

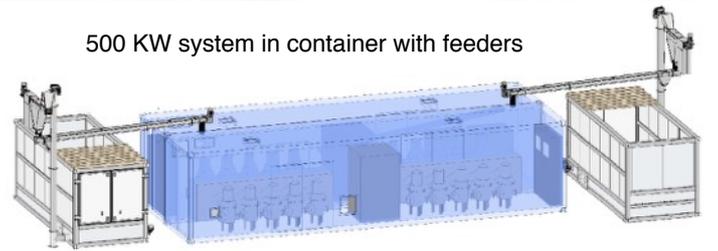


Sunnytek & Partners are happy to offer this total energy solution based on wood gasifier and a gas engine with an electric generator. The system is fully automatic and use wood chips and biomass to produce electricity and hot water. Total efficiency is over 90%.

Syngas / wood gas is produced in a gasifier and then cleaned in a 3 step gas filter assembly. The gas is used in a 4 stroke gas engine and generator. Here we get electricity and also 80 degree C hot water for other use.

The unit is possible to operate with a external grid or in island mode fully alone with an own mini grid. Sizes are from 10Kw to Several Mw in output.

Over 600 systems are installed in central Europe with very good results in reliability and performance. This is a perfect solutions in rural applications where hospitals and industries needs a power source. Often biomass is easy available here so operation costs get very low for many years.



500 KW system in container with feeders



40 KW system with gasifier and gas engine + generator

Characteristics for gasifier system with generator and hot water production

- * Produce electricity and hot water with over 90% total efficiency
- * Sizes from 10 KW to MW for various applications
- * Use wood chips and biomass as fuel with low costs and no import from other countries is needed
- * 100% automatic operation with chip feeder and silo and a special chip drier
- * Produced and installed in Europe with over 600 installations
- * Delivered in a module or container tested at factory and easy to install

This can be a perfect solution for many planes in tropical areas where grid is unreliable and costly. With biomass it is sustainable and green energy we produce to a low cost.

This is a way to get free of a costly and unreliable grid and stop to use a diesel generator to survive the days

