




BEST

Bioenergy and
Sustainable Technologies



 Bundesministerium
Digitalisierung und
Wirtschaftsstandort

 Bundesministerium
Klimaschutz, Umwelt,
Energie, Mobilität,
Innovation und Technologie



 Für die
Stadt Wien



Raising awareness and changing behaviour with the traveling combustion education - The CleanAir II project

IEA Bioenergy Conference 2021

Manuel Schwabl

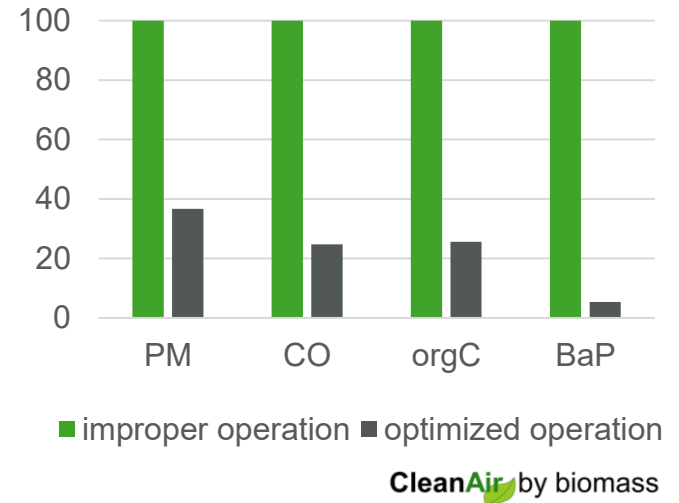


clean air & ***sustainable energy***

Raising awareness – users are the key

User operation

- Learned operation with solely feedback of visible flames
- Do they really read user manuals?
- connection to air quality via their neighbours
- incredible impact



Raising awareness – changing behaviour



CleanAir II - Trailer

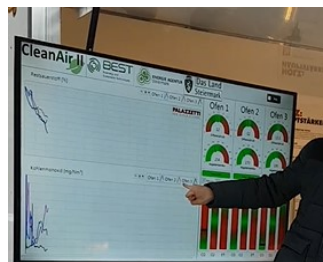
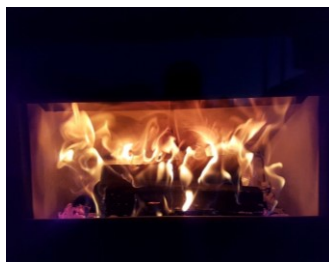


Data visualisation

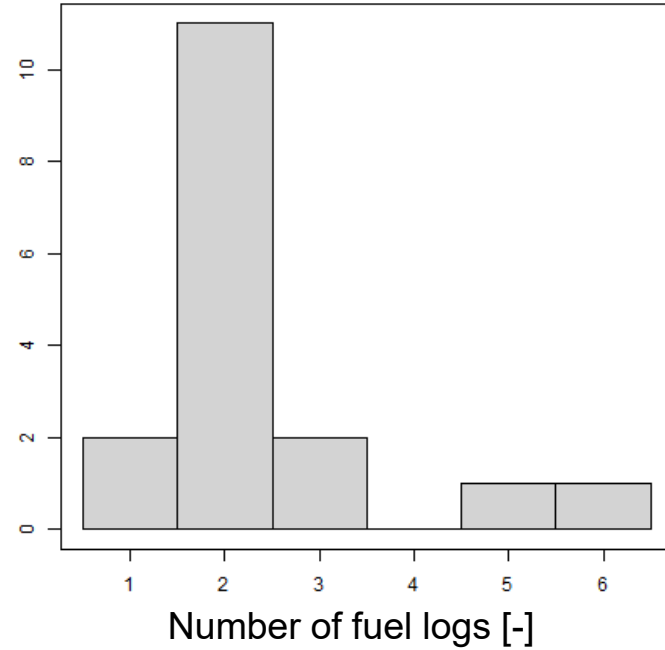
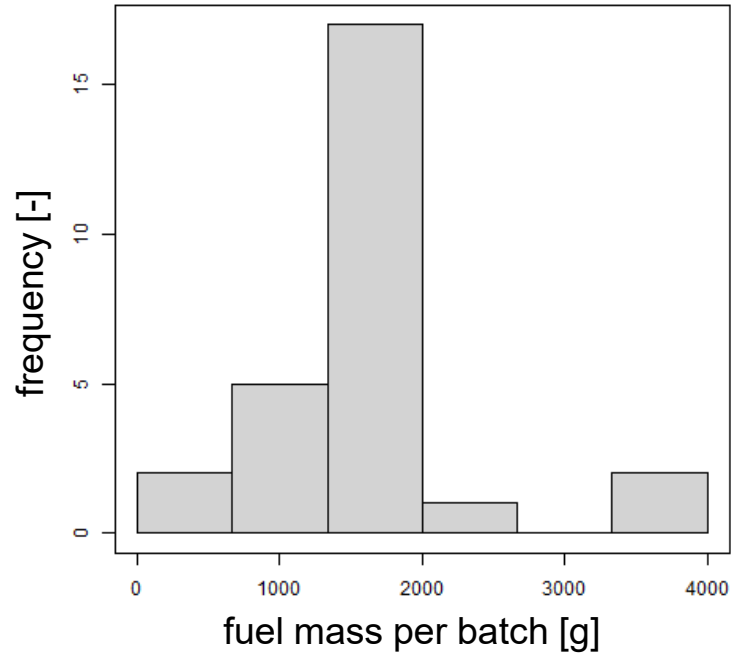
Pressure and
temperature sensors

