

# POWERING THE FUTURE

With Low Energy Nuclear  
Reaction Technology

**Presentation for Prio + DISA & Damm  
(Carceller Group )**

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Presented by  
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**ENG8**  
CLEAN ABUNDANT ENERGY

# ENG8 RePowering and Re-energising Prio and the wider the Carceller Group

ENG8 can help Prio (as well as DISA & Damm) by offering:

1. Onsite and Onboard Energy Generation.
2. 50% Discount on Electricity, Heat & Hydrogen.
3. Zero Capex cost for you as it could be Carbon-Credit Funded once our EnergiCell technology has been accredited.
4. Strategic Long term Partnership.



**EV Charging**



**Retail Powering**



**Production Powering**



**Truck Powering**

# ENG8 EnergiCell® 100kW Power Plant

Clean, Abundant Energy Through Low Energy Nuclear Reaction Technology



- Direct Generation of:
  - Electricity
  - Heat
  - HHO and Hydrogen & Oxygen
- Onsite and Onboard Power When and Where You Need It*

# ENERGICELL

## INPUTS

Electricity

plus H<sub>2</sub>O, or just the H<sub>2</sub>

But it can release magnitudes more energy than from a chemical reaction

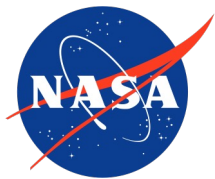


Table 1. Nuclear energy comparison<sup>1</sup>

	LENR	Fusion	Fission
Theoretical Max Energy Density	8,000,000 times chemical	7,300,000 times chemical	1,900,000 times chemical
Fundamental Force	Weak	Strong	Strong



