

ENERGY STORAGE REVOLUTION

ENABLING A SMARTER, GREENER, STRONGER TOMORROW.

Our advanced supercapacitor ENCAP & ENPACK technologies deliver unmatched performance for today's demanding and tomorrow's sustainable energy needs.

RENEWABLE ENERGY

Storing clean energy for a sustainable future

INDUSTRIAL APPLICATIONS

Reliable backup power and peak power solutions

TRANSPORTATION

Powering EVs, buses, railways and marine applications

SMART GRID & UTILITIES

Stabilizing grid, ensuring power quality & reliability

ADVANCED SUPERCAPACITOR TECHNOLOGY

BUILT FOR PERFORMANCE. ENGINEERED FOR THE FUTURE.

- HIGH POWER DENSITY**
Delivering superior energy & power in compact size
- WIDE OPERATING TEMPERATURE**
Reliable performance in extreme conditions
- ZERO MAINTENANCE**
Hassle-free operation with long life
- SAFETY FIRST**
Environmentally safe & built with advanced protection
- ULTRA FAST CHARGE/DISCHARGE**
Seconds to charge, high efficiency always
- LONG LIFE 500K+ CYCLES**
Built to last, lower TCO, greater value

WHY PARTNER WITH US?

- Global technology partnerships & quality assurance
- Competitive pricing & reliable supply
- Technical support & engineering expertise
- Flexible solutions for diverse industries
- Commitment to sustainability and net zero future

TOGETHER, LET'S BUILD A SUSTAINABLE FUTURE FOR OMAN AND BEYOND.

BE PART OF THE FUTURE OF ENERGY

INNOVATIVE TECHNOLOGY | SUSTAINABLE SOLUTIONS | RELIABLE PARTNER | SHAPING A BETTER TOMORROW

FUTURE OF GREEN ENERGY
OMAN VISION 2040

If your Priority is Safety & Cost Saving for Power Backup !!!

STOP → Lithium Ion Batteries

GO → SUPER CAPACITORS



COMPARISON

	SITUATIONS	SUPER CAPACITOR	LITHIUM ION BATTERY
1.	Fire Hazard / Inflammable	No	Yes
2.	Chemical Process	No	Yes
3.	Bio Hazard	No	Yes
4.	Bio Degradable	80%	No
5.	Recyclable	100% in country	50% to 95% only in plants available in limited countries
6.	Operating Temperature	75C+	45C
7.	Subzero Temperature	-30C	Can't operate in Subzero
8.	Ventilation Required	No	Yes
9.	Air-conditioning	Not Required	Required
10.	Equipment Life	25+ years	Max 5 years
11.	Life Charge Cycles	500,000	3000 to 6000
12.	Charge/Discharge Rate	Extremely Fast	Moderate
13.	Efficiency	Higher initial RTE, (99.1% DC->DC), due to ability to rapidly transfer energy without significant loss	Lithium battery have a starting RTE of around 90-93%, losing energy in charge/discharge cycle as well as a significant loss in efficiency after ~6,000 cycles
14.	Electrostatic, Solid-State Storage	Not Required	Required
15.	Depth of Discharge	100%	Max 85%
16.	Response Time for Critical Systems	Zero Downtime	milliseconds to few seconds
17.	Flight Risk	No	Yes

SOME REFERENCE PROJECTS

Afghanistan.

Backup Power for Hybrid BTS Sites 7.1 kWh Modules at 48V.

UAE (Etisalat Charge & Go)

ENCAP 30kWh Off-Grid EV Charging & Storage Solution

BESS in Turkey

ENCAP 2MWh-2MWh Grid Stabilization & Backup Power

Canada

200 kWh 500 Vdc Rack Based Solution UPS Application, ENRACK System in Canada

Saudi Arabia.

40Kw - 40'ft Container

Angola Telecom Site - Angola, South Africa

AT&T Off-Grid Solar Site, California - USA

AT&T

Spearheaded a groundbreaking project in collaboration with AT&T, focusing on enhancing the efficiency and sustainability of off-grid sites in California, USA.

ENPACK 2MWh, Off-Grid

Camp Site. Location: Sahil, Abu Dhabi.

BESS in Turkey

ENCAP 2MWh-2MWh Grid Stabilization & Backup Power

PTCL - BTS Site - Pakistan

Etisalat Off-Grid Solar Site, UAE

Solar Hybrid Application at Etisalat Off-Grid Solar Site

20'ft ENPACK Containerized Energy Storage System, USA ENPACK 500KW-500KWh 20'ft

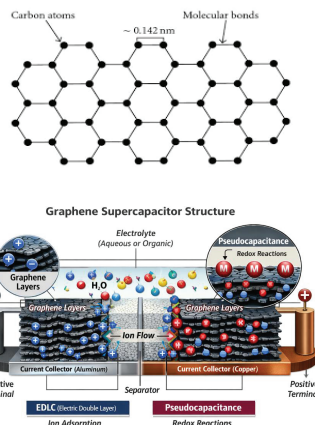
Our Partners



Emtel Energy's Supercapacitors, developed with **Enercap Power Industries LLC**, are based on Encapsulated Hybrid Graphene, Solid State, and Tantalum Capacitor (ENCAP) technology. Unlike conventional lithium-ion batteries that rely on chemical reactions, these cells operate electrostatically, offering 500,000+ life cycles. Supercapacitors (also called ultra-capacitors) are advanced energy storage devices that bridge the gap between traditional capacitors and batteries, offering extremely fast charging/discharging, high power density, and long cycle life. They are increasingly used in renewable energy systems, electric vehicles, and portable electronics.

What is Graphene?

Graphene is a single layer of carbon atoms arranged in a hexagonal honeycomb lattice, making it the thinnest material known while also being one of the strongest, most conductive, and most versatile. It is 200 times stronger than steel, conducts electricity better than copper, and is nearly transparent.



Why Graphene is Special

- High Surface Area: ~2630 m²/g, much higher than activated carbon, allowing more charge storage.
- Excellent Conductivity: Electrons move quickly across graphene sheets, enabling rapid charging/discharging.
- Mechanical Strength & Flexibility: Lightweight, elastic, and durable, making devices compact and robust.
- Eco-Friendly: Carbon is abundant and sustainable compared to rare metals.

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SUPPLY, DISTRIBUTION AND SELLING OF
ADVANCE SUPERCAPACITOR
ENCAP & ENPACK TECHNOLOGY



EMTEL
COMMUNICATIONS
LLC

REVOLUTIONIZING ENERGY STORAGE WITH

Advanced Supercapacitor Technology



EFFICIENT. RELIABLE. SAFE. ENGINEERED FOR THE FUTURE.

**AUTHORIZED SUPPLY & DISTRIBUTION PARTNER FOR
ADVANCE SUPERCAPACITOR ENCAP & ENPACK TECHNOLOGY**



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REGIONAL REACH
GLOBAL IMPACT

OUR BUSINESS STRUCTURE



MANUFACTURER
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supercapacitor ENCAP and ENPACK
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