



Sunnytek Solar Sweden

Boilers and Turbo Generators for solid fuels

Sunnytek & Partners have solutions to make electricity from solid fuels and burnables of almost any kind. Here we focus on waste management for city dump waste but all that burn can in principle be used.

When we handle city dump waste we have solutions to sort all in machines and make valuables from the waste. One output is a material called RDF which in principle are all the burnables in waste. RDF is available in large volumes and is mostly plastics with high energy content. RDF is a ready to use in boilers and very good fuel.

These boilers are designed to handle this demanding waste materials from a city dump with some corrosive gases and smoke combined with pollutions in the fuel.

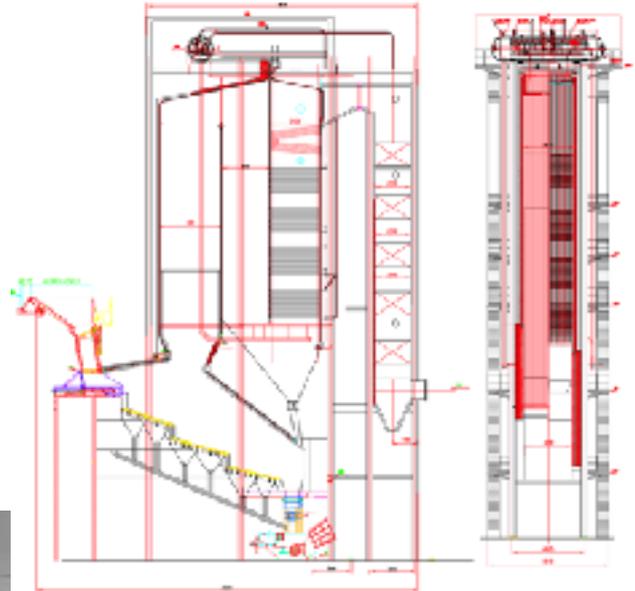
Design is focused to simplicity and easy operation and can be served with staff available in tropical areas of world.

Power station normally include all from solid fuel intake to handling to the moving grate boiler with ash handling system.

Power is generated by a steam turbine and water is recycled and have a treatment module for clean water. We offer systems from 50 ton / day to 1000 ton / Day and boiler. Electrical outputs are form 100-ds of KW to many MW in electricity + hot water.

Separate papers we have shows our solution for waste processing into biogas. valuables and RDF fuel from standard city dump waste. We have the complete solution for waste valuable handling. Typical power plant layout for converting RDF / solids to electricity in a environmentally correct way. Our solution includes many filters and cleaners for combustion gases to follow new and comping green regulations.

Typical parameters for a power plant medium size with



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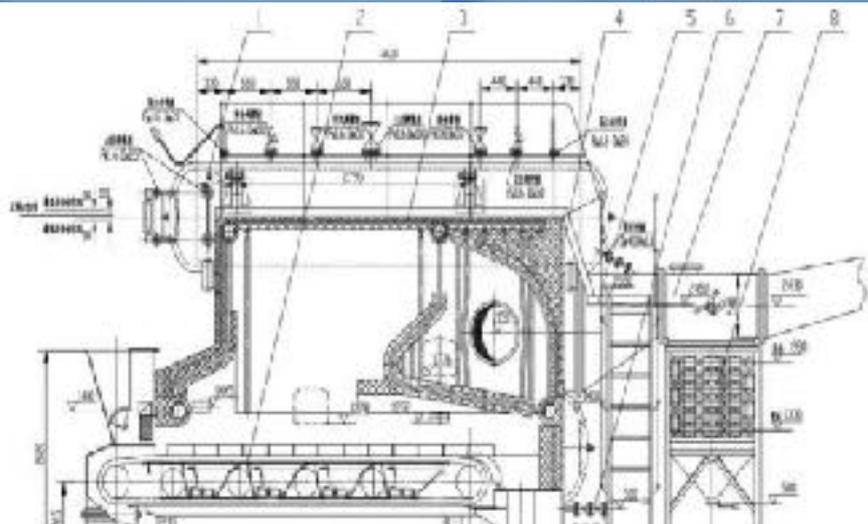
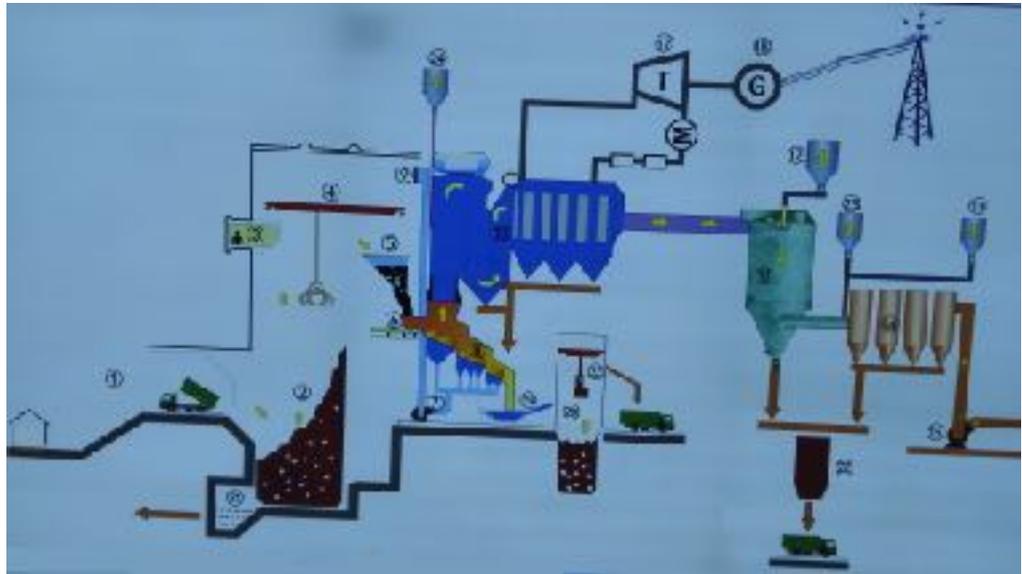
180-200 ton waste / day.

Boiler with reciprocating 3 level step grate. Made in special steel RTCr26 type (Chrome based)
 Fuel hopper for fuel loading into boiler
 Ash handling system with auto feeder. Includes silo.

Fan system for boiler and filters
 Water feeder tank
 NOX reducing system based on Ammonia process
 Scrubber system
 Lime handling and processing system to clean air
 Bag based filter system for particles and operation at 180C
 Active coal handler and process unit
 Chimney 45 meter high
 Osmosis water processing module
 Stoker unit.
 Steam pipes and insulation.

Steam process produce about 21 ton / hour
 Steam turbine 2235-3000 KW output. Operates at 400 C
 Electric generator 3.75 MVA
 Output 10500 Volt
 Rated power 3 MW at 3000 RPM

This was just one model and we have smaller and larger systems to offer,



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