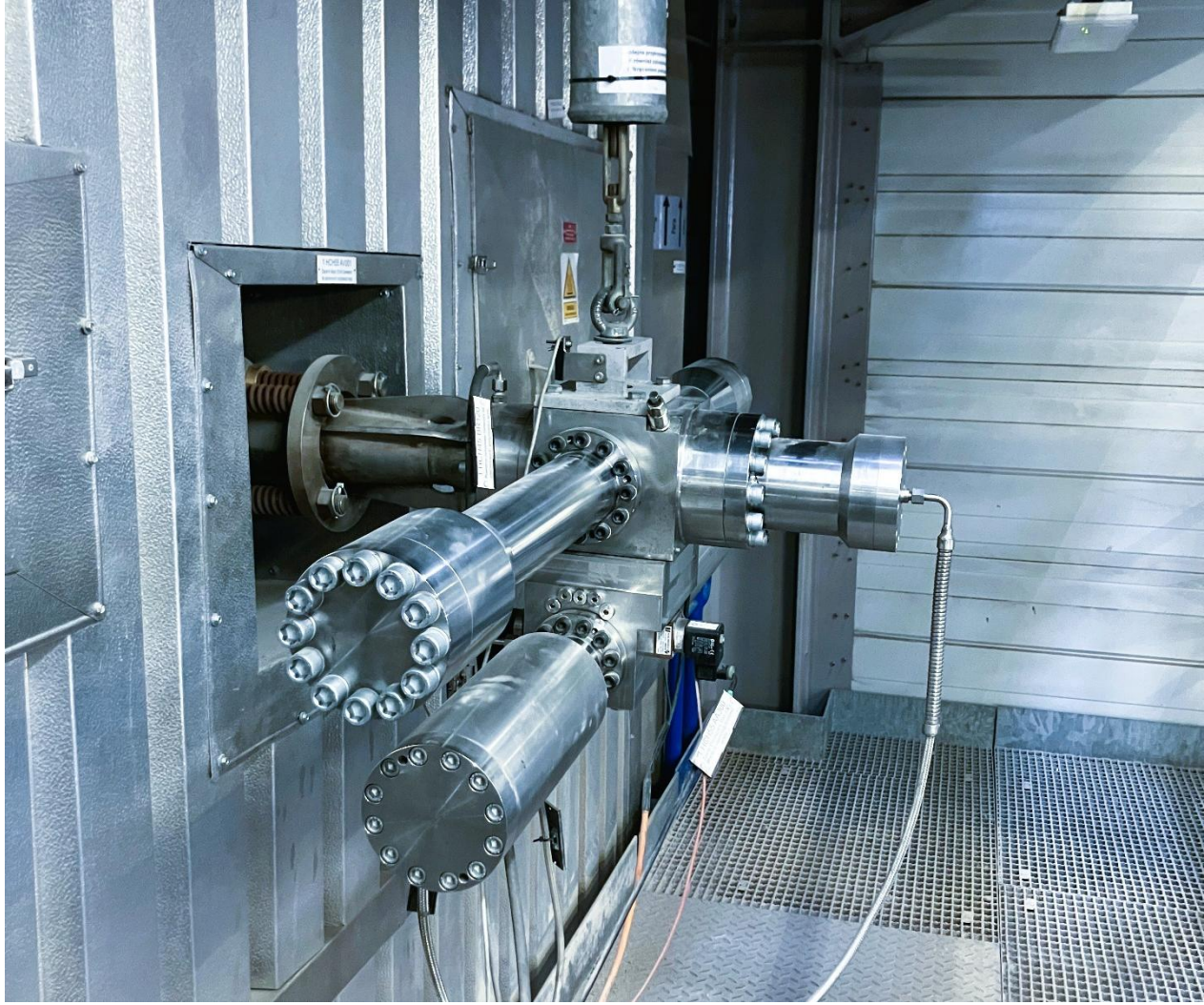
EXPLOSION POWER
Experience you can rely on

WtE – Poznań, Poland

Maximum efficiency. No manual intervention.

ITPOK is the only municipal waste incineration plant in Poland implemented under a public-private partnership agreement, between the City of Poznań and PreZero Zielona Energia sp. z o.o. It is one of the most important environmental measures undertaken in connection with the implementation of a modern waste management system in the Poznań agglomeration.

Since initial commissioning, the plants boiler cleaning is done with SPGs only (10 devices in total). Consistent 1 year operation periods are achieved, no manual cleanings are required.



