



***Standard Fasel***

*Worldwide Energy Services*

## **ENERGY TRANSITION**

**Electrification**

**Sustainability**

**Innovations**

**Standard Fasel**

Worldwide Energy Services

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# Energy Transition

## Our mission

### Your company uses steam and energy...

One of the main challenges in the energy transition is making industry more sustainable. Industrial processes powered by fossil fuels account for a large percentage of the emissions of greenhouse gases and other pollutants. So these processes need to be designed for maximum energy efficiency. This will keep the use of fossil fuels to a minimum. Subsequent electrification and/or the use of alternative fuels will eventually eliminate the dependence on fossil fuels altogether.

Standard Fasel is a leader in sustainable innovation in steam technology. We already have long-standing experience in making traditional systems more sustainable, in electrification, alternative fuels and various hybrid forms. So we feel that we are the ideal strategic partner to guide you through the energy transition. To ensure that you never have to shoulder the burden alone.

### Energy scan

During an energy scan, we map out how emissions reduction can simultaneously increase the efficiency of your steam system. We calculate the effect of different optimisations to give you a complete picture of the possible return on investment. Would you like to know whether you are getting the most out of your steam system? Contact us to arrange an advisory meeting!

### Your systems efficiency

The easiest step is often as simple as improving the efficiency of your existing steam system. You can save a great deal of energy by increasing the efficiency of your system. Less energy consumption means reduced emissions and lower costs. You can improve the efficiency of your steam system by using blowdown water heat recovery, for example, or by fitting an economiser, flue gas condenser or an air preheater. Many of these applications are also very attractive financially as they reduce costs.

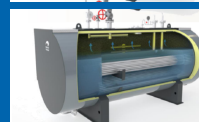
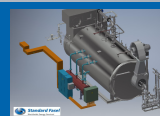
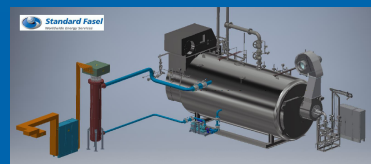
### Electrification

Electrification involves using electricity to (partly) replace natural gas in industrial processes. Electrification of the process industry is a transition path with high potential and several technical options are possible. Many of these options still need further innovation before they can be deployed efficiently and on a large scale. However, one option that may already be of interest is the industrial e-boiler. This electric boiler is integrated into an existing, gas-fired system.

Standard Fasel also provides in an ultimate hybrid electrical solution which can be integrated in your existing boiler installation. Our ultimate hybrid can be placed in both horizontal and vertical solutions which suits your optimal plot size. These installations allows users to adapt fully to the available energy peaks to produce heat or steam to the lowest OPEX costs. The hybrid solution can be placed in any position within your heating- or steam energy chain. This provides in the best solution at the moment with the same installation.

Solutions that we can provide:

- Add-on Hybrid Electrical elements (with natural circulation) 400/690 VAC  
Modular ranging from 100 kW to 2MW
- Add-on Hybrid Electrical elements (with forced circulation) 400/690 VAC  
Modular ranging from 100 kW to 2MW
- Separate electrical heaters (400/690 VAC)
- Electrical resistance heat boilers (400/690VAC) from 500 kg/hr and up.
- Electrode boilers (typical 10 kV) ranging from 2MW to 40 MW.



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