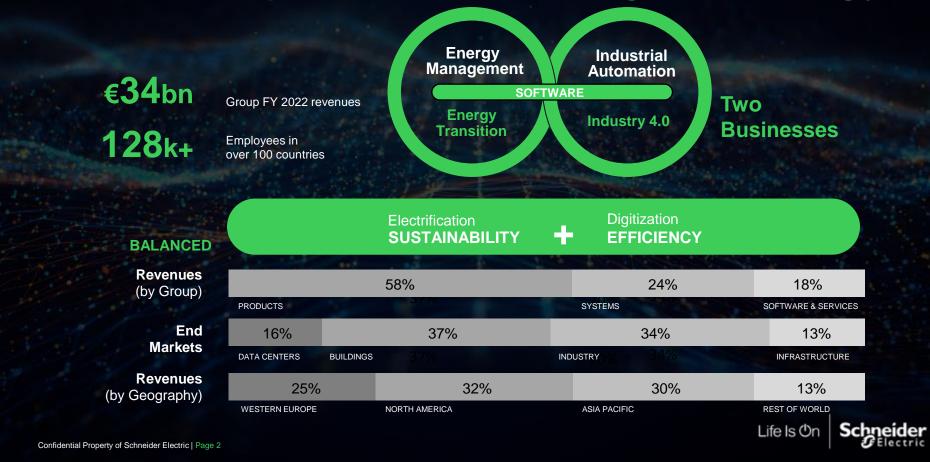




Record Year: Well positioned for sustainable growth in coming years

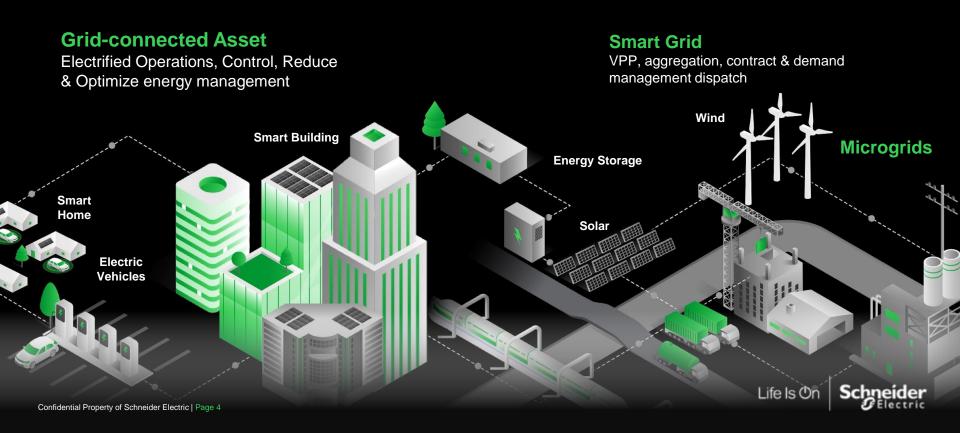


U.S. Power and Grid Market Trends

The Energy Transition is here!

- 1 New Regulations & Gov't Funds are driving investments in the energy transition
- Aged infrastructure, renewables, distribution system upgrades and modernization, DER, reliability, grid stability, resiliency and grid congestion—all roll up into distribution
- While COVID-19 may impact **kWh consumption** (hence generation), securing **grid resilience** and acceleration of **digital investment** remain a **high priority**, ensuring solid level of business
- Power grids are speeding up digitization to adapt to the profound changes in the new energy landscape (renewables, resilience, EV, ...): we already have a unique position on "operate"

Grids of the Future: The New Energy Landscape will be a far more electric world, enabled data from plant to plug

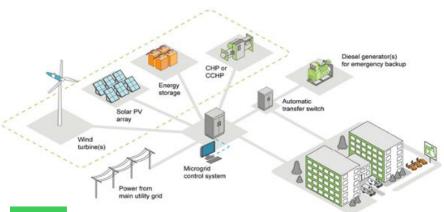


Microgrids

Microgrids deliver integrated outcomes through specific use cases

Technology that enables the New Energy Landscape

A microgrid provides a decentralized, digitized & decarbonized alternative...



- → A group of interconnected loads ...
- Microgrid¹ → ... and distributed energy resources within clearly defined electrical boundaries
 - → acting as a single controllable entity with respect to the grid

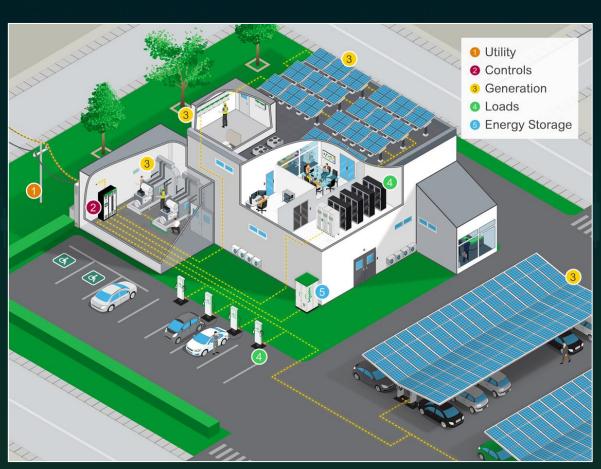
Energy Cost Resilience **Optimization Sustainability** Life Is On

