

Off-Grid Generator for Energy Autonomy



WattAnyWhere

Clean Energy. Anywhere. Anytime.



3 challenges with the energy transition



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



Solution: Off-grid generator. POV done with Shell, Oiken (Utility) and Commercial centers



**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 + 2.2Mt
emissions avoided over 10 years

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



**Produces pure / deionized water every
day and avoids draught restrictions**

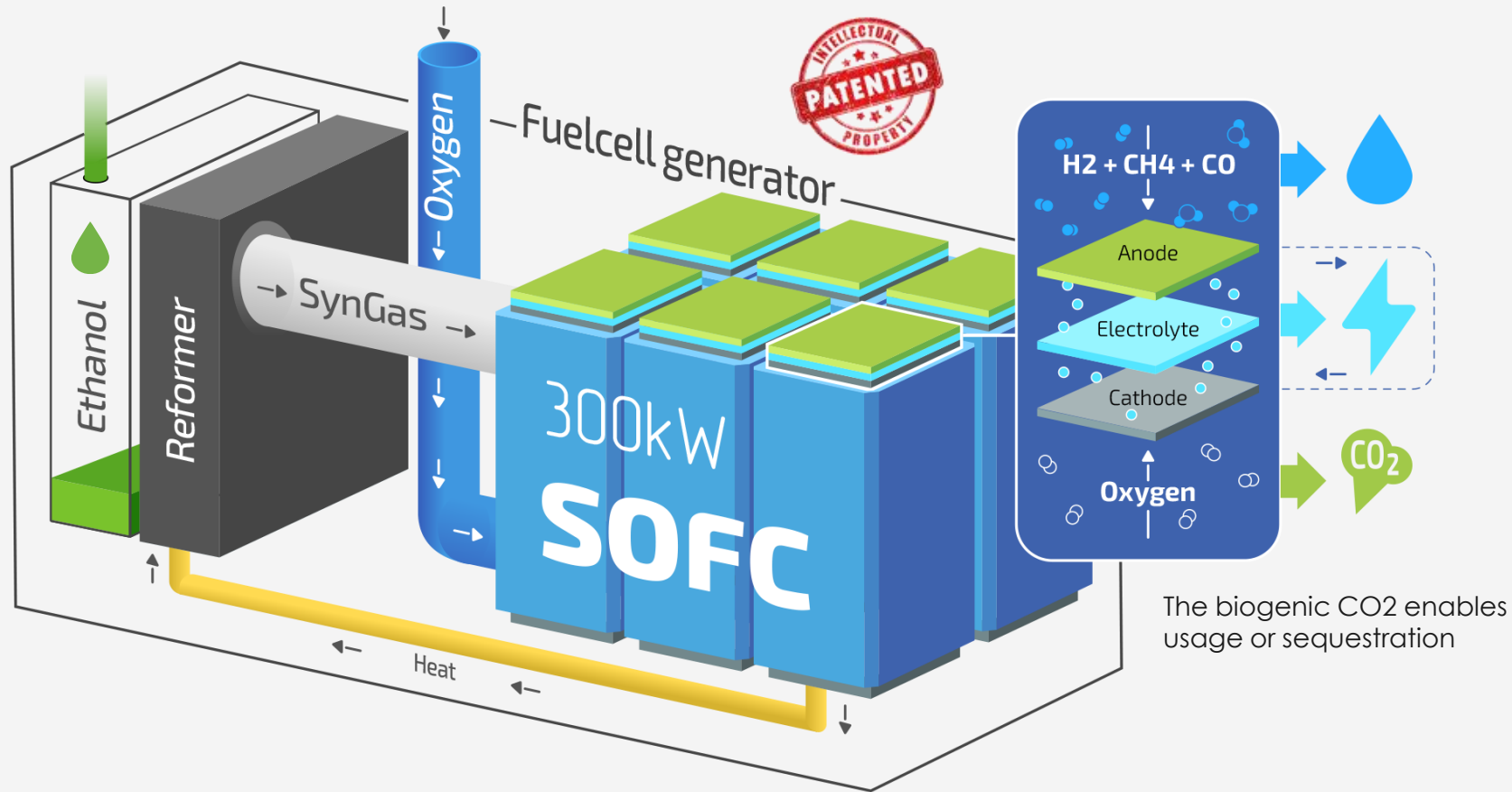
Car wash and related services
revenue down by 25% on typical
year due to drought

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



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

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Thank you !

didier.roux@wattanywhere.com

alexandre.laybros@wattanywhere.com