

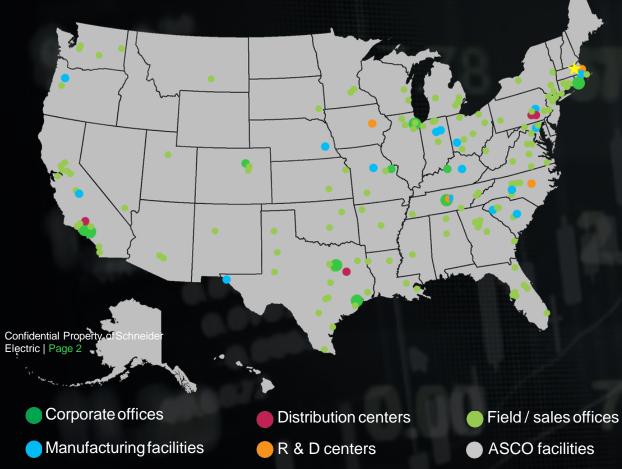
New Energy Landscape Technology + Business Model Transforms Energy

#Microgrid #EcoStruxure



Schneider Electric in the US

Leading the digital transformation of energy management and automation in homes, buildings, data centers, infrastructure, and industries.



Schneider Electric USAHeadquarters 800 Federal St, Boston ONE Campus Andover, MA 01810 <u>se.com/us</u>

\$7.7B in revenues, 2020 ~18,000 employees

Major U.S. sites Dallas, TX, El Paso, TX Boston, MA; Nashville, TN; West Kingston, RI; Lake Forest, CA;

300+ microgrids in the U.S.

Net Zero Carbon by 2025

#1 of Global 500 Most Sustainable Corporations-Global Knights 2020

Acknowledged in CDP's "Global Climate 500 Performance Leadership Index" and "Dow Jones Sustainability Index"



Organizations of all sizes are under growing pressure.

Cost

Transmission and distribution costs in the U.S. have increased 50% over the past decade.

U.S. Energy Information Administration

McKinsey

Sustainability

Businesses are making their own commitments and state governments are setting mandates for 100% clean electricity, covering nearly onethird of the U.S.

> American Society of Civil Engineers

Commercial and

industrial companies

are forecasted to see

power outages through

the end of the decade.

over \$100 billion in

annual losses from

Reliability and CapEx Resilience constraints

Reality has been reset. COVID-19 disruption to the global economy has been sweeping and uneven, with many businesses devastated and a few newly advantaged.

Deloitte

Risk management

To emerge stronger from COVID-19, organizations must identify their most valuable, missioncritical assets and devote more resources to protecting them.

PwC



The technology solution: Microgrid

A local energy system with sources of generation, storage, and advanced automation and control usually connected to the central grid but able to function independently.

The business model solution: Energy as a Service

- Customers face accelerating energy challenges and often lack the resources to address these needs
- Energy as a Service delivers the energy outcomes customers need with no capital upfront or operational risks
- Accomplished through the design, build, ownership, operation, maintenance and financing of onsite microgrids



Montgomery County - Energy as a Service Case Study

Situation



- After a series of wide-spread grid outages, Montgomery County set out to find partners to help mitigate the impact of future disasters to its over 1M residents.
- The community is committed to decreasing carbon footprint
- The electrical infrastructure at the public safety headquarters was old and needed to be replaced before failure.
- The County has tight budget controls and access to capital is difficult Schneider Electric | Page 5

Approach



- Delivered via innovative, publicprivate Energy-as-a-Service model eliminating up-front costs
- Infrastructure upgrades (low- and medium-voltage gear)
- Integration of existing generation assets.
- New Solar and Gas CHP generation
- Advanced controls and monitoring
- Advanced cybersecurity

Outcomes



- Improved resiliency of county operations by upgrading existing aging electrical distribution infrastructure
- Provide the ability to island operations for >7 days without grid support
- Mitigated risk of escalating energy price over 15 years.
- Upgrade infrastructure including new electric vehicle charging without capex
- Reduce greenhouse gas and other emissions

M	larch	۱9,	20	21

The Local

Take Control of Your Energy

California University

TELEVISION

GreenStruxure^{**}

PREPARED FOR California University

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YOUR ENERGY PARTNER



What We've Learned About You

ESTIMATED ANNUAL ELECTRICITY COST



Total Annual Spend	\$1,200,000
Annual Energy Spend	\$780,000
Annual Peak Demand Spend	\$450,000
Cost of Peak as %	38%

All of the information provided in this presentation is an estimate based on public data and will be validated following a detailed site analysis.

