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OUR COMPANY

About GenCell



GenCell (GNCL) trades on TASE



Founded in 2011 80 employees **HQ** Israel



Deployed in 18 countries





Revolutionary process for hydrogen on demand from ammonia



Unique intellectual property - patents, trade secrets and knowhow

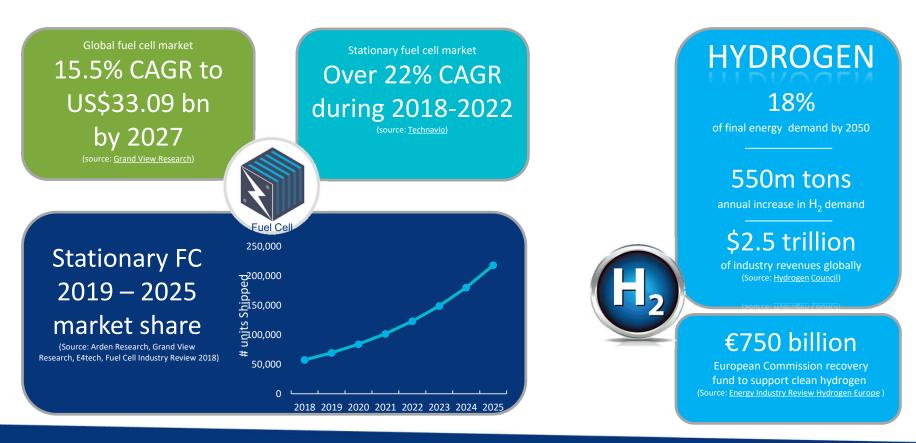


Develops innovative alkaline fuel cell technology



Reliable and cost-effective backup power solutions

THE TIME FOR HYDROGEN & FUEL CELLS HAS ARRIVED

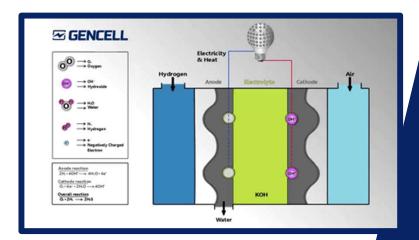




KEY ADVANTAGES OF GENCELL'S ALKALINE FUEL CELL TECHNOLOGY

- Highest electrochemical efficiencies among the known fuel cell types
- Resistance to extreme weather conditions
- Non-noble catalyst
- Regenerative CO2 scrubber technology
- Use of ammonia as a low-cost source of hydrogen, ammonia cracking and catalyst technologies









WEEKLY NEWS



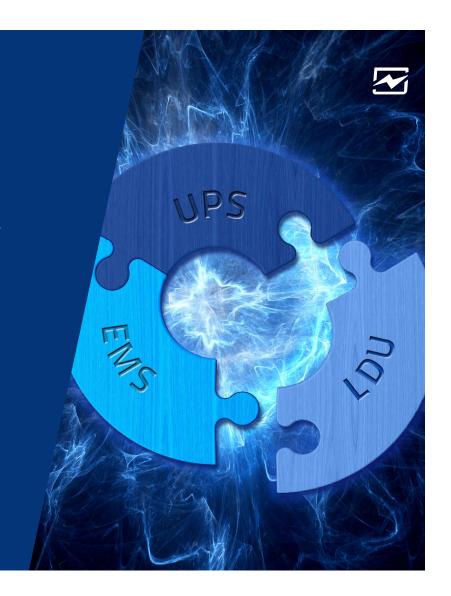
CONTINUOUS BACKUP POWER PROTECTS MISSION-CRITICAL EQUIPMENT, OPERATIONAL PROCESSES AND LIVES

