



PROTECTING SECURITY AND QUALITY OF LIFE FOR THE GALIL ELION REGIONAL COUNCIL

"The GenCell fuel cell solution is rather unique. Unlike diesel generators we've used before, it doesn't expel any exhaust fumes – just heat and water. Because of this, it can be brought inside a bunker and be properly protected from direct missile strikes. This has huge and fundamental operational advantages for us. It's **game-changing technology** for the HLS market and I can see wider use of GenCell's technology across Israel."

Giora Zals,
Head of Galil Elion
Regional Council

GenCell G5 FUEL CELL BACKS UP REGIONAL COUNCIL'S OPERATIONS CENTER AGAINST EMERGENCIES

The Galil Elion Regional Council is situated in the most Northeastern area of Israel along the country's border with Lebanon; including in its jurisdiction 29 towns, kibbutz communities and farms and some 18,300 inhabitants, the region is largely rural and serves as a popular area for hiking and tourism.

KEY BENEFITS

- The GenCell G5 ensures continuous, uninterrupted power during outages to maintain critical operations and emergency services
- Noise, fume, exhaust and vibration-free, the G5 can be safely placed inside an inhabited bomb shelter
- Secures quality of life and ensures peace of mind

KEY CHALLENGES

Because the region is located in close proximity to the border in a sensitive area in terms of security, emergency preparedness is an especially acute concern. The Regional Council places highest priority on securing its residents and facilities and protecting their quality of life. Ensuring backup power in the event of a power outage to keep the council's critical operations and emergency services running without interruption is critical for ensuring public calm and confidence.



"With threats right on our borders, a solution like the GenCell G5 provides great peace of mind for the Galil Elion Regional Council. While we hope never to need it, we know from our own rigorous field testing that the GenCell G5 will kick in whenever needed and enable us to function properly throughout any situation."

Giora Zals,
Head of Galil Elion
Regional Council

Experienced from past missile strikes, the Council set a requirement that the power source suit a protected space within a bomb shelter; this prerequisite established strict restrictions in terms of the generator's size, noise and emissions, limitations which standard diesel generator backup solutions could not meet.

GenCell collaborated with Israel's National Emergency Management Authority and Israel Military Industries to build a reliable solution for Galil Elion that would meet their needs in times of emergency. The Regional Council installed a GenCell G5 fuel cell to ensure operational continuity for its emergency command and control center. Placed in a unique bomb shelter that can withstand a direct hit from a missile with a one-ton warhead, the G5 ensures highly reliable and immediately available power in case of grid outages, missile attacks or earthquakes.

In the event of power loss, the G5 automatically starts to generate power for uninterrupted operation of critical systems including telephone communications, computers, lights and air conditioning of the command and control center and adjacent bomb shelter. Six hydrogen cylinders alongside the G5 ensure fuel for 48 hours of power. This provides not only the power needed to keep the Council operational during any impending threat, but also ensures that it can manage post-attack operations. The GenCell G5 can also support the critical power points for key infrastructure to keep the community running.



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