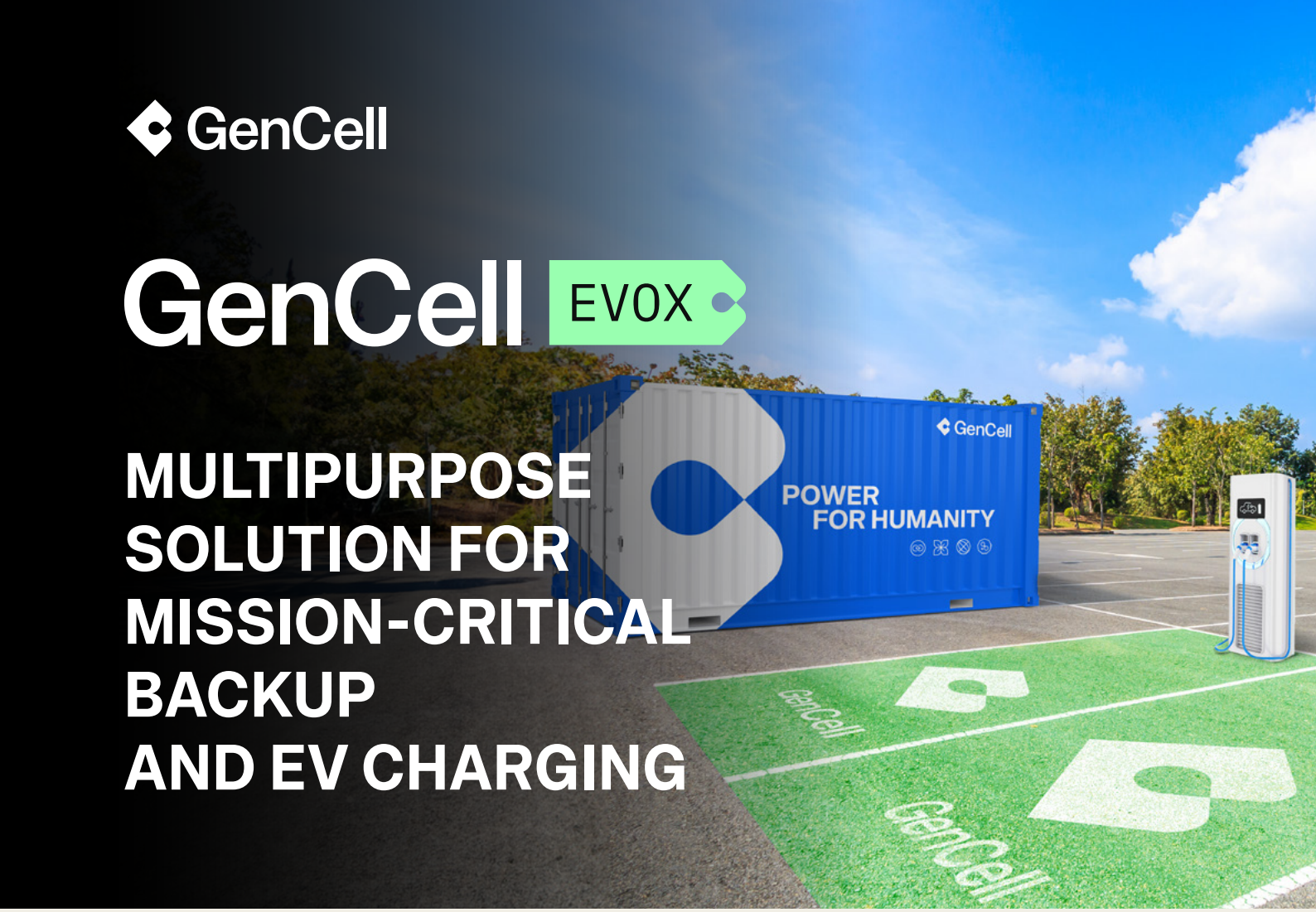
GenCell

GenCell EVOX



MULTIPURPOSE SOLUTION FOR MISSION-CRITICAL BACKUP AND EV CHARGING

GenCell EVOX

With the steady, steep rise in EVs entering our roads, **the electricity infrastructure can't keep up**. Grid expansion is complex and slower than that of EVs expansion - causing the main barrier to expanding charging infrastructure and reinforcing EV drivers' **range anxiety**.