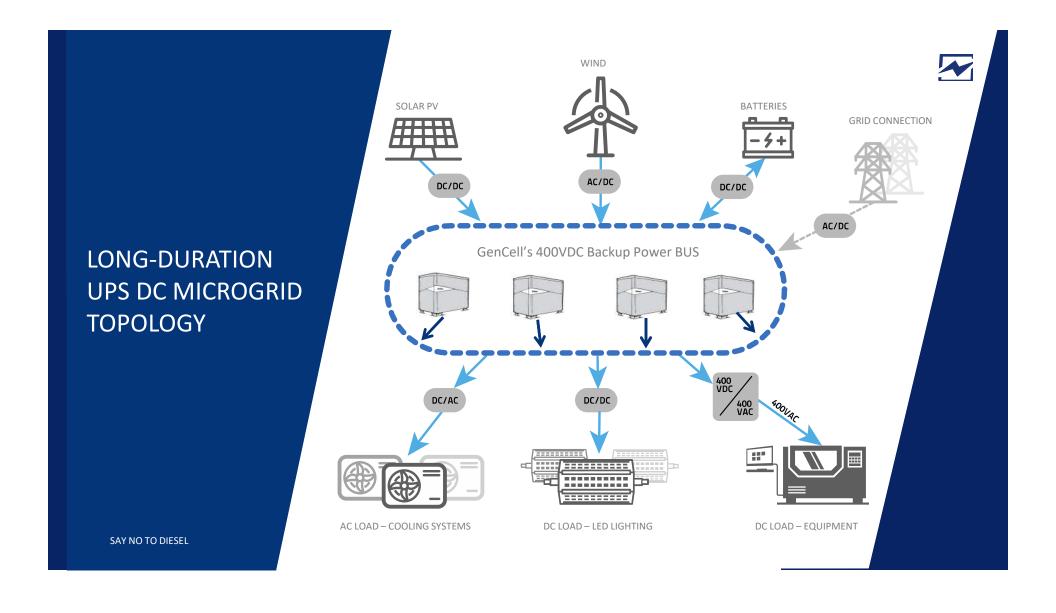


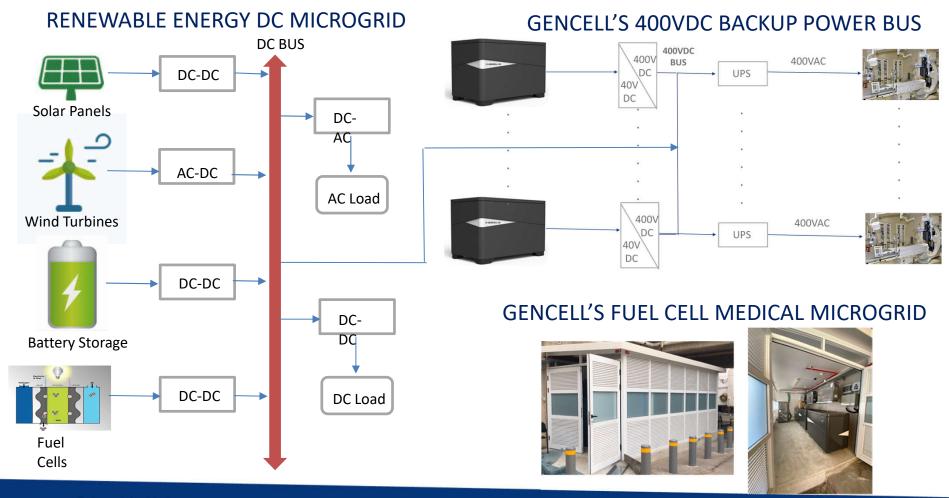
UPS DEVICES PROTECT MISSION-CRITICAL ASSETS FOR ONLY MINUTES:

Complementary Alkaline Fuel Cells Enable Long-Duration UPS (LDU) for Hours and Days

TARGETED ENERGY
MANAGEMENT FOR
OPTIMIZED CLEAN POWER
ACROSS DC MICROGRIDS

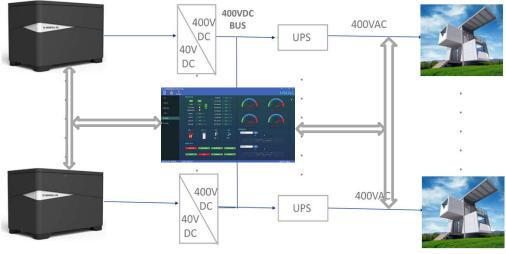






RENEWABLE ENERGY DC MICROGRID

Reliable microgrids incorporate hybrid combination of intermittent solar and wind, EMS software, short-duration batteries and long-duration fuel cells...



