



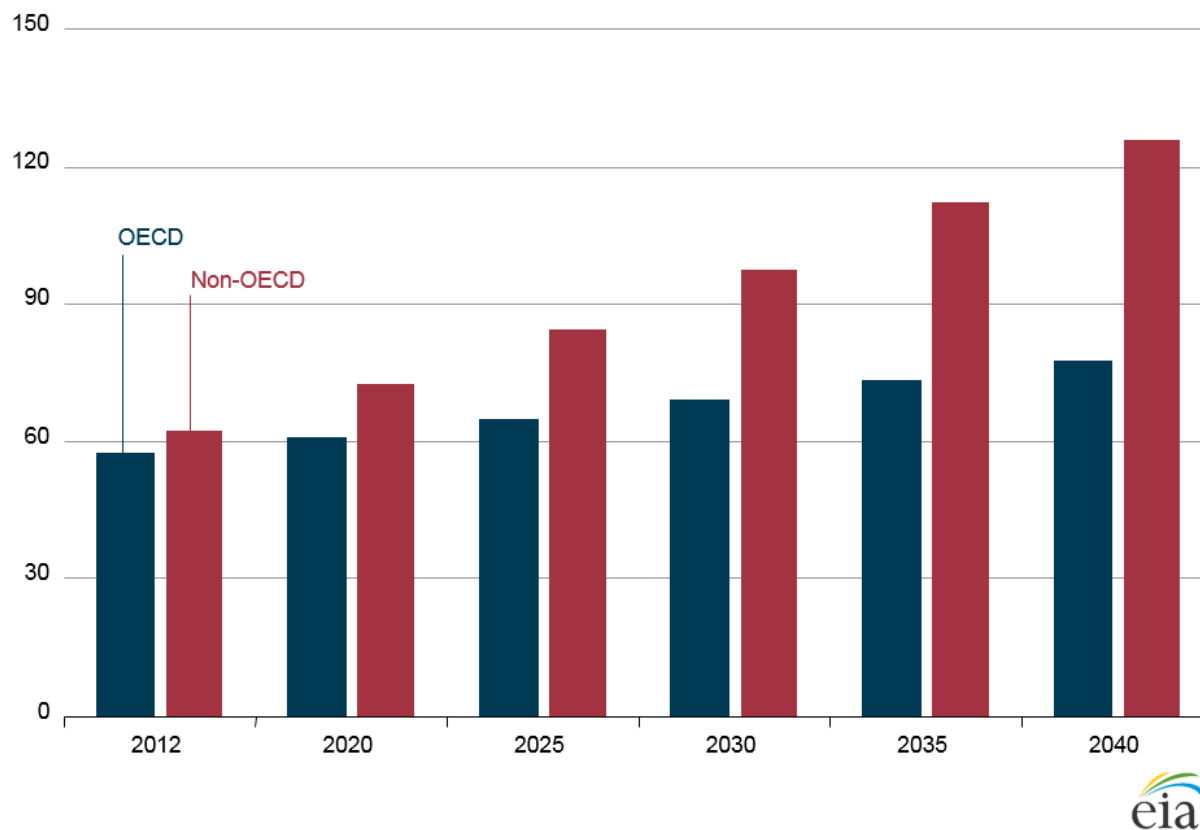
**CEE Gas Conference**  
15-16 february 2017  
Zagreb, Croatia

