

Off-Grid Generator for Energy Autonomy



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Clean Energy. Anywhere. Anytime.

Recognition



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3 challenges with the energy transition for supermarkets & service-stations



Time to power is too long and costly

The grid is at capacity and no longer an option to supply high power needed for business expansion such as EV charging services.



Decarbonization impacts profitability

Strong environmental regulations representing hundreds of M€ per year for a supermarket company because of EU RED III directive (Renewable Energy Directive)



Water shortage causes disruptions

Car wash and related services revenue down by 25% on typical year



Off-grid generator solution for retail locations (supermarkets & service-stations) validated with



Baseload 300 kW / 100 MWh storage within days

Avoiding connection costs
and huge delays with the
utility companies

>1M € in cost avoidance,
resilience, and increased
revenue over **10 yrs**



Uses 100% renewable energy vector + captures biogenic CO2

Using renewable feedstock
triggers government incentives.
Biogenic CO2 captured via
ethanol production, available for
use or sequestration.

1M € to 2M € in grants and CO2
credits over **10 yrs**



Produces pure / deionized water every day and avoids draught restrictions

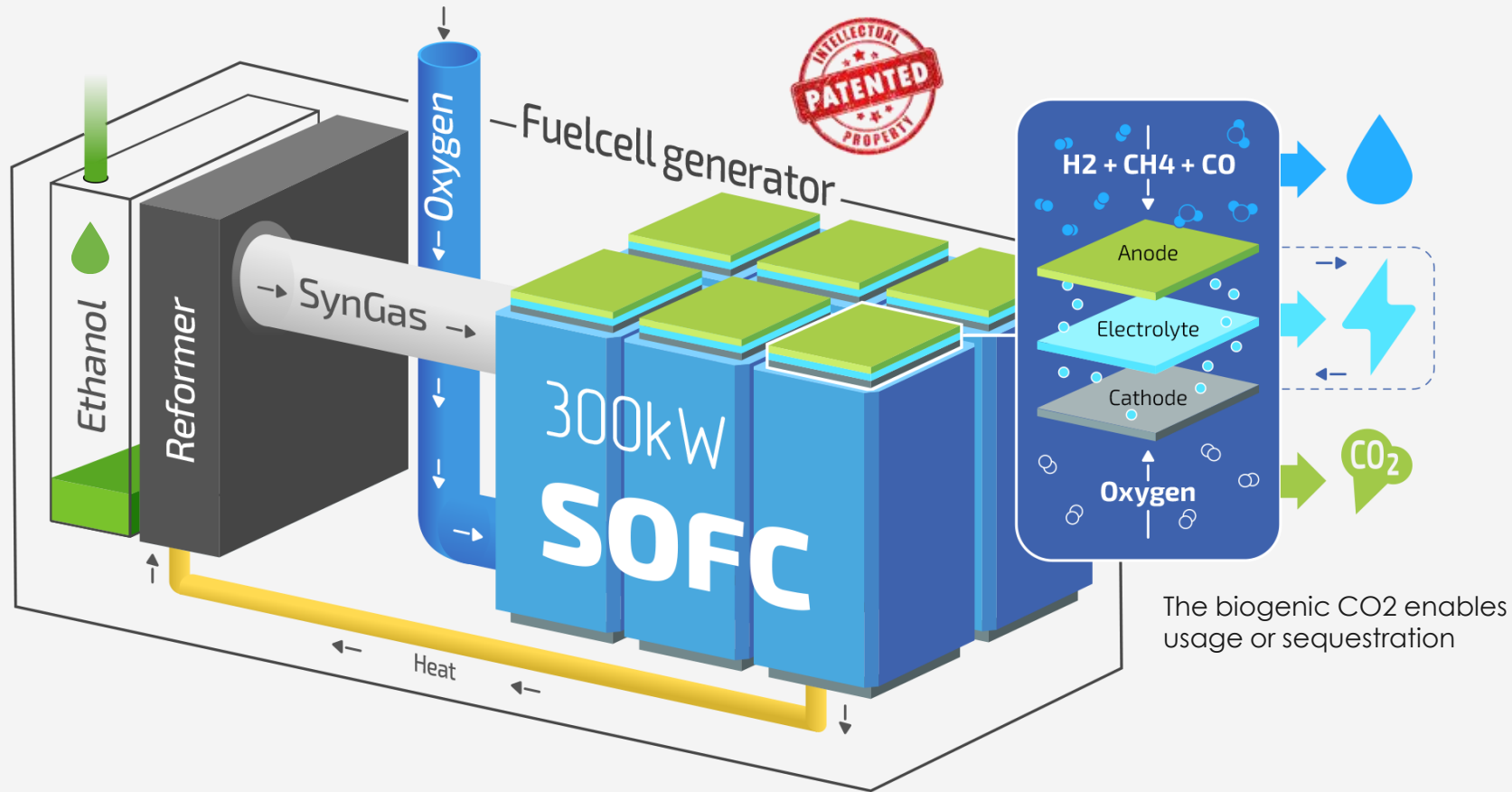
Car wash and related services
revenue down by 25% on typical
year due to drought