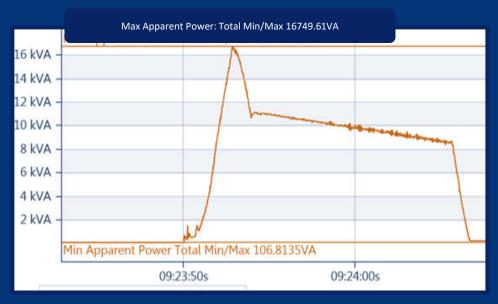






KEY FEATURE: DYNAMIC LOAD MANAGEMENT

Targeted energy on demand delivers energy as needed to critical assets – AC and DC – ensuring robust, smooth and uninterrupted power for multiple critical loads for any duration





KEY FEATURE: SEAMLESS POWER TRANSITION

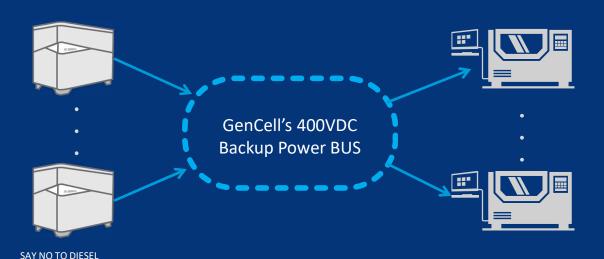


In event of outage, failsafe backup kicks in immediately, every time



KEY FEATURE: N+M REDUNDANT CONNECTIVITY

- Redundant stacks for failsafe operation of the fuel cell
- Multiple redundant fuel cells add second layer of protection
- Modular, scalable solution can be easily adapted to dynamic power requirements





HYDROGEN'S COMPARATIVE ADVANTAGE

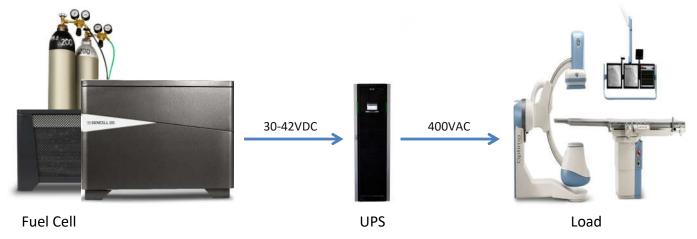
- Efficient hydrogen fuel supply logistics
- Extending the duration of the UPS devices with batteries would entail enormous cost, weight and space
- Future plan: extraction of hydrogen from liquid ammonia stored on-site will exponentially reduce cost of hydrogen storage and logistics



