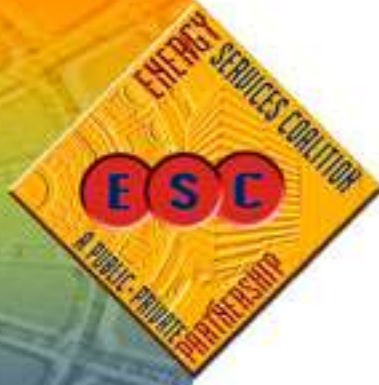


Emerging Technologies/Strategies for ESPC Projects



Discussion Today



Energy Storage Solutions

- Utility Scale Storage
- Commercial Building Storage
- Long and Short Duration Discharge Energy Storage Applications

Power Control Systems

- Commercial Building Power Control for AC and DC Inputs and Outputs
- Micro-grid Systems
- Island Power Systems
- Indoor / Outdoor

Grid Power Quality and Reliability

- Increase Renewable Energy into the Grid without Instability
- Power Conditioning
- Voltage and VAR Control

Kinetic Energy Recovery Systems

- Increase Fuel Economy and Reduce Emissions of Commercial Vehicle Fleets
- Retrofittable to Extend and Improve Performance of Existing Fleet

Primary Business

Design of systems that easily integrate any generating source or combination thereof, such as:

Grid

Solar

Hydro

Micro
Turbines

Diesel
Generators

Wind

Ultra Caps

To Provide...

