

# Consumer data access and renewables integration

6 November 2018

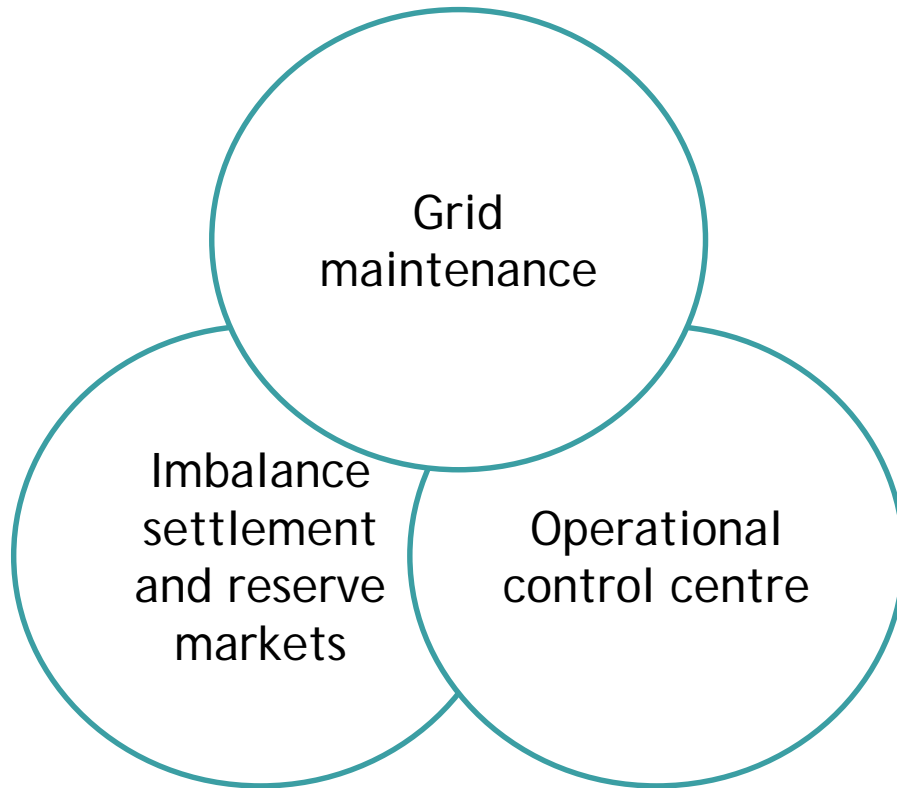
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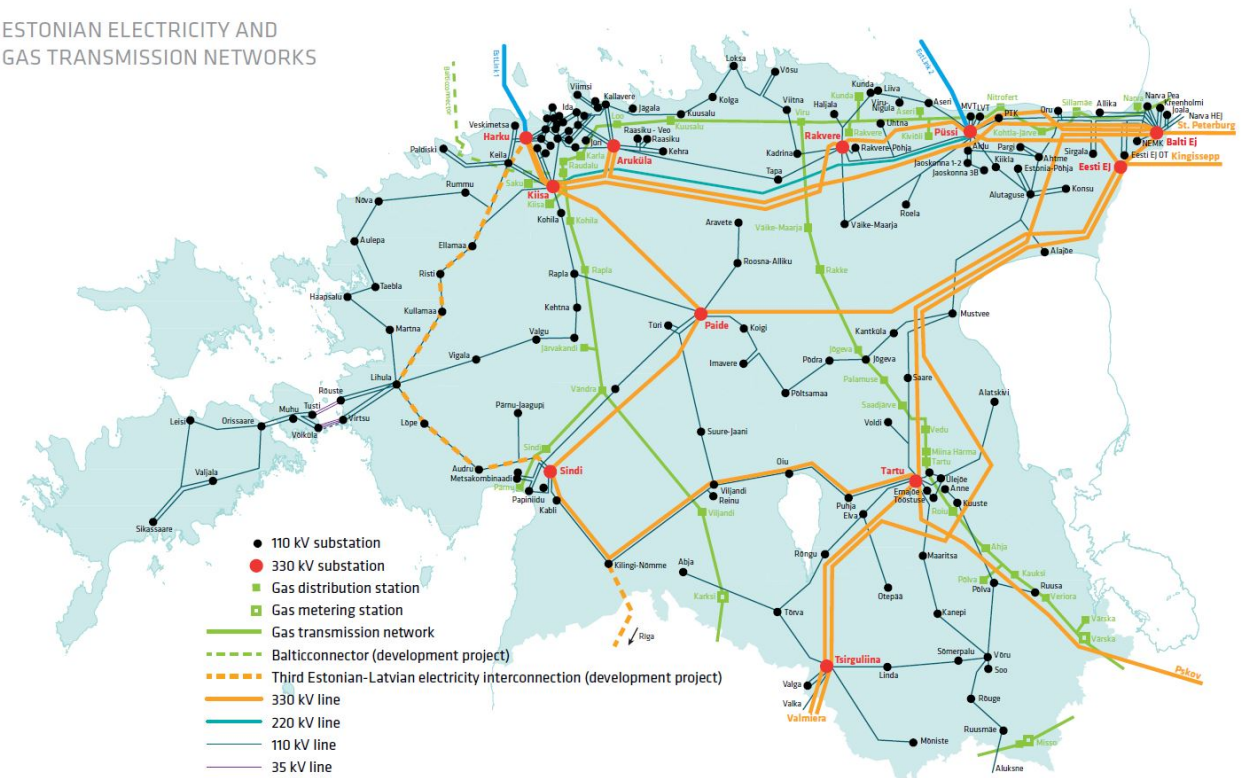


