Residential Technology for Sustainable IMPACT

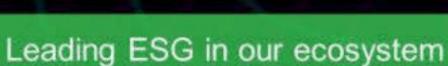
Lorne Hedges, WE HBA Sept 9, 2025

Life Is On

Schneider Electric

Our own sustainability journey





Embedded across organization Sustainability trusted partner for our customers

Clear path towards net-zero value chain





Commit to

2025

2030

2040

2050

Carbon neutral operations (Scope 1 & 2)

Net-zero ready operations (Scope 1 & 2)

End-to-end carbon neutral value chain (Scope 1,2,3)

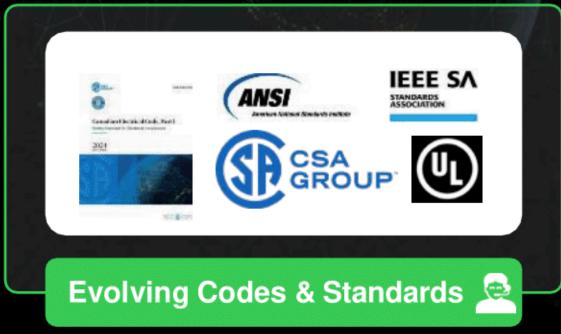
Net-zero CO2 value chain (Scope 1,2,3)

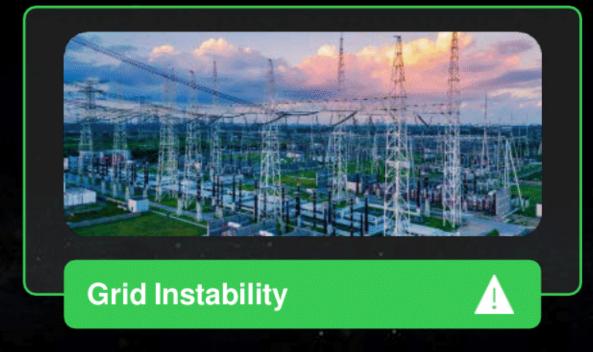
Macro trends impacting Canadian home builders