ITPOK / PreZero
Poznań
Poland

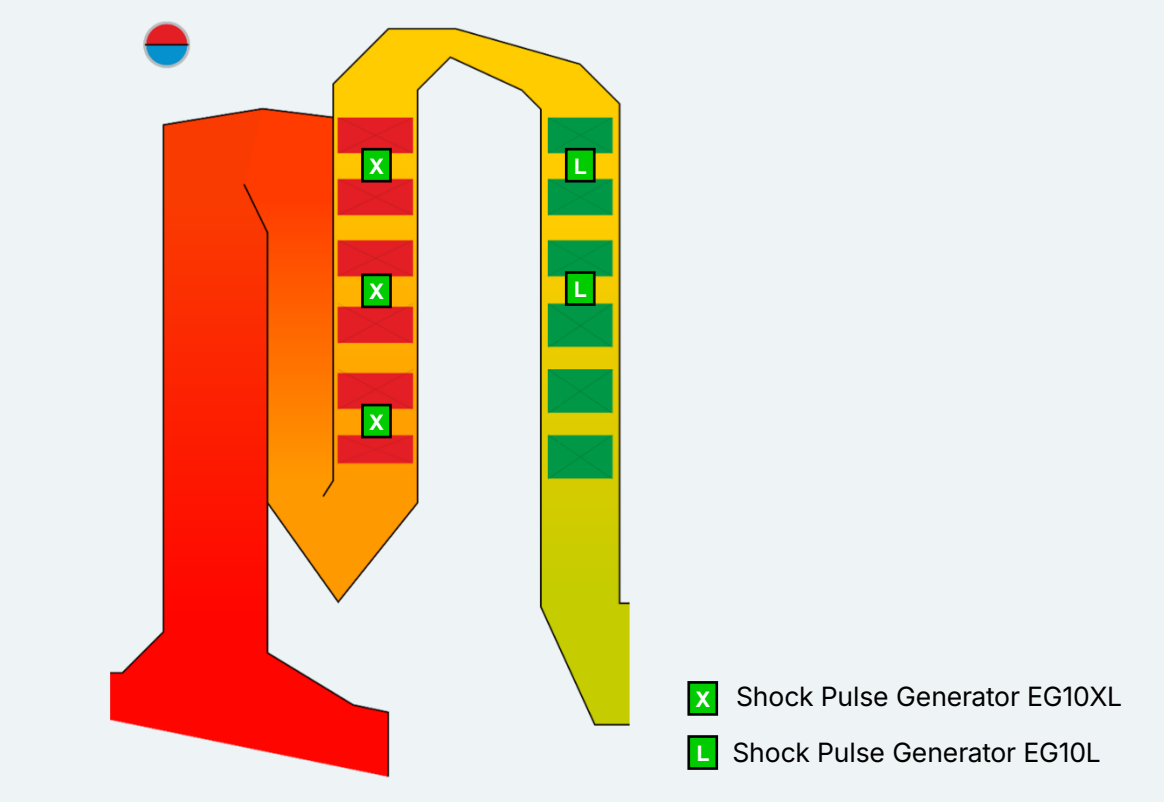
Type of power plant	Boiler width	Steam capacity [t/h]	Cleaning areas
Waste-to-Energy	**5,5 m**	**2x 38**	– **Superheater** – **Economizer**

Added Value in Practice

- Boiler cleaning with only SPGs since initial commissioning
- Consistent 1 year operation periods, no manual cleanings
- SH Flue gas pressure drop kept below 1.5 mbar
- ECO flue gas exit temperature kept below 170 °C

Boiler Data and Information on Shock Pulse Generators

- New plant supply
- 2 Lines à 31.5 MW thermal
- Fuel: Municipal Solid Waste
- Live steam: 38 t/h with 61.5 bar, 422°C
- In total 10 SPG
- Each line with
  3x EG10XL for Super heater cleaning and
  2x EG10L for Economizer cleaning



