

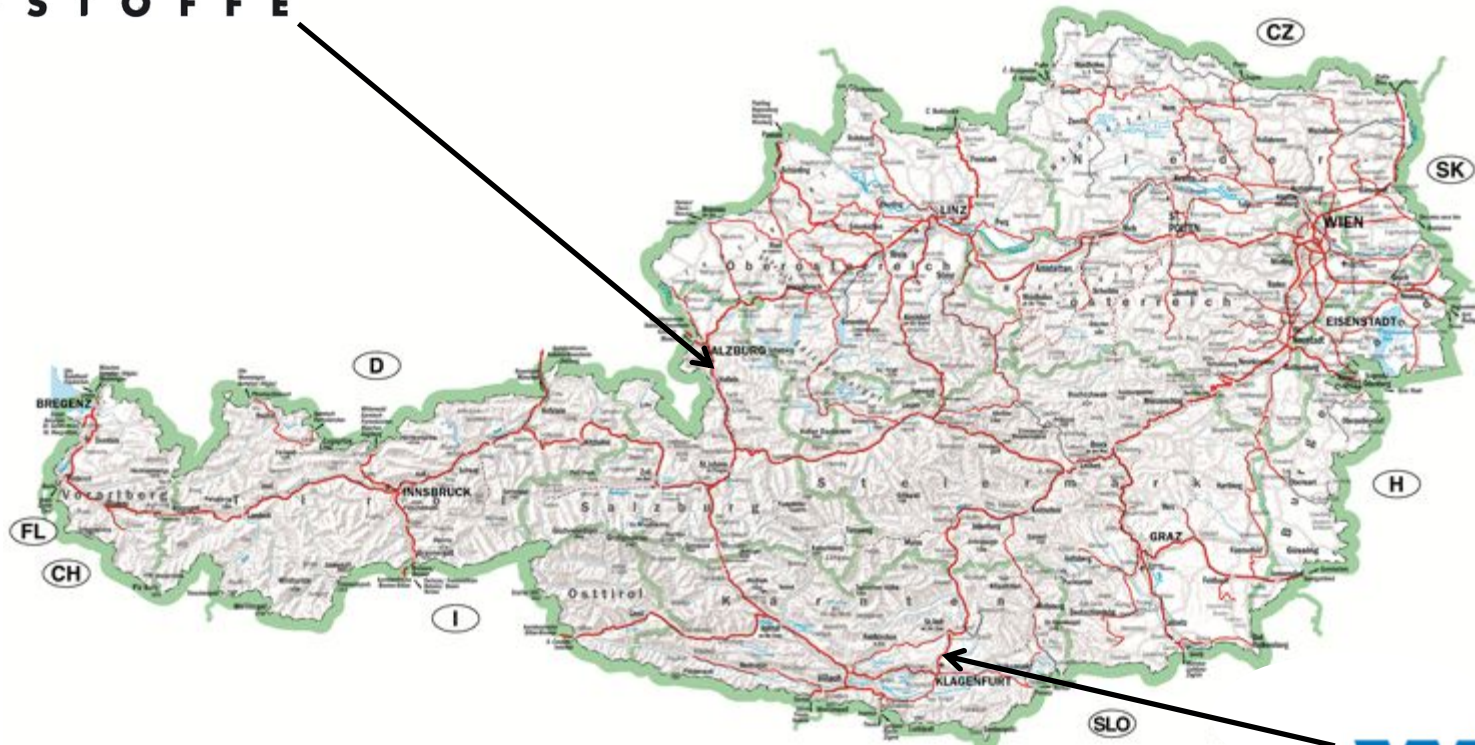
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Location



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Modernization



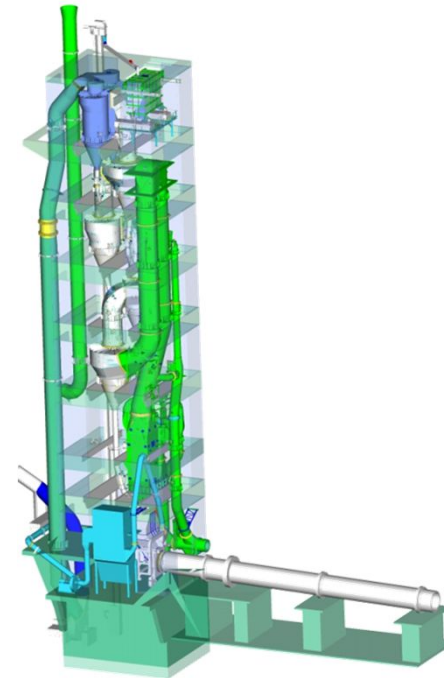
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- **ORIGINAL SITUATION**

