

Task Force on Techno-Economic Issues

"Code of good practice for solid-fuel burning and small combustion installations based on BAT)"

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TFTEI Annual Meeting 2019, Ottawa, Ontario, Canada, October 22-23, 2019

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### Workplan 2018-2019



Following the recommendations of the Policy Review Group (PRG) of the Convention

Item 2.3.8 -

**Description** - Integration of additional measures in the TFTEI Clearing House for Control Technologies, and

development of a code of good practice for solid-fuel burning and small combustion installations based on BAT

#### **Deliverables**

Update of the TFTEI database; draft code of good practice for solid-fuel burning and small combustion installations based on BAT

To be submitted to WGSR\_57 in May 2019



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#### Main Objectives

Provide all the Parties of the Convention with a reference guidance document, useful to further develop informative material, at national level.

Provide a guidance based upon good practice, with practical information aimed at improving the efficiency of combustion of wood in small combustion installations, for domestic heating.

Ultimately, reduce PM, BC, PAH, B(a)P and other combustion pollutant emissions and related impact on environment and human health. As effect of the improved efficiency, the reduced BC emissions result in co-benefits on Climate Change.



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### **Code of good practice for solid-fuel burning and small combustion installations based on BAT**



#### Development of the Code

The drafting of the code started, at the beginning of 2018, on the basis of existing guidance documents developed by the Regional Environment Protection Authorities of some Italian Northern Regions, re-elaborated by ENEA (Italy) experts. Attention focused on the small combustion installations, with power not larger than 100 kW.

The first version of the code was delivered in June 2018 to the experts of the Task Force and experts from a number of Parties (Austria, Belarus, Belgium, Canada, France, Germany, Poland, Sweden, Switzerland, US), including experts from NGO and Industrial Associations.



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#### Development of the Code (cont'd)

The code and the comments received from the experts were discussed at the 4th Annual Meeting of the Task Force, held in Brussels, in October 2018, where the experts decided, in particular:

- Focus the subject of the code on woody biomass, only.
- Address the code to the Parties of the Convention, as a reference document to further develop informative material, at national level.
- Focus on "best practice and recommendations" and on "best available technologies"
- Deliver the code as Official Document (available in the three languages some editorial constraints).



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# Code of good practice for solid-fuel burning and small combustion installations based on BAT



#### Development of the Code (cont'd)

Following the 4<sup>th</sup> Annual Meeting of the Task Force, a second review took place between October 2018 and February 2019 (final submission to the UN Secretariat).

#### Criteria for the review:

- Comprehensive, correct and practical information.
- Use of simplified language, to the extent possible.
- Elimination of redundant information (total length < 10,000 words).
- Avoiding policy considerations.
- Information of potential interest for all the Parties.

The final version of the code was agreed at WGSR\_57 and it expected to be definitely adopted by EB in Dec 2019.



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#### What you find in the document

- Preface
- Subject matter and scope
- Definitions
- Overview of existing guidance documents in several countries
- Key information and considerations
- · Good practices for domestic wood heating

Recommendations on: plant choice, fuel choice, fuel loading, firing, combustion, maintenance

- Paragraph dedicated to the EECCA countries
- Section on "Best Available Techniques in SCI"
- Conclusions and further recommendations



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# **Code of good practice for solid-fuel burning and small combustion installations based on BAT**



#### **Examples of recommendations:**

About wood and lighting

- Use only clean and untreated wood.
- Burn dry seasoned wood. Wood burns best with a moisture content of 15–20 per cent.
- Non-commercial wood, collected by end-users, should be split into logs, stacked and covered and left to dry.
- Buy preferably pellets that are certified.
- Light the fire from above .... Use dry kindling (dry sticks) or natural firelighters ..... to start the fire at the top.
- Avoid using newspaper for lighting the fire.
- Follow the manufacturer's instructions.



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#### **Examples of recommendations:**

#### About the installation:

- Choose a heating installation that is using best available techniques to reduce emissions and increase efficiency.
- Choose a heating installation that matches the size of the space to be heated.
- Choose a heating installation that is certified or provided with an energy label of high energy efficiency or an ecolabel,
- Use licensed/qualified technicians for the installation of the heating device.



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### Code of good practice for solid-fuel burning and small combustion installations based on BAT



#### **Conclusions**

The Code of Good Practice is thought to have the largest applicability within the geographical scope of the Convention.

Parties may use the code as a reference to further develop Illustrative material at national level.

The implementation of the Code of Good Practice, on voluntary basis, has the potential to produce significant emission reductions from the sector.

Many of the recommendations proposed in the code are at low cost or even costless and easy to use.



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### **Task Force on Techno-Economic Issues**



You are welcome to visit the TFTEI Official web site:

http://tftei.citepa.org/en/ (English Language)

### Thank you for your attention!



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