

SWTCH is the leader in EV charging for multi-tenant buildings

SWTCH simplifies EV charging operations for building owners, enabling them to comply with regulations, retain tenants and increase net operating income.



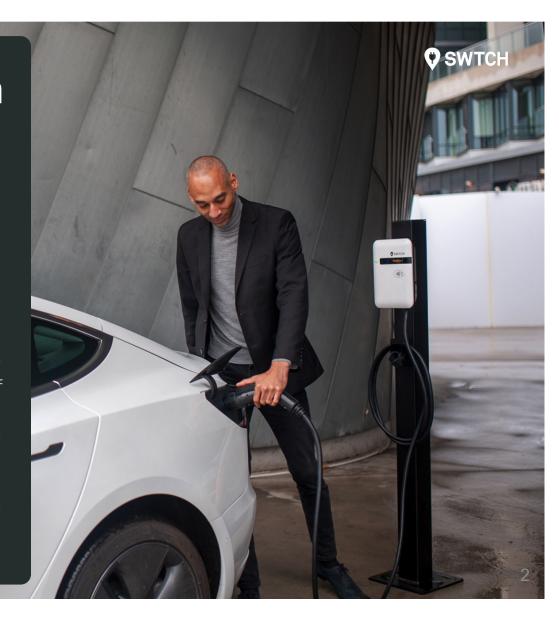
Design, installation, operations & maintenance of EV charging stations



Software suite solving key challenges of shared charging and electrical infrastructure



Dozens of building technology partner integrations



SWTCH is OCPP Certified

In March 2023, SWTCH was officially OCPP-certified by the Open Charge Alliance.

SWTCH's OCPP certification is proof that our charging network meets the highest standards of compatibility, security and interoperability in the industry.

 SWTCH is 1 of only 4 North American charging networks to achieve OCPP certification