Ants Noot, CEO Eesti Gaas



# World natural gas consumption

Figure 3-1. World natural gas consumption, 2012–40  
trillion cubic feet

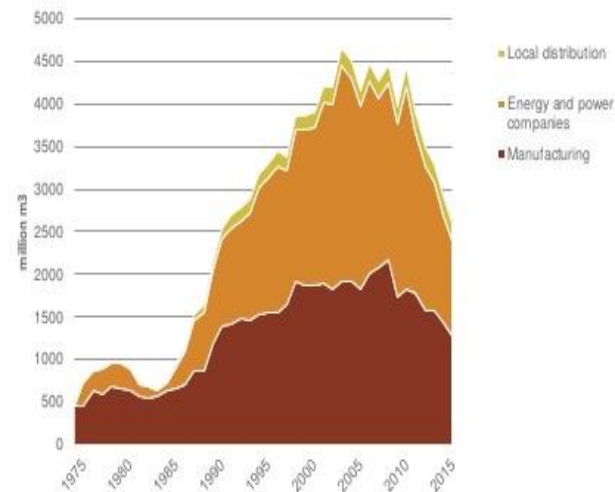




## Natural gas consumption in Estonia



## Natural gas consumption in Finland (1974 – 2015)



Source: Finnish Gas Association



KAASUYHDISTYS, FI



## Reasons

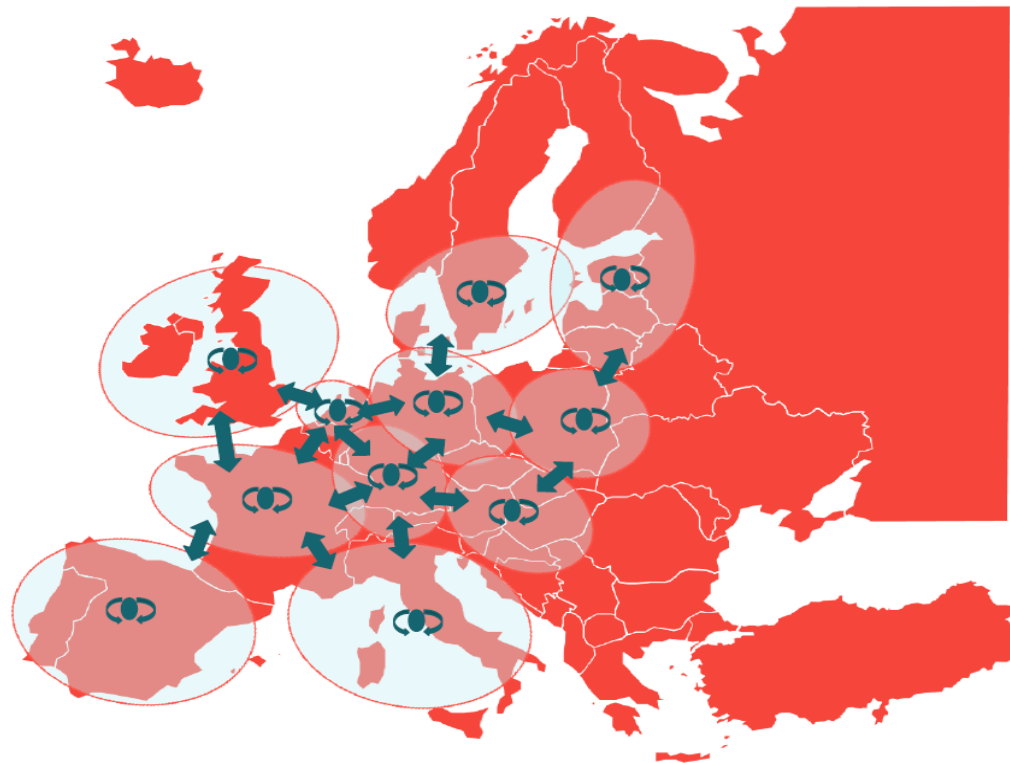
- ❖ Switching of powerstations and boilerhouses from gas to renewables, cut down gas consumption ca 100 MCM
- ❖ District Heating Regulation (ca 10 MCM less of gas consumption every year)
- ❖ Increasing of grid fee
- ❖ Tax policy
- ❖ More energy saving buildings, N-zero (impact not only on the use of gas)
- ❖ Weather factor



## A vision for the Gas Target Model...

### GTM objectives

- The GTM focuses on efficient use of infrastructure between large Entry-Exit zones – which do not necessarily correspond to Member States.
- By making gas available on hubs to be traded by 3<sup>rd</sup> parties, consumers should face more competitive retail prices.
- Through transparent market based valuation of gas on traded hubs, TSOs should be able to understand the value of network reinforcements.




