

Title of the measure:	EST 15 – Minimum requirements on energy performance and making them gradually stricter
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General description

The detailed requirements for energy performance of buildings were initially provided by the Regulation of the Government in December 2007. The current Minimum Requirements for Energy Performance of Buildings (*Hoone energiatarvutamisega miinimumnõuded*) are stipulated by the regulation of the Minister of Economic Affairs and Infrastructure No. 55 of 3 June 2015. It was accompanied by the regulation No. 58 of 05.06.2015 of the same minister providing The Method for Calculation the Energy Performance of Buildings (*Hoone energiatarvutamisega arvutamise meetodika*).

The Regulation provides a set of definitions related to energy performance of buildings, including several new ones, which had not been defined in legislation of Estonia before, e.g. integrated energy performance indicator, net energy demand, weighting factors for energy and fuel types, etc.

The maximum values of integrated energy performance indicators for residential buildings were stipulated.

Integrated energy performance indicators (kWh/m² a year)

Building type		New buildings	Buildings undergoing major renovation	Low energy buildings	Near zero-energy buildings
Family houses	heated area < 100 m ²	184	210	120	50
	heated area > 100 m ²	160			
Apartment houses		150	180	120	100

It is provided that as a rule the specific heat transmission of the rooms' envelope cannot exceed the value of 0.5 W/(m²·K). For small houses the maximum heat transfer values of building shell are fixed, for other types of buildings the influence of internal indirect sources of heat may play an important role.

Maximum values of heat transfer coefficients U [W/(m²·K)] for envelope elements of small buildings according to previous and current regulations

Indicator	Previous regulation	Current regulation
Outer walls	0.20 – 0.25	0.12 – 0.22
Ceilings and floors	0.15 – 0.20	0.10 – 0.15
Windows and doors	0.70 – 1.40	0.60 – 1.10

Nevertheless, it is pointed out that the real specific values for every building depend on the configuration of the building, as well as on heat supply and ventilation solution for the very concrete building.

The Regulation was enforced from 1 July 2015 with some exceptions.

NEEAP

The measure is included in the National Energy Efficiency Action Plan (NEEAP2) as measure B01.

Impact evaluation

The energy saving effect of introduction of energy performance requirements for new and renovated buildings has not been calculated or estimated. According to the opinion of experts the impact should be high.

Measure Impact Level					
<input type="checkbox"/>	low	<input type="checkbox"/>	medium	<input checked="" type="checkbox"/>	high

Interaction of measures

There is an interaction with the measure *EST 16 – Improving energy performance of buildings*.

References

Texts of Estonian legal acts (in Estonian language) are available at the homepage of the Riigi Teataja (State Gazette / Official Journal): www.riigiteataja.ee.

All national level policy documents (development plans, programmes, etc.) are available at the homepage of the Estonian Government (<http://www.valitsus.ee/et/valitsus/arengukavad>).

Hoone energiatõhususe miinimumnõuded. Majandus- ja taristuministri määrus 03.06.2015 nr 55. RT I, 05.06.2015, 15.

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Energiatõhususe miinimumnõuded. Vabariigi Valitsuse määrus nr 258. Vastu võetud 20.12.2007. Riigi Teataja I 2007, 72, 445.

Mid-term overview of implementation of Energy Efficiency Plan 2007–2013 and further implementation. The second energy efficiency action plan of Estonia. Ministry of Economic Affairs and Communications. [2011].

https://ec.europa.eu/energy/sites/ener/files/documents/2014_necap_en_estonia.pdf

Vahekokkuvõte „Energiasäästu sihtprogrammi 2007-2013“ rakendamisest ja kava edasine elluviimine. Eesti teine energiatõhususe tegevuskava. [2011]

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