



# Flywheel Energy Storage Beacon New Energy

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Beacon Power is building the world's largest flywheel energy storage system in Stephentown, New York. The 20-megawatt system marks a

Beacon Power is developing a flywheel energy storage system that costs substantially less than existing flywheel technologies. Flywheels store the energy created by turning an internal rotor at high speeds

Beacon's proprietary designs are at the heart of a cost-effective and durable energy storage device that enables grids to operate more reliably. Our proven flywheel energy storage systems are helping grid

Project will demonstrate the operation of a matrix of 7 separate flywheels integrated into a 100KW FESS with 15 minutes of electric storage capacity. Control System will monitor and respond to California

Beacon's 20-MW system has been designed to provide frequency regulation services by absorbing electricity from the grid when there is too much, and storing it as kinetic energy in a matrix of flywheel

Beacon flywheel storage provides reliable and cost-effective solutions to intermittency issues associated with renewable power. Beacon flywheel storage increases the amount of wind and solar power that

Beacon Power is building the world's largest flywheel energy storage system in Stephentown, New York. The 20-megawatt system marks a milestone in flywheel energy storage

GRIDS Project: Beacon Power is developing a flywheel energy storage system that costs substantially less than existing flywheel technologies.

Unlike lithium-ion batteries storing energy chemically, Beacon's flywheel system uses kinetic energy. A carbon-fiber rotor spins at 16,000 RPM in a vacuum chamber, achieving 98% round-trip efficiency.

Gen4 flywheel is designed to provide 100 kW of output and store 25 kWh of energy. Two hundred flywheels will be connected in arallel to provide 20 MW in capacity and can fully respond in less than



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