- Operation with two kiln lines
- Both kilns without tertiary air duct, both kilns four stage Preheater
- Limited in alternative fuel usage & both kilns are more than 40 years in operation

- **TARGETS OF THE PROJECT**

- Usage of 80 % alternative fuels (AF)
- Improvement of Clinker quality
- Reduction of dust emissions, NO_x and SO₂
- Flexibility of product arrangement
- Reduction of energy consumption
- Modernization without long stops
- Arrangements for CO₂ reductions
- Best economic solution



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Basic Data



KILN SYSTEM

A TEC 5 stage preheater with combustion chamber
KHD rotary kiln 3,6 m x 45,5 m (original 50 m)
Cem Pro Tec grate cooler

CLINKER CAPACITY

1800 tpd nominal (2200 tpd maximal)

FUEL FEEDING POINTS & FUELS

to kiln

fine coal, heavy oil,

AF for kiln (FLUFF - plastics 2d < 50 mm, 3d < 5 mm ...)

to combustion chamber

AF for calciner (plastics 2d < 150 mm, 3d < 25 mm ...)

design 10 t/h, 100 m³/h, fine coal

to mixing chamber AF (tyre chips)

AF USAGE

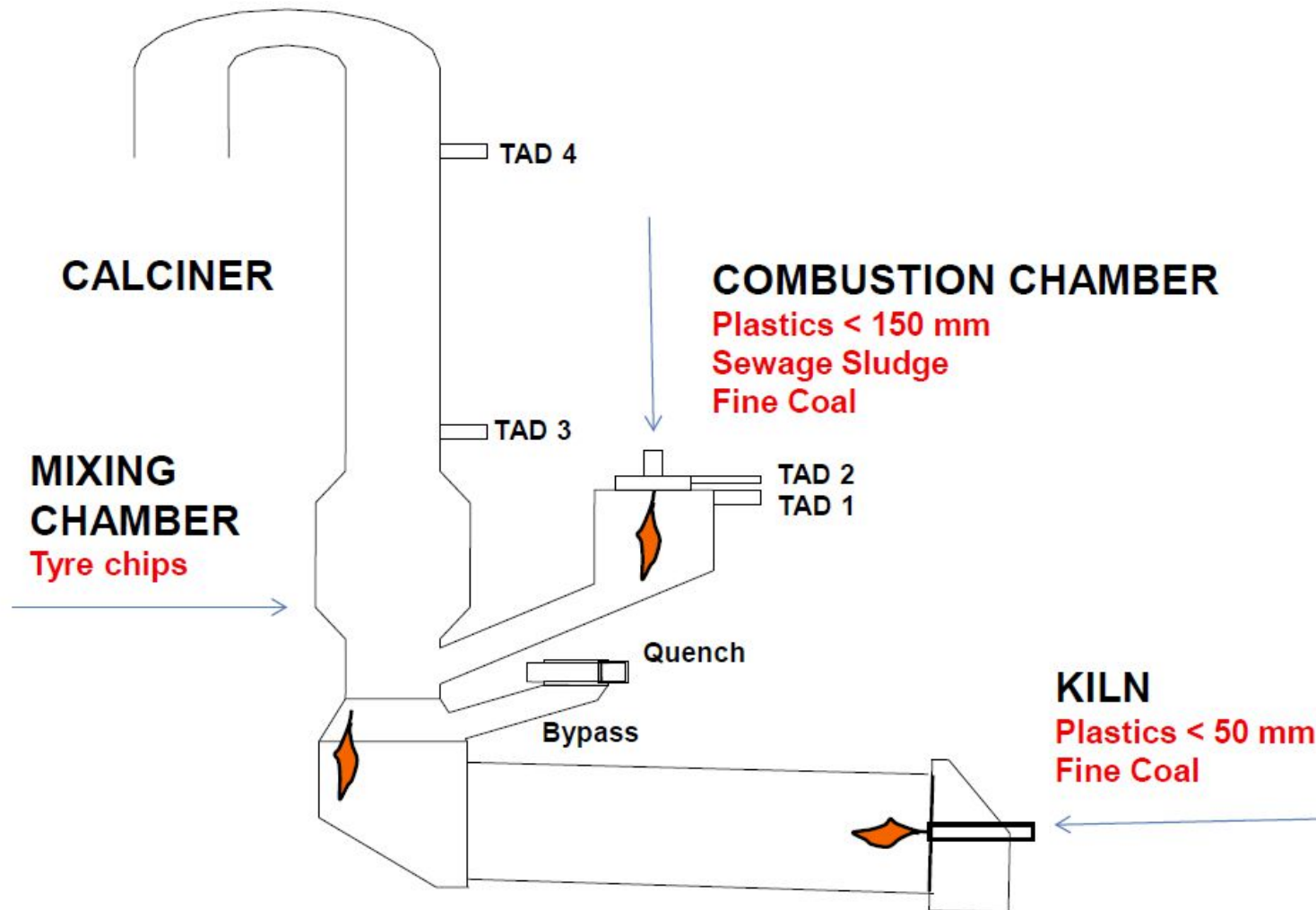
> 60% of heat

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A TEC Solution Fuel Feeding



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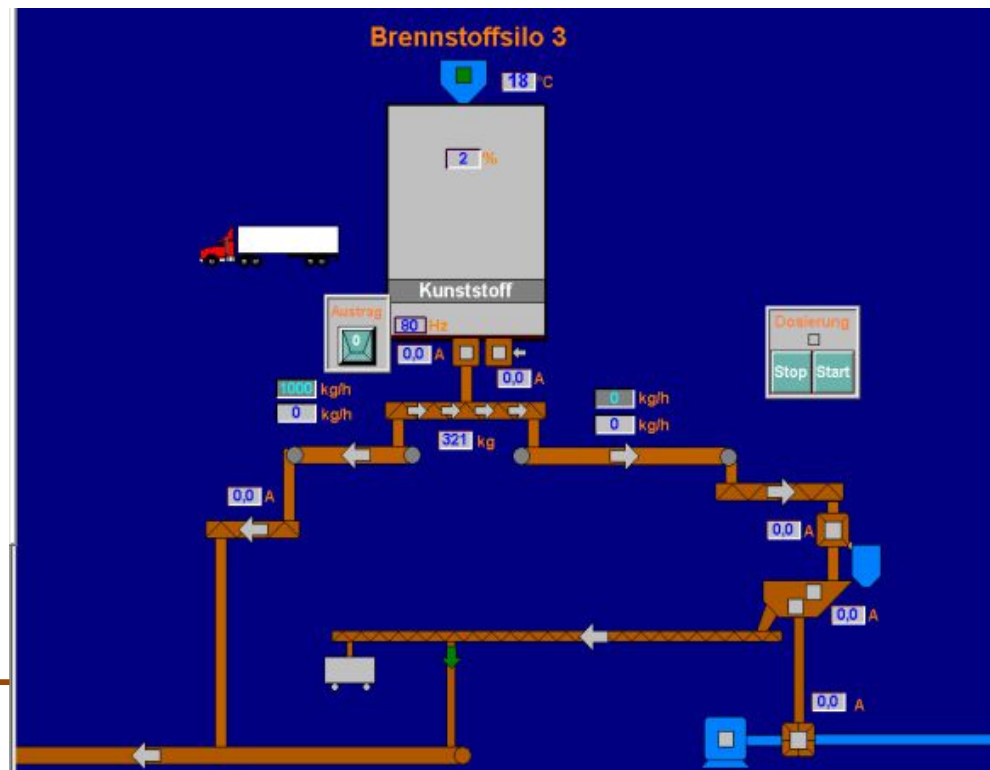
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AF Storage, Dosing, Feeding – mainly for kiln



