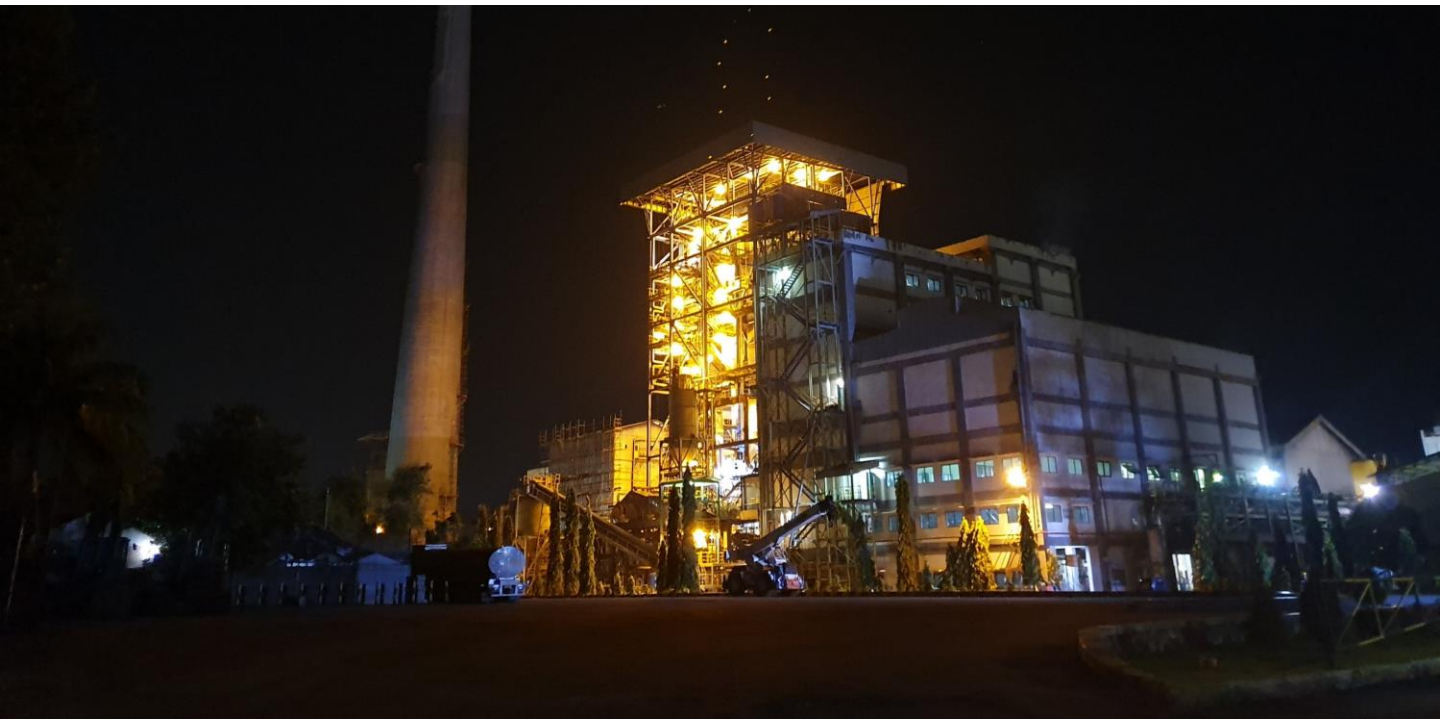


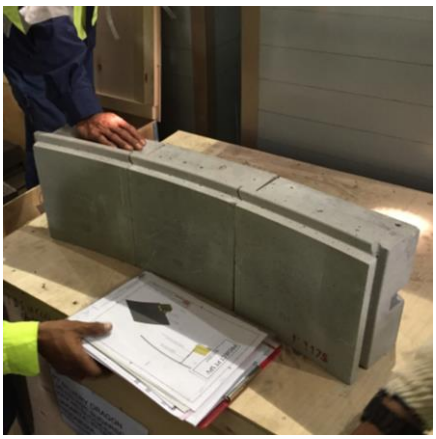
# Indonesian Power Plant achieves +1.5 years lifetime in Cyclone target zone

A power plant in Indonesia had problems with refractory lifetime in the CFB boiler cyclone target zones. The boiler has a 130t steam/hour capacity, providing 20.5MW power. It operates on sludge, wood chips and coal.

In both cyclones the lining lifetime was <1 year, mainly due to extreme erosion caused by the sand used as bed material and corrosion from alkalis. Also, coating covered most areas in the cyclones.

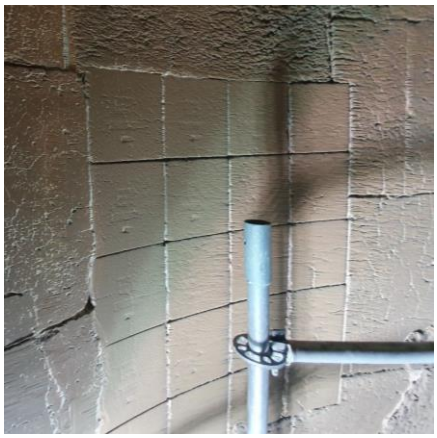
In 2017, we designed a curved version of HASLE's Modular Lining for the power plant's cyclone target zones. Cast and pre-fired at our plant in Denmark, the cylindrical precast Modular Lining was installed in the target zones of the two cyclones.

After 1.5 years, the elements have not only survived the harsh condition at the target zone but are still in almost perfect condition. Also, there was so little coating that our HASLE logo was still clearly visible on the elements. Pleased with the results, the power plant installed another 15m2 of cylindrical precast at the target zone in cyclone no. 2 and at the bullnose in March 2019. This year, an extension is to be installed in cyclone no. 1.



**Curved Modular Lining elements**

**Modular Lining at installation**



**Modular Lining after 1.5 years**