SWTCH works with many EV charger manufacturers

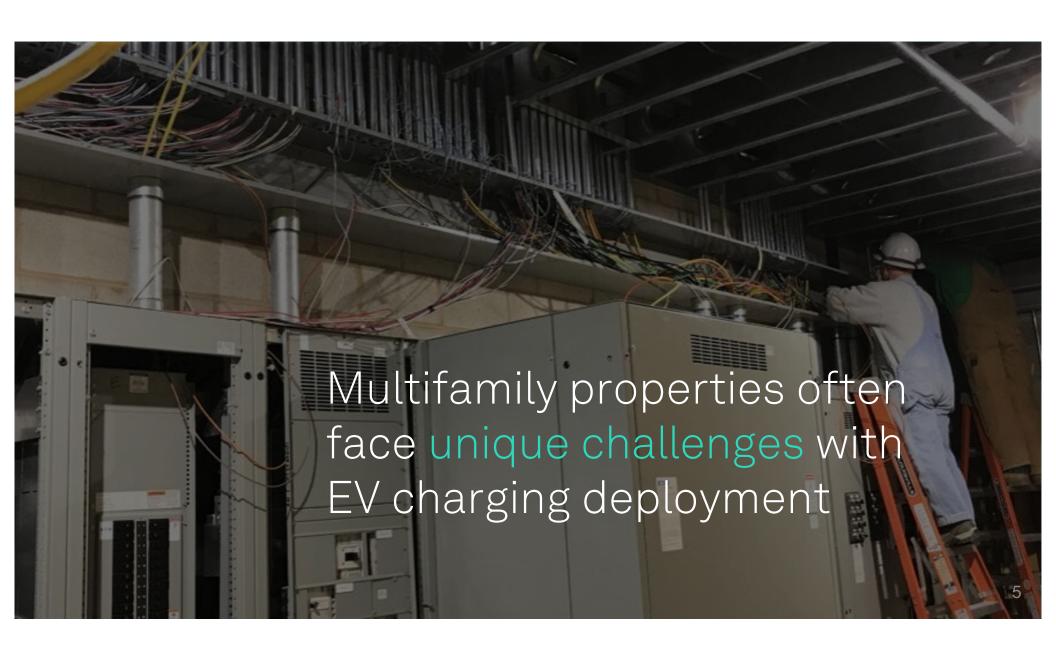
EVEL 2

DC FAST

EVEC Wallbox To LG

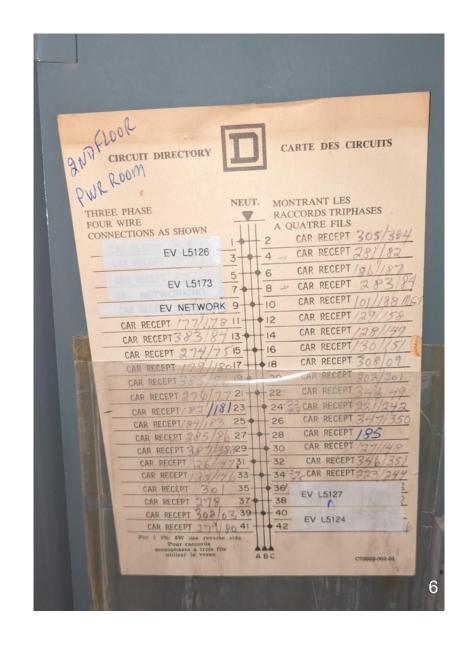
ABB

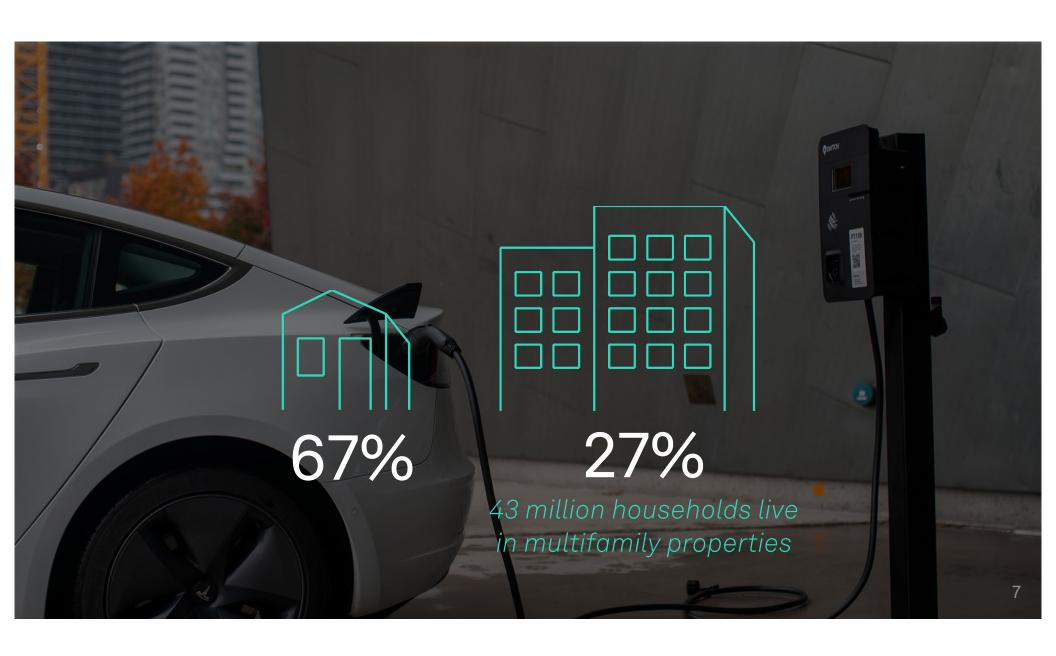
ZEROVA



What are some of the challenges?

- Higher installation costs
- Multiple layers of decision-making authority
- Technical complexity
- Business model uncertainty
- Who pays
- Electrical constraints on site
- Electrical constraints on the grid



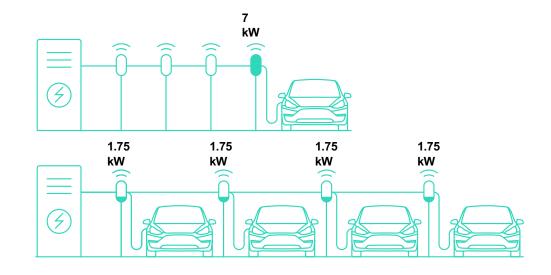




What is Energy Load Management?