... delivering integrated outcomes

¹US Department of Energy definition

Evolution of Onsite Generation



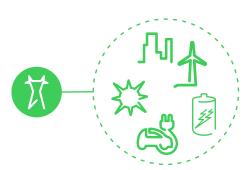


Microgrids

Types

Optimize your electrical bill & sustainability footprint

Grid + local generation + grid following storage



Always Grid-tied (Non-Islandable)

Manage blackouts while optimizing your electrical bill & sustainability footprint

Grid + Diesel/Gas &/or renewable generation + grid following/grid forming storage + load management



Islandable

"Power on" with efficient and future proof power systems

Diesel/Gas &/or renewable generation + storage + load management



Off-grid

Life Is On



Microgrid – Value Proposition



1. Maximizing Outcomes from DER thanks to advanced Controls







Artificial Intelligence solutions that select the cheapest & greenest available energy at a given time

Advanced controls that ensure power stability whatever grid configuration

2. De-risking Microgrid projects leveraging best in class consulting capabilities





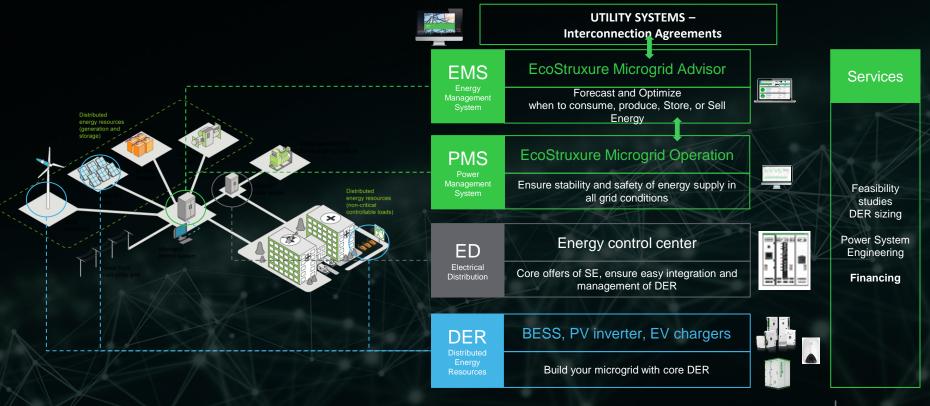
Consulting services that provides the best system sizing & tools according to today and tomorrow load profile

Energy As a Service (Financial enablement) solutions that ensures outcomes from dav1 w/o upfront invest





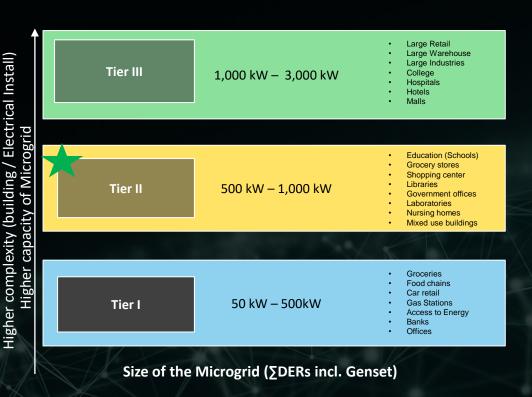
A unique set of technologies and services to de-risk microgrid project and maximize its outcomes



Life Is On



Unlock business potential of Small and Medium CIB microgrid market leveraging partners



Sustainability

Cost Optimization

Resilience

With Transactional MG, we enable

- EaaS
- Contractors
- Specifying engineers
- · System integrators
- End users



EcoStruxure Microgrid Flex architecture

Economic optimization + Sustainability + Resilience

Use Cases Supported	PV	BESS	Genset
Remote energy monitoring & forecasting	•	•	-
Tariff management (Static)	•	•	
Demand charge Reduction	•	•	
Self consumption optimization	•	•	
Export predictive optimization	•	•	
Export real time optimization	-	-	
Grid Connection Management Grid outage detection Anchor resource: Genset Main BESS following BESS main Genset following Transition Grid to Genset – Open Genset to Grid – Closed Grid to BESS/BESS to Grid – Open BESS to Genset/ Genset to BESS – Open Genset optimization/ Backfeed protection BESS charging limitation	•	•	-
Load Shedding	-	-	-
Load Sharing (active "Power)		-	-



Microgrids

Go to market approach for Cost Savings and Effectiveness



Microgrid projects



Configured "Microgrid In A Box"

Unique

Every project is unique

Customized

Designed from scratch and customized as per the needs

Lead time 1

As every project is unique, it is difficult to do supply chain planning

Commissioning time 1

Designed in the office and tested in the field during installation and commissioning (Issues/ errors found during commissioning, delays the commissioning time)

Standard Architectures

Tested Validated Documented
Architectures

Simple tools

size, quote, build, commission

Easy

size, quote, build, commission

Lead time 🔻

shrinking design, integration, and deployment time

Commissioning time ...

Tested and validated architectures + documentation for step-by-step commissioning



Life Is On Schneider

