Quinta das Cantigas – Eco Getaway

Sustainability report on energy usage

Power & heating 2023

Total consumption Average 27000 kwh per year	Total solar production Average 23.000 kwh per year		
Electric power consumption: • Average 17.000 kwh per year Gas power consumption: • Average 5900 kwh per year (Average consumption 38 gas bottles per year ~ 240 kg gas ~ 12.9 kwh/kg gas = 5900 kwh) Wood power consumption: • Average 4000 kwh (Average 1000 kg wood per year ~4 kwh per kg))	 Produced by 80 PV solar panels for electricity Battery capacity of 20 Kw Excluding production of warm water for showering (600 liter solar boilers) Excluding production of warm water for swimming pools by 150 heat pipes 		
Other consumption purchased by "100% green contracts Gold Energy"	Auto consumption of self- produced solar power approx. 55%		
Analyses 2021 -2023:	Analyses 2021 -2023 continuation:		
 Installed a battery pack (2022), more efficient heating in 2022/23 (airco's and central heating) and more water heating solar panels for tab water (2023), objective is to reduce the consumption of propane gas. We increased overall consumption by 50%, mainly caused by 2021 "covid" year and increased number of winter rentals 	 The increase in winter rentals and related heating caused significant impact in total consumption. The new heating systems assured no increase in wood power usage, but still a lot in gas bottles for warm water. Battery system supported increase of auto consumption with approx. 20% 		