





bGen™ Acumulación de Calor Casos de éxito de descarbonización: almacenamiento térmico



Integrated Energy Solutions

bGen™ – Key Advantages



HybridConnects different
Energy Sources



Modular
From Industrial to
large-scale Power Plants



Lifetime 30+ Years

Flexibility

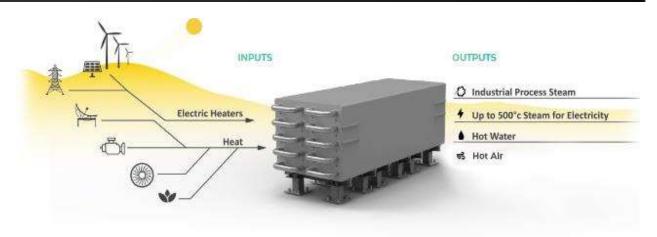
Decoupling Generation from Demand



PerformanceUnlimited cycles with minimal daily losses



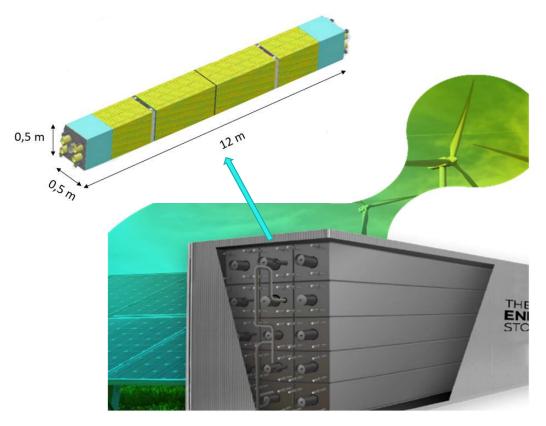
CleanEnvironmentally friendly materials (crushed rocks)



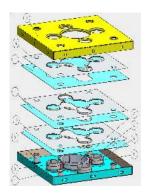
Green Enesys Confidential



The bGen™ is comprised of multiple bCubes:

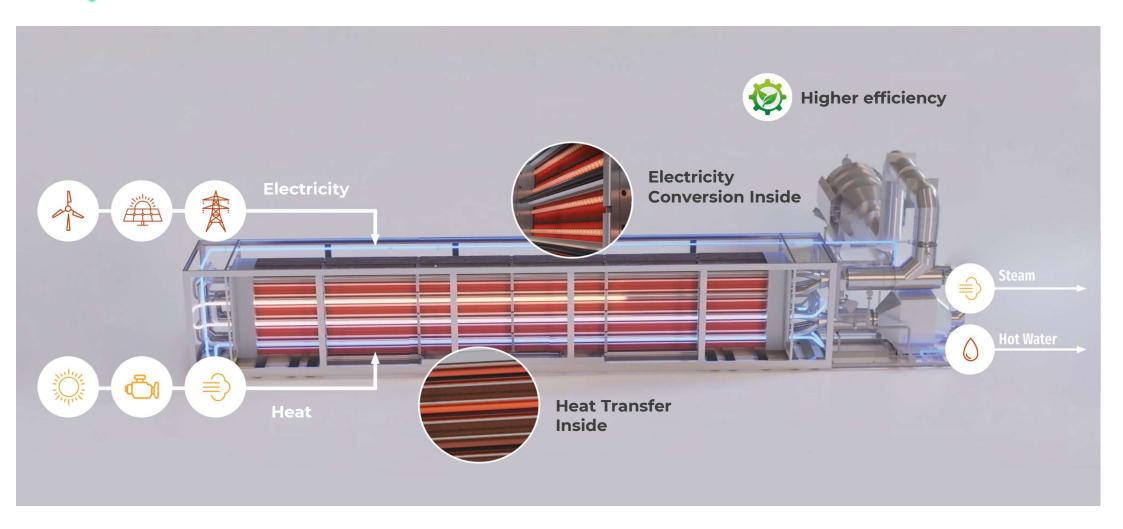














Wolfson Hospital, Hulon (Israel) - 12 MWh TES

- TES will supply steam for the use of the hospital
- ▼ TES charged with electricity from the grid (off-peak prices)
- ✓ TES expected to eliminate 95 % of local GHG in the city center
- Existing boiler will be downsized to use for back-up purposes only
- ✓ Integration with existing steam distribution infrastructure
- ✓ 20-40% reduction in the price for each ton of steam produced
- ✓ System implemented under Energy Service Company (ESCO) model









