



Biomass energy register
for sustainable site development for
European regions



BEn project: ***Master Plan for Gostynin Lake District & Local Actions***

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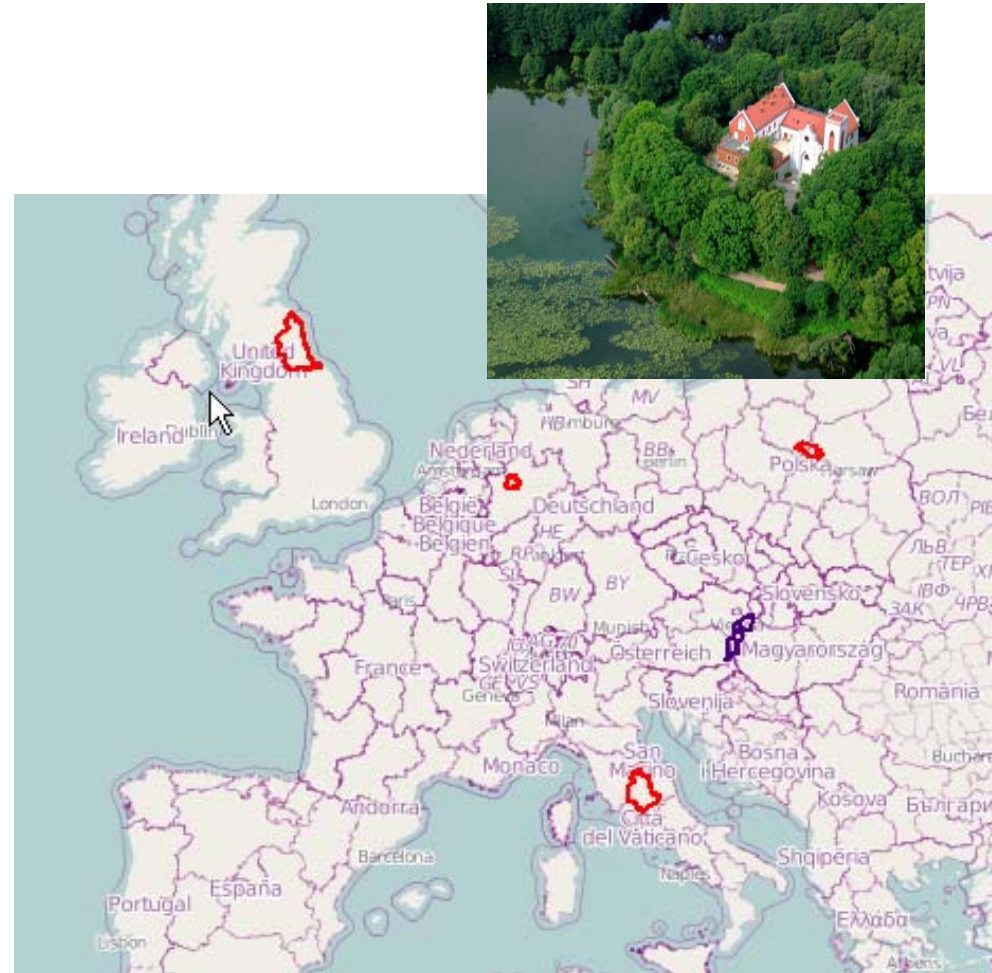
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THE GOSTYNIN LAKE DISTRICT REGION



- Located in the western part of the Mazovia Voivodeship
- Main attributes: lakes, rivers, forests, bogs
- Tourist attractions: the Gostynin – Włocławek Scenic Park, horse-riding, sailing, canoeing, hundreds of kilometers of cycle paths



OPPORTUNITIES FOR BIO-ENERGY DEVELOPMENT



- Good examples and experiences in the field of biomass use for energetic purposes
- High – forest and agricultural - potential
- Need for stabilisation of local income – diversification of activities and lowering the agricultural production costs



- Labour force with different qualifications
- Leaders in the region to serve as good practice examples in the field of bio-energy
- Local policy focused on sustainable tourism development
- Local communes social activity potential



VISION FOR THE REGION



In Gostynin Lake District region the available biomass resources are used for energetic purposes in an efficient way as to assure improvement of the quality of life and good perspective for tourism development

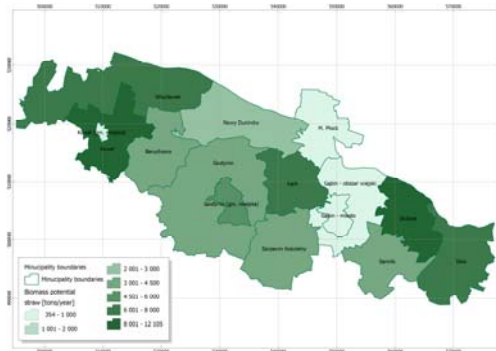
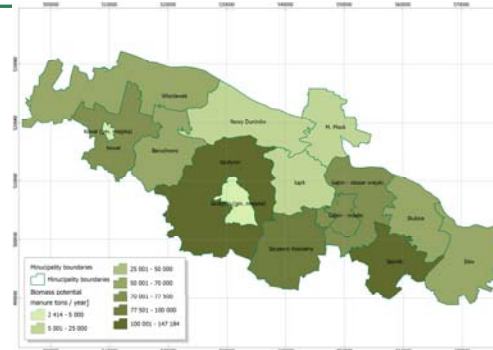


