

Thermylis[™] 2R

sludge incineration workshop with energy recovery and production

O biosolids



convert the calorific value of your sludge into directly usable electrical and thermal energies

o savings

virtually zero electricity consumption

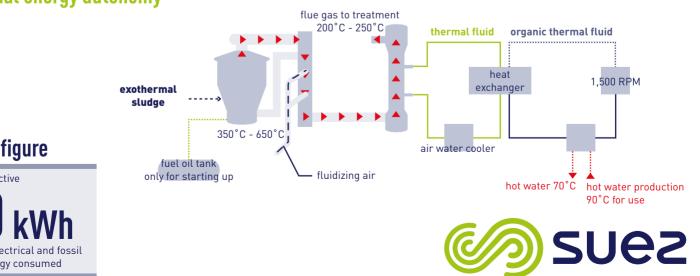
o environment

production of immediately usable thermal and electrical energy on and offsite (externalisation)

innovation

the combination of an incineration furnace and an electrical turbine for virtual energy autonomy

Combining all the benefits of fluidized bed incineration with the intrinsic advantages of SUEZ sustainable energy recovery technologies. The Thermylis™ 2R transforms your final sludge treatment equipment into an alternative energy source.



key figure



Thermylis™ 2R technology . . .

Compared with the Thermylis[™] 2S, the Thermylis[™] 2R is supplied with sludge that is directly autothermic. This sludge can be produced by Dehydris[™] Twist type boosted dewatering.

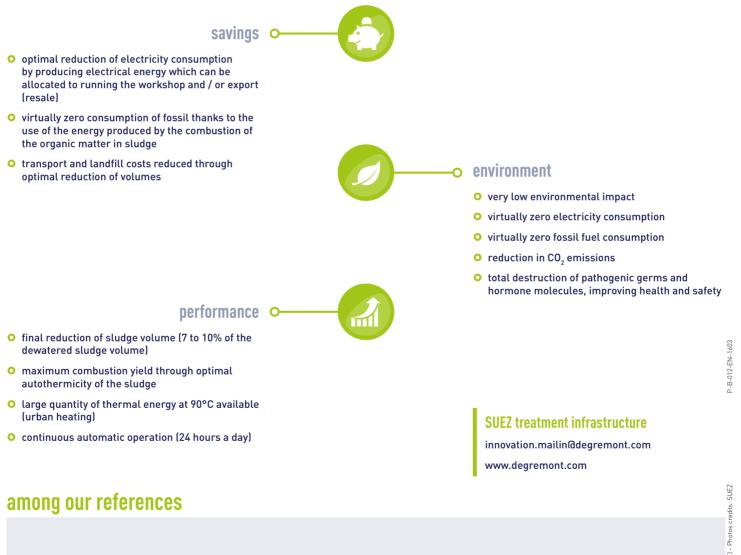
As the sludge does not require any predrying, the energy from the flue gas of the ThermylisTM 2R can be totally recovered as a source of thermal and green electrical energy.

The Thermylis[™] 2R – 2 recoveries of energy – is an integrated workshop composed of a high-performance incineration furnace and an electrical turbine. The turbine can be either a steam or organic cycle turbine (called ORC).

The Thermylis[™] 2R workshop offers you the possibility of reducing to almost nothing your consumption of fossil fuel and electrical energy for the treatment of your sludge.

Free energy generator coupling: the organic cycle also allows for the joint production of electricity and heat at 90 degrees (co-generation). In this case, the quantity of heat produced by the ThermylisTM 2R is very high. This energy produced by the ThermylisTM 2R can then be either reintegrated into the water treatment plant (heating of the premises, hot water network), or exported. The green electricity could also be sold.

... what it can do for you



Bilbao, Spain capacity: 1,000,000 PE Duffin Creek - Ontario, Canada capacity: 1,750,000 PE Cleaveland - Ohio, United States capacity: 1,000,000 PE