California University

ESTIMATED OUTAGES/YEAR



5 Outages

GHG EMISSIONS FROM POWER GENERATION

2,700 Tons



How We Impact Your Business

NEW GREENSTRUXURE ENERGY SPEND

California University

RESI

LIEN CY

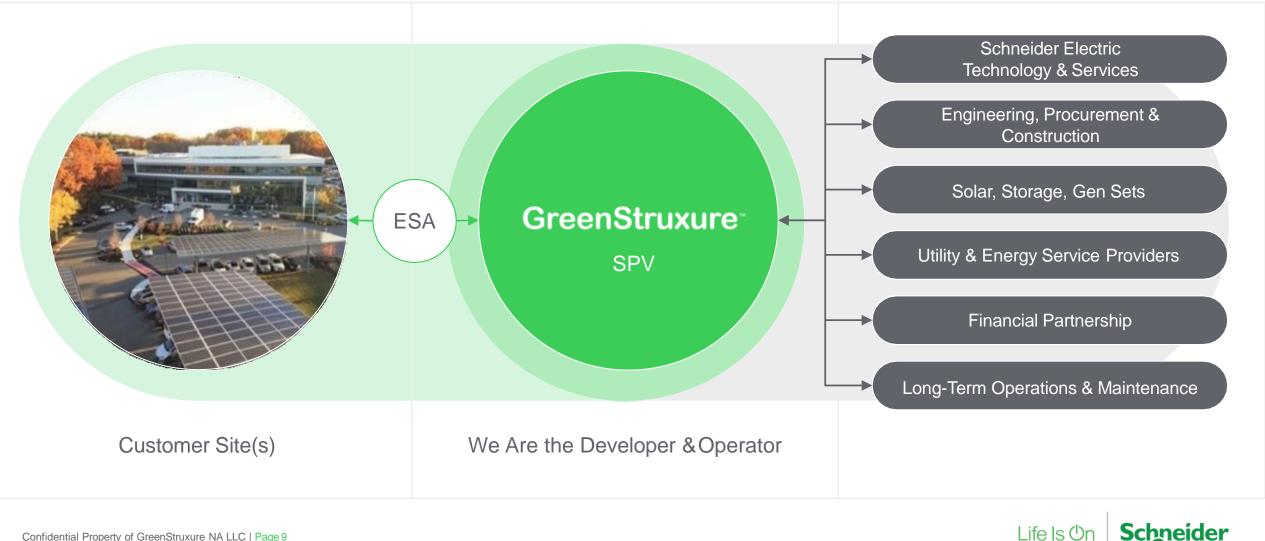
\$120,000 Saving

10% COST SAVINGS YEAR ONE

Life Is Or



We Make The Complex Simple



Fleet Electrification Infrastructure Solution for Montgomery County

First-of-its-kind EaaS fleet electrification infrastructure project integrating solar PV, on-site generation, battery energy storage, microgrid controls, and electric bus chargers.

Advances the County's sustainability commitments

- 62% carbon reduction from buses eliminating lifetime ~155,000 tons of GHG
- Enables e-bus deployment on longest routes for greatest impact
- Maximizes onsite renewable energy generation with solar and BESS

>Resilient system to enable full e-bus operations

- 99.999% resilience & reliability of operations and sized to handle peak-demand
- Seamless transition, digitized automation and control philosophy
- On-site generation with storage enables ongoing autonomous operation

Turnkey Energy as a Service solution

- Comprehensive risk mitigation and transfer throughout project lifecycle
- AlphaStruxure financial approach eliminates upfront cost for the County
- High-touch, collaborative design approach, project execution and service
- Future-proofed digital architecture and monitored 24/7 by AlphaStruxure Network Operating Center



Gas Engines with zero-emission fuel strategy



Solar Canopy



AlphaStruxure

Storage

Confidential Property of AlphaStruxure | Page 5

Thank you!