AF (FLUFF) stored in silo and utilized mainly at KILN BURNER

AF to
combustion
chamber



AF to
KILN

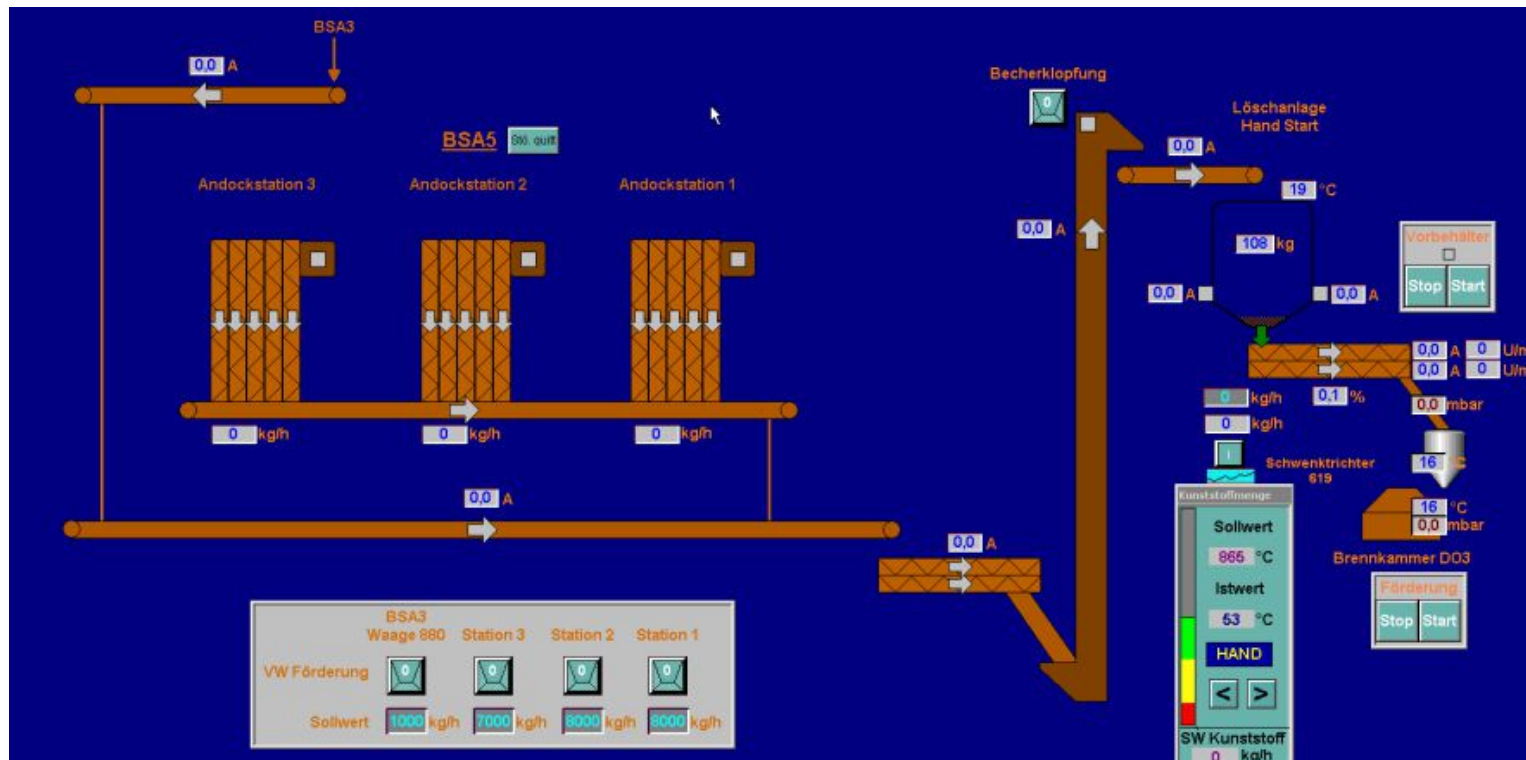
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AF Storage, Dosing, Feeding – mainly for calciner



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AF for calciner transported from 3 truck docking dosing stations into combustion chamber