Gas analyser
(CO & O₂)

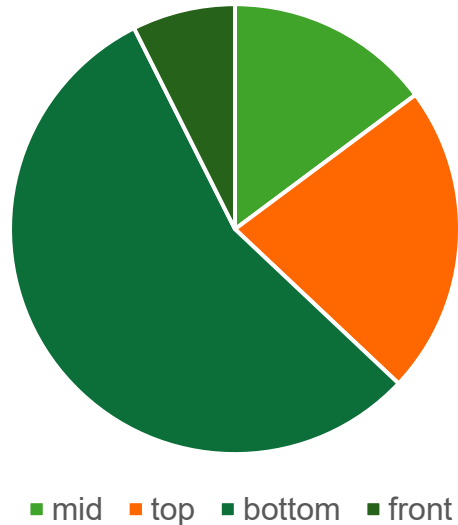
CleanAir II - Trailer



Heating behaviour – ignition mode



Heating behaviour - Ignition mode

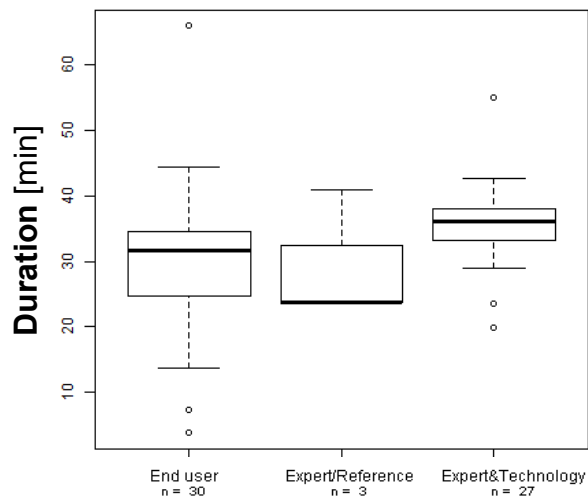


- Mostly with news papers or cardboard
- Majority learned the method from parents

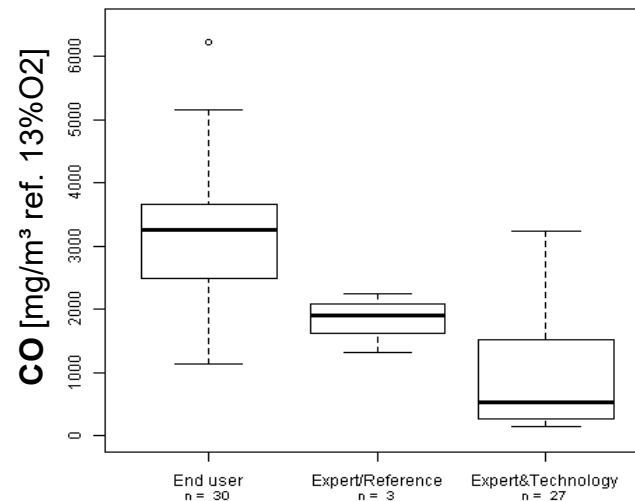


Impact

Batch duration



Emission Impact



Feedback from workshop participants

„...completely new method to ignite a stove...“
„... burns faster and releases less soot ...“
„... igniting is easier and with less effort...“

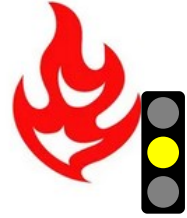
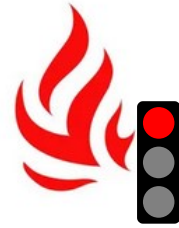
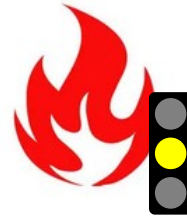


„I learned how to ignite a stove...“
„ ...more smokefree and clean ...“
„... less soot on the window...“

https://www.youtube.com/watch?v=iwgf_WFx650

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Area 1 – Fixed Bed Conversion



Manuel Schwabl

manuel.schwabl@best-research.eu

Elisabeth Wopienka

elisabeth.wopienka@best-research.eu