...liquid hubs and efficient use of gas infrastructure






# Regional Projects

| No | Location         | Country  | Project [CP**]                                | Type                               | Size            | Cost Mil.EUR | Est       |
|----|------------------|----------|---|------------------------------------|-----------------|--------------|-----------|
| 1  | Klaipeda         | LIT      | Höegh LNG Holdings [Klaipėdos Nafta / Litgas] | FSRU ship; on-grid                 | 170 000         | *714         | 2014-2024 |
| 2  | Tallinn          | EST      | Vopak   | Small/Regional; on-grid.           | 4 800 / 160 000 | 25 / 250     | 2018/2019 |
| 3  | Paldiski         | EST      | Balti Gaas [Alexela]                          | Regional; on-grid***               | 160 000         | 340          | ***/2019  |
| 4  | Baltic-connector | EST/ FIN | Elering/ Balticconnector OY                   | 157 km gas grid (81 km off- shore) |                 | 250          | 2019      |
| 5  | Pori             | FIN      | Skargas [Gasum OY]                            | Small; <b>off-grid.</b>            | 30 000          | 86           | 4QTR 2016 |
| 6  | Tornio           | FIN      | Manga [Gasum OY]                              | Small; <b>off-grid.</b>            | 50 000          | 100          | 2017      |
| 7  | Hamina           | FIN      | Haminan Energia OY [Alexela ]                 | Small; on-grid.                    | 30 000          | 90           | 2018      |
| 8  | Rauma            | FIN      | AGA [AGA]                                     | Small; <b>off-grid.</b>            | 10 000          | 30           | On hold   |

