



REPUBLIC OF ESTONIA  
MINISTRY OF CLIMATE

# Development of electricity storage market in Estonia

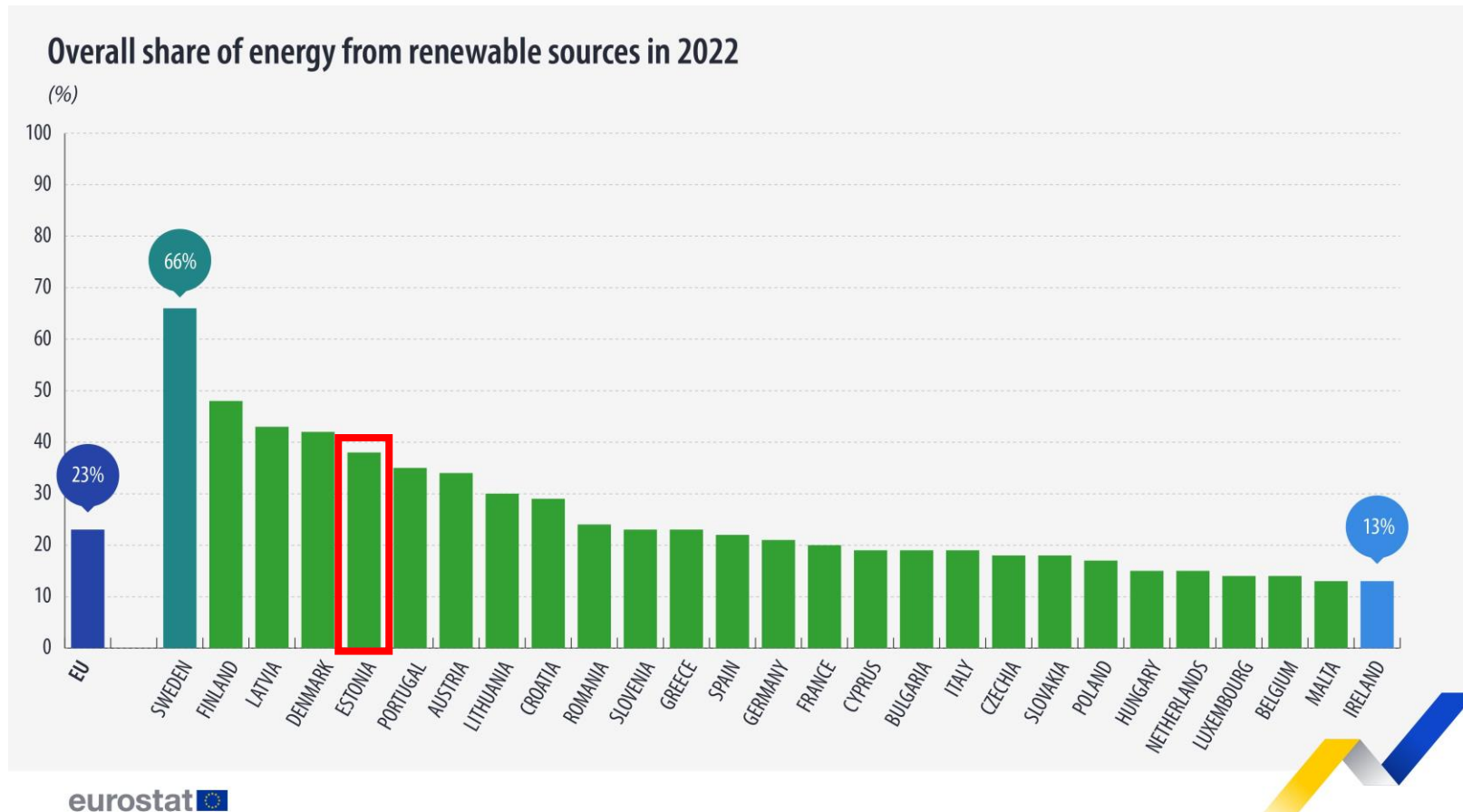
**Tauno Hilimon**

Energy market expert

Energy Department

# Where are we today?

5th in overall share of energy from renewable sources **38%**



Renewable heating **65,4%**



Renewables electricity **29,1%**



Renewables in transport **8,5%**

# Main goals until 2030





## Then and now 2030

- **Share of renewable energy in final energy consumption 65%**
  - **Renewable electricity production in relation to final consumption 100%**
  - Share of renewable energy in heating 69%
  - Share of renewable energy in transport 14%

## Targets for 2030?

- **Energy sector development plan 2035**

# Trends in electricity until 2030

- **100% renewable electricity production in relation to final consumption in 2030**
  - Wind and solar → Share of intermittent electricity and volatility in the spot market 
  - Need for non-fossil flexibility → Supply and demand side 
- **Synchronization project end 2025 → now beginning of 2025**
  - Load-frequency reserves
- **Less firm capacity** 
  - Electricity reserve mechanism (strategic reserve) (2028)
- **Grid congestion → use of flexibility** 

# Role of electricity storage

**Provide necessary reserves**

**Decrease average prices in spot market**

**Decrease and avoid renewable curtailment**



**Changes to national energy regulation (2024)**

**Analyzing possible financial mechanisms (2024)**

**Legislative changes from electricity market design update (2025)**

- Assessment of flexibility needs
- National objectives for non-fossil flexibility

# Hackathon

- **Two-day event:**

- Seminar

- Workshops

- **1st day:** What are the market barriers and which legislative changes can remove these?

- **2nd day:** Which financial mechanisms can be applied to ensure investments into electricity storage?



**Thank you!**