

An aerial night view of a city, likely New York City, featuring the Empire State Building prominently on the right. The image is overlaid with a white network of lines and glowing nodes, suggesting a microgrid or smart city infrastructure. The text 'Schneider Electric Microgrid Solutions' is centered in the middle of the image.

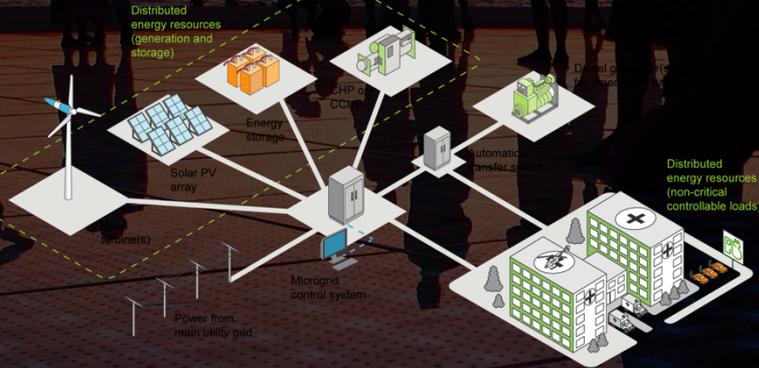
Schneider Electric Microgrid Solutions

Life Is On

Schneider
Electric

What is a Microgrid?

A local electrical distribution network with **Distributed Energy Resources(DER)**: generation, storage and flexible loads interconnected and coordinated by **intelligent management systems** ...



generation + storage + flexible loads



Sustainability

Reliability / independence

Savings and earnings

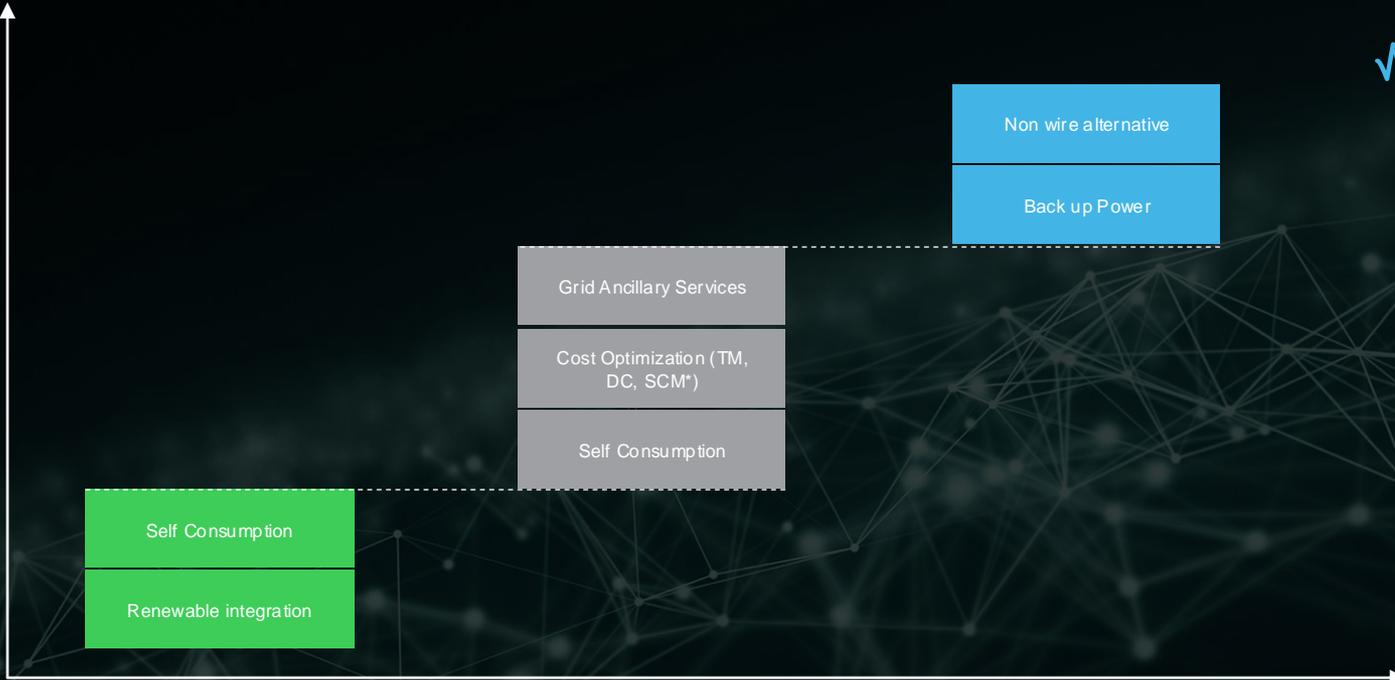
Microgrid use cases & values

 Sustainability

 Economic performance

 Resilience & independence

Customer Value



Reduce your scope 2 emissions...