 -Underground storage

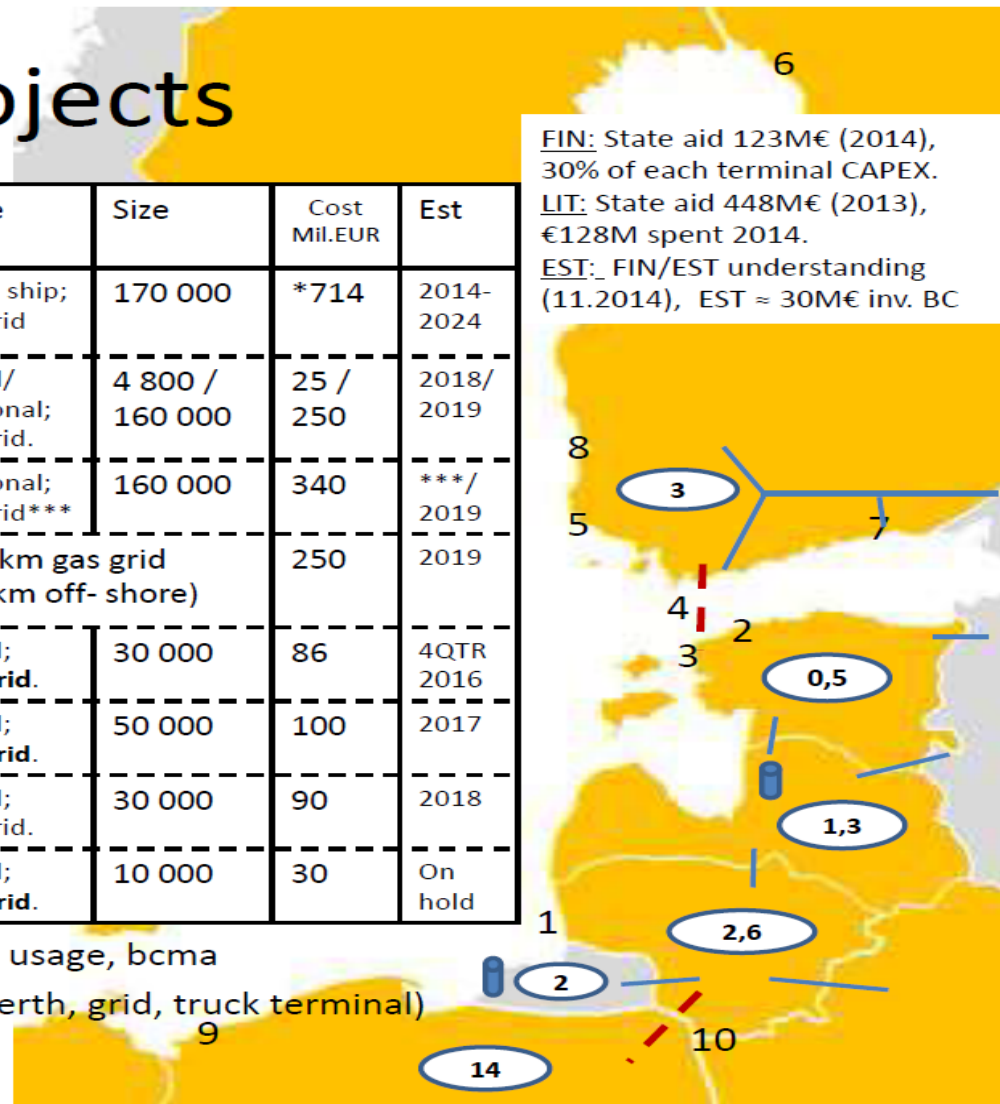
 -Gas usage, bcma

\*/10 year **time charter** fee €614 + CAPEX€100 (berth, grid, truck terminal)

\*\*/CP- commercial partner

\*\*\*/requires Balticconnector (BC)

**FIN:** State aid 123M€ (2014), 30% of each terminal CAPEX.  
**LIT:** State aid 448M€ (2013), €128M spent 2014.  
**EST:** FIN/EST understanding (11.2014), EST ≈ 30M€ inv. BC



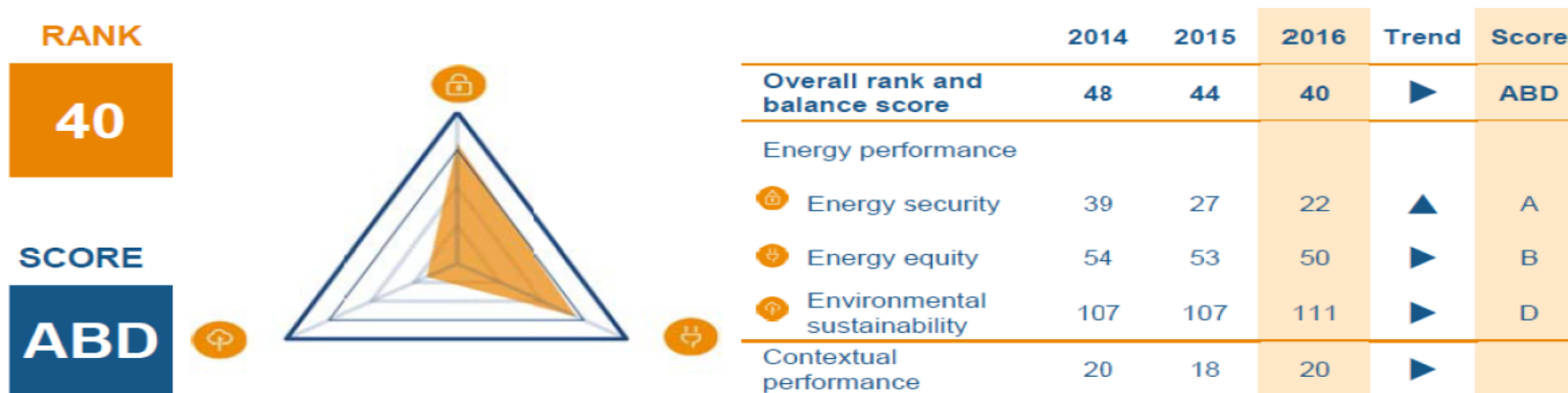


## World Energy Trilemma 2016

# Estonia

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### TRILEMMA INDEX RANKINGS AND BALANCE SCORE



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Thank you!