At War with Waste

In addition to the environmental ensure sufficient flue gas residence calorific value of municipal waste imported fuel.

effectively reduce environmental risks involve separation and recovery by destroying toxic substances and of specific compounds in filters, converting components into gases scrubbers and absorbers. Compared that pollute the climate much less to the classic CHP plant, achievable than their products of uncontrolled system pressures and temperatures decomposition. With Europe's current are therefore much lower, but the fact drive to diversify its energy resources that the plant doesn't pay for the fuel imports, energy-from-waste has also low efficiency. Regarding the goal of perspective. Although the incineration as energy source, however, new ideas of non-recyclable waste is already and concepts for increasing capacity common practice in many countries, and conversion efficiency are required. the provision of electricity and heat.

incineration is a complex task.

The primary focus of the incineration process is and remains minimizing the how can you predict and control the in-depth know how in thermodynamic impact on the environment. Furnace processes? design and combustion control must In practice, the composition and engineering.

benefits, waste incineration has time at specific temperatures cannot be accurately measured onalso become a hot topic in terms of to complete destruction of toxic line, but are constantly changing with reducing Europe's dependence on substances followed by quenching steps to mitigate their reformation. Waste incineration is known to Subsequent flue gas cleaning processes and become less dependent on fuel (on the contrary) still outweighs the corresponding to the commonly used gained attention from a geopolitical significantly increasing the role of waste evaluation. there is still enormous potential to For example, the combination with The EBSILON® Professional heat balance expand the installed capacity, but also heat pumps to use low-temperature software allows for both, overall mass to improve the use of waste energy for waste heat from scrubbers and flue and energy balancing to back-calculate gas condensation for district heating the fuel composition, and detailed Optimizing energy usage from waste offers great potential for substituting modelling of all equipment involved in fossil fuels.

If you don't know your fuel exactly,

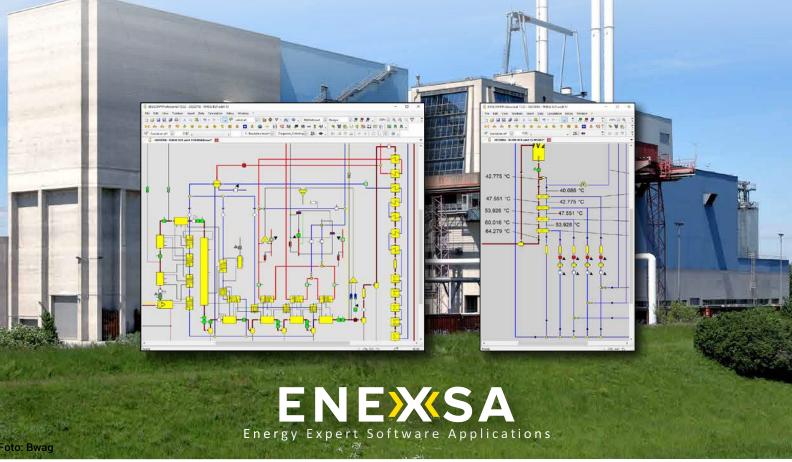
seasons, weather, and consumer behaviour. A system-wide thermodynamic model allows determination from other process parameters, since the energy absorbed by the watersteam cycle and the energy content of all other streams exiting the system boundaries must be equal to the energy introduced to the process, output/loss method for efficiency

A flexible and comprehensive process simulation tool is needed

the process.

ENEXSA's engineering team combines simulation with expertise in process

If you want to learn more about EBSILON and simulation services for waste incineration plants, please contact ENEXSA!



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