

## [<sup>F1</sup>ANNEX VIII

### Potential for efficiency in heating and cooling

#### Textual Amendments

- F1** Substituted by [Commission Delegated Regulation \(EU\) 2019/826 of 4 March 2019 amending Annexes VIII and IX to Directive 2012/27/EU of the European Parliament and of the Council on the contents of comprehensive assessments of the potential for efficient heating and cooling.](#)

#### Part I

### OVERVIEW OF HEATING AND COOLING

1. heating and cooling demand in terms of assessed useful energy<sup>(1)</sup> and quantified final energy consumption in GWh per year<sup>(2)</sup> by sectors:
  - (a) residential;
  - (b) services;
  - (c) industry;
  - (d) any other sector that individually consumes more than 5 % of total national useful heating and cooling demand;
2. identification, or in the case of point 2(a)(i), identification or estimation, of current heating and cooling supply:
  - (a) by technology, in GWh per year<sup>(3)</sup>, within sectors mentioned under point 1 where possible, distinguishing between energy derived from fossil and renewable sources:
    - (i) provided on-site in residential and service sites by:
      - heat only boilers;
      - high-efficiency heat and power cogeneration;
      - heat pumps;
      - other on-site technologies and sources;
    - (ii) provided on-site in non-service and non-residential sites by:
      - heat only boilers;
      - high-efficiency heat and power cogeneration;
      - heat pumps;
      - other on-site technologies and sources;
    - (iii) provided off-site by:
      - high-efficiency heat and power cogeneration;
      - waste heat;
      - other off-site technologies and sources;
  - (b) identification of installations that generate waste heat or cold and their potential heating or cooling supply, in GWh per year:

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- (i) thermal power generation installations that can supply or can be retrofitted to supply waste heat with a total thermal input exceeding 50 MW;
  - (ii) heat and power cogeneration installations using technologies referred to in Part II of Annex I with a total thermal input exceeding 20 MW;
  - (iii) waste incineration plants;
  - (iv) renewable energy installations with a total thermal input exceeding 20 MW other than the installations specified under point 2(b)(i) and (ii) generating heating or cooling using the energy from renewable sources;
  - (v) industrial installations with a total thermal input exceeding 20 MW which can provide waste heat;
- (c) reported share of energy from renewable sources and from waste heat or cold in the final energy consumption of the district heating and cooling<sup>(4)</sup> sector over the past 5 years, in line with Directive (EU) 2018/2001;
3. a map covering the entire national territory identifying (while preserving commercially sensitive information):
- (a) heating and cooling demand areas following from the analysis of point 1, while using consistent criteria for focusing on energy dense areas in municipalities and conurbations;
  - (b) existing heating and cooling supply points identified under point 2(b) and district heating transmission installations;
  - (c) planned heating and cooling supply points of the type described under point 2(b) and district heating transmission installations;
4. a forecast of trends in the demand for heating and cooling to maintain a perspective of the next 30 years in GWh and taking into account in particular projections for the next 10 years, the change in demand in buildings and different sectors of the industry, and the impact of policies and strategies related to the demand management, such as long-term building renovation strategies under Directive (EU) 2018/844;]

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- (1) [<sup>F1</sup>The amount of thermal energy needed to satisfy the heating and cooling demand of end-users.]
- (2) [<sup>F1</sup>The most recent data available should be used.]
- (3) [<sup>F1</sup>The most recent data available should be used.]
- (4) [<sup>F1</sup>The identification of ‘renewable cooling’ shall, after the methodology for calculating the quantity of renewable energy used for cooling and district cooling is established in accordance with Article 35 of Directive (EU) 2018/2001, be carried out in accordance with that Directive. Until then it shall be carried out according to an appropriate national methodology.]

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