

Minutes from the meeting of the Working Subgroup for Load Research

Tuzla, March 26, 2013

Agenda:

1. Status of the implementation of LR activities
2. Conclusions from the Workshop in Teslić – comments and suggestions
3. EP reports on implementation of LR activities since the last report up to March 2013.
 - ERS
 - EPBiH
 - EPHZHB
 - Brcko District
4. Discussion on the EP reports presented in the Workshop in Teslić and questions for EPs
 - The possibility of decrease of number of groups in the category Other Consumption
 - The continuation of the analysis in regard to customers with small consumption in the category of households
 - Questions for EP BiH
 - Questions for ERS
5. AOB

1. Status of the implementation of LR activities – After the introductory remarks of the hosts from SERC, REAP presented the Agenda and gave a short overview of the status of implementation of the LR program made in the very beginning of the Subgroup's work. It was concluded that the implementation of the program is going as planned because the key tasks were realized or are being realized at the moment.

2. Conclusions from the Workshop in Teslić – comments and suggestions - Conclusions from the Workshop in Teslić were repeated, and the participants gave their comments and suggestions. Within this agenda item REAP presented the methods for the use of the LR results in tariff design and balance settlement with special focus on development of the normalized load curve.

3. EP report on the LR activities carried out since the last report until March 2013 – Within this item of the Agenda, the EPs gave a short overview of the LR activities that they have implemented since the last meeting of the Subgroup:

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Elektroprivreda RS: ERS conducted their 6th round of metering. The goal of the analysis of the results from this cycle is to obtain the normalized load curve, in accordance with the LR Guidelines. The metering showed that the sample for the category of Other Consumption was inadequate so the distribution companies were instructed to install additional metering devices specifically for this customer category. One of the conclusions made by ERS after this round of metering is that in order to obtain better quality results in the next round some groups within the category of Other Consumption should be merged. An additional challenge that they faced was the inability to conduct metering in one company because of technical difficulties, which slightly corrupted the sample.

Elektroprivreda BiH: EPBiH conducted another round of metering in February 2013 and analyzed the obtained data, particularly focusing on monitoring the medium voltage customers, which is a something new compared to the previous round. Based on an analysis it was concluded that the number of samples should be increased for the category of households. EP LR BiH team also observed 10 small consumption customers in order to test their influence on the load curve, and the analysis showed that this group has a relatively small influence, which can be disregarded. Customers from the category of Other Consumption on 0,4 kV with capacity metering (>23 kW) are currently being considered for inclusion in the LR project, either fully or based on a sample. EP BiH also initiated an energy efficiency project for which they drafted customer questionnaires. This project is still in the preparation phase.

Elektrodistribution Brčko District: The LR team from the Brčko District Distribution Company started LR activities by applying the data transfer method. The data was taken from Elektro Bijeljina from the 5th metering cycle conducted in the period May 21 – 27, 2012. By applying the method for stratified data transfer from the donor company the Brčko District LR team developed load diagrams that pretty well reflect the behavior of the observed groups for both companies and compared to the system consumption. In the next analysis, it was planned that by using the data from other participants in the project (JP EP BiH i EP HZ HB) Brčko District will develop comparative load curves for its customers and determine the load curves that will best “describe the behavior of the customers” or customer groups in electricity consumption.

Elektroprivreda HZHB: EP HZHB based their load research activities on LR Guidelines. They have analyzed the existing database and calculated the basic statistical indicators for each group and subgroup. Using the database, they determined the number of customers, annual consumption, average annual consumption, standard deviation. EP HZHB also determined the number of strata for each subgroup as well as their boundaries and the maximum allowed error and confidence interval. Currently, EPHZHB is analyzing the load data for sampled customers in the category of large customers , other consumption and public lighting for the observed period and is organizing data collection from metering devices (load profile) to the aggregators in the period beginning March 18. They will also work on validation of the sample and the collected data.

4. Discussion on the EP reports presented in the Workshop in Teslić and questions for EPs – After the reports given by the EPs, Professor Tatjana Konjić gave a short presentation on the analysis and conclusions made by REAP in regard to the influence of customers with small consumption on the load diagrams; and it was stated that at the moment, the influence of that group of customers can be disregarded but in the period to come there should be a test analysis carried out to determine the future approach to this issue.

5. **AOB** – Within the last agenda item REAP presented the conclusions upon which all the participants agreed. The Conclusions are analyzed in detail in the document Conclusions from the meeting of the LR Subgroup, which is attached to these Minutes. The discussion on the conclusions indicated the need to consider the treatment of distribution losses and their allocation to customers. It was agreed that this should be one of the topics to be discussed in the next meeting of the Subgroup.

It was agreed that the next meeting will be held sometime in the second half of May 2013. The planned topics for that meeting are listed in the Conclusions.

Attachments:

- Time schedule to perform LR technical assistance
- REAP Presentation – Where to use LR results
- Report on activities – EP BiH
- Report on activities – Brčko Distrikt
- Report on activities - EPHZHB
- REAP Presentation – Influence of small consumption customers
- REAP Presentation – Conclusions
- Conclusions from the meeting of the LR Subgroup
- List of participants