



## Practical routes toward Low Carbon Economies – Regional Energy Plan.

Europe 2020 is the EU's growth strategy for the coming decade, pushing the EU to become a smart, sustainable and inclusive economy. Under the Europe 2020 strategy the flagship initiative for a resource-efficient Europe points the way towards sustainable growth and supports a shift towards a low-carbon economy.

Reducing energy consumption and reducing harmful emissions are among the main goals of the European Union (EU). EU support for improving energy efficiency will prove decisive for competitiveness, security of supply and for meeting the commitments on climate change made under the Kyoto Protocol. There is a significant potential for reducing consumption, especially in energy-intensive sectors such as buildings, manufacturing, energy conversion and transport. At the end of 2006, the EU pledged to cut its annual consumption of primary energy by 20% by 2020. To achieve this goal, it is working to mobilise public opinion, decision-makers and market operators.

The Malopolska region conducted technical consultation with a Swedish expert ( Timber project) to have a clear, comprehensive methodology to be used for comparing different energy systems and to gain knowledge about abilities to integrate fluctuating and intermittent renewable energy sources which presents concrete design examples derived from a successfully implemented renewable energy systems. It makes recommendations on the first steps of large-scale integration, focusing on the more immediate issue of conversion, rather than storage technologies.

REP key features pointed during technical consultation :

- Provides an introduction to the technical design of renewable energy systems.
- Demonstrates effective methodologies for analysing the feasibility and efficiency of large-scale renewable energy systems to help implementers avoid costly trial and error.

- Contextualizes renewable energy design efforts by addressing the socio-political challenge of implementing the shift to renewables.
- Features an extensive case studies that provide successful real-world templates for new installations

Technical consultation was a turning point in a way of thinking about energy planning. Taking also aforementioned EU goals into consideration, and moreover, make conclusion that regional energy planning is a core action to achieve low carbon economy Małopolska region has started process of developing own Regional Energy Plan. The Plan work timeline is based on same focus areas such as (i) energy planning, policy, consensus building and implementation, (ii) unified legislative and regulatory advocacy with all document which are in region, (iii) coordination (iv) evaluation of the Regional Energy Plan implementation efforts in the region. The main objectives highlighted in POWER projects such as increasing energy security, decreasing CO<sub>2</sub> emissions and creating industrial development will be also included into REP..

All action, especially, these in areas where policy can make a real difference will be a particular focus, and specific bottlenecks like inconsistencies in policy and market failures will be tackled to ensure that policies are all going in the same direction. Cross-cutting themes such as consumption and innovation will also be in the spotlight, and key resources will be analysed from a life-cycle or value-chain perspective.

The process is on place. The Region has appointed the strategic coordinator for all work stages: Małopolska Regional Agency for Energy and Environmental Management Ltd. The structure for all actions which will be taken is chosen by The Board and consist: Consultation Council, the supporting team and team working on document. The first stage of works consists: The balance of energy resource such as: Balance of natural resources and Balance of power installed also the energy balance for the region for the end of 2010. The subproject findings and results also will be included into the Regional Energy Plan findings and recommendation.

The action already undertaken due to Energy Plan for Region under POWER will be showed during the first Energy Congress – the venue will be also a final closing conference for POWER project in region. The Energy Congress is also under the Patronage of the Polish EU Presidency.