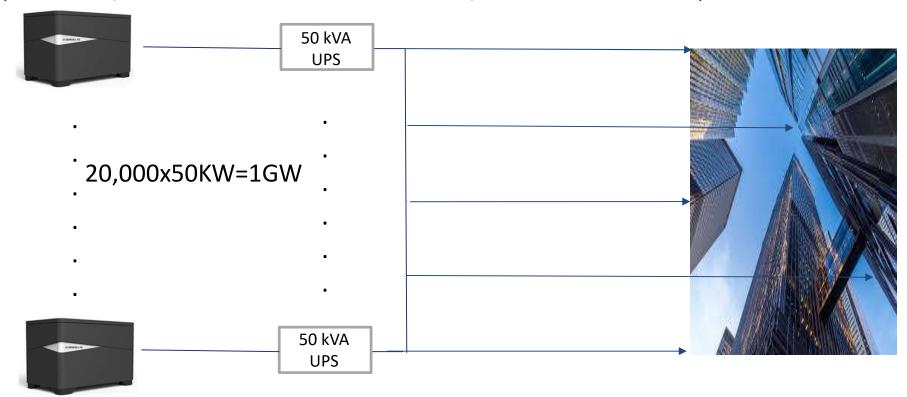


GENCELL'S LDU SOLUTION PROTECTS CARDIO-CATHETERIZATION UNITS AT GREEN STANDARD HOSPITAL

Long Duration UPS (LDU), enabling "Targeted Energy Management" with a lean and scalable solution combining our Alkaline Fuel Cells, UPS and EMS to orchestrate dynamic loads and optimize critical power systems to keep them running no matter what, such as in catheterization units at a green standard hospital in Israel.

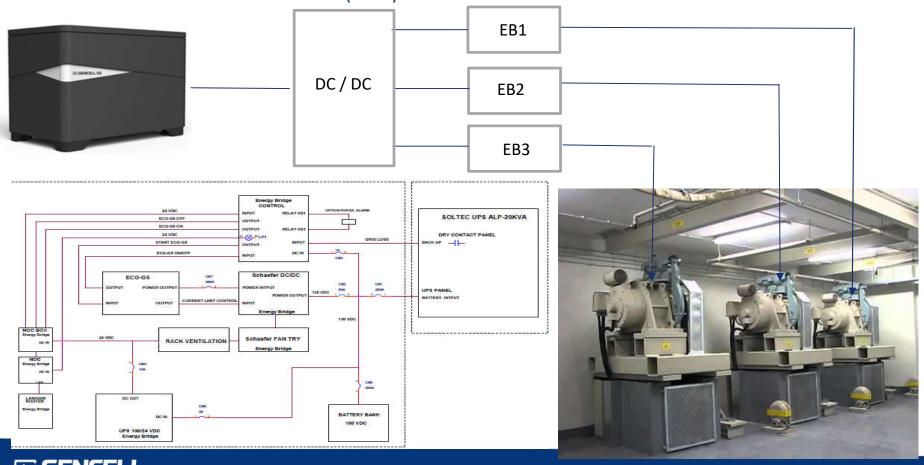


GENCELL'S LONG-DURATION UPS (LDU) CAN PROTECT HIGH-RISE RESIDENTIAL BUILDINGS (50 FLOORS, 1 UNIT PER FLOOR = 1000KVA PEAK, 250KVA CONTINUOUS)



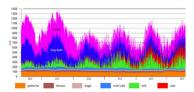


GENCELL'S LONG-DURATION UPS (LDU) SUPPORTS DIVERSE DYNAMIC LOADS



GENCELL'S LONG-DURATION UPS (LDU) SUPPORTS DISTRIBUTED POWER ENERGY CLOUD (MICROGRIDS) ANYWHERE

Renewable Energy Production



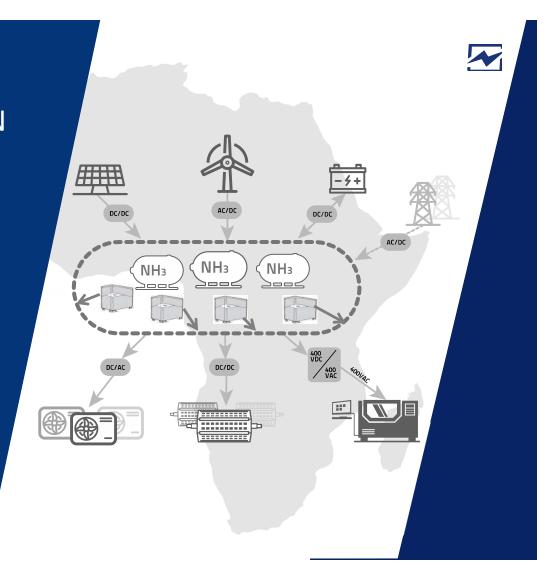
- Balance peaks from renewables
- Continuous backup for critical resources