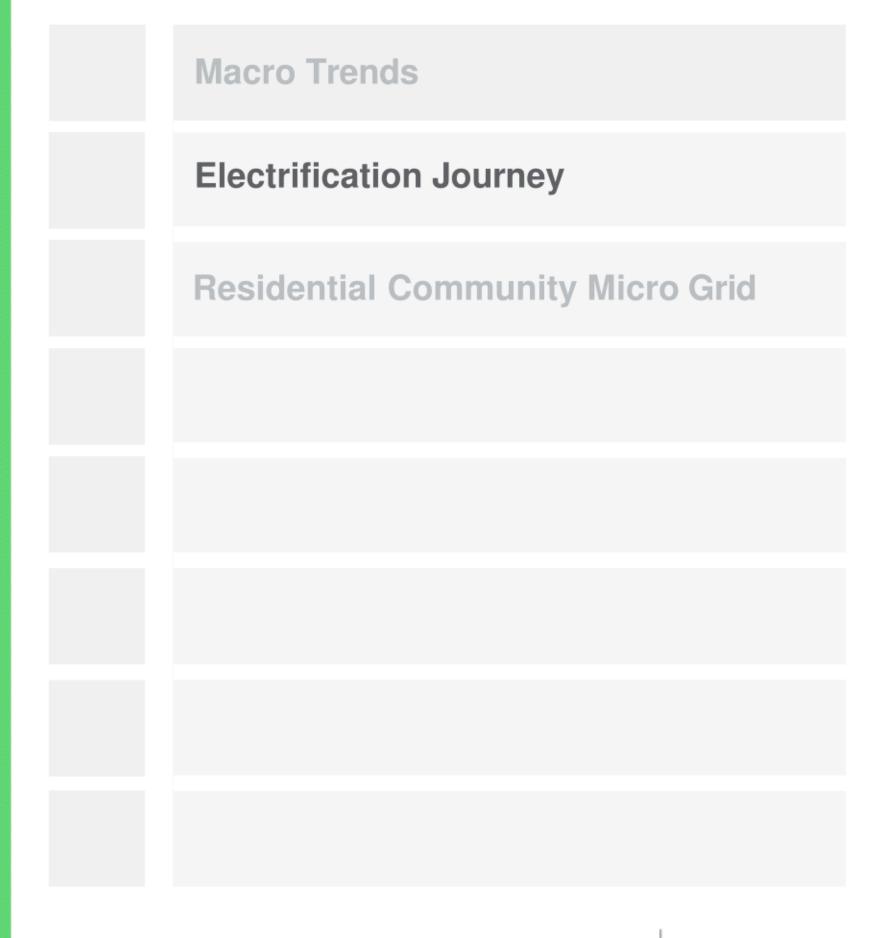








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Solar export to grid

Homeowners produce power, sell to utility



Electrical Panels Breakers Surge Protection

EV = new loads

Electrified transportation

EV Charging

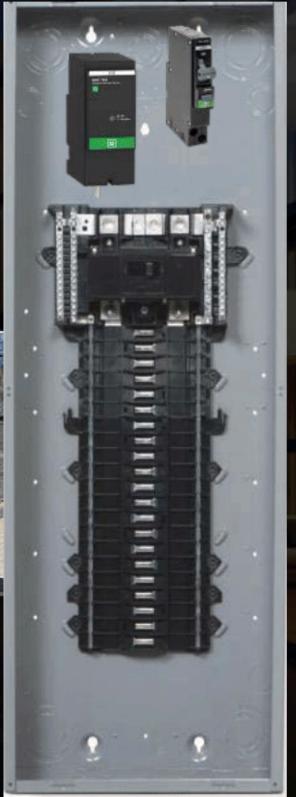
<u>2010</u> 2025 30A +A08 1 EV 2 EV



Electrical Panels

Surge Protection

Breakers



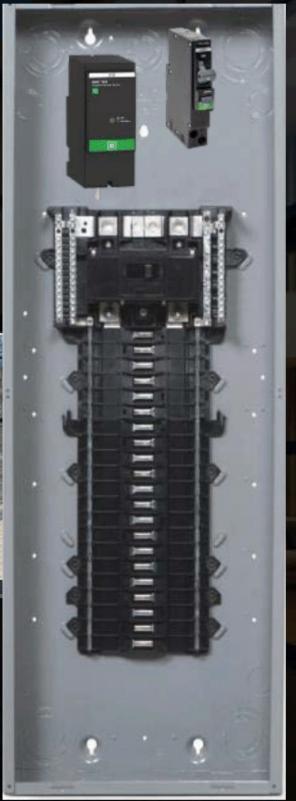
Heat pumps increasing electrical load

Decarbonization of heating

Heat Pumps Space and Hot water



More Circuits



Home Energy Management and automation

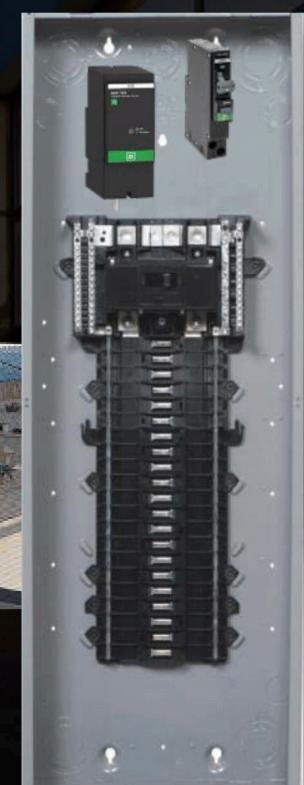
Provides opportunity to minimize service size



