ESTFEED project Data Exchange Platform and e-elering Client Portal

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Main goal and background

• Legal, secure and one stop access to energy consumption data

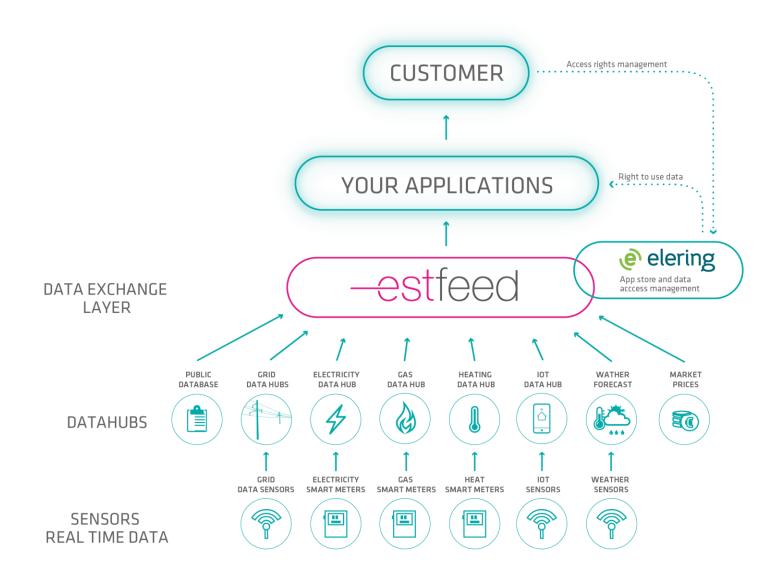
- Owner of the data is the end-consumer (grid contract owner)
- Mandate management system

• Enabling factors:

- 100% smart meters installed in electricity, 80% in gas
- 2013 opening of the electricity market
- Electricity Data Hub (2012) and Gas Data Hub (2016) regulated by the law (Electricity Market Act and Natural Gas Act)
- Public X-road data exchange layer and ID-card



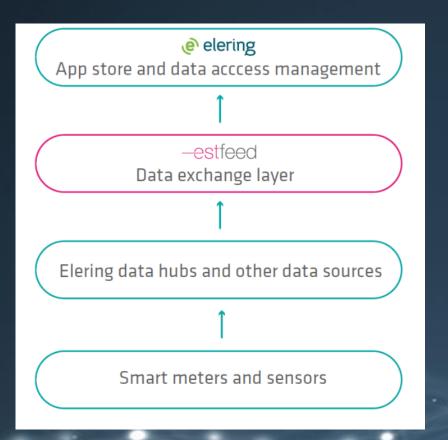
Data flows and data access management



Estfeed Protocol HTTP and TLS connections Built on X-road technology (adapter and security servers)



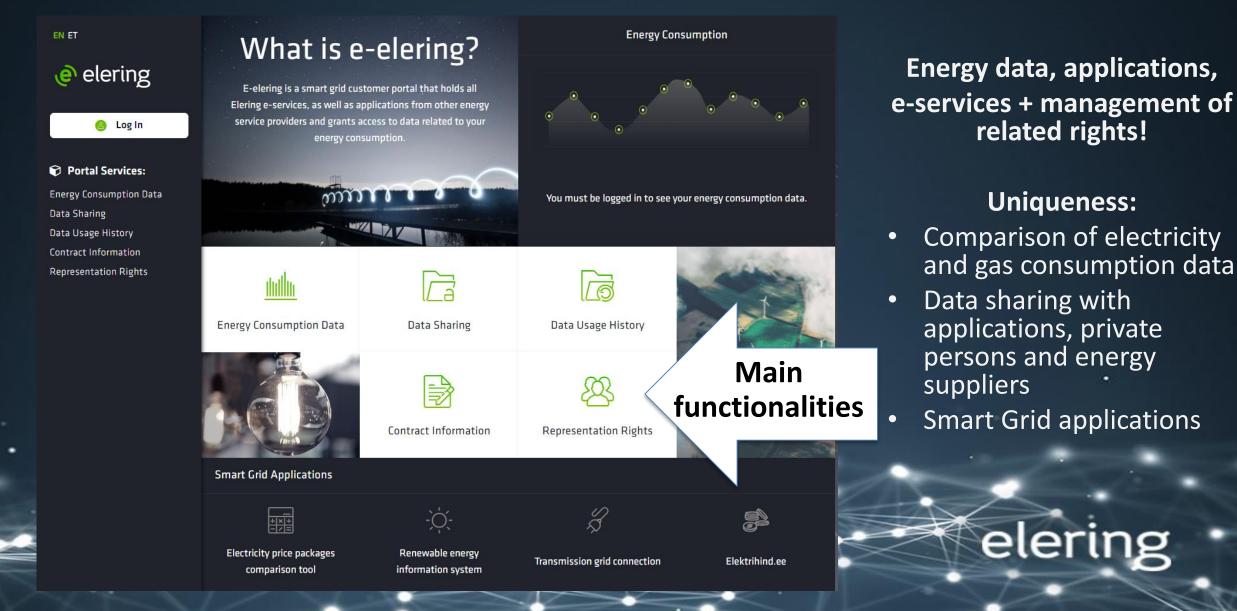
Estfeed



- Connects data sources, applications and consumers
- Secure access and management of data
- 12 Estfeed services
- Electricity & Gas Data Hubs, Central Commercial Register, Electricity price (Nord Pool), weather forecast (Foreca)

elering

E-elering – Estfeed UI



Partners

- Cybernetica AS (R&D contract)
- Thinklab, Aktors, Girf (procurement contract)
- Other interested parties, clients of Estfeed different energy service providers who need energy consumption data
- 15 applications, 4 integrated with the platform
- Smart grid council once every quarter



Main lessons learned and barriers to innovation deployment

- High complexity & tense deadlines
- External very competent R&D partner
- Analysis and realization at the same time
- Value proposition
- Business model



Estfeed next developments

• Short run:

- Easy integration process and client administration
- More applications and data sources
- Long run:
 - Cross-border data exchange
 - Transmission of on/off commands
 - Alternative data exchange channels, platforms
 - Service fee



Elering – Electricity, Gas and Smart Grid System Operator

Estfeed – Tool for Realizing Smart Grid

E-elering – Customer Access to Data and Services

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