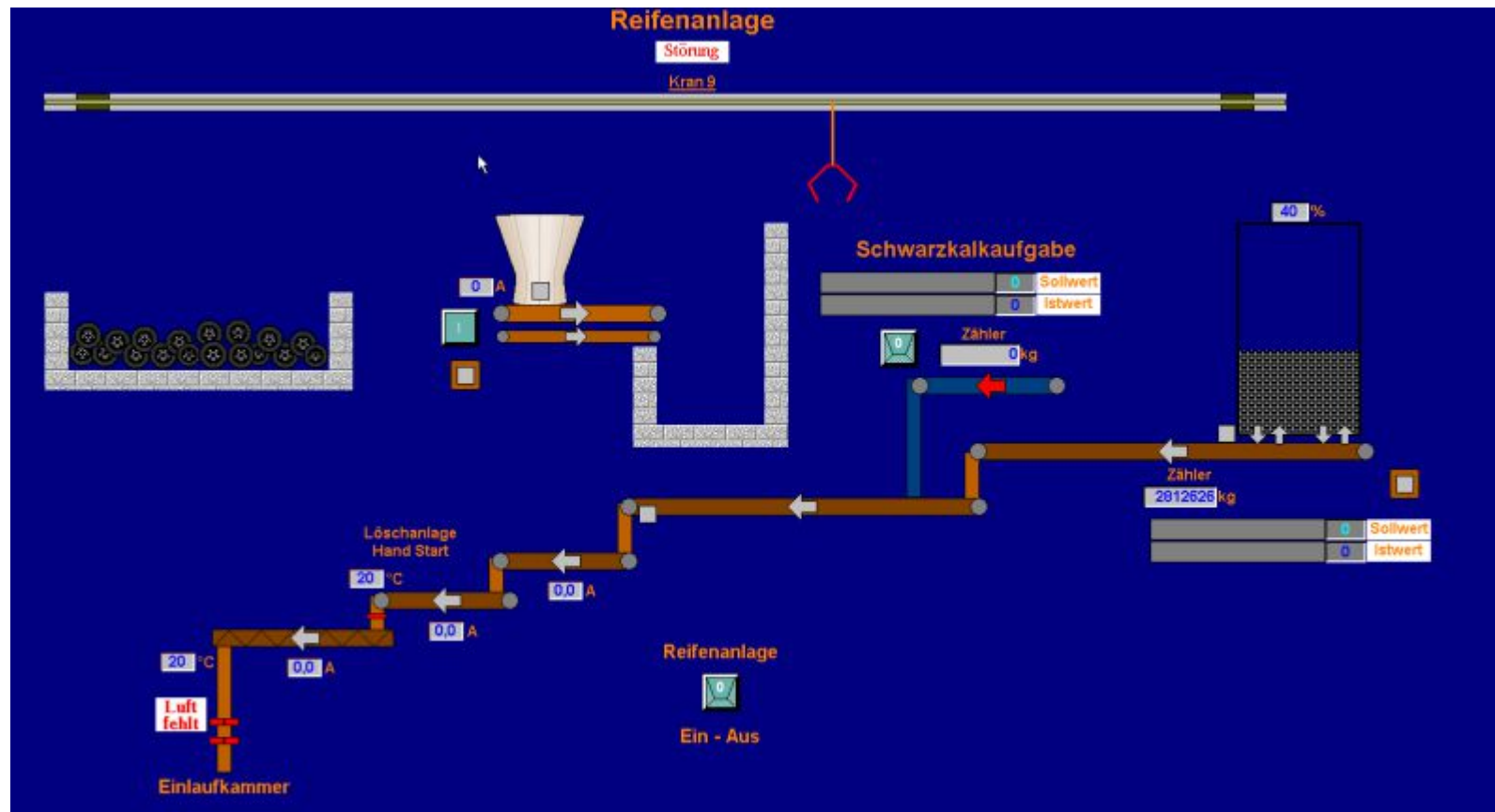
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AF Storage, Dosing, Feeding – tire chips



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AF (tire chips) to mixing chamber



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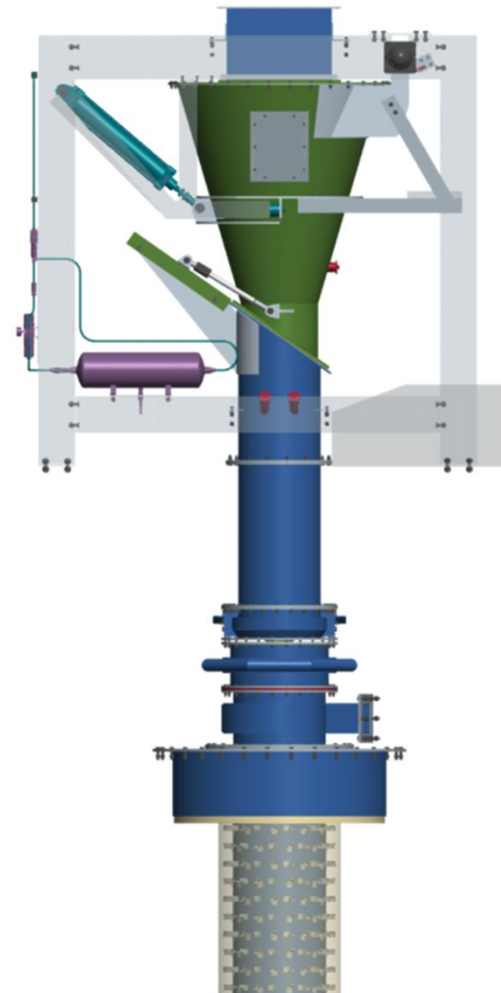
A TEC Swivelling Chute



