# Smart Energy Strategies City of Litoměřice, Czech Republic

**How to build Smart Energy Regions** 

Karlsruhe/Ettlingen 4 – 5 July 2016





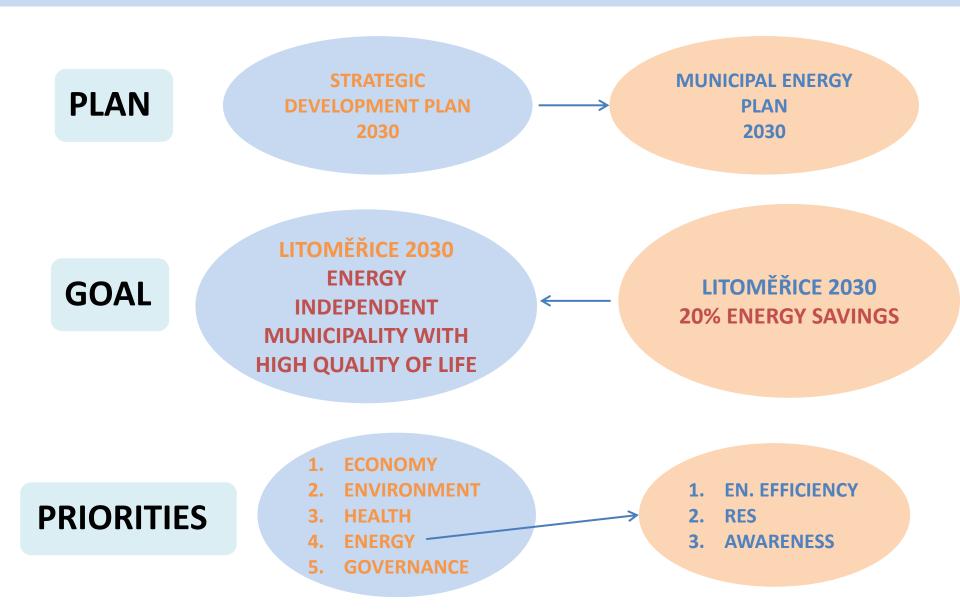




## History of energy management activities

- 2000 Support of solar thermal collectors citizens
- 2011 Energy manager (supported by ext. project)
- 2012 Strategic Development Plan 2030
- 2013 Municipal Energy Plan 2030 (MEP)
  - EPC
  - Low-energy refurbishment
  - PV system
  - Energy Saving Fund
  - Monitoring and evaluation
- 2016 -2017 SEAP

## **Strategic and Energy Planning**



## Low-energy refurbishment



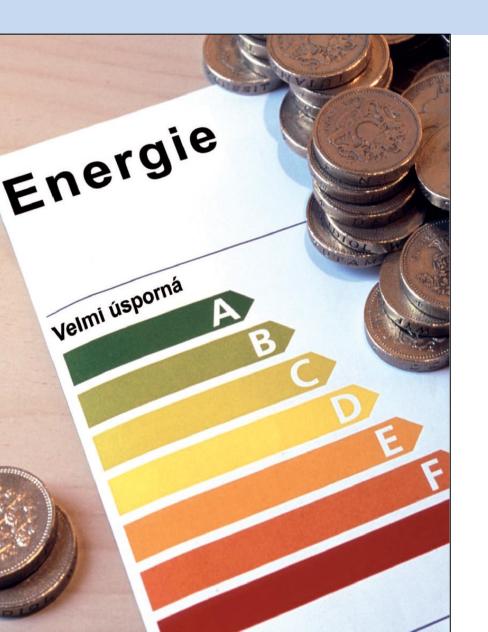
- Complex refurbishment preferred by partial measures
- Long term approach to refurbishment and use of buildings
- Heat consumption 31 kWh/(m².rok)
- U<sub>em,N</sub>
- Supported by OP Environment 50%

#### **Photovoltaic**



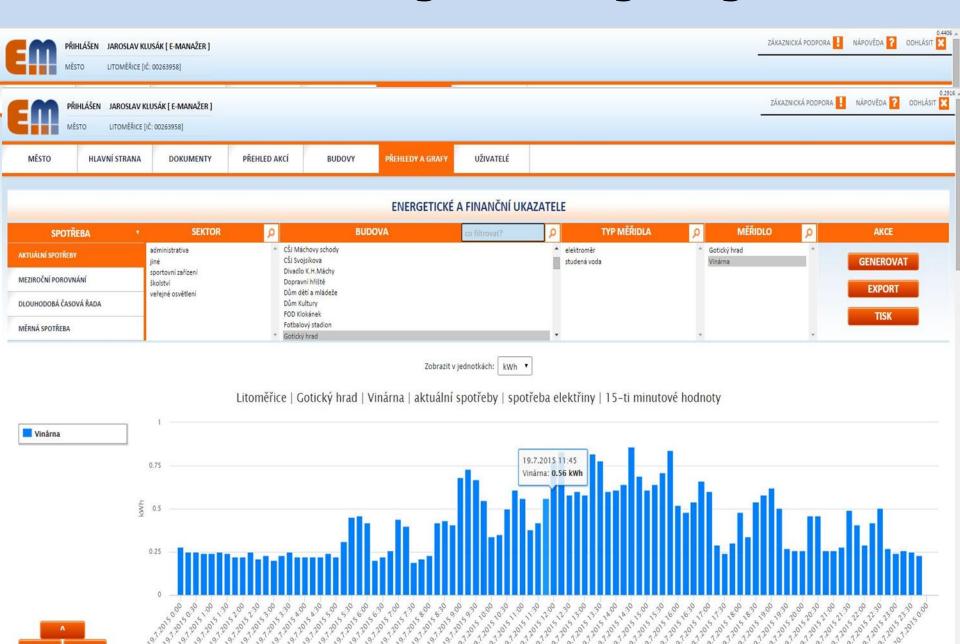
- 3 buildings (school, kindergarten)
- 80 kWp
- Payback time 8-10 years, net benefits 150.000 EUR

## **Municipality Energy Saving Fund**



- Long term financial source
- Motivation to municipal organizations
- Start in 2014
- Distribution
  - 30% energy saving fund
  - 30% municipal organization
  - 35% municipal budget
  - 5% energy manager

#### **Monitoring and Targeting**



#### **Self Assesment**



- Data availability EM system since 2012
- Communication through Strategic team
- Tools for evaluation (EM tool, smart meters)
- Successful and well promoted pilot actions
- Motivation energy saving fund
- Report to City Council each year
- Qualitative criteria for tenders (blower-door test)



- Better communication to municipal organizations
- Deeper understanding of EE, RES by colleagues
- Promotion of non energy results (side-effects)

#### Conclusions/recommendations



- Stronger support of strategic and energy planning on the local level (no CoM support point)
- Better education in EE and RES topics for relevant stakeholders
- Promotion of EU strategies and tools for sustainable energy – involvement in EU projects
- Support/promotion of pre-project activities



- Concrete examples of successful projects and their transferability
- Stronger enforcement of indicative goals

#### Jaroslav Klusák Energy manager

Municipality of Litoměřice

Email: jaroslav.klusak@litomerice.cz



Zdravé město a místní Agenda 21

10SN o nás vi, vy ne?