GenCell's EVOX™ is a disruptive technology that fills this gap. The EVOX leverages fuel cells to complement energy storage, creating the ultimate EV charging solution that produces power on-site with the added benefit of long-duration backup power for the entire facility in case of power outage.

Fueled by zero-emission hydrogen and ammonia-ready for the future, EVOX ensures charging stations keep running 24/7, providing reliable, fast charging to multiple vehicles.

Watch A Demo

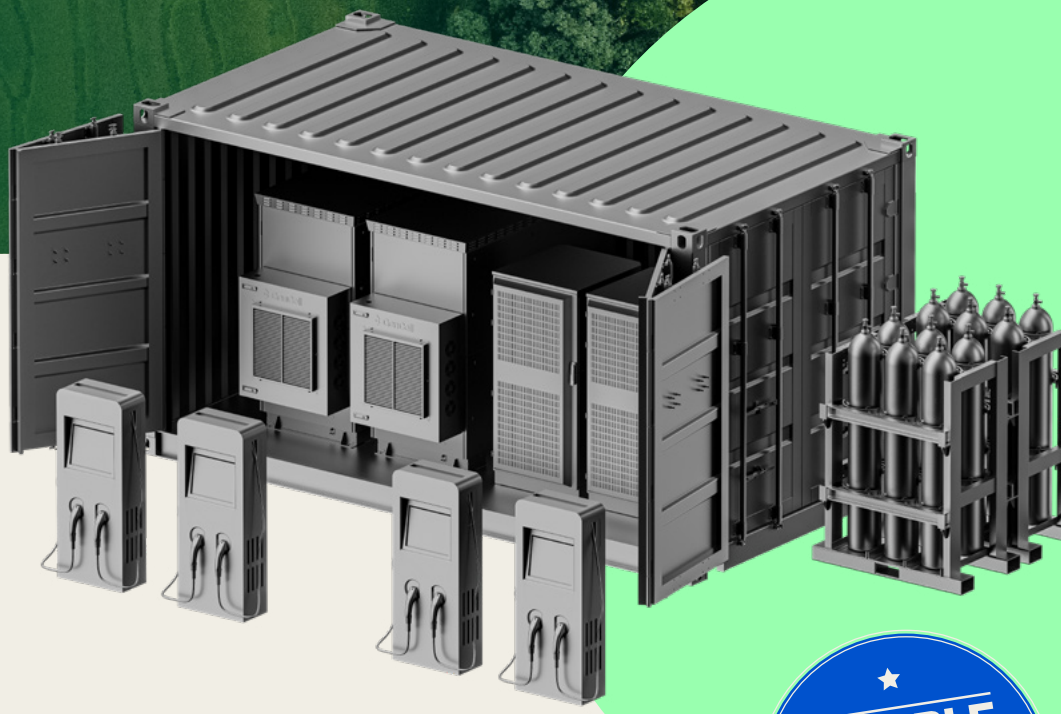
Hydrogen 2 Power™

ONE SOLUTION: TRIPLE USES

