

Case study

Energy Management Agency in the Vistula River Valley

The analysis of the possibilities of meeting energy needs in Kwidzyn, Sztum, Malbork and Iława counties from 2010 until 2020 with special focus on renewable energy sources.

1. The inaugural conference was organised for regional and local authorities, NGO's producers and consumers before the work on the case study started. During the conference the basic goals of the agency were presented and the importance of energy planning was discussed. The representatives of local authorities promised to help to collect the necessary data in order to estimate the energy needs until 2020.
2. The data concerning the counties was collected from GUS and counties' documents.
3. The list of the companies which distribute electrical and thermal energy and fuels was prepared.
4. The energy consumers were identified and divided into four groups.
5. The methodology of data analysis was prepared because the coming data was systemized in different ways.
6. The demographic forecast and the economy trends published by GUS for the year 2020 were analysed.
7. On the basis of the collected data the energy and fuel consumption trend was described and the analysis for the year 2020 was prepared. The forecast includes the potential and the development of RES in 2020.
8. The data and the analysis were sent to counties' authorities for examination.
9. Conferences in every county were organised in order to discuss and amend the analysis. Altogether 162 people took part in the conferences.
10. After the conferences the final version of the analysis was prepared, published and sent to local authorities and it is also available on the web page of the agency.
11. The main conclusions of the analysis are:
 - the counties have different energy consumption due to their unique economies, the biggest is in Kwidzyn county because of the presence of pulp and paper - plant there,

- the energy consumption by the inhabitants of the counties does not vary significantly,
- the participation of energy carriers and the consumption of fuels in the counties depends on their economies
- total energy consumption (electric energy, thermal energy and transport) in 2010 in Kwidzyn county is 22,3 PJ, Malborsk county – 3,7 PJ, Sztum county – 3,6 PJ, Iława county – 6,1 PJ. In 2020 the energy consumption will go up by 3 – 4%, but in Kwidzyn county the consumption goes down by 4% because of the reduction of industrial energy consumption,
- at present the use of RES in Malborsk county is 0,5%, Sztum county - 11%, Iława county – 12%, Kwidzyn county – 27% (the use of production waste by paper and pulp plant in Kwidzyn)
- the potential of RES in the region is significant and approximately covers 30% of demand in 2020.

