

## Autonomous Off-Grid SAGES Systems



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At PowiDian we have developed an innovative 100% green energy station – known as the **Smart Autonomous Green Energy System - SAGES**. Our solution is fully modular and flexible – so we can always adapt to our customer’s needs.

For standard Off-Grid requirements we have developed a series of standard solutions to make it easier for you to choose the right solution. All our standard systems incorporate our SAGES concept – and thus remote management and supervision are included as a standard feature. All systems can be either added to an existing solution (electro generator, unstable grid or other) to expand and stabilize the power supply – or work as a completely stand-alone power station - where and whenever you need it.

Version	Continuous Power output	Configuration	Typical End-User Price	Typical applications
<b>Bronze</b>	1 kW @ -48 V DC	SAGES + 40 m2 Solar Panels + long life batteries	From 75.000 €	Telecom sites Remote sensors
<b>Silver</b>	2 kW @ 220 V AC	SAGES + 5 kW Wind Mill + 60 m2 Solar Panels + long life batteries	From 132.000 €	Field medical centre Refugee camps
<b>Gold</b>	3 kW @ 220 V AC	SAGES + 60 m2 Solar Panels + long life batteries + methanol Fuel Cell	From 180.000 €	Isolated Mining Research sites Remote harbour
<b>Platinum</b>	6 kW @ -48 V DC and 220 V AC	SAGES + 10 kW Wind Mill + 60 m2 Solar Panels + Li Ion batteries + Hydrogen storage	From 310.000 €	Isolated village Military base

Any combination of sun panels, windmills, generators, fuel cells, batteries and hydrogen storage are possible as well as it's possible to connect the autonomous system directly to an existing unstable grid or generator – in order to secure a stable power supply for the users.

The production from the green energy sources is the primary supply of energy and thus contributes to great cost savings and eliminates pollution - both acoustic and CO2 caused.

The standard configurations are based on implementation in Tunis, Tunisia with the specific weather conditions for this area. The geographical locations determine the size of the solar panels and the wind mill.

