

Smart Metering in Estonia

Triinu Tamm, CEO 25th of January, 2022

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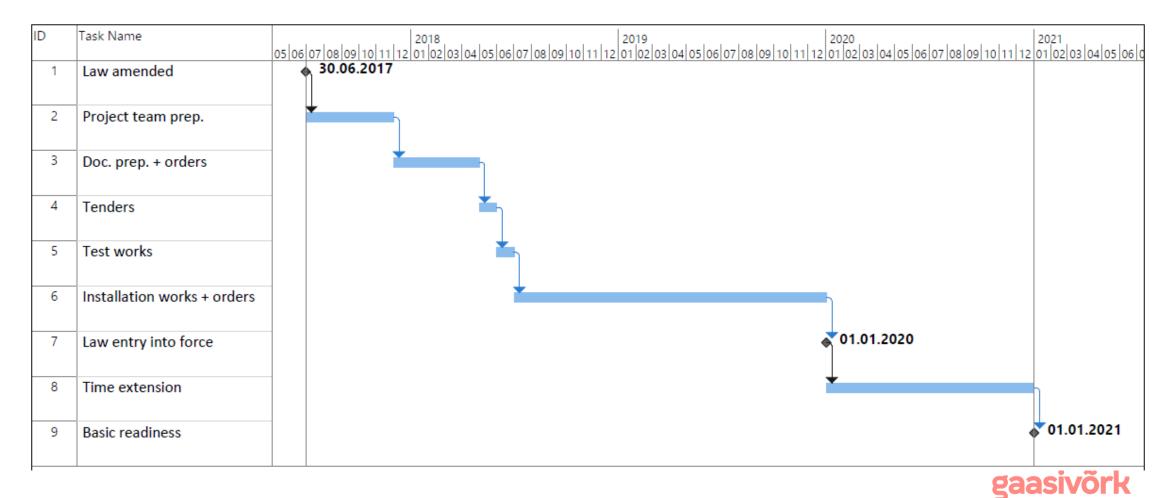
Natural Gas Act

[RT I, 30.06.2017, 2 – entry into force 01.01.2020]

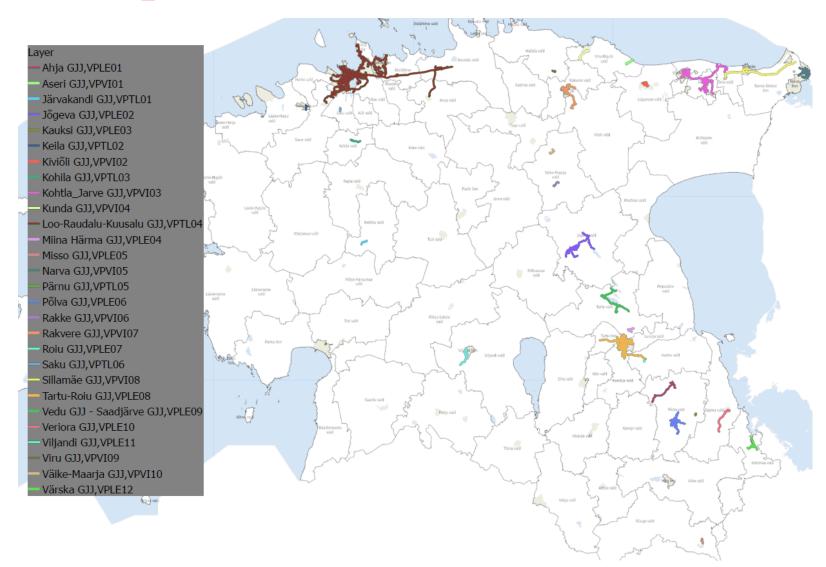
§ 24. (1³) A network operator must ensure that any metering point through which a quantity of at least **750 cubic metres** of gas is consumed from its network in a year is equipped with a metering system which, when measuring the quantity of gas, takes into account the temperature of gas in the metering system, and allows for **remote reading of metering data.**



Time line



Scope



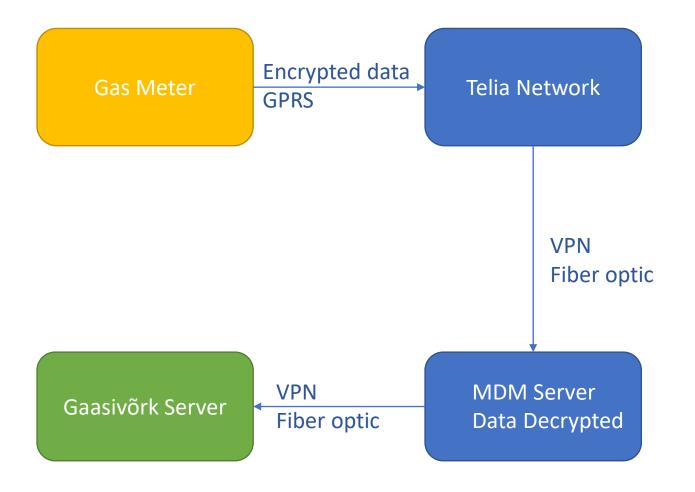






- A1 Gasmeter
- Size G16- G25
- Type: Honeywell ThemisPluss
- With Temp. measuring and compensating
- With pressure measuring and compensating
- Communication type: GPRS
- A2 Gasmeter
- Size G4- G6
- Type: Honeywell BK_GXETe
- With Temp. Measuring and compensating
- Communication type: GPRS

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Data flow

Gasmeter sends out data every day in same time and gets updates from MDM server.

Conection and data are both encrypted.



Meters Installed, 2018-2020







Suggestions to producers!

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Benefits

- Reduction of measured "gas loss" 0.2%
- More than 1000 updated client contacts
- Upgrade/renovation of gas grid (connection points)
- Possibility to close the gas flow remotely
- Possibility to integrate gas meter data to Smart home systems

Downsides

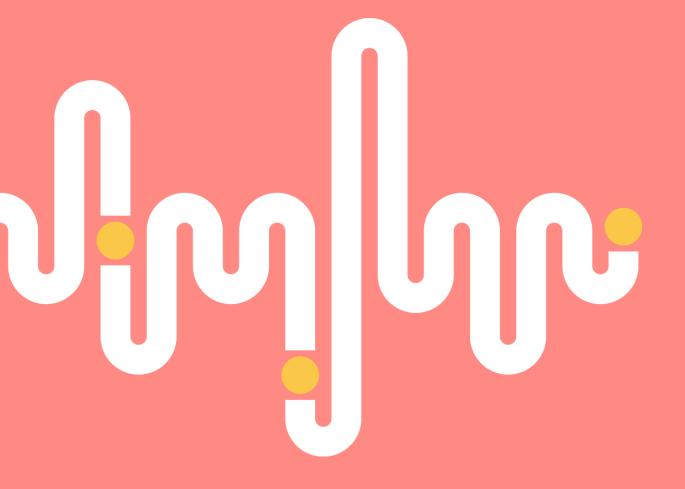
- Possible cyber security risk
- Software malfunctions
- Maintenance need







Renovated connection point



Questions & Discussion!

Thank You!