Renewable energies as source of growth and investment in Estonia

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EREA’s introduction

- Established in May 13 2011
- 10 members incl 5 associations

Estonian Biogas Association

Estonian PV Energy Association
Share of RES in H&C, E and T in 2016 vs 2020 and 2030 targets (GWh)

- RES H&C: ↑51,2%
- RES-E: ↑15,5 %
- RES-T: 0,4%

2020 eesmärgid
2030 ENMAK eesmärgid
Annual and cumulative addition of RES-E 2002-2017 (MW)
Cumulative investments into RES-E capacities 2007-2017 (M€)

- Wind investments 425,3 M€, biomass CHP 389,77 M€
- 2017 investments into RES-e 46,39 M€.
RE impact on the Estonian economy

- **Investments into RES-E**: 883,69 M€ 2007-2017
- **Tax revenues**: RES-Electricity sector contributes annually 20,8 M€ to public purse
- **Savings on the heating bills**: Ca 25% savings compared to fossil fuels
  - Annual savings for the consumers 40 M€
- **Cheaper electricity spot prices**: RES-E pushes down spot prices
- **Reduced foreign trade deficit**: 100 M€ less importe fossil fuels annually
- **Jobs**: 3100 created jobs in the country-side
Full transition to renewables by 2030 is technically feasible, economically successful and sustainable.

- **Electricity production according to 100% RE by 2030**
- **Heating and cooling production according to 100% RE by 2030**
- **Transportation sector developments**
The total cost of RE100 for 2030 is 3 041 million Euros.

- Revenues from emissions trading– 188 million EUA units during 2017-2030. Revenues would reach 2,4 billion Euros.
- EU structural funds - 2020-2030 magnitude of 215 million Euros
- Flexibility mechanisms of Renewable energy Directive– magnitude of 2.5 billion Euros to finance Estonia´s offshore wind projects
- Private capital – 50% of the investments
## Economic impact

| **GDP growth** | Increases GDP growth on average 2.2% in the period of 2017-2030 (500 M€) annually |
| **Increase in the purchasing power of households** | The purchasing power of households will increase annually by 368 M€ |
| **Improves the attractiveness of the country** | In the eyes of investors and talents, it's raising the country's attractiveness |
| **Improves the trade balance** | Reduces energy imports annually by 604 M€ |
| **Net government revenues** | Increases net government revenues by 139 M€ per year |
Renewable energy sector has a major impact on the economy

Full transition to renewable energy (RE100) in the electricity and heating sector in Estonia is economically viable and technically feasible by 2030

RE100 production portfolio is competitive

RE100 requires investments in the amount of 3042 million Euros, necessary investments can be financed through revenues from private capital and alternative sources of funding

The potential of renewable energy in Estonia is still largely untapped
Thank you!

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