





27.02.2015

TÎRGU MUREȘ - SMART AND SUSTAINABLE CITY



CHIEF ARCHITECT:
Arh. Miheţ Florina Daniela









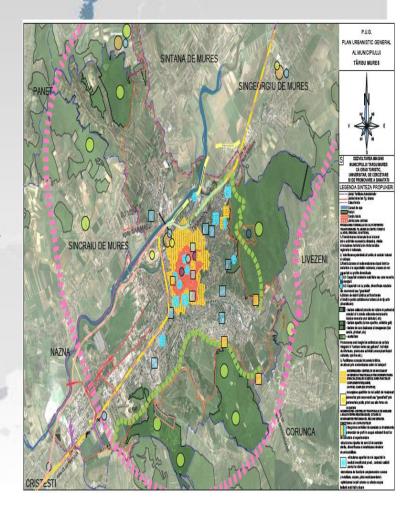
- One of the leading municipality in Romania;
- Located in the center of Romania;
- Important medical, cultural and academic center;
- Part of the Transylvanian medieval tourist circuit;
- 144 thousands inhabitants, over 200 thousands with Metropolitan Area included;
- Good infrastructure:
 - Part of the Central European Transport Network TEN-T;
 - Own international Airport.







- AGENDA 21
- INTEGRATED PLAN FOR SUSTAINABLE URBAN DEVELOPMENT (IPSUD)
- METROPOLITAN AREA DEVELOPMENT STRATEGY
- MASTER PLAN FOR INTEGRATED WASTE MANAGEMENT
- THE ENERGY STRATEGY OF TIRGU MURES MUNICIPALITY FOR 2012-2025
- REVIEW OF URBAN MASTER PLAN
- MUNICIPALITY DEVELOPMENT STRATEGY
- Elaborated studies









- > SIGNATORY OF THE COVENANT OF MAYORS (Committed to local sustainable energy) since 21.12.2010
- > SUSTAINABLE ENERGY ACTION PLAN (SEAP)
- DATE OF FORMAL APPROVAL: 20.12.2012
- OVERALL CO2 EMISSION REDUCTION TARGET: 20%

TIRGU-MURES ORAS EFICIENT ENERGETIC



Planul de actiune pentru energie durabila - PAED al municipiului Tirgu-Mures 2013-2020



Formular de adeziune

Subsemnatul/a, dr. Dorin Florea, primar în Municipiul Tirgu-Mureş vă înformez că, în cadrul reuniunii din 16.12.2010, Consiliul local a hotărât autorizarea mes în vederea semnării "Pactului Primarilor", în deplină cunoștință a tuturor angajamentelor, în special:

- depășirea obiectivelor stabilite de UE pentru 2020, reducând emisiile de CO2 din teritoriile noastre cu cel puţin 20%;
- prezentarea unui plan de acțiune în domeniul energiei durabile, incluzând un inventar de referință al emisiilor, care să descrie modul în care vor fi atinse obiectivele, în termen de un an de la data menţionată;
- prezentarea unui raport de implementare cel puțin o dată la doi ani ulterior prezentării planului de acțiune, pentru evaluare, monitorizare şi verificare;
- organizarea de "Zile ale Energiel, în colaborare cu Comisia Europeană şi cu alte părți interesate, permițând cetățenilor să beneficieze direct de oportunitățile şi avantajele ofertie de o utilizare mai inteligentă a energiei, şi informarea în mod regulat a mass-mediei locale cu privire la evoluțiile planului de acţiune;
- · participarea și contribuirea la Conferința anuală a primarilor din UE.

Municipiul Tirgu-Mures Primar dr. Dorin Florea, primaria@tirgumures.ro, 0040-265-268330, interior 107 21.12.2010,







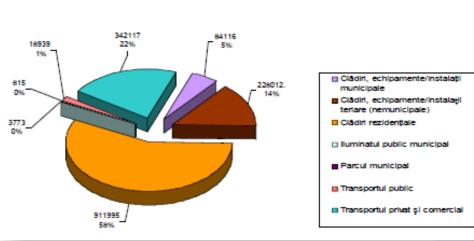


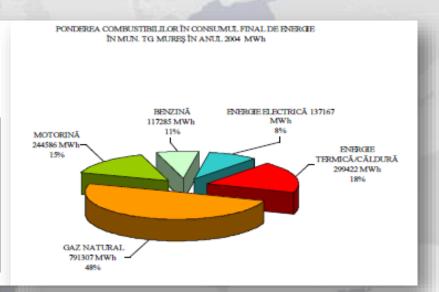
> SUSTAINABLE ENERGY ACTION PLAN (SEAP)

■ DATE OF FORMAL APPROVAL: 20.12.2012

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Consumuri energetice pe domenii de activitate mun. Tg. Mures in anui 2004 MWh