**elering**  
GENERATING OPPORTUNITIES

# Elering: Transmission System Operator for electricity and gas



ESTONIAN ELECTRICITY AND GAS TRANSMISSION NETWORKS



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

100% smart meters  
(2013 – 2017)



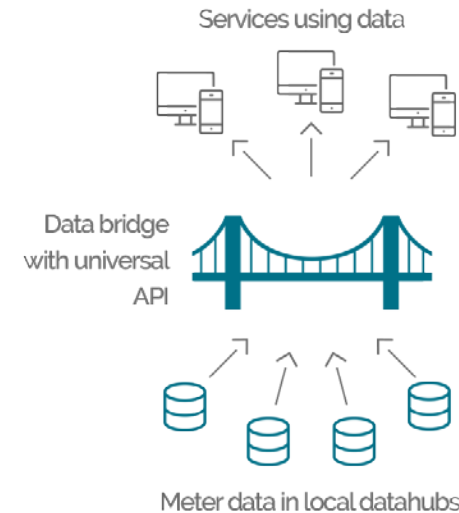
Landys-Gyr IDIS E450 PLC

Datahubs for electricity and gas  
(2013, 2016)



Image from Wikimedia

Estfeed data bridge  
(2017)



Consumers  
can  
download  
and share  
their data

2013

2016

2017

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

Consumers in control  
of their energy data



# Data access enables innovation

## Example

WePower- Cryptocurrency investment platform into renewables



**we  
power**

**WePower is a blockchain-based green energy trading platform**

It enables green energy producers to raise capital by issuing tradable energy tokens.

The image features a background of a green field with several wind turbines under a cloudy sky. The text is overlaid on the right side of the image, with decorative blue, yellow, and green diagonal stripes on the left and right edges.

