



Revision of the EPBD

Consideration of ventilation systems – Feasibility study

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Consideration of ventilation before the revision

- Ventilation part of the definition of 'technical building systems' (Article 2(3));
- Energy used for ventilation part of the energy uses to consider in the definition of 'energy performance' (Article 2(4));
- Reference to the need to avoid 'inadequate ventilation' in setting minimum energy performance requirements (Article 4(1));
- 'Large ventilation systems' are part of the systems that must be covered in setting system requirements (Article 8(1));
- 'Natural and mechanical ventilation' is part of the aspects that have to be taken into account in the calculation of energy performance (Annex I, point 3)

What evolves with the revision

- Recommendation published on 21/06/2019:
<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32019H1019>
- Stronger emphasis on indoor air quality
 - Recitals (13, 23 and 27)
 - Long term renovation strategies (Article 2a)
 - Annex I
 - Article 19a – Feasibility study
- Consideration of ventilation in Article 2(3), 2(4), 4(1) and Annex I point 3 is unchanged.

What evolves with the revision

- Ventilation systems (without restrictions) are part of the systems that must be covered in setting system requirements (Article 8(1)) and in ensuring assessment and documentation of system's overall energy performance (Article 8(9));
- Inspection of combined heating / air-conditioning and ventilation systems in the scope of Article 14 and 15;
- In Annex I:
 - Explicit reference to ventilation as part of energy uses that have to be considered in the calculation of energy performance,
 - Energy needs calculated have to include energy needs for ventilation (+ reference to indoor air quality).

What evolves with the revision

- Inspection of combined heating / air-conditioning and ventilation systems in the scope of Article 14 and 15;
- Describes 3 basic categories of systems
 1. Ventilation systems connected to the heating system (e.g. AHU + fan coils or radiators)
 2. Ventilation systems coordinated with heating system (e.g. VRV/VRF + AHU)
 3. Ventilation independent of heating (e.g. local extract)
- Inspection must consider sizing and typical or average operating conditions



Thank you for your attention