

## CleanSmoke is scientifically confirmed real smoke

- CleanSmoke is smoke, because it is based on the pyrolysis of biomasses.
- In conventional smoking processes, smoke and dust particles are generated by combustion processes, such as frictional heat. The particles are transported in the air and settle on the smoking material.
- With CleanSmoke, the smoke is also generated by combustion, but is then processed in a liquid phase. Afterwards, everything is converted back into smoke particles and also applied to the smoked material.
- It is a smoking process with an intermediate step, which serves to purify the smoke. Critical components have been removed.
- Whether the smoke is applied directly through the air, as in the conventional process, or whether an intermediate step is inserted with the cleaning of the smoke, is irrelevant for the formation of the particles or the aroma. Therefore, the processes are comparable.
- CleanSmoke is cleaner as it is less polluting for the entire environment.

## How to contact us:

CleanSmoke Coalition  
Avenue de la Renaissance 1  
1000 Brussels  
Belgium

Phone: +32 (0)2739 6262  
Email: [info@clean-smoke-coalition.eu](mailto:info@clean-smoke-coalition.eu)  
Visit us online and become a member:

[www.clean-smoke-coalition.eu](http://www.clean-smoke-coalition.eu) or  
[www.cleansmoke.eu](http://www.cleansmoke.eu)

## CleanSmoke Coalition stands for innovative smoking processes

CleanSmoke is a huge step ahead of conventional smoking. With this innovative smoking process not only safe and healthy products can be produced, but at the same time the environment can be relieved and the working conditions in the smokehouses can be improved. Especially for small and medium-sized enterprises (SMEs), smoking will only become sustainable in this way. The smoking result is also comparable with conventional smoked specialties without compromises.

### Sustainable and economical

Manufacturers of CleanSmoke, food producers and retailers, manufacturers of modern smoking systems, research institutes, industry associations and NGOs want to work together to make smoking future-proof. At the same time, smoking, which is highly valued by consumers, is brought into line with current demands for sustainable development and healthy nutrition. The members of the CleanSmoke Coalition see themselves as partners of the industry throughout Europe and want to pave the way for CleanSmoke at EU level.

### CleanSmoke is real smoke and organic

Above all, the CleanSmoke Coalition calls for the unmistakable recognition of CleanSmoke as smoke throughout Europe, so that this process can be used without reservations. Scientists have long since confirmed that smoke produced from primary smoke products is not a smoke aroma but smoke - with the same taste but without harmful substances. Since CleanSmoke promises added value to organic food suppliers in particular, the CleanSmoke Coalition believes it is only logical to include sustainable smoking in the EC Eco-Regulation.

**Every innovation has its time. The time has come for CleanSmoke.**

### CleanSmoke Seal

With CleanSmoke, food can be smoked in a more sustainable, environmentally friendly, resource-saving way and free of harmful additives such as ash, tar and polycyclic aromatic hydrocarbons (PAHs). To ensure that consumers can benefit from CleanSmoke products in the future, the CleanSmoke Coalition has developed the CleanSmoke Seal, which is awarded to sustainable and safe smoked products.

# Clean Smoke. Clean Taste.

The CleanSmoke Coalition makes smoking future-proof

CleanSmoke Process - Advantages of CleanSmoke - CleanSmoke is smoke - CleanSmoke Coalition



CleanSmoke  
Coalition

# CleanSmoke – the best part of smoke

## A high-quality by-product

CleanSmoke is obtained in the forests of North America. The wood processing industry here yields an abundant supply of shavings from hardwood trees. This means that not a single tree is cut or transported for the generation of the smoke itself.

## Smoke under control

The untreated saw shavings from hickory, maple and oak trees are left to smoulder under controlled conditions. The patented process avoids the risk of explosion and protects the environment thanks to optimum exhaust air purification.

## Captured in drinking water

Next, the smoke is directed into a condenser and sprayed with drinking water to capture it.

## Hazardous substances are filtered out

In the course of multiple filter processes, the smoke is purified of ash, tar and carcinogenic Polycyclic Aromatic Hydrocarbons (PAHs). Ash and charcoal are collected – the tar sinks down to the bottom.

## The best part of smoke

At the end, even the smallest particulates are suspended in the filter. What is left is smoke captured in drinking water, which contains everything your smoked ham needs.

## Sustainable processing of the smoke's contaminants

During conventional smoking, 16 % of tar and 32 % of ash end up on a sausage or ham. With the CleanSmoke method, instead, these contaminants are further processed for electricity generation of energy.

## Compressed air brings smoke to life

The stable smoke is blown into the smokers through tubes and consequently remains in an environmentally friendly closed circuit that significantly reduces CO<sub>2</sub> emissions.

## CleanSmoke comes in liquid form

By specialists, the condensate is referred to as a pre-purified primary smoke product. The reason is that with the addition of compressed air, it is possible to reproduce real smoke – with all of its useful properties, and in particular with that authentic smoky taste.

## Less is more – Protecting resources

CleanSmoke protects resources – using less wood, less water and less energy creates more sustainable smoking.

## Protection of Ressources

- No trees specially cut
- Much less water
- Less energy consumption

## Safe Work Environment

- Explosion and fire are excluded
- Purified smoke is of no hazard to aspiration organs
- No contact with strong cleaning materials

## More healthy Food

- Non-contaminated food
- No ash
- No tar
- No PAHs
- Precise smoking for safe shelf life
- European Union strongly supports use of primary smoke condensates (EU Regulation 2065/2003)

## Clean Air

- World Climate Conference demands: lower the CO<sub>2</sub> - emissions
- 83 % less CO<sub>2</sub> compared to combustion smoke
- 60 % less CO<sub>2</sub> compared to friction smoke
- No emissions such as nitrogen oxides (NOx) and carbon monoxide (CO) are released
- No particulate matter emission

## Economic Success

- More economic compared to all other methods
- More valuable brands due to sustainable acting
- Innovative product ideas by creative new smoking methods

## Sustainable Future

- Sustainability is questioned by the consumers
- Processors and retailers fulfill plausibly their sustainability targets by using the CleanSmoke method



## Related to the market of smoked food the CleanSmoke technology has the potential of reducing:

- Up to 90 percent water consumption
- 50 percent energy consumption
- 50 percent wood consumption
- 30 percent greenhouse gas emissions
- Up to 80 percent chemicals consumption