Electrical Panels

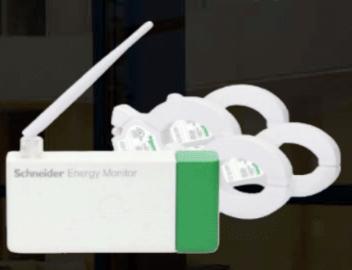
Surge Protection

Breakers





Home Energy Management Apps



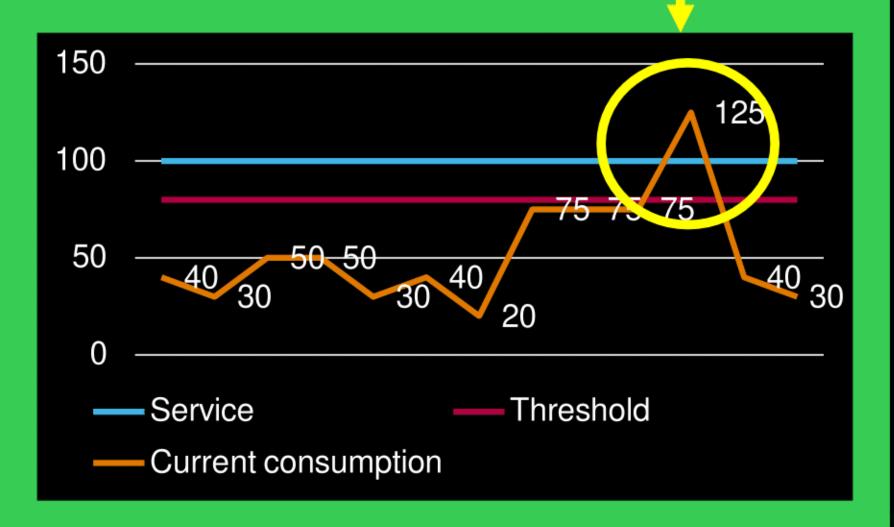


Heat

Pumps

How do we minimize service size?