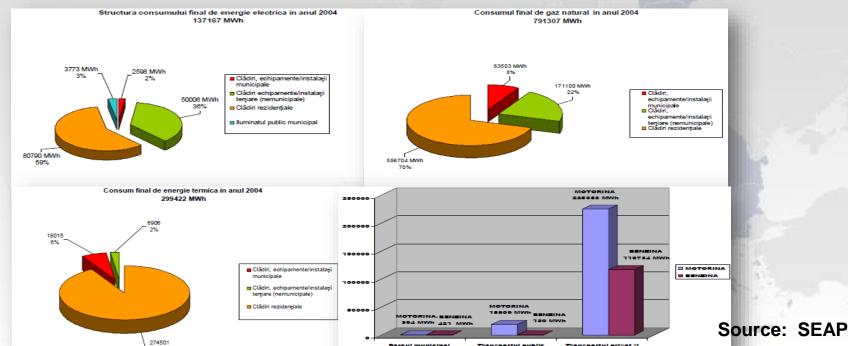




> SUSTAINABLE ENERGY ACTION PLAN (SEAP)

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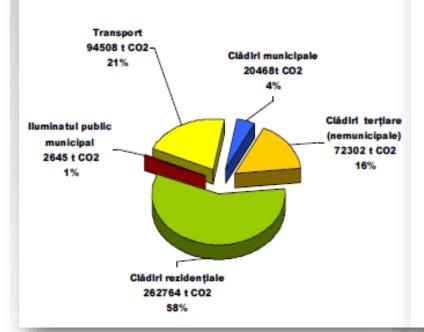


> SUSTAINABLE ENERGY ACTION PLAN (SEAP)

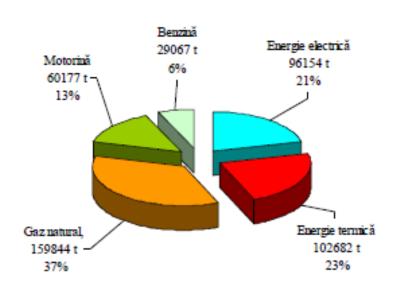
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Structura emisiilor de CO2 functie de sectoarele de activitate in anul 2004



Structura emisilio de CO2 (t) functie de tipul de combustibil in anul 2004



Source: SEAP







KEY APPROACH IN THE ENERGY STRATEGY OF TARGU MURES MUNICIPALITY:

- > CITY OF CITIZENS INCREASING QUALITY OF LIFE
- > CITY OF TOURISTS DEVELOPMENT AND PROMOTION OF CULTURAL TOURISM IN TIRGU MURES
- ➤ CITY OF INVESTORS PROMOTING AND SUPPORTING BUSINESS ENVIRONMENT







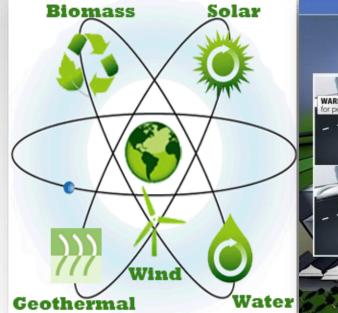






> WHAT WE PLAN TO ACHIEVE:

- SUSTAINABLE URBAN MOBILITY (MODERN TRANSPORTATION, MODERNIZATION AND DEVELOPMENT OF ROAD INFRASTRUCTURE, URBAN TRAIN, CYCLE, PEDESTRIAN ROUTES TOURIST AND ENTERTAINMENT)
- ALTERNATIVE ENERGY SOURCES
- SPORT AREAS AND OUTDOOR ACTIVITIES
- DEVELOPMENT OF SPORTS BASES AND SUPPORT OF MASS SPORTS
- CULTURAL AND EDUCATIONAL PROJECTS











> AREAS FOR ACTION (SEAP):

- RESIDENTIAL, PUBLIC AND THIRD SECTOR CONSTRUCTIONS
- PUBLIC LIGHTING
- TRANSPORTATION
- LOCAL ENERGY PRODUCTION
- URBAN PLANNING
- PUBLIC PROCUREMENT
- WORKING WITH CITIZENS AND STAKEHOLDERS

IMPLEMENTED OR ON GOING PROJECTS - BUILDINGS and STREET LIGHTING: about 17 mil. EURO

- **GREEN HOUSE IN TÎRGU-MUREŞ MUNICIPALITY** (POS-CCE 2007-2013)
 - Youth Culture House "Mihai Eminescu"
 - Social Centre Tirgu Mures
 - 9 high schools and 3 kindergartens
- THERMAL REHABILITATION RESIDENTIAL BLOCKS
 - GOVERNMENT PROGRAM: 80 blocks / 2.350 flats
 - EUROPEAN FUNDS (ROP): 36 blocks under contracting; 13 blocks under evaluation / 2.075 flats
- THERMAL REHABILITATION OF PUBLIC BUILDINGS (local budget and european funds)
 - schools, kindergardens, nurseries, home for elders
- MODERNIZATION OF ELECTRICAL AND THERMAL INSTALLATION FOR PUBLIC BUILDINGS (local and state budget)
 - administrative offices, schools, kindergardens, nurseries
- PUBLIC LIGHTING SYSTEM MODERNIZATION (local budget)
 - Lighting Strategy of Tirgu Mures Municipality on public interest objectives (2009)







