



CrossPower

Return on invest in < 5 years*

CrossPower substitutes fossil fuels by renewable power which is available on site. The battery storage increases plant availability. Incurred costs for fuel, logistics and maintenance decrease significantly. The result is a reasonable price per kWh in a TCO (total cost of ownership) approach.

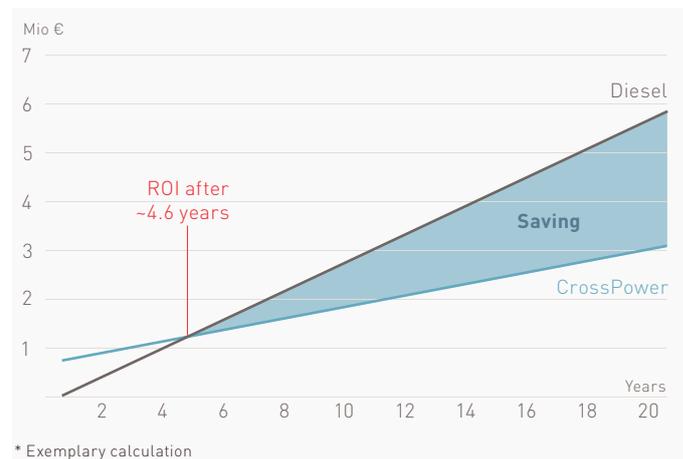
Benefits

- -80 % fossil fuels
- Minimal setup time and fast operational readiness
- Low OPEX (operation costs) per kWh



CrossPower vs diesel generator:

More than 2,5 million Euro cost savings in 20 years*



* Exemplary calculation

Decentralized power supply independent, reliable, efficient

Conventional power supply based on diesel generators causes tremendous costs involving fuel logistics and maintenance. Dependence on oil price involves substantial financial risks. Environmental impact due to logistics and CO₂ emission is apparent.

-80 % fossil fuels

CrossPower generates energy based on solar and wind power as well as on any other renewables. Diesel generators are utilized as backup only to ensure reliable 24/7 power supply. Thus diesel consumption will be reduced tremendously.

Higher CAPEX, lower OPEX

Compared to a pure diesel generator solution higher capital expenditure (CAPEX) for a CrossPower system are redeemed very quickly. Lower operating costs (OPEX) through savings on fossil fuels, logistics and maintenance will compensate the difference within a few years only. After the payback period CrossPower saves money on each kWh consumed.

Cost comparison*

CrossPower vs 100% diesel generator

Data	CrossPower	Diesel generator
System size (kW)	250	250
Peak load (kW)	200	200
Average load (kW)	120	120
Power generation/year (kWh/a)	1,000,000	1,000,000
Project tenor (years)	20	20
Interest on capital (%)	3	3
Diesel price (€/l)	0.90	0.90
Diesel consumption (l/kWh)	0.3	0.3
CAPEX (€)	750,000	90,000
Annual OPEX (€/a)	15,000	18,000
Annual diesel expenses (€/a)	54,000	270,000
Annual costs (€/a)	69,000	288.000
Annual capital costs (€/a)	50,411.78	6,049.41
Annual total costs (€/a)	119,411.78	294,049.41
Saving (%)	80	0
TCO (€)	3,018,823.83	5,676,938.86
Price per kWh – LCOE (€)	0.151	0.284
Return on Invest		21.7%
Simple payback		3.77 years
Discounted payback		4.6 years

* Exemplary calculation