2000	2	2 262 397,00
2000	3	1 837 313,00
2000	4	2 823 827,00
	Per ye	0,00

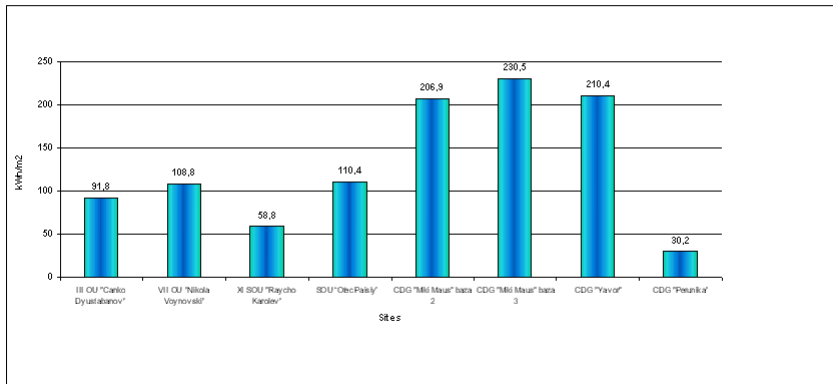


Exit

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Custom reports

Specific costs of sites heated by Central district heating in a municipality GABROVO
for period 1 ' 1999 - 4 ' 1999 in sector Education



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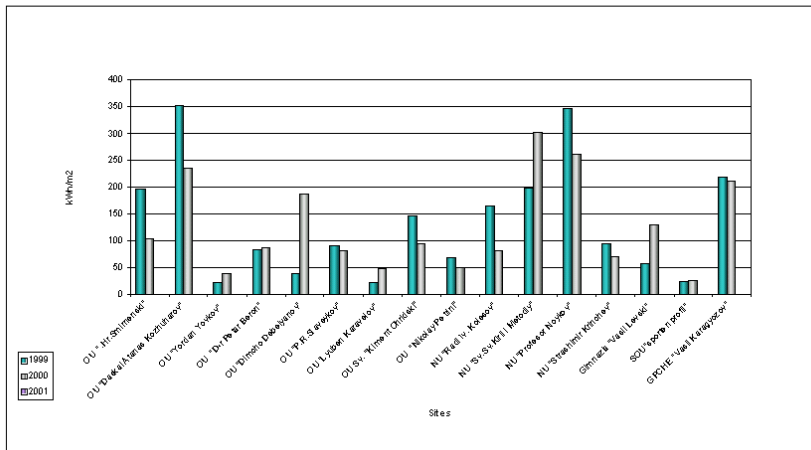
Calculation and assessment of energy costs : Graphics



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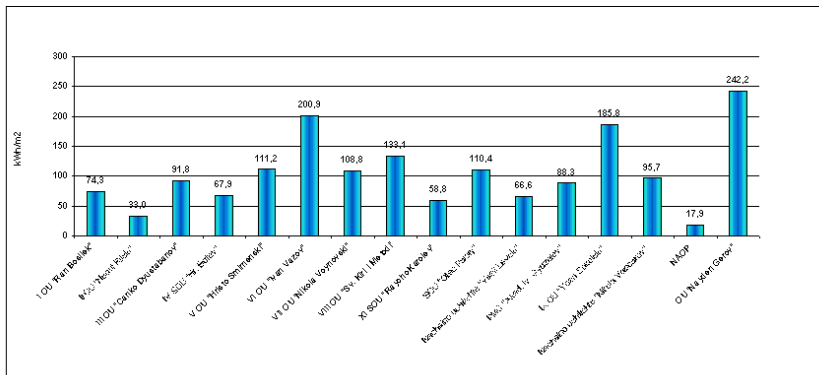
Best way to present the results to municipal leaders

Dynamics of the site specific costs in municipality YAMBOL, target group Schools and colleges



Benchmarking and ranking of municipal sites by their consumption rate – source for project identification

Specific energy costs in municipality GABROVO for period 1 - 4 - 1999 in the target group Schools and colleges



**Dissemination of the software,
training of local officers
and possibilities for implementation
of the EEIS in other countries**

- Training of municipal officers
- User guide
- Training of trainers
- Coordination of the EEIS structure with other countries
- Testing and dissemination of the software