🌐 Continuous AC and DC Power

🌐 Demand Charge Reduction

🌐 Supply Response

🌐 Grid Backup

🌐 Peak Rate Shaving

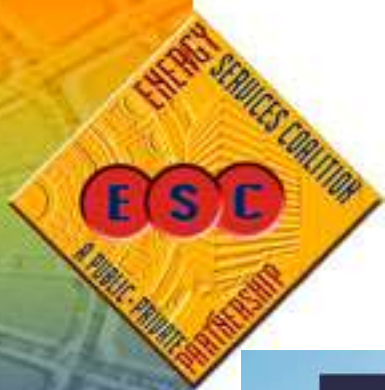
🌐 Storage of Energy

🌐 Renewables Firming

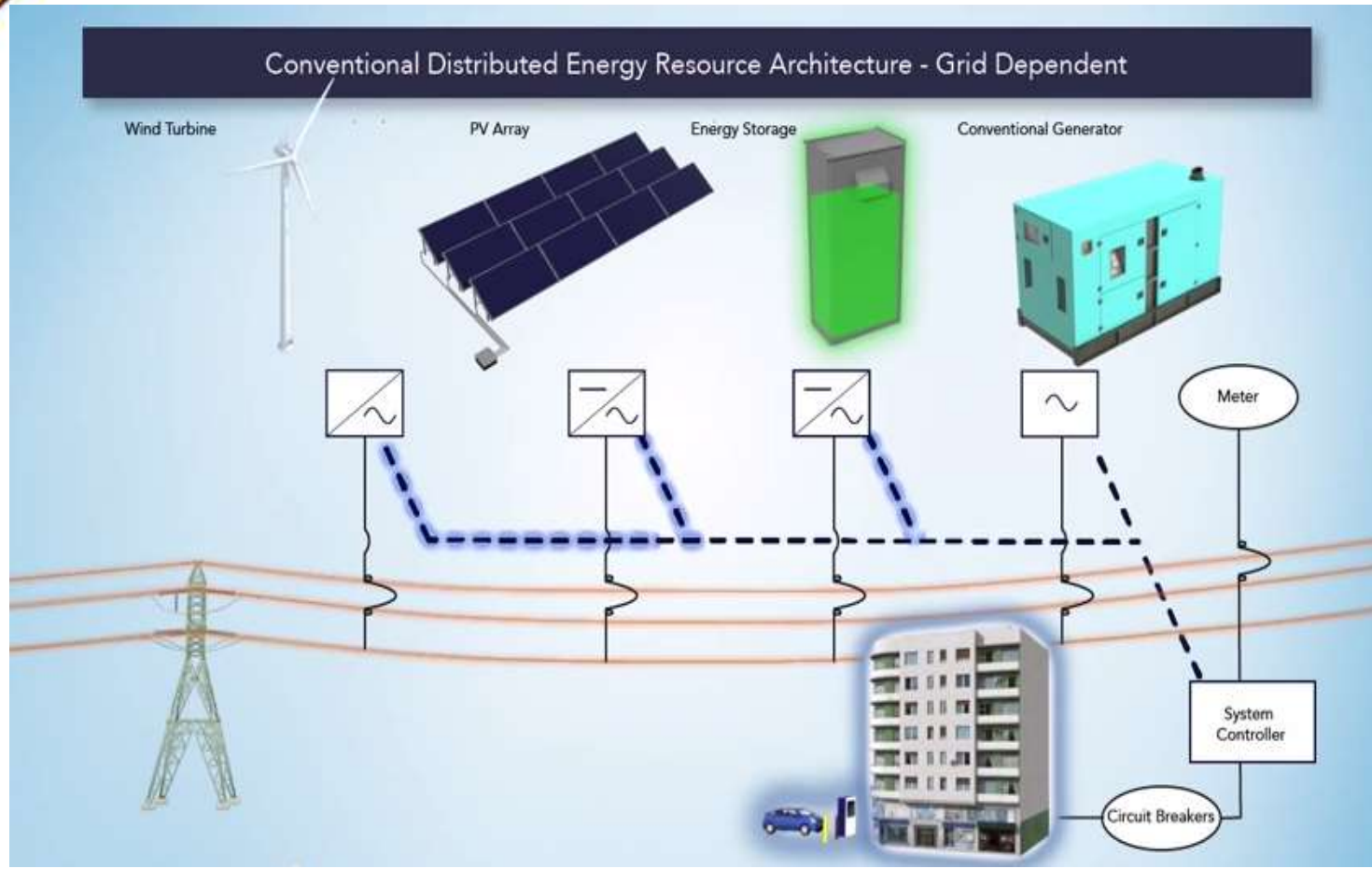
🌐 Off Grid Capability

🌐 Modular, Scalable Platforms

🌐 Power Quality



Conventional Architecture

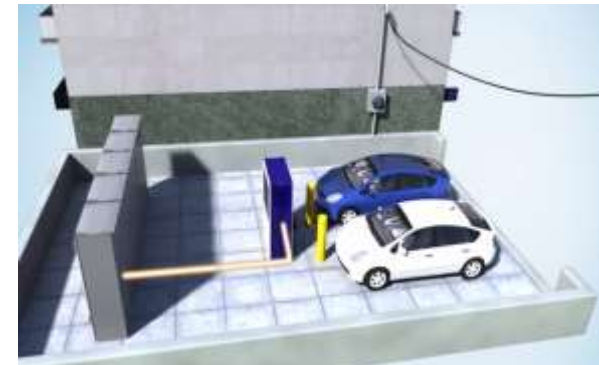




Micro Grid in a Box

A resourceful and intelligent router ... sensing, pivoting and collecting from multiple sources of power, leveraging renewables, the grid and energy storage

Seamlessly integrate AC and DC inputs to power AC and/or DC loads



Easily Integrate Fast EV Charging



Data Driven Optimization

Monitor, collect and understand the costs associated with power derived and power delivered

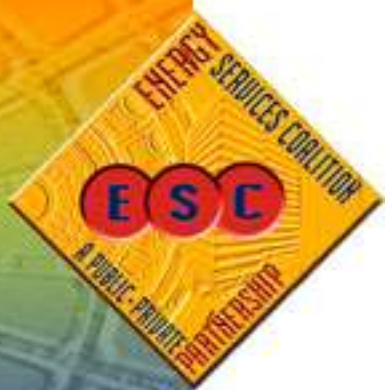
Prioritize and optimize all generating, storage and grid resources

Always take advantage of the most cost-effective and reliable power

Supply Response!



Sample Projects / Applications



DataCenters



Military Micro Grids



Multi-Tenant



Island Power



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