For more Information:

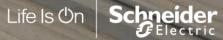
Jeff Morris Senior Director State Government Relations Schneider Electric North America. Jeff.morris@se.com

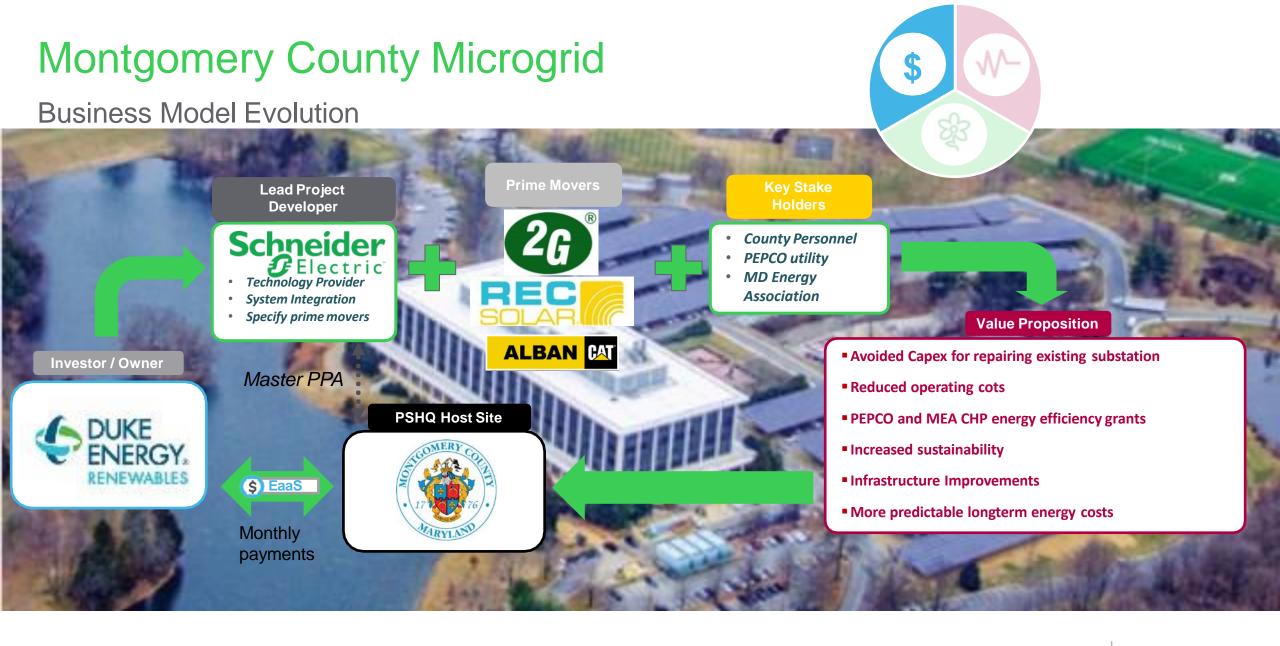




1 Y E A R

			9MONTHS	
		3MONTHS		
1 M O N T H				
Preliminary Analytics, Term Sheet	Technical & Economic Assumptions	Approval: Proposal & ESA	Development & Construction	Commissioning & Operation
You agree this proposal helps you get the energy outcomes you need to run your business. You sign our term sheet to enable us to investigate and discuss further.	We validate all information with your teams and through a site assessment.	We submit a more detailed proposal and sign an Energy Services Agreement outlining all details.	We work with your teams, your utility, state/local government, regulators and others to develop and construct your onsite microgrid.	We finalize, test, commission and begin operations. You participate in the new energy transition and make a difference for your business, your people and our planet!





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Life Is On