## OUTPUTS

- Electricity and/or Heat and/or HHO or H<sub>2</sub> and O<sub>2</sub>

## INDEPENDENT VALIDATION

9 Independent validations of EnergiCells.

The EU CleanHME program demonstrated 10x power out of an LENR reaction

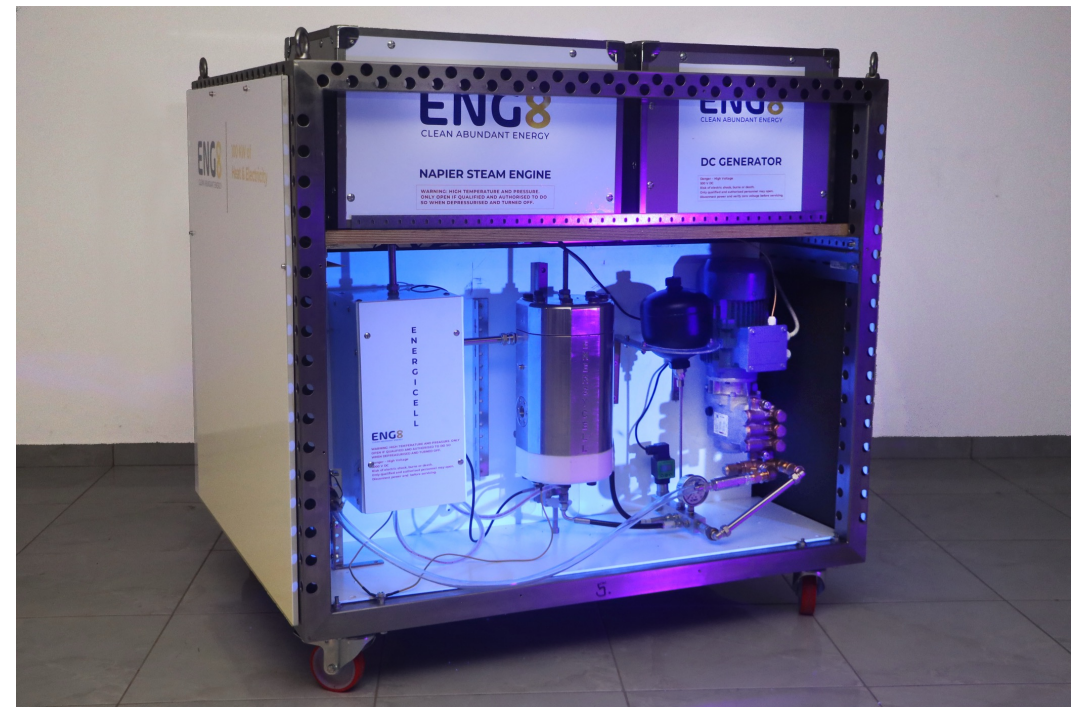


# ENG8 ENERGICELL® 100kW POWER PLANT

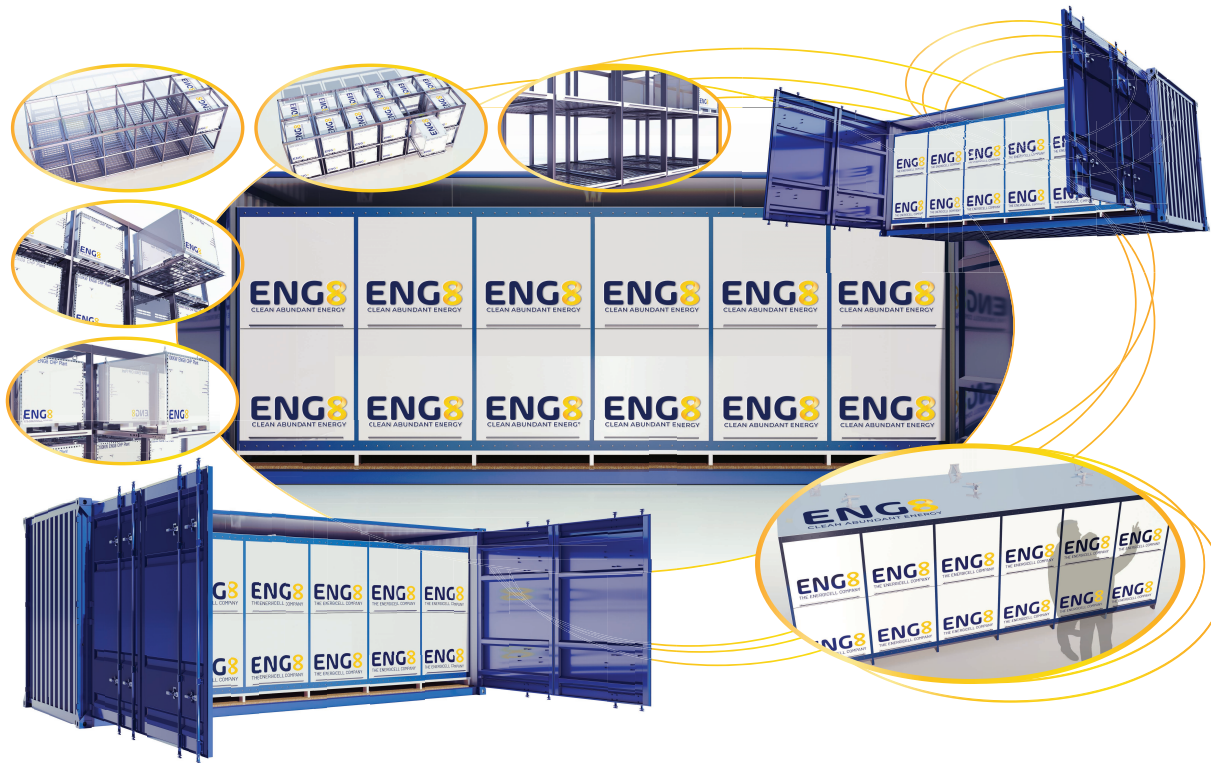
ENG8 refers to its LENR reactors as EnergiCells. The power generating systems have the following main components: an EnergiCell, fluid pump(s), plasma generator, and a control system.

**Technology Readiness Level (TRL) 4/5 with a fast jump to TRL6-9 as 99% our components are COTS**

Following decades of LENR R&D by its team members, the technical development teams are now focusing primarily on application engineering solutions using mainly commercially available off-the-shelf components (COTS).



# MODULAR MEGAWATT POWER PLANTS



A containerised, robust “hot swap” modular power plant with ammonia cycle chillers will be developed that can be located where and when needed to provide:

- thermal & electrical energy on demand.
- **6m/20ft container** with a designed combined heat & electrical **power output of 1MW**
- With 20% redundancy built in initially.