Green, grid-independent EV charging

Resilient site-wide backup power

Emergency vehicle DC fast charging on-demand



ELIGIBLE for renewable energy incentives covering up to 50% of costs

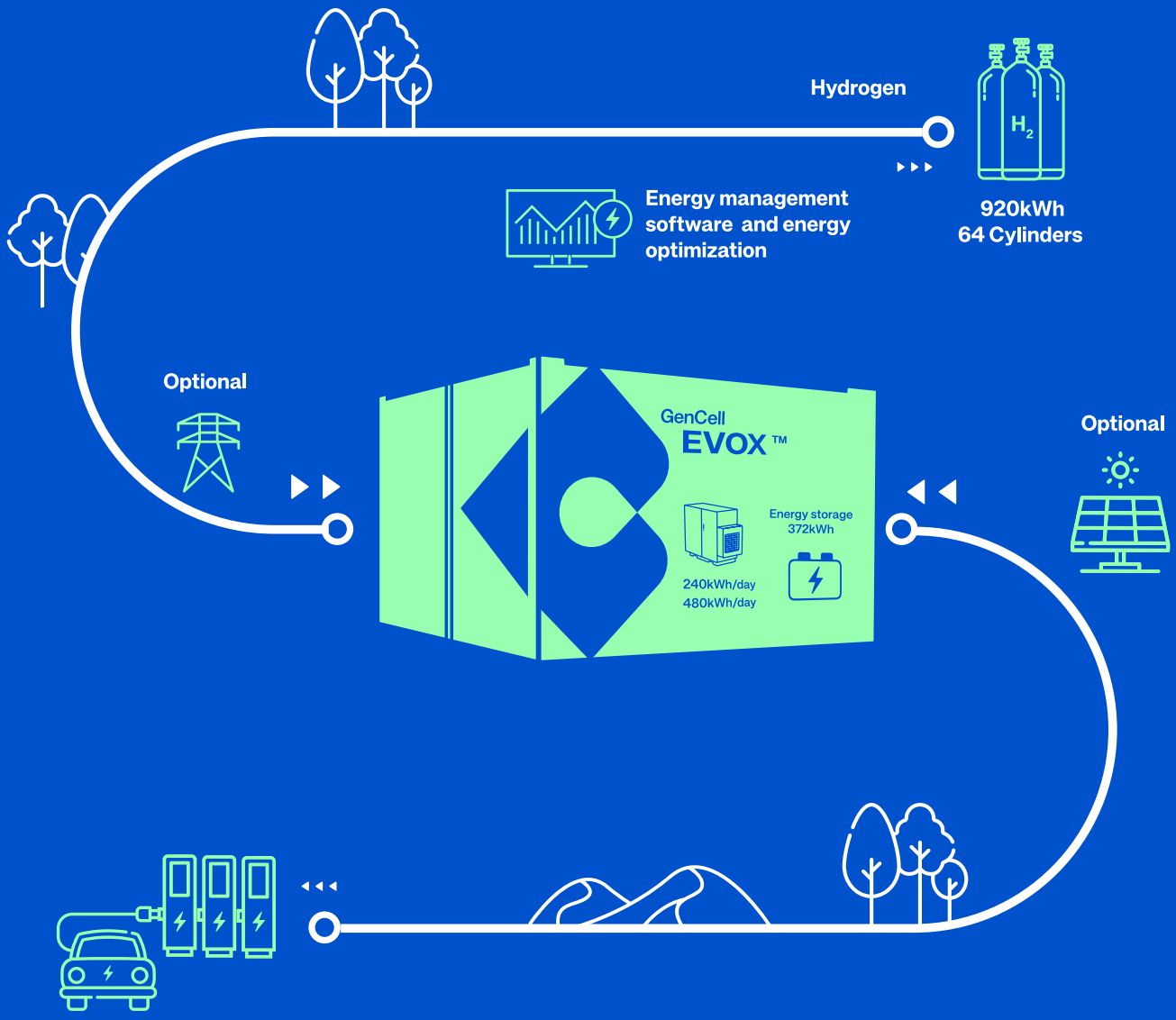
OUR BENEFITS

- Fills power gap where grid power is insufficient
- Delivers immediate three-phase power at single-phase sites
- Zero-emission to comply with strictest environmental regulations and standards
- Rapid deployment cuts lead time; modular & scalable with low maintenance
- On-site power generation technology
- Suits all types of fast chargers

HOW DOES IT WORK?

