



CONCERTED ACTION
ENERGY PERFORMANCE OF BUILDINGS

EPBD Key Implementation Decisions in Sweden

Status in December 2016

AUTHORS

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NATIONAL WEBSITES

www.boverket.se

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)	Fastighetstaxeringslag (1979:1152) http://www.notisum.se/rnp/sls/lag/19791152.htm	Sec 2:2. Definitions of different types of buildings. Ownership not defined in this paragraph. NZEB-regulation applies to all buildings, despite of use or ownership. Definition of public building is not necessary.	NZEB-regulation applies to all buildings despite of use or ownership. Definition of public building is not necessary.
1.2	Definition of public buildings used by the public (according to article 13)	Lag (2006:985) om energideklaration för byggnader. http://www.notisum.se/rnp/sls/lag/20060985.htm	See 13 § referring to 5 §	Regulation according to article 13 applies for premises often visited by the public with heated surface over 250 m ² (see 13 § and 5 § lagen om energideklaration för byggnader).
1.3	Number of residential buildings	Approx. 2,400,000.	Estimated	Total number
1.4	Number of non-residential buildings	Approx. 110,000	Estimated	Total number
1.5	If possible share of public buildings included in the number given in 1.4			
1.6	If possible share of commercial buildings included in the number given in 1.4			
1.7	Number of buildings constructed per year (estimate)	Approx. 5,000 buildings	Estimated	Rough estimate relevant for 2016.

1.8	If possible share of residential buildings constructed per year (estimate, included in the number given in 1.7)	63,000 dwellings approx. 4,000 buildings		
1.9	If possible share of non-residential buildings constructed per year (estimate, included in the number given in 1.7)			
1.10	Useful floor area of buildings constructed per year in million square meters (estimate)	8.8 average.	www.scb.se	

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	Building regulation (BFS 2011:6)		
2.2	Requirements for energy performance of non-residential buildings in current building code	See 2.1 above. Same regulation applies.		
2.3	Is the performance level of nearby zero energy (NZEB) for new buildings set in national legislation?	NZEB-regulation is set. Performance level is planned to come into force 1 st of June 2017 in building regulation.		
2.4	Nearly zero energy (NZEB) level for residential buildings (if set)	NZEB-level is set for all new buildings.		
2.5	Nearly zero energy (NZEB) level for non-residential buildings (if set)	NZEB-level is set for all new buildings.		
2.6	Are nearly zero energy buildings (NZEB) defined using a carbon or environment indicator	Environment indicator		
2.7	Year for nearly zero energy (NZEB) to be implemented for residential buildings	2017		
2.8	Year for nearly zero energy (NZEB) to be implemented for non-residential buildings	2017		
2.9	Is renewable energy a part of the overall or an additional requirement	Taken into account		
2.10	Specific comfort criteria for new buildings, provide specific parameters for instance for airtightness, minimum ventilation rates	Building regulation (BFS 2011:6)	Sec. 6 Building	

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)			
3.4	Definition of nearly zero energy (NZEB) for existing non-residential buildings (if different from new buildings)	No		
3.5	Overall minimum requirements in case of major- renovation	Same as the level of nearly zero buildings		
3.6	Minimum requirements for individual building parts in case of renovation	<p>Tabell 9:92 U_i [W/m²K] U_i [W/m²K] U_{tak} 0.13 $U_{\text{vägg}}$ 0.18 U_{golv} 0.15 $U_{\text{fönster}}$ 1.2 $U_{\text{ytterdörr}}$ 1.2 (BFS 2011:26).</p> <p>Tabell 9:95 Maximala värden på SFP (Specifik fläkteffekt för ett ventilationssystem) respektive SFPv (Specifik fläkteffekt för ett aggregat) SFP, [kW/(m³/s)] SFPv [kW/(m³/s)] Från- och tilluft med värmeåtervinning 2.0 2.0 Från- och tilluft utan värmeåtervinning 1.5 1.5 Frånluft med återvinning 1.0 1.0 Frånluft 0.6 0.6 (BFS 2011:26).</p>		

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)	55,000 EPCs average		
4.3	Number of EPCs since start of scheme	625,000		
4.4	Number of assessors	830		
4.5	Basic education requirements for assessors	Engineers CEX regulation		
4.5	Additional training demands for assessors	5 year practical experience		
4.6	Quality assurance system	Validity checks are performed on every EPC automatically when the expert is actually issuing the EPC. In addition, input data are controlled by software in diverse(automated) ways, for example by climate-correction and validation of administrative information on the building through other national databases. There are also programmed warnings and error messages when input data are out of a certain range. Furthermore, the calculation of energy performance is controlled by software as well.		

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	No		
5.2	Is there a national database for cooling inspections / AC	No		
5.3	Are inspection databases combined with EPC database for registration of EPCs and inspection reports	No		
5.4	Chosen option A or B for heating systems (inspection or other measures)	B		
5.5	Number of heating inspections; reports per year (if option A)			
5.5	Chosen option A or B for heating systems (inspection or other measures)	B		
5.6	Number of air-condition / cooling system inspections; reports per year (if option A)			



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