# CAPITAL AND GENERATING COSTS

**PER 100 KW MODULE, cost in Euros (€), thousands**

1. - Plasma generator	20
1.1 - Power management system	2
1.2 - Engine & Generator.	10
1.3 - Battery	2
1.4 - EnergiCell	5
1.5 - Hydraulics and pneumatic system	3
1.6 - 12-48v control system	3
1.7 - BOS	2
1.8 - Labour	3
<b>Total</b>	<b>€50k</b>

## ENG8 is targeting:

- A **€500k/MW** internal production cost.
- **Generation costs** of circa **€15/MWh based** on a **€1m financed asset cost and 90% capacity factor.**

**NOTE:** *Figures based on initial modelling and current equipment costs*

# Energy-as-a-Service Model



ENG8 owns, installs, operates and maintains the systems

- You pay only for the energy delivered
- 50% discount versus your current costs
- Carbon credits fund deployment capex
- Zero upfront capital required



**EV Charging**



**Retail Powering**



**Production Powering**



**Truck Powering**

## EV & Hydrogen Charging - Anywhere



- Accelerating EV Charging Network.
- Removes grid barriers at hundreds of stations
- Enables equipping 500–800+ additional sites in 5–10 years
- Thousands of new charging points
- Major new revenue from charging + increased footfall
- New remote/highway stations now viable .
- Hydrogen on demand for refueling hydrogen vehicles.

***You avoid tens of millions in grid connection and upgrade costs while being able to open new stations in locations that were previously impossible.***

# INDEPENDENT OFF GRID POWER FOR RETAIL



## Huge savings and benefits across the DISA/Prio: ~900–1,000 stations:

- 50% electricity cost savings.
- Removes grid barriers at hundreds of stations
- Enables additional sites in 5–10 years
- Major new revenue from charging + increased footfall
- New remote/highway stations now viable

# Hybrid EV Truck Charging On the GO

**From Prio Fuels to Damm beverages. Huge savings and benefits across the DISA/Prio/Damm 1,000+ direct and indirect fleet:**



- Pure-electric tractor units are now available from major manufacturers.
- 50% lower energy cost with EnergiCell electrical generators onboard.
- No lengthy recharging stops
- Unlimited Range
- Diesel fuel elimination
- 90% smaller battery → €100,000–€190,000 capex saving per truck
- 100KW modular generators bolted to chassis frame rails on tractor unit / trailer units.
- Weight saving = cost saving.

# Repowering the Aveiro Biodiesel Refinery & Terminal



- 113,880 tonnes/year capacity + 100,000 m<sup>3</sup> terminal
- High process heat and electricity demand for production & storage
- ENG8 on-site EnergiCells deliver clean power.
- 50% lower energy costs .
- Enhanced biofuel credentials and carbon credits
- No grid upgrades required, increased reliability



*ENG8s generators could significantly reduce costs and emissions across the wider group.*

# PILOT & SCALEING

	Year 1		Year 2		Year 3	Year 4	Year 5
	1st Half	2nd half	1st Half	2nd half			
<b>Operations</b>							
Aveiro Biodiesel Thermal Energy	Develop	Test	Implement				
Aveiro Biodiesel Electrical Energy		Develop	Test	Implement			
Service Station Power			Develop	Test	Certify	Roll out	Roll out
EV Charging Power			Develop	Test	Certify	Roll out	Roll out
Truck onboard Power				Develop	Test	Certify	Roll out
Capacity, MW			1	2	10	100	1,000

# Strategic Partnering Opportunity

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## Aligned Long-Term Partnership

- Equity participation: Carceller Group / Prio invests in ENG8 via share purchase to cover developing solutions and piloting costs.
- Soft development contracts for custom solutions.
- Supply at 50% energy cost reduction across all energy requirements.
- Dual value creation:
  - Potential operational savings (€50–100M+ per year across the Group)
  - Share value uplift as ENG8 scales with your success

Win-Win: Energy independence + equity upside in breakthrough technology

# Total Strategic Impact

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- Potential €50–100M+ annual cash-flow improvement across Group within 5-10 years
- Rapid expansion potential for stations and EV charging points.
- Hydrogen on demand for refueling.
- Accelerated decarbonisation.
- Energy independence
- Equity participation in ENG8

Questions?

GET IN TOUCH

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