The GenCell EVOX solution is scalable - which allows flexible combinations and configurations.

Incorporating a 372 - 500kWh energy storage device with up to 920kWh stored as hydrogen, each EVOX unit delivers 480kWh per day. The solution can service multiple DC Fast chargers (50 - 250kW), typically enabling each vehicle to reach a charge of 80% energy capacity within 12 - 30 minutes - anywhere, anytime, independent of the grid.



GenCell GEMS

SMART ENERGY MANAGEMENT SOFTWARE

— Optimizes Power Resources

- ↳ Integrates fuel cell operations with other power sources
- ↳ Prioritizes energy resources in accordance with real-time costs
- ↳ Executes energy usage tracking for EV charging payment apps
- ↳ Energy calculator tracks and charges diverse billable power sources
- ↳ Ensures reliable backup power management

INTELLIGENT IoT EDGE

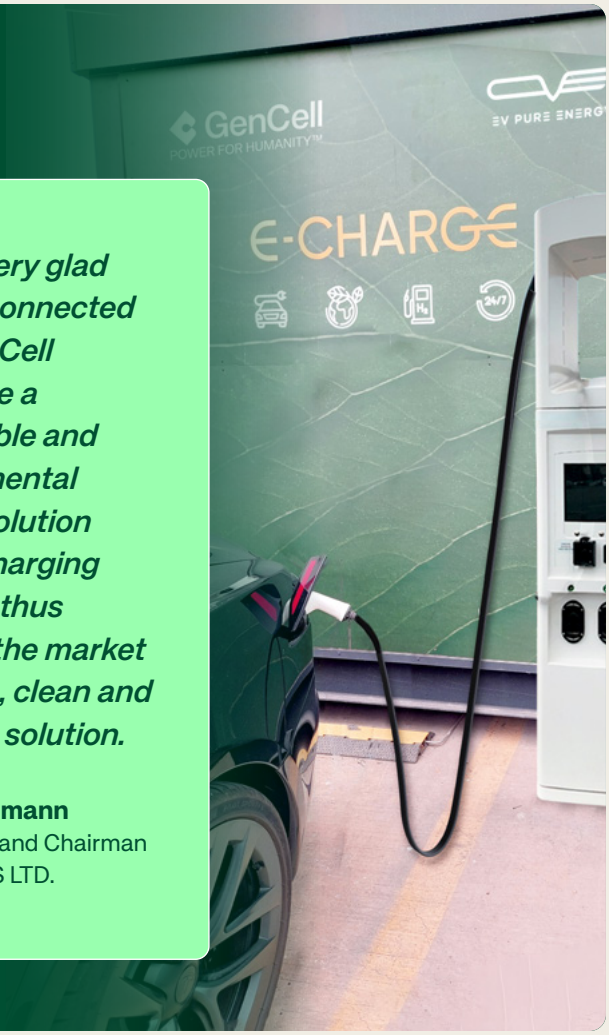
— Our embedded software platform connects, configures, monitors and controls GenCell products locally or remotely.

- ↳ Built-in web server to monitor and control all units
- ↳ Automated online reporting to keep you on track
- ↳ Compatibility with common industrial protocols for connectivity to other systems in use
- ↳ Smart security and notifications

EVOX IN THE FIELD:

GENCELL AND E.V. MOTORS PURE ENERGY DEPLOY FIRST AUTONOMOUS HYBRID OFF-GRID EV CHARGING STATIONS

EV MOTORS



We are very glad to have connected with GenCell to provide a sustainable and environmental energy solution for our charging stations, thus offering the market a reliable, clean and effective solution.

