

Measures against Energy Poverty in Estonia

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Storyboard

- ⇒ State Measures for Energy Efficiency investments of households
 - ⇒Grant scheme
 - ⇒ State Guaranteed Long Maturity Low Interest Rate Loan
 - ⇒ (Technical Support, Campaigns)

⇒ RES support scheme in Estonia

Background for Households Energy Efficiency Measures

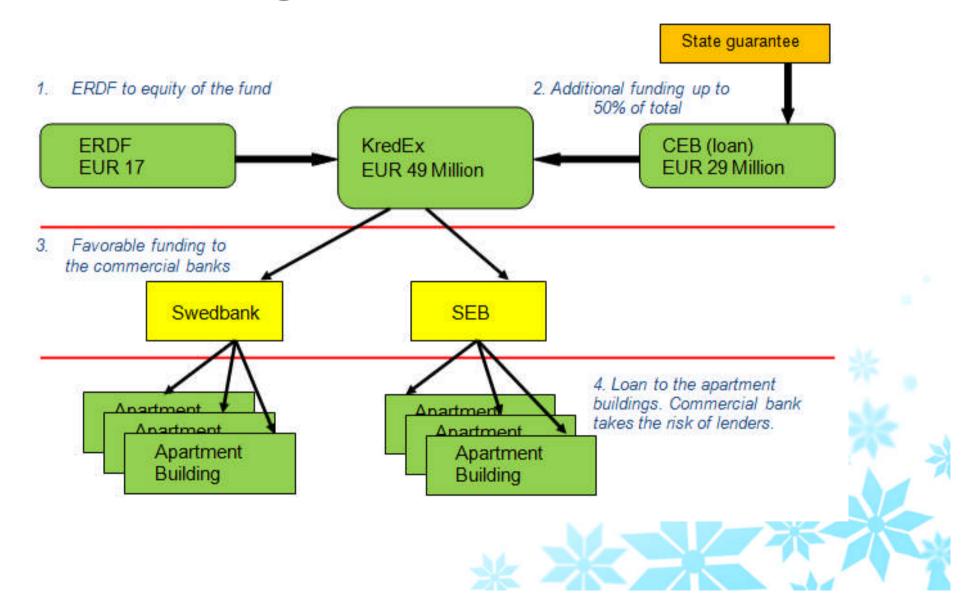
- ⇒80% of the housing stock is built in 1960-1990
- ⇒ 2/3 of the housing stock is appartment houses
- ⇒ 40-60% of households energy costs are associated with heating
- ⇒ 70% of the heating of housing stock is based on district heating
- ⇒ CO₂ emissions have decreased more than 55% compared to 1990 (potential for AAU trade)

Applied Policy Measures for households energy efficiency

- ⇒ Loan up to 60% of the investment guaranteed by the state
 - ⇒ Financing from ERDF and State budget

- ⇒ Grants depending on the efficiency improvements
 - ⇒Financing from AAU, in the future from ETS revenues

Revolving fund scheme



Grant 15, 25 or 35% - do more, get more

- Grant 15% of the investment
 - fulfill the terms for renovation loan,
 - energy saving 20 or 30%, according to the size of the building
 - Energy label E, energy consumption < 250 kWh/m²
- Grant 25% of the investment
 - roof, facade, windows (U 1,1) heating system,
 - energy saving at least 40%
 - Energy label D, energy consumption < 200 kWh/m²
- Grant 35% of the investment
 - roof, facade, windows (U 1,1) heating system, heat-recovery ventilation system,
 - energy saving at least 50%
 - Energy label C, energy consumption < 150 kWh/m²
- In all the cases it is obligatory to fulfill the criteria for indoor climate!

Rationale for the households energy efficiency measures

- ⇒ More energy efficient housing stock
- ⇒ Rational use for ERDF funds and AAU revenues
- ⇒ Support for the building sector during hard times
- ⇒ Increase of the market value of the housing stock
- ⇒ Reduced energy (natural gas, liquid fuels) imports
- ⇒ Decrease of the costs for most vulnerable

Results so far...

- Loan Facility available from 06.2009, Grant Scheme from 09.2010
- 635 buildings, 23 451 apartments, 54 000 inhabitants
- Ca 1 550 000 m² (6,7% from total ap. m²)
- Total € 48,2 Mill credit, € 19,4 Mill grant
- Total Investment € 87,2 mio, average € 137 000
- Expected average saving 39%, 75 GWh per year
- Total cost savings for consumers 5-20%

Just one case: Tartu mnt 27C Elva

- 1029 m² (finalised 24 Apr. 2011)
- Investment € 127 000, 123 €/m²
- Grant 35% € 44 450, 43€/m²
- Credit € 76 121 for 9 years
- Inventer ventilation system
- Energy savings after first year 60%
- Before 186 kWh/m², after 75 kWh/m²





RES-E regulation in Estonia



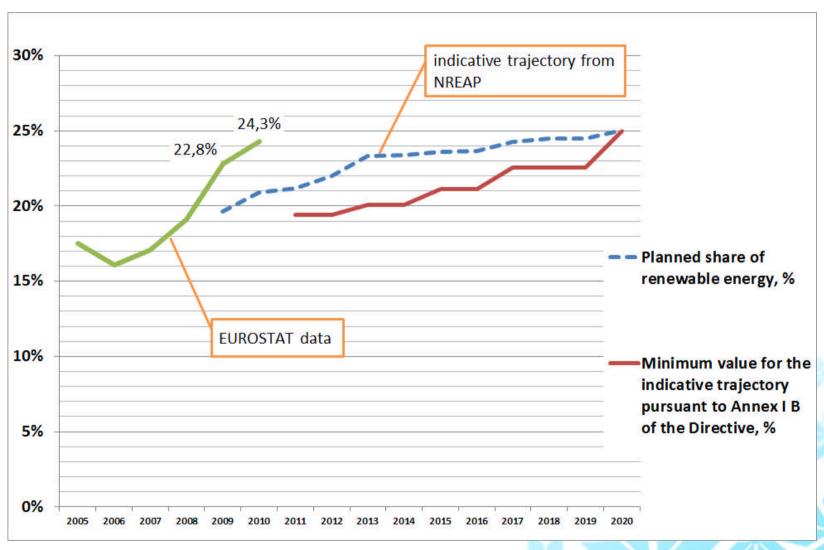
Support scheme for all new RES-E producers

- Premium of 5,4 €cnt/kWh in top of the market price paid by the TSO, charged to consumers
- Available for 12 years from the start of operations
- Balance responsibility
- For windpower: premium is available until within the calendar-year the total production from windpower exceeds 600 GWh

Rationale of the support scheme

- ⇒ Only cost-effective solutions (small hydro, wind, biomass CHP and co-firing) enter the market
 - ⇒ Investment Grant scheme for more expensive solutions
- ⇒ Biomass capped by the heating market volume
- ⇒ Wind power development capped with the annual maximum support volume (600 GWh= around 300 MW)
 - ⇒ Encourages competition between windparks

Total share of RES in Estonia



Additional Cost of Premium to households is around 0,01 EUR/kWh

Thank You for Your Attention!