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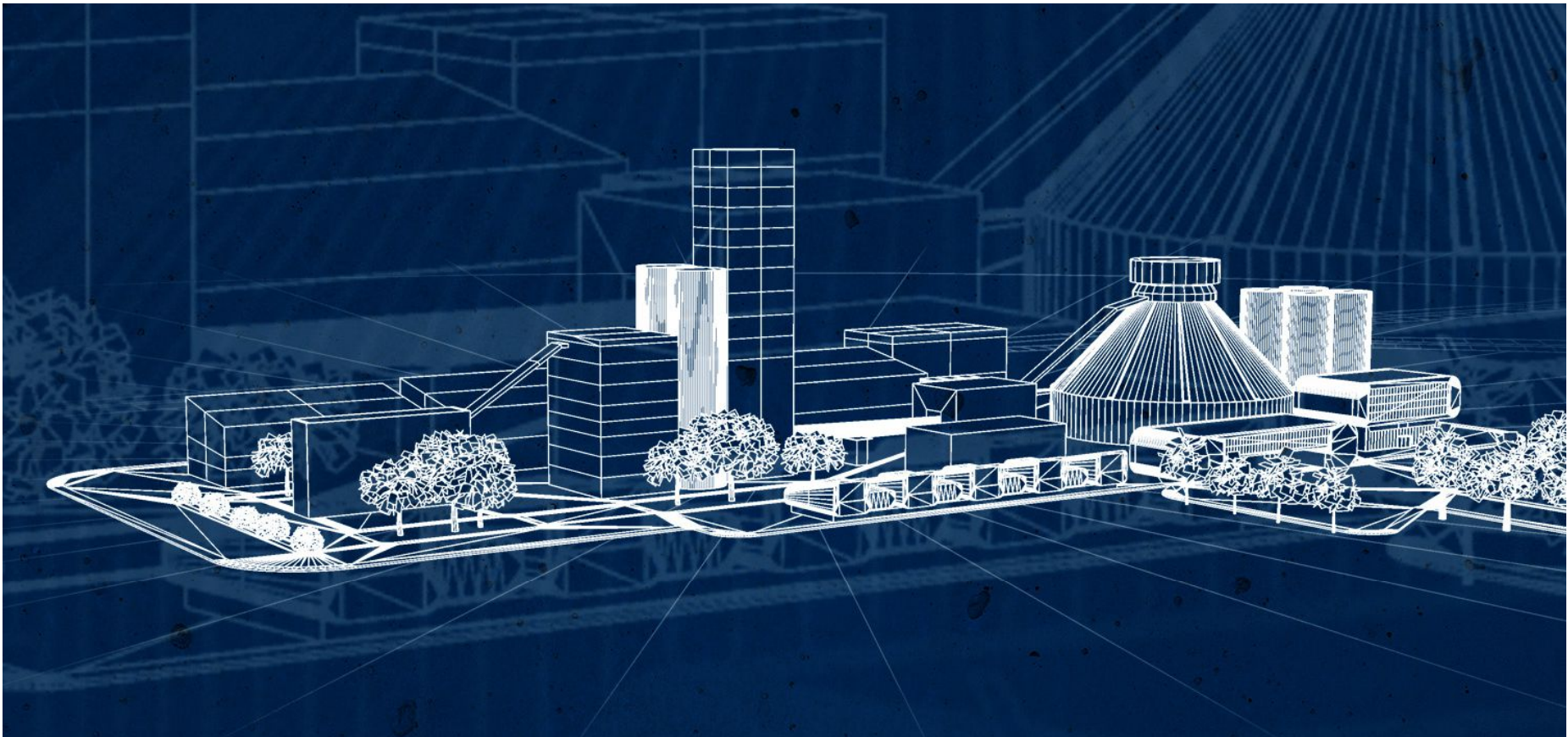
A TEC SWIVELLING CHUTE

In emergency case (over pressure in combustion chamber or high temperature in chute) the chute is swinging out and disconnects hot system from feeding system.



ACTUAL OPERATION VALUES

kiln feed	100 t/h
	approx. 1500 tpd clinker
fuels to kiln burner	
coal	2,0 t/h
AF plastics	2,0 t/h
fuels to combustion chamber	
coal	0,0 t/h
AF plastics	6,0 t/h
fuel to mixing chamber	
tyre chips	1,5 t/h



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