# Consumer data access and renewables integration

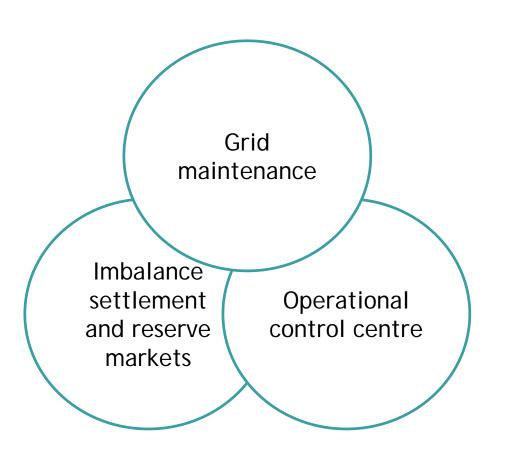
6 November 2018

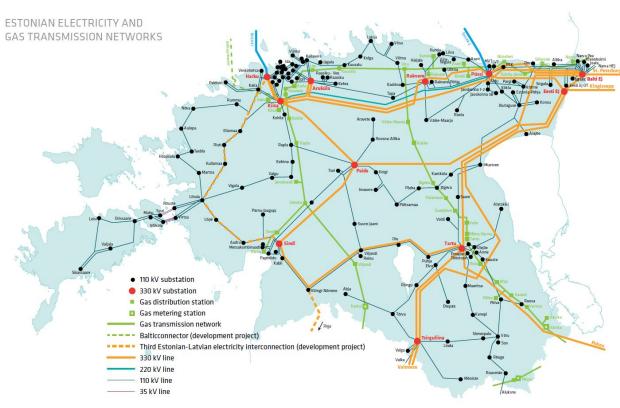
#### **Georg Rute**

Head of the smart grid unit georg.rute@elering.ee



## Elering: Transmission System Operator for electricity and gas





## Customer Empowerment through digitalisation: the story so far in Estonia

100% smart meters (2013 – 2017)

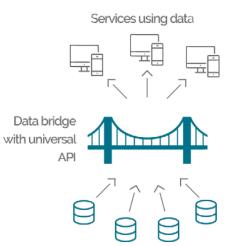


Datahubs for electricity and gas (2013, 2016)



Image from Wikimedia

Estfeed data bridge (2017)



can
download
and share
their data

2013

2016

38% households on hourly varying spot prices – low prices for consumers

2017

Meter data in local datahubs

Consumers in control of their energy data



### Data access enables innovation

#### **Example**

WePower- Cryptocurrency investment platform into renewables



### GDPR and the Clean Energy Package require consumer data access

#### Clean Energy Package: consumers own their data

Directive on common rules for the internal market in electricity, Article 23:

- 1. Consumers must be able to share their data
- Data access and exchange must be efficiently organised

#### Appendix II:

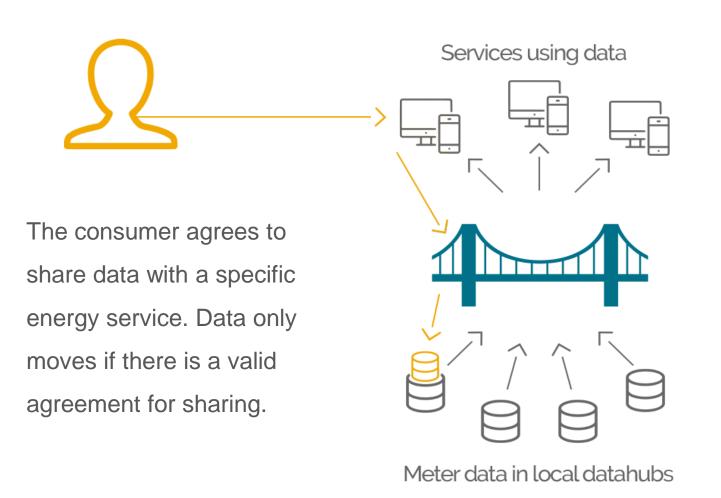
- The data must be accessible in near real time
- → consumers must be able to share their energy data

#### GDPR: data privacy must be ensured

- 1. The purpose of data use must be clear to consumers
- Proper measures must be taken to ensure security, confidentiality, integrity, availability and resilience of data processing

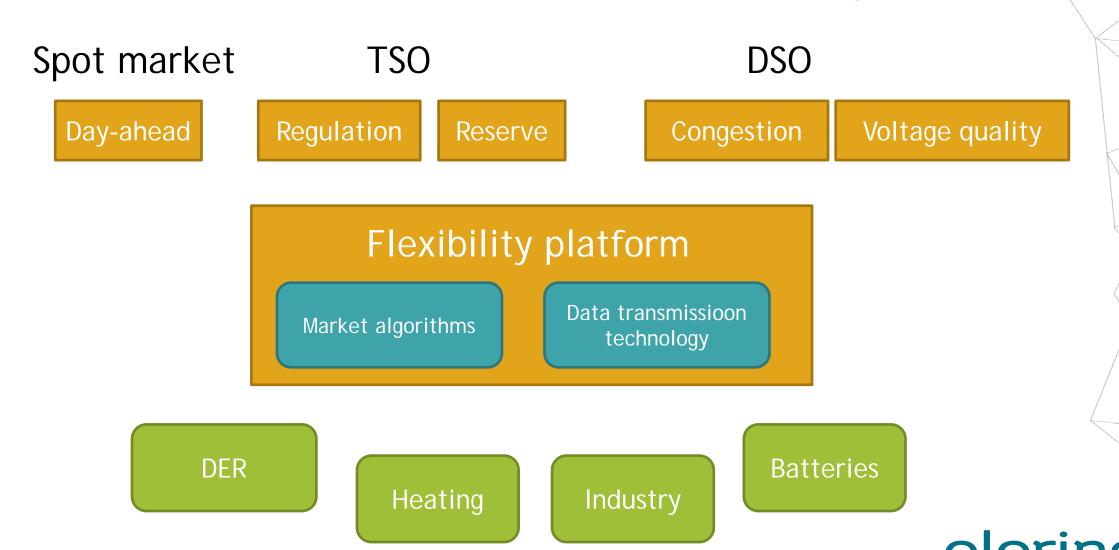
data sharing must be secure and approved by the consumer

## A data bridge that connects datahubs and energy services with the permission of the customer





### Flexibility platforms require secure data sharing



### How to collaborate?

#### Connect your data

Interface your datahub or meter data management system to the existing data bridge and comply with data sharing regulations.

#### Become a partner

We are looking for partners for providing the data bridge service in new regions and on a European level. As a partner you are a frontrunner in the energy transition. Estfeed is used in several demonstrations in the Horizon2020 project EU Sysflex