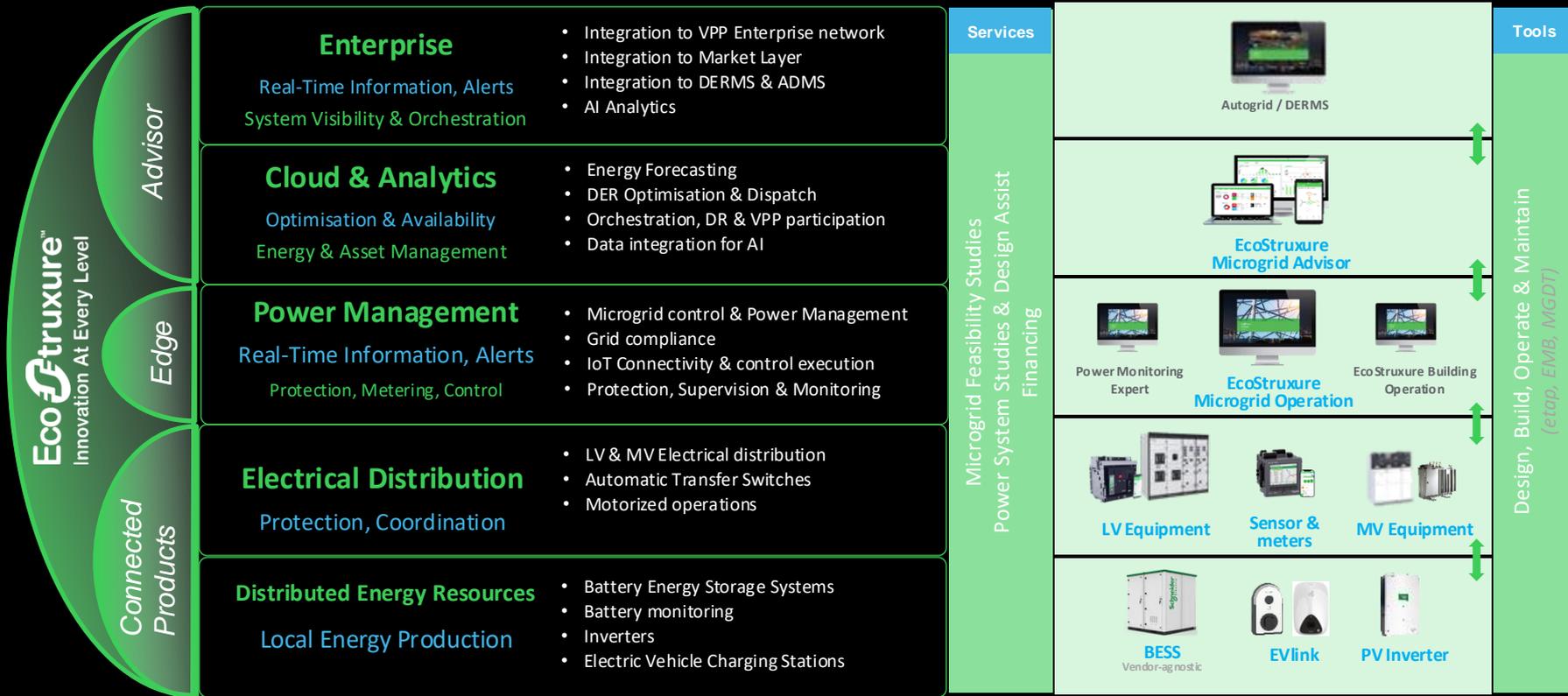
...Master & optimize your costs on the long run...

...Reduce your reliance on the grid

Use cases



Schneider Electric provides the fully integrated Microgrid Solution stack



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Use cases overview

EcoStruxure Microgrid Advisor
Use Cases

EcoStruxure Microgrid
Operation Use Cases

Savings €



Monitoring & Forecasting



Demand Charge Reduction



Tariff Management



Self Consumption Max.

