



CONCERTED ACTION  
ENERGY PERFORMANCE OF BUILDINGS

# EPBD Key Implementation Decisions in Slovenia

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## NATIONAL WEBSITES

<http://www.energetika-portal.si/podrocja/energetika/energetska-prenova-javnih-stavb/>

## 1. Key Implementation Decisions, KIDs

no	Key Implementation Decisions - General Background	Description / value / response	Comments	Description
1.1	Definition of public buildings (according to article 9 b)	SI: "owned by Slovenia or managed by local municipalities or used by public sector" EPBD: "...new buildings occupied and owned by public authorities are nearly zero-energy buildings..."	National legislation - Energy Law, EZ-1: "Za nove stavbe, ki so v lasti Republike Slovenije ali samoupravnih lokalnih skupnosti in jih uporabljajo osebe javnega sektorja..."	
1.2	Definition of public buildings used by the public (according to article 13)	SI: "are owned or used by public sector" EPBD: "...is occupied by public authorities and frequently visited by the public..."	National legislation - Energy Law, EZ-1: "... so v lasti ali uporabi javnega sektorja..."	
1.3	Number of residential buildings	63,430,000 m <sup>2</sup>	Long-Term Strategy for Mobilising Investments in the ENERGY RENOVATION OF BUILDINGS, 2015	
1.4	Number of non-residential buildings	25,660,000 m <sup>2</sup>	Long-Term Strategy for Mobilising Investments in the ENERGY RENOVATION OF BUILDINGS, 2015	
1.5	If possible, share of public buildings included in the number given in 1.4	9,920,000 m <sup>2</sup>	Long-Term Strategy for Mobilising Investments in the ENERGY RENOVATION OF BUILDINGS, 2015	
1.6	If possible, share of commercial buildings included in the number given in 1.4	15,740,000 m <sup>2</sup>	Long-Term Strategy for Mobilising Investments in the ENERGY RENOVATION OF BUILDINGS, 2015	
1.7	Number of buildings constructed per year (estimate)	5,343	Statistical Office of the Republic of Slovenia, average last 3 years	
1.8	If possible, share of residential buildings constructed per year (estimate, included in the number given in 1.7)	2,148	Statistical Office of the Republic of Slovenia, average last 3 years	

1.9	If possible, share of non-residential buildings constructed per year (estimate, included in the number given in 1.7)	3,195	Statistical Office of the Republic of Slovenia, average last 3 years	
1.10	Useful floor area of buildings constructed per year in million square meters (estimate)	1.2 mio m <sup>2</sup>	Statistical Office of the Republic of Slovenia, average last 3 years	

## 2. KIDs for New Buildings

no	Key Implementation Decision - New Buildings	Description / value / response	Comments	Description
2.1	Requirements for energy performance of residential buildings in current building code	Primary energy $\leq 200 + 1.1 (60 f(0) - 4.4 T(L))$ kWh/(m <sup>2</sup> a); Every km <sup>2</sup> is climatic zone; (T(L) - average yearly temperature, f(0) - shape factor)	Energy performance is a mix of values, calculation rules and text.	
2.2	Requirements for energy performance of non-residential buildings in current building code	Heating need (Q <sub>h,nd</sub> ) non-residential buildings: $Q_{h,nd}/V_e \leq 0.32 (45 + 60 f_0 - 4.4 TL)$ (kWh/(m <sup>3</sup> a)) public buildings: $Q_{h,nd}/V_e \leq 0.29 (45 + 60 f_0 - 4.4 TL)$ (kWh/(m <sup>3</sup> a))	Energy performance is a mix of values, calculation rules and text.	
2.3	Is the performance level of nearby zero energy (NZEB) for new buildings set in national legislation?	Yes.	In “Action Plan for Nearly Zero-Energy Buildings”.	
2.4	Nearly zero energy (NZEB) level for residential buildings (if set)	Primary energy 75 kWh/m <sup>2</sup> (single-family) 80 kWh/m <sup>2</sup> (multi-family) and 50 % RES		
2.5	Nearly zero energy (NZEB) level for non-residential buildings (if set)	55 kWh/m <sup>2</sup> and 50 % RES		
2.6	Are nearly zero energy buildings (NZEB) defined using a carbon or environment indicator	No.		
2.7	Year for nearly zero energy (NZEB) to be implemented for residential buildings	2021		
2.8	Year for nearly zero energy (NZEB) to be implemented for non-residential buildings	2021 and 2019 (public buildings)		

2.9	Is renewable energy a part of the overall or an additional requirement	Yes.		
2.10	Specific comfort criteria for new buildings, provide specific parameters for instance for airtightness, minimum ventilation rates	Yes.	Many comfort indicators. Described in special Technical appendix to the regulations.	

### 3. KIDs for Existing Buildings

no	Key Implementation Decision - Existing Buildings	Description / value / response	Comments	Description
3.1	Is the level of nearly zero energy (NZEB) for existing buildings set in national legislation?	Yes.		
3.2	Is the level of nearly zero energy (NZEB) for existing buildings similar to the levels for new buildings?	Yes.		
3.3	Definition of nearly zero energy (NZEB) for existing residential buildings (if different from new buildings)	Primary energy 95 kWh/m <sup>2</sup> (single-family) 90 kWh/m <sup>2</sup> (multi-family) and 50 % RES		
3.4	Definition of nearly zero energy (NZEB) for existing non-residential buildings (if different from new buildings)	65 kWh/m <sup>2</sup> and 50 % RES		
3.5	Overall minimum requirements in case of major-renovation	Same as for new building.		
3.6	Minimum requirements for individual building parts in case of renovation	Same as for new building. U <sub>wall</sub> = 0.28 W/m <sup>2</sup> K, U <sub>roof</sub> = 0.20 W/m <sup>2</sup> K, U <sub>windows</sub> = 1.30 W/m <sup>2</sup> K ...		

## 4. KIDs for Energy Performance Certificates, EPCs

no	Key Implementation Decision - Energy Performance Certificates	Description / value / response	Comments	Description
4.1	National database for EPCs	Yes.		
4.2	Number of energy performance certificates per year (for instance average of 3 years)	10,000		
4.3	Number of EPCs since start of scheme	40,000		
4.4	Number of assessors	300		
4.5	Basic education requirements for assessors	3-year university with technical studies in major. Then 2 years of experience of EE and RES in buildings.		
4.5	Additional training demands for assessors	One-week training. Written and oral exam.		
4.6	Quality assurance system	Basic QA Yes. In depth QA in development.		

## 5. KIDs for Inspection Systems

no	Key Implementation Decision - Inspection Systems	Description / value / response	Comments (replace text)	Description
5.1	Is there a national database for heating inspections	Not yet.	In development.	
5.2	Is there a national database for cooling inspections / AC	Yes.	At the beginning of operation.	
5.3	Are inspection databases combined with EPC database for registration of EPCs and inspection reports	Not yet.		
5.4	Chosen option A or B for heating systems (inspection or other measures)	A + B		
5.5	Number of heating inspections; reports per year (if option A)	more than 5,000		
5.5	Chosen option A or B for cooling systems (inspection or other measures)	A		
5.6	Number of air-condition / cooling system inspections; reports per year (if option A)	Approx. 10 for first year		





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