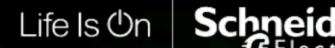
Automatically shave the peak



Service Upgrade Avoidance

thardware to limit load





Next Wave

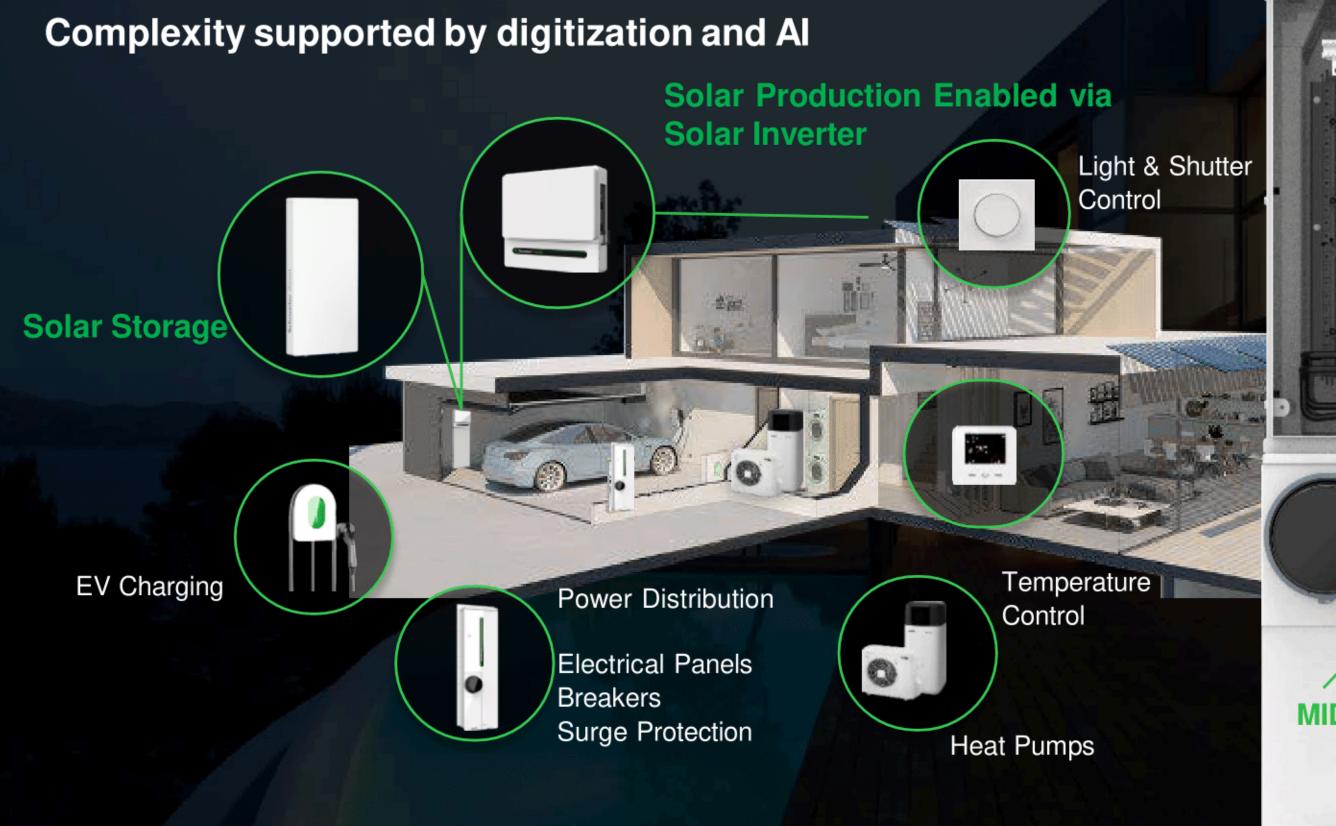
Rise of the Prosumer

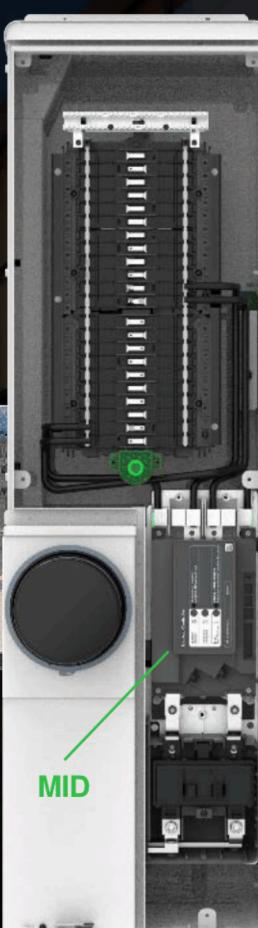
Individuals

Produce
Consume
Control

Reliable
Flexible
Green

Solar + Storage resiliency and backup







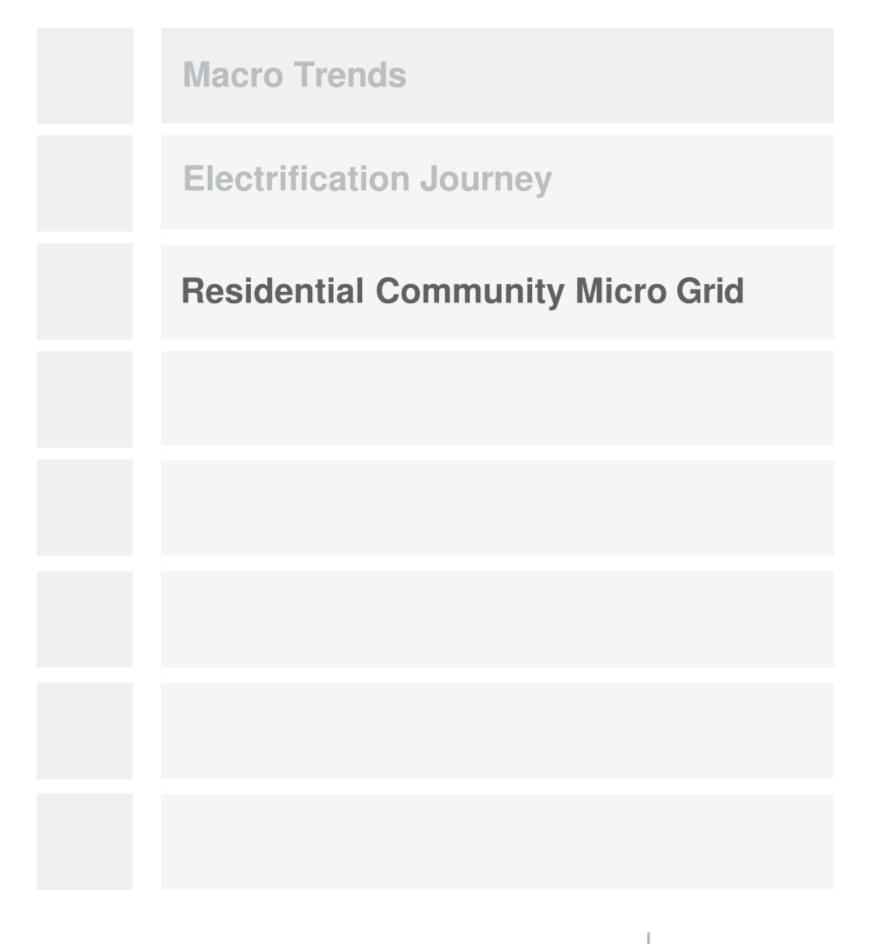
Home Energy Management Apps





Life Is On Schneider

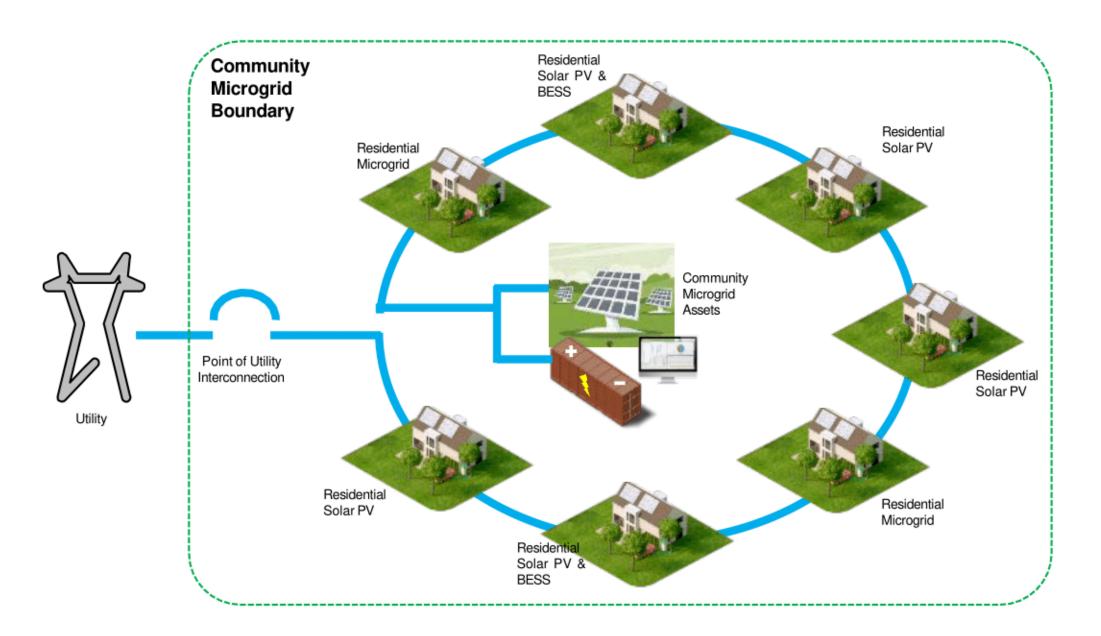
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Residential Community Microgrids

A residential community microgrid (RCMG) consists of a centralized control system, shared community scale distributed energy resources (DERs) and individual homes that may range from traditional homes to homes with small scale DERs to homes that may be complete microgrids (sometimes referred to as nanogrids) onto themselves that all work together to achieve increased resilience and sustainability while reducing costs.

