

# THE CFF SWISS ARMY KNIFE

One National Infrastructure. Six Essential Tools. Total UK Resilience.



## The Grid Blade

**Scenario:** Dunkelflaute (No wind/sun + Cold Spike).  
**Action:** "Safe-Flex" ramp-down of PEM units to 50% load.

**Result:** 40 GW of firm nuclear power injected to the grid instantly. Enough to power the entire UK peak demand.



## The Fuel File

**Scenario:** Global Oil/Gas Price Shock.  
**Action:** Maintain 100% UK-made Hydrogen production.

**Result:** 39,200 Tonnes/day of H<sub>2</sub> at a fixed "British Standard Price." Decouples the UK economy from foreign energy markets.



## The Water Saw

**Scenario:** National Drought / Crop Failure.  
**Action:** Activate "Unit 8" Strategic Water Reserve.

**Result:** 1.4 Million m<sup>3</sup>/day of fresh water. Supplies 9–11 million people or de-couples UK food production from rainfall.



## The Health Needle

**Scenario:** Pandemic or Medical Oxygen Shortage.  
**Action:** Divert 100% of electrolysis by-product to the state.

**Result:** 28,000 Tonnes/day of high-purity Oxygen delivered FREE to the NHS. Zero procurement cost for life-saving gas.



## The Winter Scrapper

**Scenario:** Severe Freeze / Motorway Gridlock.  
**Action:** Process desalination brine into road-salt/liquid grit.

**Result:** Thousands of tonnes of high-grade brine delivered FREE to Councils and communities within 10 miles. Keeps the UK moving without taxpayer grit bills.



## The Industry Pliers

**Scenario:** Global Critical Mineral Scarcity.  
**Action:** Extract Lithium and Magnesium from brine effluent.

**Result:** Domestic supply of battery-grade minerals. Powers the UK tech sector and creates a circular industrial economy.

**The State-Owned Advantage:** Because the People of the United Kingdom own the "Knife," the government can choose which tool to deploy every morning based on the nation's needs — not a shareholder's profit margin.

**92.1 GW**

TOTAL POWER

**~40 GW**

GRID FLEX

**1.4M m<sup>3</sup>**

DAILY WATER

**100%**

UK-OWNED