# 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
2. Data access and exchange must be efficiently organised

## **Appendix II:**

3. The data must be accessible in near real time

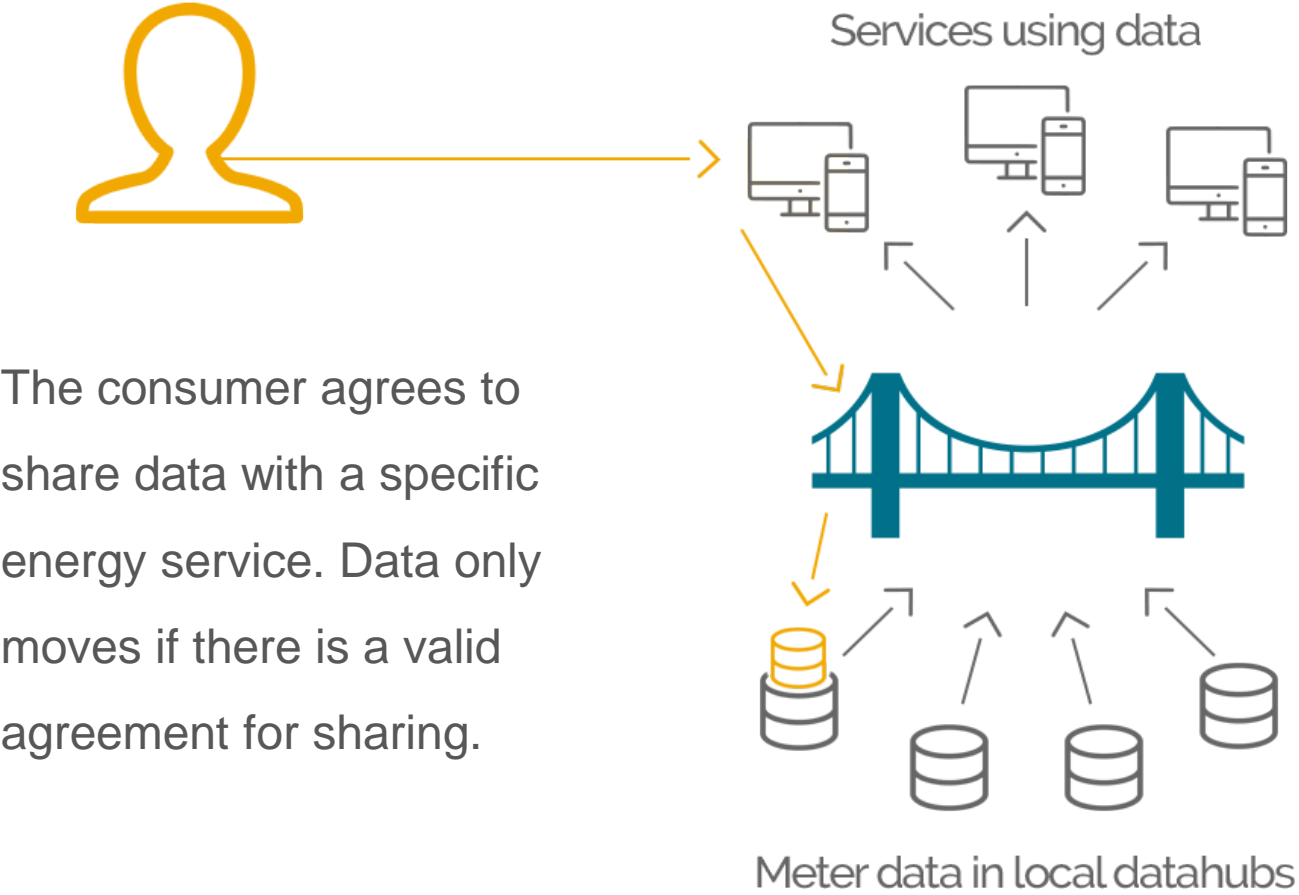
→ **consumers must be able to share their energy data**

## **GDPR: data privacy must be ensured**

1. The purpose of data use must be clear to consumers
2. 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

Spot market

TSO

DSO

Day-ahead

Regulation

Reserve

Congestion

Voltage quality

Flexibility platform

Market algorithms

Data transmission technology

DER

Heating

Industry

Batteries

# 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.

Find out more by contacting us on [georg.rute@elering.ee](mailto:georg.rute@elering.ee)

Estfeed is used in several demonstrations in the Horizon2020 project EU Sysflex