BIOMASS POTENTIAL



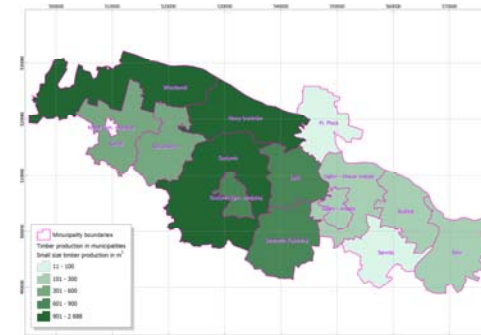
Biogas plants

- 55 GWh of energy (thermal) 30 farmers



Straw use

- in individual boilers/straw processed into pellets about 500 of farmers - around 9,5 MW heat power
- 40 farmers - big farms – total heat power 8 MW



Wood production

- 8 MW heat power in municipalities/SMEs



TWO MAIN ACTIONS CHOSEN BY BEn NETWORK'S MEMBERS



Action 1: Supporting activities addressing farmers interested in the use of biomass for energetic purposes in individual installations



- Individual biomass boilers (20 kW - 1MW) for farmers (10 – 200 ha)
- Medium size biogas plants (do 1,0 MW) for big farmers and food producers
- Production of briquettes for use in individual installations (15-20 kW)

Action 2: Preparation of the documentation for the extension of municipal biomass heat production plant in Łąck



THE GOSTYNIN LAKE DISTRICT TOURIST COMMUNES ASSOCIATION – Master Plan executor



- One of the most important non-governmental organisation in the Gostynin Lake District (founded in 1996)
- Members: 16 towns and communes from the western part of the Mazovia Voivodeship and the eastern part of the Kujawsko – Pomorskie Voivodeship; oriented on ecological, tourist and environmental tasks;
- Main goals:
 - improvement of life conditions within the local communities,
 - development of tourism and ecotourism
 - carefulness of natural environment



ACTIVITIES IN THE REGION



Biomass installations: starting point

- Green School in Sendeń: boiler room using wood, solar collectors, hydroponic sewage treatment plant
- Private farm in Trębki: biomass boiler in distillery
- Ecological – Cultural Association ZIARNO in Grzybów: solar batteries, windmill, household sewage treatment plant



Investments in the region:

- Expansion of the municipal boiler house in Łąck - a biomass boiler using straw and rootwood, an accumulation tank, a storage roof, a stacking yard;
- Building a biogas boiler in the farm in Trębki – biomass to use: wastes coming from the chicken farm, the distillery and energy plants – at present
- Modernisation of the farm in Sieraków – changeover of a coal boiler to a straw boiler using biomass located in the area of the farm – concept realisation in 2 years

ACTION 1: SUPPORTING ACTIVITIES

(addressing farmers interested in the use of biomass for energetic purposes in individual installations)

Promotion materials

- Brochure
- Flyers and posters
- Notebook with information and logo of the project
- Folders with educational materials inside and logo
- Pencils with the logo of the project
- Articles in magazines



Information and expert advice

Social campaign: meetings oriented on farmers, support from municipal offices

Financial support (LEADER)

ACTION 1: SUPPORTING ACTIVITIES

(addressing farmers interested in the use of biomass for energetic purposes in individual installations)

2-days study tour for 30 people, September 2010

Frombork – biomass heating plant (straw)

Łukta - biomass heating plant (woodchips)

Kisielice - biomass heating plant (straw)

Płońsk – biomass heating plant

Liszkowo – biogas plant

Świecie - paper production factory that uses biomass and coal



ACTION 2: PREPARATION OF THE DOCUMENTATION

for the extension of municipal biomass heat production plant in Łąck

- Opportunity study: done by Polish Biomass Association
- Pre-feasibility study: done by Polish Biomass Association
- Technical project: elements of the boiler house: a biomass boiler using straw and rootwood, an accumulation tank, a storage roof, a stacking yard
- Application for financing: external or internal funds
- Implementation of the investment: in one year's time



PERSPECTIVES FOR BIOENERGY DEVELOPMENT IN THE REGION



- Expansion of the municipal boiler house in Łąck – development of the center of Łąck
- Baruchowo Municipality – a sports hall and a school
- Gostynin Municipality – a school in Sokołów
- Solec – the Municipal Service Department
- Szczawin Kościelny – four houses





THANK YOU FOR YOUR ATTENTION