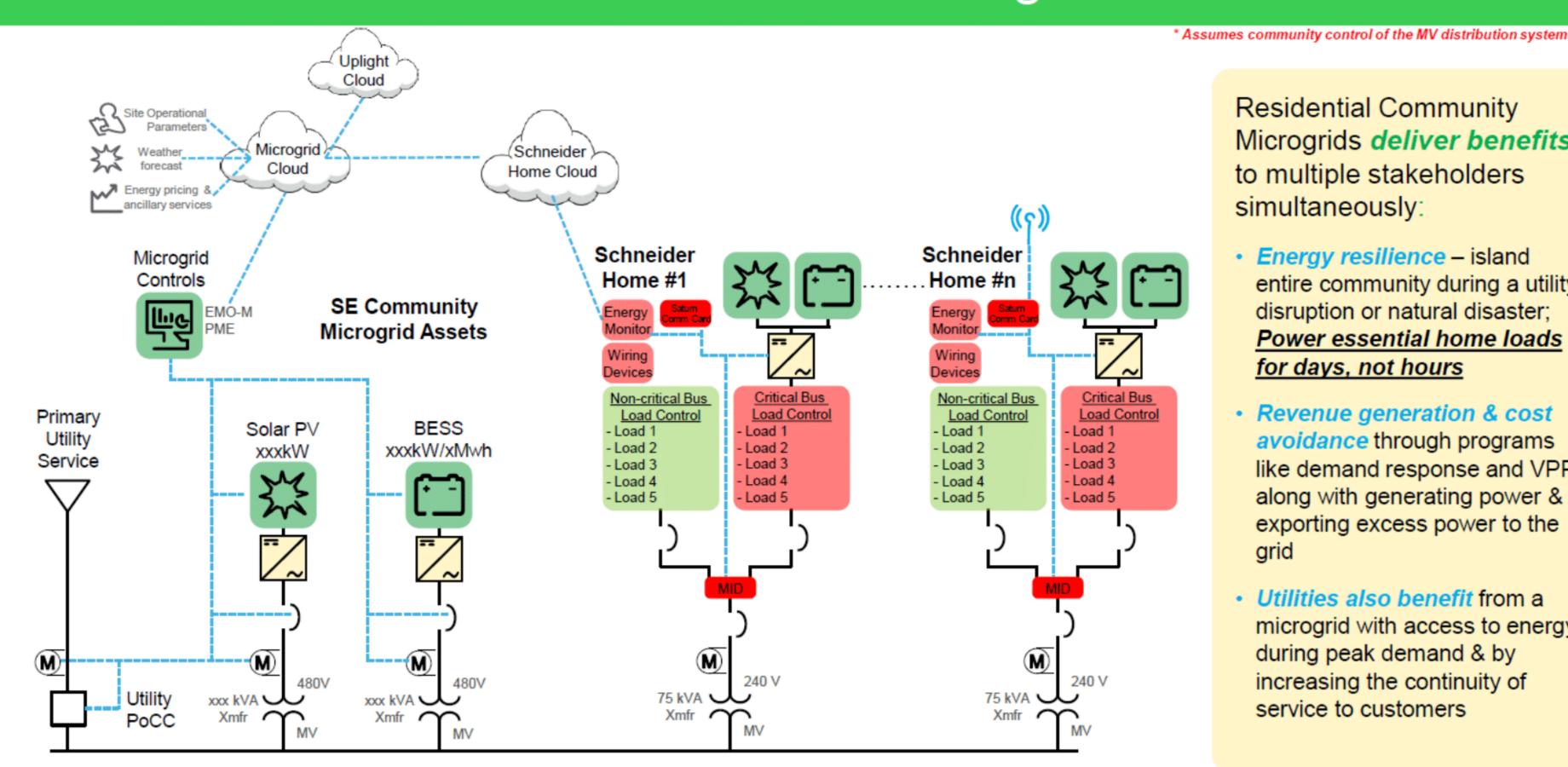


Residential Community Microgrids *deliver* benefits to multiple stakeholders simultaneously:

- Energy resilience island entire community during a utility disruption or natural disaster; Power essential home loads for days, not hours
- Revenue generation & cost avoidance through programs like demand response and VPP, along with generating power & exporting excess power to the grid
- Utilities also benefit from a microgrid with access to energy during peak demand & by increasing the continuity of service to customers



Schneider Home: A Foundational Building Block for RCMGs



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A complete solution supporting Residential Community Microgrids made



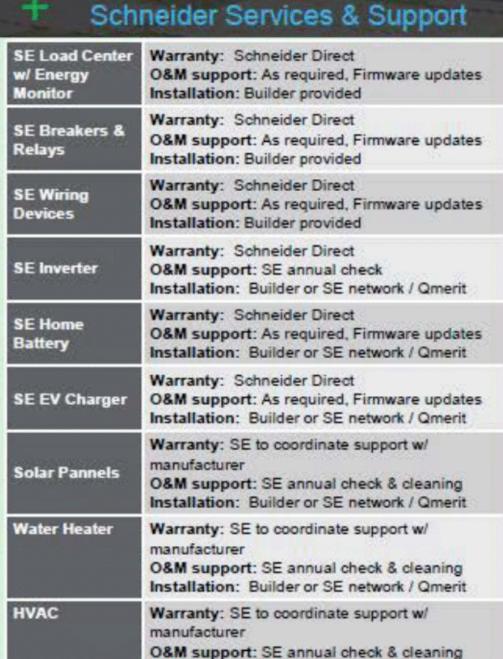












The smart, connected, & sustainably powered home



Installation: Builder or SE network / Qmerit

O&M support: As required, VPP enrollment

Installation: Builder or SE network / Qmerit

Warranty: SE to coordinate support w/

manufacturer

Contact Information

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Macro Trends
Electrification Journey
Residential Community Micro Grid
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