Tempo

Tempo Beverage (Israel) - 32 MWh TES

- Tempo Beverage Company, Netanya (owned by Heineken)
- ▼ TES will supply base load and peaks process steam
- ✓ <u>Charged</u> with 5.6 MWe from the grid (off-peak prices) and PV sources
- ✓ <u>Discharge</u> max steam flow of 14 tn/h at 7 bara and 168 °C
- \checkmark Dimensions (L x W x H): 13 x 5 x 6 meters
- ✓ TES will replace 85 % of current fossil fuel burning.
- ✓ Eliminate 6,200 tn CO2eq emissions anually
- ✓ Implementation of Energy Service Company (ESCO) mode
- ✓ Expected cost savings of \$7.5 million for Tempo over the span of 15 years







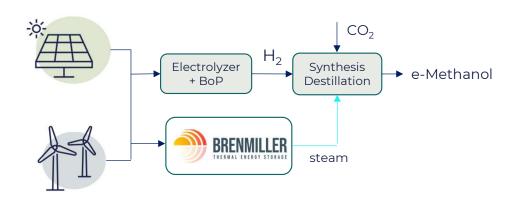
Integrated Energy Solutions

Green Hydrogen and e-Methanol Plant - Electrification to Heat

SolWinHy Cádiz (Spain) - 50 MWh TES

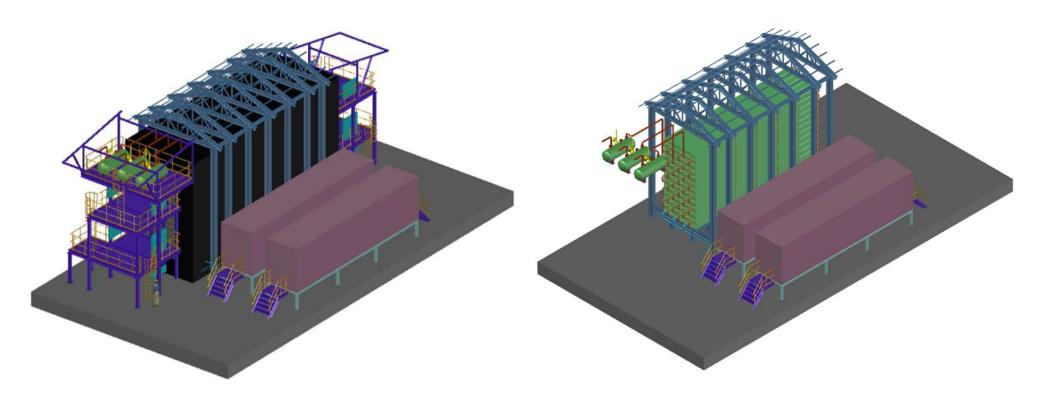
- ✓ Green hydrogen and e-methanol plant COD in 2026
- Process Plant disconnected from the grid
- ✓ TES will supply steam required for methanol distillation
- Possible to charge the TES with excess energy (daytime) and discharge steam 24/7 at partial loads
- ✓ <u>Charge</u>: 8.6 MWe from the PV+Wind excess energy
- ✓ Discharge: max steam flow 8.5 ton/h at 6 bara and 160 °C
- ✓ Dimensions (L x W x H): 28.5 x 17 x 10.5 meters



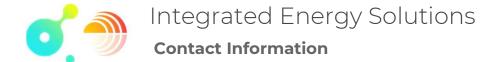




SolWinHy Cádiz (Spain) - 50 MWh TES



Green Enesys Confidential



Thank you

Dr. José Luis Morán

Director Integrated Energy Solutions P° de la Castellana 140, 15ª-A, 28046 Madrid, Spain Phone: +34 606 344 994 | +49 15 15 90 87 236 joseluis@greenenesys.com

Julia Reig

Head of Process Engineering P° de la Castellana 140, 15ª-A, 28046 Madrid, Spain Phone: +34 613 003 608

julia@greenenesys.com