Earnings €



Frequency containment Reserve /
Fast Frequency regulation



Demand Response

Renewable Integration



Export Management



Sharing strategy

Back up power & safety



Off-grid preparedness



Grid connection management

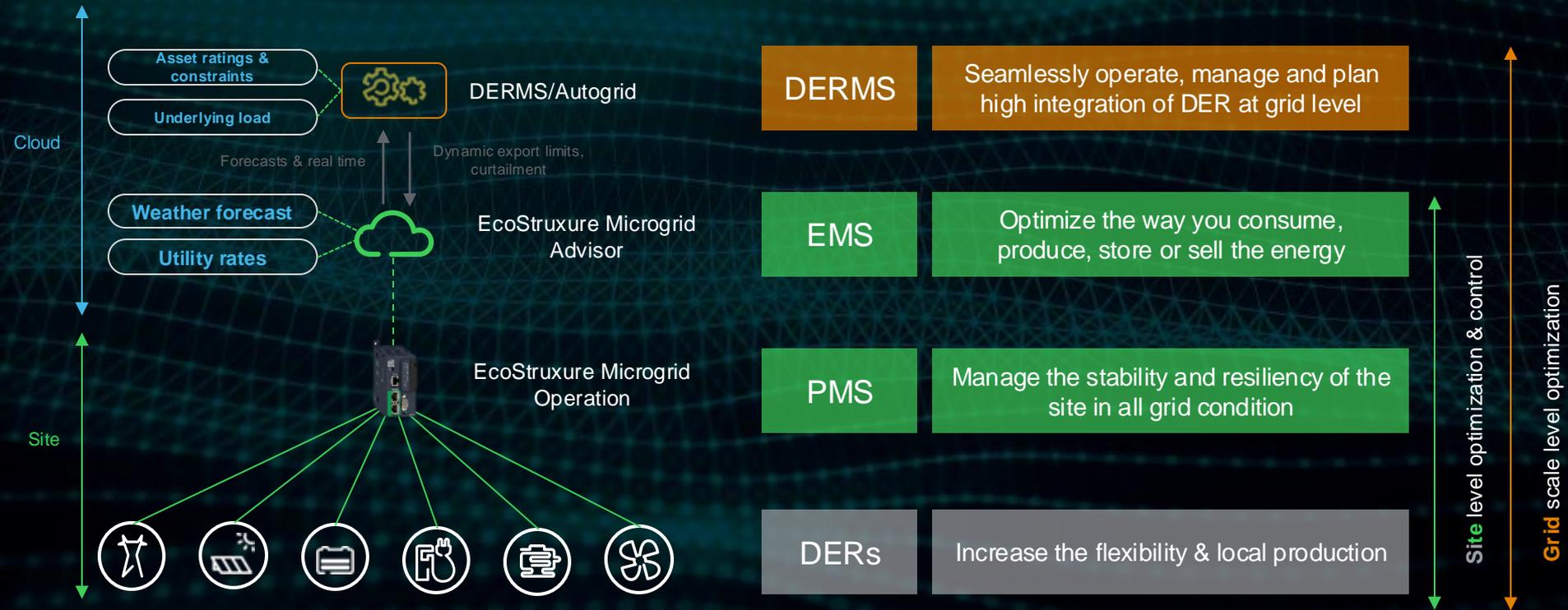


Load sharing and shedding



Protection setting
management

EcoStruxure Solutions for optimal DERs integration



MCAS Miramar

Innovative Resiliency Solution



Customer Challenge

- Ensure resilient power at the base to support over 100 mission critical buildings and the flight line

The Solution

- Construct a system to power mission-critical and support facilities throughout Marine Corps Air Station Miramar in the event of an outage.
- Manage electricity use at the base during peak times when the system is connected to a utility grid thru use of diverse energy sources including 3.2MW landfill gas, 1.6 MW solar photovoltaic, and energy storage systems

Customer Benefits

- Provide support services to the central grid
- Manage overall energy load
- Enhance renewable energy deployment
- Bolster cybersecurity practices base-wide
- Help the installation reduce its utility demand charges
- Facilitate demand response programs

“Partnering with Schneider Electric will help us deliver a sustainable energy solution to enhance energy security for MCAS Miramar mission.”

Bill Van Dyke, President of Special Projects for Black & Veatch

www.schneider-electric.us/microgrid

New system to **power mission-critical facilities** in the event of outage

EcoStruxure™
Innovation At Every Level

Apps,
analytics,
and services

EcoStruxure
ADMS



Edge
control

OsSys SCADA



Power Control
System
Microgrid
Control



Connected
products



Storage

12Kv MV Metal
Clad Switchgear



Power Logic
Meters



BLACK & VEATCH

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