

Survey demand response

Results

Presentation to the Users' Group
5 December 2013



Background

Survey launched among all Elia-grid connected industrial customers with the aim of gauging the potential for demand response in Belgium, that would be at disposal for Elia

A cooperation between:



EnergyVille has drafted the report and has done the underlying analysis by order of Elia and Febeliec based on the results of a survey drawn up in collaboration with Elia and Febeliec. The data and the data processing is solely done by EnergyVille.

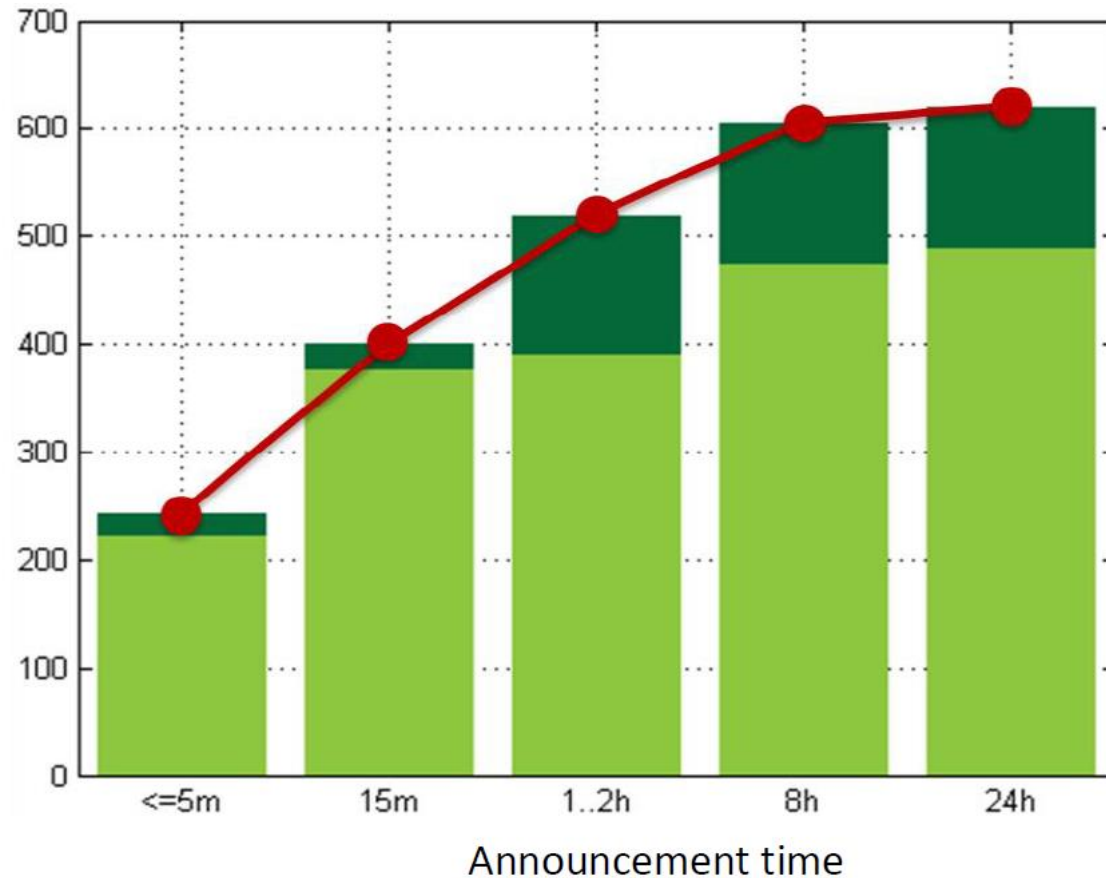
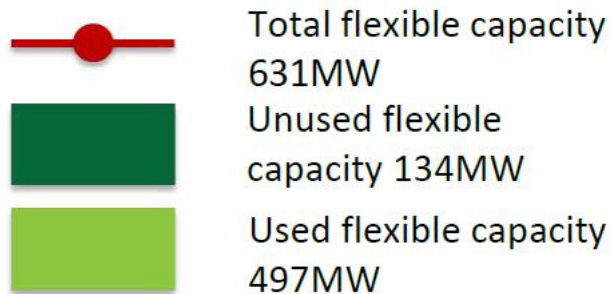
Survey respons rate

> 100 companies received the survey

- **29 companies (38 connection points) reacted with a partial or full answer**
- **Covered consumption**
 - About 11,1 TWh
 - About 13,6% of BE 2012 consumption
- **Profile**
 - Mostly already familiar with demand response
 - Mostly already offering in some way flexibility to the market
 - Mostly 24/7 work regimes
 - On average, electricity is 10% to 25% of the operational cost

Main results

- 631 MW of demand side flexibility identified
- 134 MW not already operated on a smart basis for reducing energy costs



Contractual obligations

- Relaxation of contractual obligation would make it easier to exploit demand side flexibility
- 'ad hoc' contractual arrangements are preferred
- 'day ahead' flexibility mechanism suggested

Announcement time

- (based on 'basic' questions:) For companies not yet offering flexibility: 70% prefers more than 16 hours
- (based on 'detailed' questions:) 107/134 MW (or 8/15) companies prefer more than 1 hour
- Some companies able to react on short notice indicate, however, a preference for longer announcement time

Flexible production on the surveyed industrial sites

- Limited (only 10 facilities identified)
- Only 3 (44/78 MW) are using that flexibility today

Conclusion

- Many of the respondents are already familiar with demand response (~biased population)
- Significant capacity for flexibility, but most of it already used on a smart basis to reduce energy costs
- Technical potential can be larger than found in the survey
- Detected flexibility is not contradictory with findings in other countries
- Less stringent contractual obligations and longer announcement times help to extract new sources of flexibility
- ➔ Elia, Febeliec and EnergyVille concluded that there is potential for demand side flexibility in the Belgian industry, for which further investigation should be considered.

Detailed results

Report available online on websites of Febeliec, Energyville and Elia.

Report includes:

- Analysis
- Summary
- Conclusion
- Appendix with detailed survey results