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IMPLEMENTED OR ON GOING PROJECTS - INFRASTRUCTURE: about 108 mil. EURO

- STREETS REHABILITATION :
 - ROP: 70 streets (infrastructure, roads, footpaths, public lighting, green squares)
- CREATE NEW PARKS
- RESTORATION OF HISTORICALLY CONTAMINATED SITES (SOP Environment 2007-2013)
 - IAZ BATAL 30 HA within Azomureş platform
- INTEGRATED WASTE MANAGEMENT IN MURES COUNTY (partner with Intercommunity Development Association ECOLECT)
- REHABILITATION AND EXTENSION OF MAINS WATER AND SEWERAGE IN MURES COUNTY (partner with Intercommunity Development Association AQUAINVEST)







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IMPLEMENTED OR ON GOING PROJECTS - INFRASTRUCTURE: about 15 mil. EURO

- NOISE MAPPING OF TIRGU MURES (2009)
- REHABILITATION AND CONSERVATION OF MEDIEVAL FORTRESS IN TIRGU MURES (ROP 2007 2013)
- MODERNIZATION AND REHABILITATION OF ENTERTAINMENT PUBLIC SPACES (ROP 2007 2013)
 - "CORNEŞTI PLATFORM" in TIRGU MURES
- MODERNIZATION AND REHABILITATION OF THE ZOO (ROP 2007 2013)









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FUTURE ACTIONS:

DIGITAL MURES STRATEGY

- SMART PUBLIC ADMINISTRATION
- THE SCIENCE CITY FOR RESEARCH AND MEDICAL INFORMATICS
 - CORE: Medical Informatics R&D;
 - FACILITIES: Offices, Land for developing a

Super Computing Center, create a Data Center;

- RESIDENTIAL AREA

SMART ENERGY CITY (pheasability study)









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FUTURE PROJECTS - as included in the Strategy for Centre Region:

- Producing electricity from hydropower by exploiting the economic potential of hydro in Tirgu Mures
- Producing electricity from solar resources by building photovoltaic parks
- Modernization of public lighting in Tirgu Mures
- Implementation of information and communication technologies in public lighting system









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OTHER ACCOMPLISHMENTS:

- Member of the Association "Romanian "Energy Cities" Network" (REC) promoting local policies of energy efficient and renewable energy technologies
- Partner in "GREEN HOUSE TOWARDS SUSTAINABLE DEVELOPMENT" project together with National Environmental Protection Association Sibiu and Norwegian Association of Local and Regional Authorities,
 - under **EEA Grants 2009-2014**
 - Strategy and action plan for proving adaptation to climate change
 - Pheasability study on improving energy efficiency in Social Centre of Tirgu Mures
- Partner in "SUMP CH4LLENGE" project 9 European cities and 8 organizations, with experience in development of sustainable transport and urban mobility plans







DIFFICULTIES IN WORKING UNDER EU FUNDS RULES:

Even for public institutions (beneficiaries) the process proved to be:

- DIFFICULT
- BIROCRATIC
- LONG PERIOD OF EVALUATION OF REIMBURSEMENT FILES
- PAYMENTS MADE WITH DELAY
- PERMANENT CHANGES TO LEGAL FRAMEWORK
- NOT HAVING A HELPDESK DEDICATED TO TECHNICAL TEAM (designer, engineer, etc)

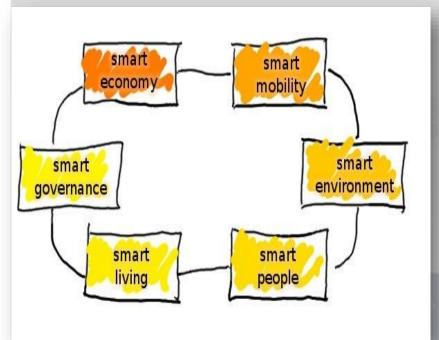








TARGETS FOR 2020 ORIENTED TOWARDS:



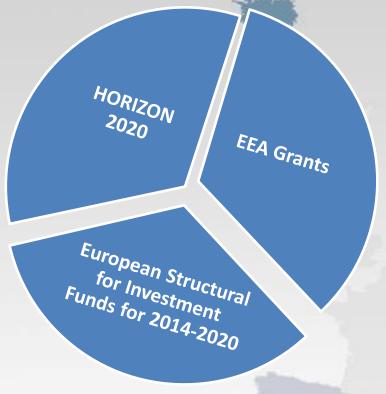








FINANCING RESOURCES



What we need:

- simplified procedure for submitting application;
- support to include defined projects into the Memorandum of Understanding;
- partnership support in order to improve the quality of application (in some cases – required as eligible criteria).







Thank you



CONTACT

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