





PYROSLUDGE®

SLUDGE DRYING & PYROLYSIS

Complete solution for sewage sludge valorization into syngas and biochar

Patented technologies

Think sustainable.



process

pyrolysis guarantees complete sterilization of the sludge

biochar, sterilized and odorless can be valorized as solid

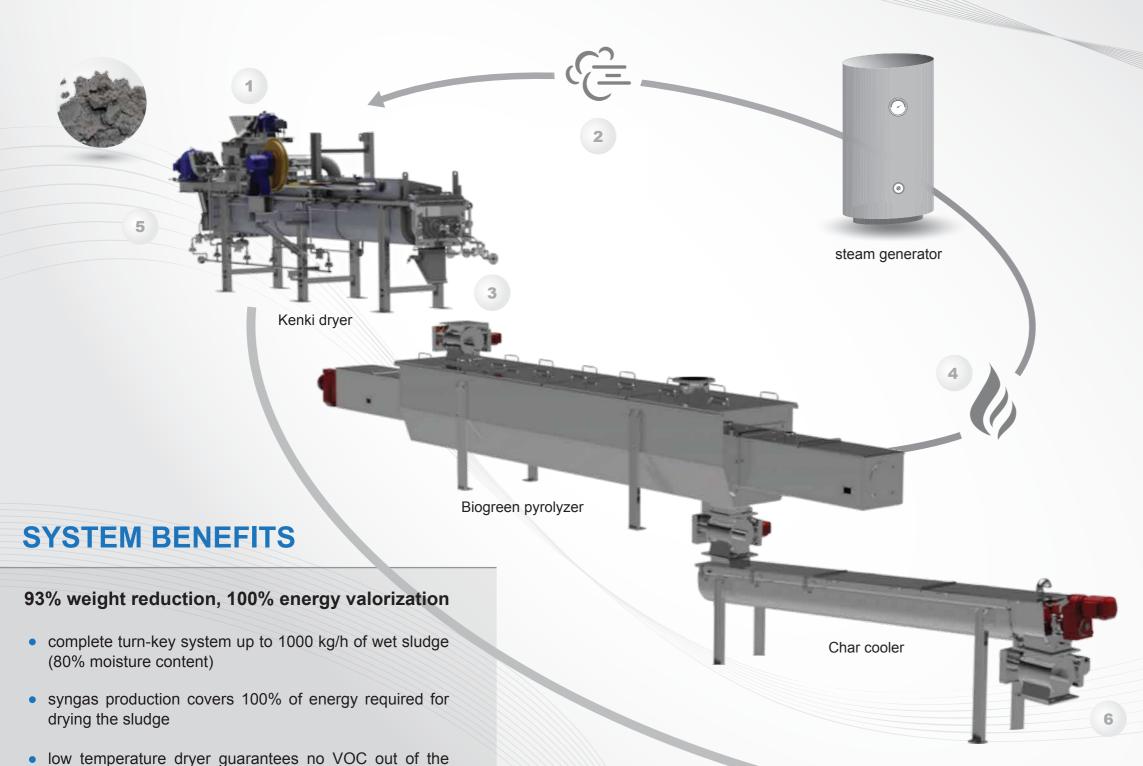
fuel or fertilizer (high phosphorus content)

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General Concept



Patented technologies



PROCESS DESCRIPTION

Wet sludge (15-20% DM) from mechanical dehydration system (centrifuge or filter press) is introduced into the steam heated twin screw Kenki dryer (1) powered by technological steam (2). The drying process allows to dehydrate the sludge from 80 to 10%. Dried sewage (3) is presented to the Biogreen pyrolyser that transforms the sewage in temperatures 750-850 degree C. Obtained synas (4) is used for fueling the boiler that generates the steam for sludge drying. The exhaust air (5) can be treated and dezodorized with biofilter or activated carbon. Biochar (6) is quickly cooled down in the special solid product cooler.

The sewage sludge is reduced to ca. 5% of its weight, free of patogenes, contaminations and odors. The product of process is biochar that can be valorized as solid fuel or fertrilizer according to its composition.





Biochar from sewage sludge Sterilized, odorless soil enhancer or solid fuel



www.biogreen-energy.com

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