



GUARDIARIS
Train The Brain.

.|| CERASYNTH
BY GUARDIARIS

SOFC SOLUTIONS

Next-generation solid oxide fuel cells
for military camps and off-grid installations.



"Silent. Reliable. Ready."

DEPLOYABLE CLEAN ENERGY

Cerasynth's **Solid Oxide Fuel Cells (SOFC)** deliver reliable, emission-free power for military camps, off-grid installations, and field hospitals. Built for demanding operational environments, the systems are compact, mobile, silent, and energy independent.

This is achieved by using high-performance in-house engineered ceramic solutions with superior thermal, mechanical, and electrical properties.



APPLICATIONS

Military camps and forward operating bases

Mobile hospitals and field installations

Off-grid remote infrastructures

Microgrids integration with other renewable sources

FEATURES

- High efficiency (Up to 60%)
- Silent operation with a low IR footprint
- Zero CO₂ emissions
- **Modular and scalable:** 2 kW and 8 kW units to container-sized systems
- **Fuel flexibility:** hydrogen, methanol, methane, ammonia, CO
- **Emergency fuel modes:** diesel, jet fuel, gasoline
- **Combined heat and power:** heat exhausts for hot water, heating, cooking



Hydrogen fuel to electricity conversion process.



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