



## Task Force on Techno-Economic Issues

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

*Co-Chairs:*

*Jean-Guy Bartaire (France) and Tiziano PIGNATELLI (Italy)*

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TFTEI 4<sup>th</sup> Annual Meeting – Brussels, October 15-17, 2018

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## Workplan 2018-2019



Following the recommendations of the Policy Review Group (PRG) of the LRTAP 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***

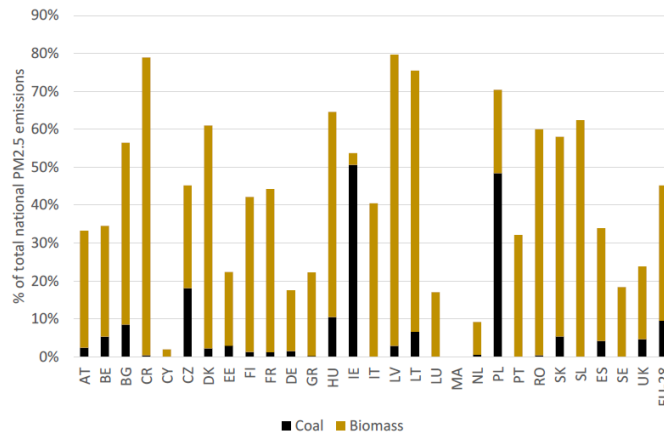
***To be discussed at WGSR\_57 in May 2019***

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## Why emission reductions from small combustion installations in the residential sector, are important ?



*Contribution of Household Heating to PM<sub>2.5</sub> total emissions in EU (Report by IIASA, february 2018)*

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## Two complementary approaches to the emission reduction in domestic heating



*Measures to address air pollution from small combustion sources (Report IIASA – february 2018)*

### *Technology*

“End-of-pipe technologies, i.e. electrostatic precipitators, might be foreseen for existing facilities, however, shorter intervals for maintenance and regular checks for appropriate fuel have to be considered “

### *Good practice*

“Additionally, emissions can be reduced by changing the way wood is ignited, i.e., starting the fire on the top of the fuel stack; awareness campaigns could help to disseminate information about such practice. “

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



### *Main Objectives*

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

Reduce PM, BC, PAH, B(a)P and other combustion pollutant emissions (POPs, HM) and related impact on environment and human health.

As effect of the improved efficiency, the reduced BC emissions have benefits also 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*

Initially, the drafting of the code has started 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 is focused on the small combustion installations, with power **not larger than 100 kW**. Draft presented at WGSR\_56.

The further development of the code will take place through integration of contributions both from the experts of the Task Force and the experts of the whole Convention who have expressed the will to contribute (Belgium, Poland, Sweden, Switzerland, Ireland, US, Canada).

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



### *What you can find in the document*

- Preface
- Scope of the document
- Definitions
- Survey of existing guidance documents in some Countries
- Solid fuel burning and air pollution
- Solid fuel burning and climate change
- ***Recommendations on : plant choice, fuel choice, fuel loading, firing, combustion, maintenance***
- Special section dedicated to the EECCA countries (tentatively)
- Section on “Best Available Techniques in SCI “
- Conclusions

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



### *Status of the work*

As result of the discussion taking place with all the experts and advices from WGSR members, the first draft version has been circulated among the experts before the summer

*Contributions - Integrations received by AT, BE, CA, PL, SE, CH, US.*

Discussion at Tech Session (October 15) on the draft code

New version delivered to the experts by December 2018

Finalization of the text by the 1<sup>st</sup> week of March, 2019 (official document) or by May 2019 (unofficial document)

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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.

The implementation of the Code of Good Practice is expected to result in significant emission reductions from the sector.

Many of the recommendations proposed in the code are behavioural measures, at low cost or even costless.

The implementation of the code in EECCA countries may contribute to the signing/ratification of the GP.

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You are welcome to visit the TFTEI Official web site:

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

<http://tftei.citepa.org/ru/> (Russian Language)

Thank you for your attention !

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