GENCELL A5™ OVERCOMES CHALLENGES OF HYDROGEN INFRASTRUCTURE WITH LIQUID AMMONIA

- The GenCell A5 off-grid power solution extracts hydrogen from liquid ammonia
- A single 12–15-ton tank of ammonia provides enough fuel for a year of 24/7 operation
- Ammonia makes Targeted Energy
 Management long-duration UPS solutions accessible to multiple regions and use cases in any grid conditions



KEY BENEFITS OF GENCELL LDU



999%







End Dependence on Diesel

"Five Nines" Reliability Little to No Maintenance Certified & Compliant with Zero-Emissions

Targeted Energy Network for Efficient & Reliable Load Management

KEY TAKEAWAYS:

Long-duration UPS revolutionizes backup power for scalable microgrids

- COVID proves the importance of agile backup power
- Hydrogen enables reliable, scalable, cost-efficient & clean microgrids
- Targeted Energy Management open to OEM equipment manufacturers of any device and diverse applications
- LDU + UPS + EMS > cost-effective, clean energy loop



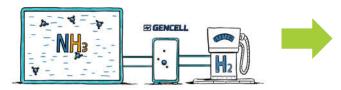
LOOKING AHEAD: ALKALINE FUEL CELLS FOR TRANSPORT



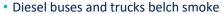
Challenge Solution Markets











- Li-Ion buses have limited range and long recharging time
- H2 infrastructure will cost billions (\$)

- Crack ammonia to create H2
- Bypass the H2 infrastructure

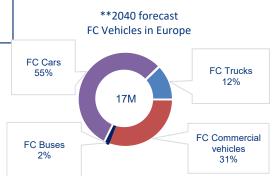
Pump H2 into buses and trucks

hicles will drive an irreversible FC Cars 55%

The combination of electric battery and fuel cell vehicles will drive an irreversible transformation of the mobility sector, to the extent we've not seen since Henry Ford pushed the 'Model T' upon the horse and carriage market in 1908.

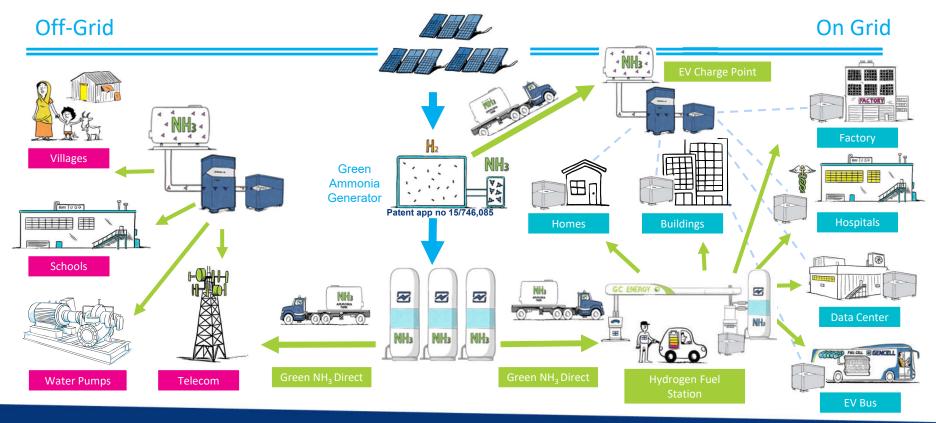
- · Source : Bekryl Market Analysts, 2018
- **Source: Rethink Energy , 2020







Our Vision: Green Ammonia to Drive Power Across the Energy Cloud





REALIZING OUR VISION — ISRAEL & THE NETHERLANDS

- GenCell's Energy Cloud meets Dutch Hydrogen Valleys
- GenCell Seeks Dutch Partners for:
 - Replicating GenCell LDU at Dutch Hospitals
 - Replicating Innovathuis/InnovationHub in Israel
 - Joint Industrial R&D Consortia with EC Funding to Develop Alkaline FCEV & Fueling Stations
 - Collaboration between GenCell FCs & Dutch ammonia
- Joint entity vis-à-vis Hydrogen Europe/Mission Innovation