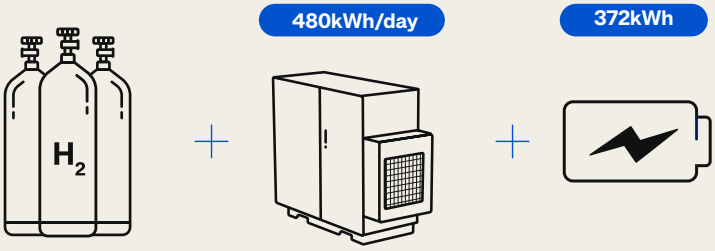
Ohad Seligmann
Co-founder and Chairman
EV MOTORS LTD.

Two configurations:

240kWh/day

480kWh/day

372kWh



Hydrogen + **Alkaline Fuel Cell** + **Energy Storage**

TECHNICAL SPECIFICATIONS

Input Parameters	
AC Frequency	60Hz
AC Voltage	480V 3P4W, 181A or 208V 3P4W, 250A
Power Factor	0.95
Output Parameters	
Rated Output Power	382kW to 532kW
EVSE Output Voltage	277/480VAC 3-phase
Additional Power Output	120VAC and 240VAC
Emergency External Power	220VAC
Battery System Parameters	
Rated Output Real Power	372kW
Rated Output Reactive Power	372kVAR
Rated Output Apparent Power	372kVA
Energy	372.5kWh
Chemistry	Lithium Iron Phosphate
Nominal DC voltage	1331.2V
DC Voltage Range	1164.8-1497.6V
Rated Charging/Discharging Current	280A
Power Factor Range	'-1.0 to +1.0
Cooling Mode	Liquid Cooling
Environment Parameters	
Operating Temperature	-20C to 45C (4F to 113F)
Storage Temperature	-20C to 55C (4F to 131F)
Humidity	10% to 95%RH, non condensing
Altitude	2500m (8200ft)

Noise Level	<64dB
Emissions	Heat, water, vapor
Fuel Cell Parameters	
Fuel Type	Hydrogen Gas 99.95% or higher
Specific Fuel Consumption	< 70 g/kWh
Energy Production	240kWh Daily Capability
Fuel Storage	External Cylinders
Electrolyte	28-32%
Mechanical Parameters	
Dimensions (L X W x H meters)	6.058 x 2.438 x 2.373m
Weight (kg)	12700.6 kg
Safety Parameters	
Fire Suppression System	Fire Detector, Smoke Detector & Fire Extinguisher
Hydrogen	Hydrogen Safety System
Certifications and Compliance	
FC Safety	IE/EN 62282-3-100
Info Tech Safety	IEC 60950-1
Machinery Safety	IEC 60204-1
Electrical Appliance Safety	IEC 60335
RFI Distrubances	EN55011
EMC Immunity	EN61000-6-2
UL Report	UL 9540 Certification
Lithium Battery	UN38.3
Lithium Battery	UN3536

UL 9540

ABOUT GENCELL

GenCell Energy (TASE: GNCL) develops GreenFSG power solutions based on reliable, zero-emission alkaline fuel cells, Hydrogen2Power™, Ammonia2Power™ and Water2Power™ technologies that deliver uninterrupted power to help the world #SayNoToDiesel and transition to clean energy.

The ability to produce not only clean power from GenCell's fuel cells, but also the green fuel on which the fuel cells run, sets GenCell in a far superior position as a well-to-wheel total green energy solution provider.

GenCell delivers resilient, robust and weather-resistant backup power for utilities, telecom, EV charging and other mission-critical applications which have been deployed in 23 countries. Going ahead, we are designing an ammonia-based hydrogen-on-demand solution to provide economical primary power for off-grid and poor-grid sites, as well as for rural electrification.

GenCell numbers some 150 employees, including veterans of space and submarine projects. The Company is headquartered in Israel with a worldwide distribution and support network and retains unique intellectual property that includes patents, trade secrets and know-how.

CONTACT US

GENCELLENERGY.COM
TEAM@GENCELLENERGY.COM