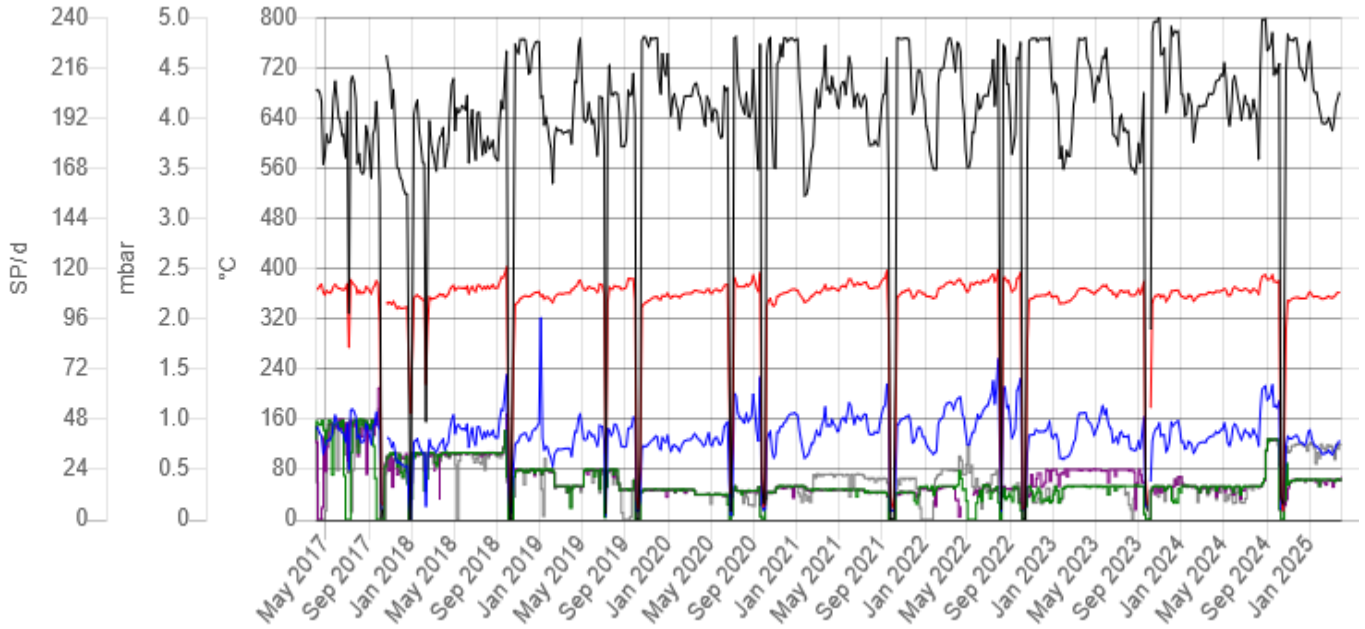
Plant Supplier	SPG Supplier	SPG Initial Delivery
Hitachi Zosen Inova	Explosion Power	2016

Insights

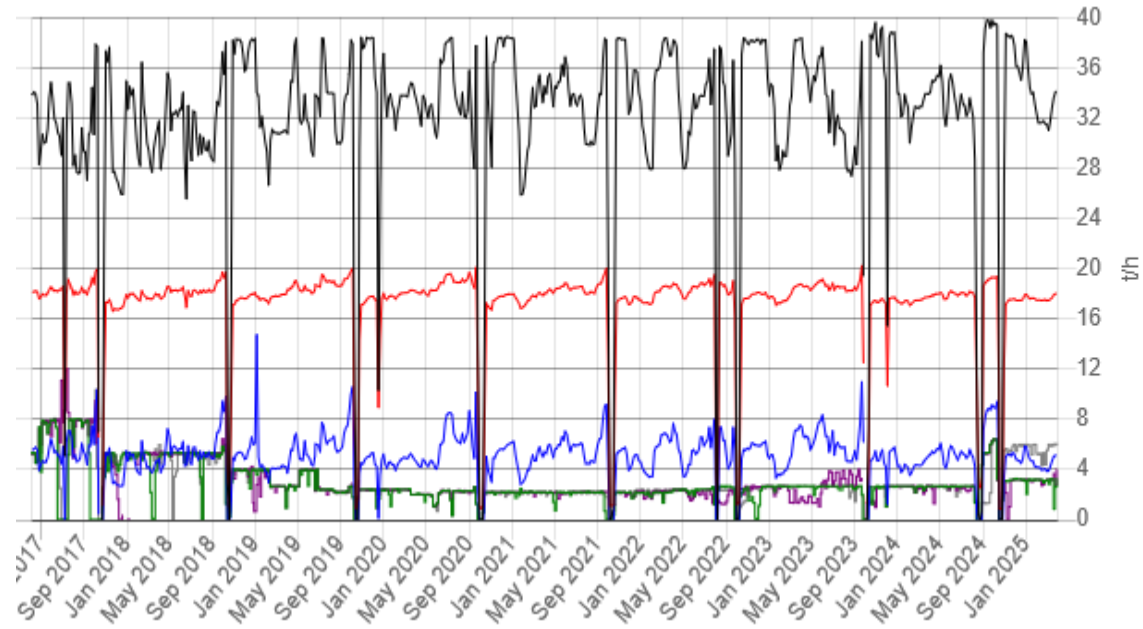
Superheater Cleaning

- Cleaning with only SPGs since initial commissioning
- Consistent 1 year operation periods
- No manual cleanings required
- Super Heater Flue gas pressure drop kept below 1.5 mbar
- Super Heater Flue gas exit temperature kept below 400 °C

Line 1



Line 2



Live steam [t/h]
Flue gas temperature after Super Heaters SH [°C]
SH Flue gas pressure drop [mbar]
Upper SH SPG operation [Shock pulses/day]
Center SH SPG operation [Shock pulses/day]
Lower SH SPG operation [Shock pulses/day]

Economizer Cleaning

- Cleaning with only SPGs since initial commissioning
- Consistent 1 year operation periods
- No manual cleanings required
- ECO Flue gas pressure drop kept below 2.5 mbar
- ECO Flue gas exit temperature kept below 170 °C

Line 1

Line 2