500k € over **10 yrs**



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The Magic: high efficiency electricity production using ethanol & modular approach



Why ethanol ?

- Made from **residue and waste, 100% renewable**
- Access to **36 TWh** equivalent of ethanol produced each year in Europe – same as 4 nuclear reactors !
- Best energy **density** vs other green feedstocks
- **Easy and safe** transport and use
- **Low-cost** commodity
- **Waste heat** sufficient to reform ethanol

Latest development with partners



Container



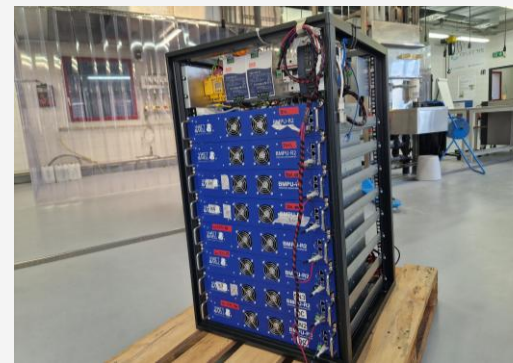
Battery



Ethanol tank



Fuel cell system



Power electronics



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Use Cases – all benefiting from 100MWh per 30m3 tank



Micro grids

Power: 300kW – 1MW
CO2: certified credits
Water: cleaning / car Wash
Industries: retail, EV fleets CPO



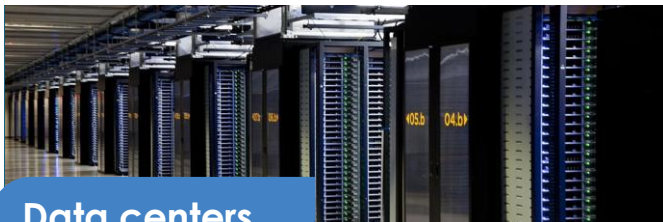
Agriculture

Power: in GWh / ha
CO2: own consumption
Water: own consumption
Industries: greenhouse, agriculture



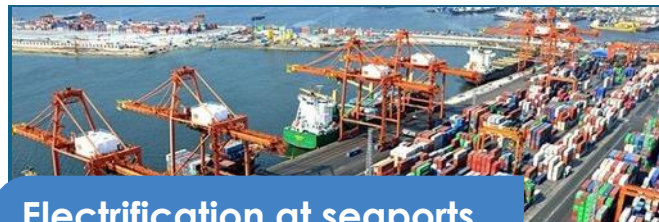
Remote

Power: 300kW – 2MW
CO2: certified credits
Water: pure (tools cooling)
Industries: construction, mining



Data centers

Power: 100kW – 900kW
CO2: certified credits
Water: deionized (cooling)
Industries: AI



Electrification at seaports

Power: 300kW – 1MW
CO2: certified credits
Water: own consumption
Industries: shipping



Military

Power: 300kW – 1MW
Operation: silent
Water: cleaning
Industries: army, air force

Thank you !

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