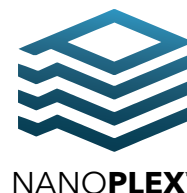


HIGH-ENERGY NANOPLEX CAPACITORS FOR FUSION, POWER GRID, AND ELECTRIC VEHICLES



What is a High-Energy Capacitor?

A capacitor is a storage unit for electrical charge, holding and releasing energy into electronic circuits. Unlike batteries or wall plugs, which function at a specified voltage, capacitors can store power from multiple sources and regulate and adjust the power to release energy in large or small bursts to accomplish different tasks.

ENERGY

STORAGE & CONTROL

Capacitors store energy and control how much energy is distributed from a power source. They can deliver electrical energy faster than batteries to power an EV motor, drive magnets, or produce fusion power with a laser.

VOLTAGE

DELIVERY & REGULATION

Capacitors help control voltage in electronic circuits. This is essential to ensuring stable and reliable delivery of power to household and industrial consumers, maintaining high-power line transmissions, and integrating renewable energy into the US power grid.

PULSED

POWER DELIVERY

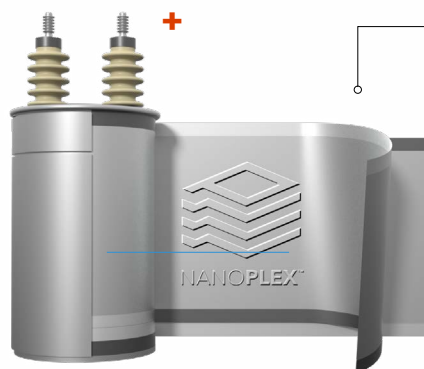
Certain applications require large bursts of energy, which high-energy capacitors can provide. This is particularly useful for driving electric vehicles, powering fusion energy, launching planes from aircraft carriers (EMALS), and medical applications, such as defibrillators.

Connection Terminals

- Power connectors for power grid, fusion systems, electric vehicles, and EMALS

Capacitor Housing

- Multiple form factors
- Environmental protections
- Emissions controls



Internet of Things Controls

- Provides analytics data for AI
- Centralized management
- Predictive maintenance

NanoPlex Capacitor Films

- High-energy storage
- High-temperature tolerance
- Longer operational lifetime

FOUR FILM FACTS

>70%

OF CAPACITOR FILMS
"MADE IN CHINA"

EVs

WORLDWIDE REQUIRE
MILLIONS OF
CAPACITOR FILMS

\$400B

MARKET FOR US
MANUFACTURING

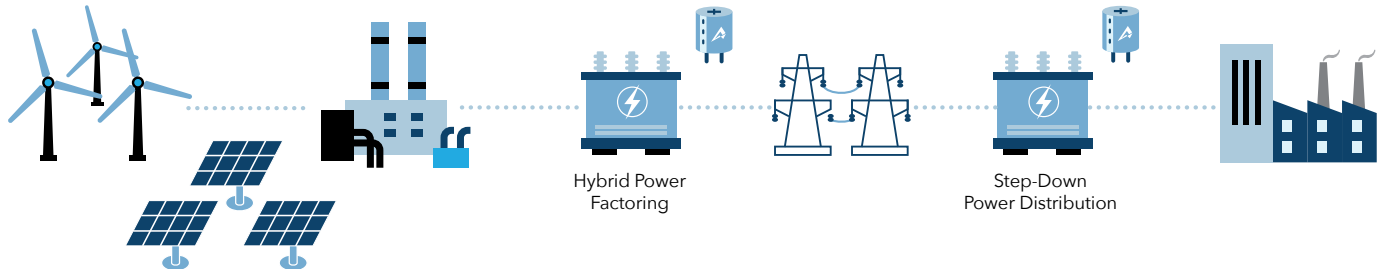
FUSION

EACH SYSTEM REQUIRES
MILLIONS OF
CAPACITOR FILMS



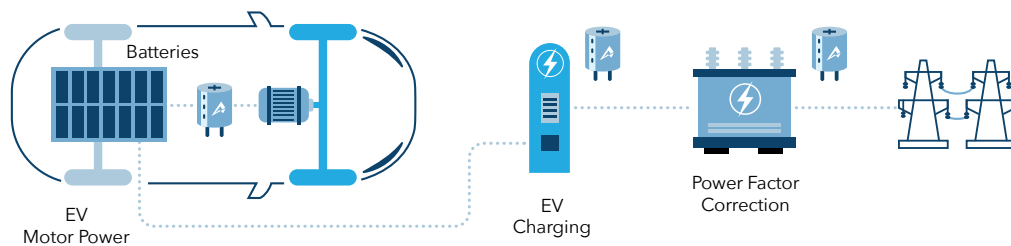
Power Grid - Transmission, Distribution, and Hybrid Power Factoring

High-energy capacitors are used to provide hybrid power factoring. They ingrate power generated by multiple power sources, step them up to a single high-voltage power source (up to 1000 Kilovolts) for long-distance power transition, and then step that power down to 110V and 220V used by most consumers.



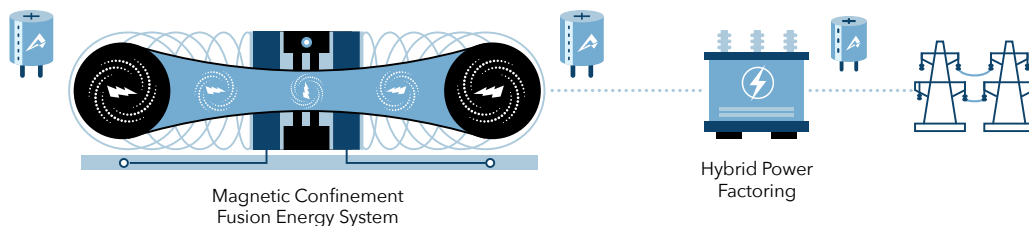
Electric Vehicle Acceleration and Charging

High-energy capacitors are used in ignite the fusion power process for magnetic confinement (tokamaks and stellarators), Inertial confinement (laser), and magneto-inertia (hybrid Laser/magnetic) fusion reactors for to power-producing process.



Fusion Energy Power Generation

High-energy capacitors are used to ignite the fusion power process for magnetic confinement (tokamaks and stellarators), inertial confinement (laser), and magneto-inertia (hybrid laser/magnetic) fusion systems for the power-producing process.



FIVE PEAK FACTS

\$80M

PRIVATE CAPITAL
INVESTED IN OHIO

20

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PROTECTING NANOPLEX

75K^{sq}_{ft}

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1000s

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