Electric vehicles can draw a significant amount of energy while charging. If you want to allow multiple vehicles to charge simultaneously, the energy will need to be shared so your electrical system isn't overwhelmed.

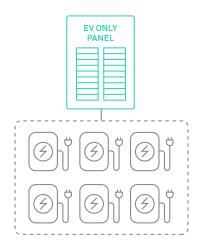
The most basic form of this is done by simply splitting the energy made available to the chargers across active chargers.



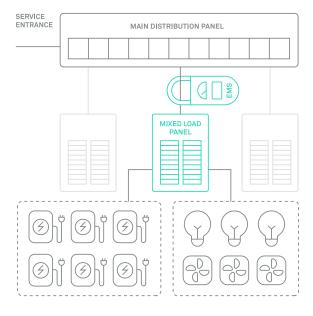


SWTCH ControlTM Configurations

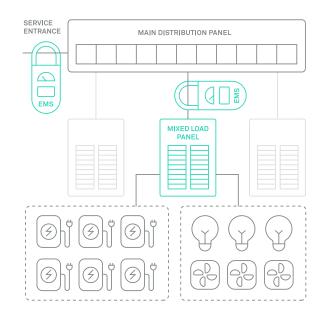
Dedicated EV panel



Mixed load panel



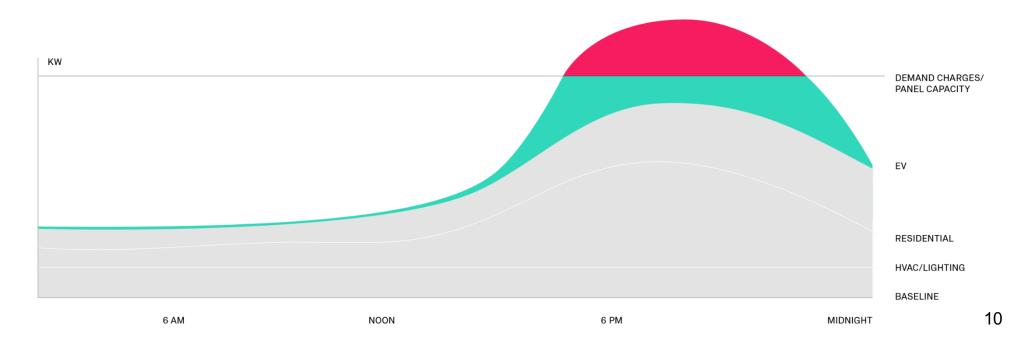
Comprehensive building monitoring





EV Charging Scenario:

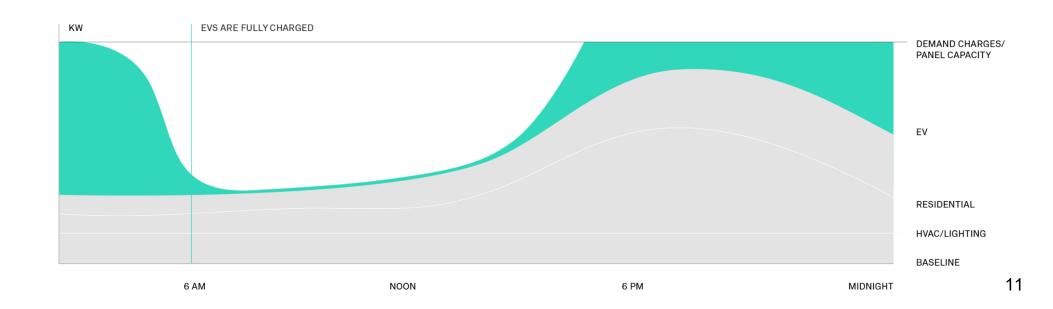
Unmanaged Charging

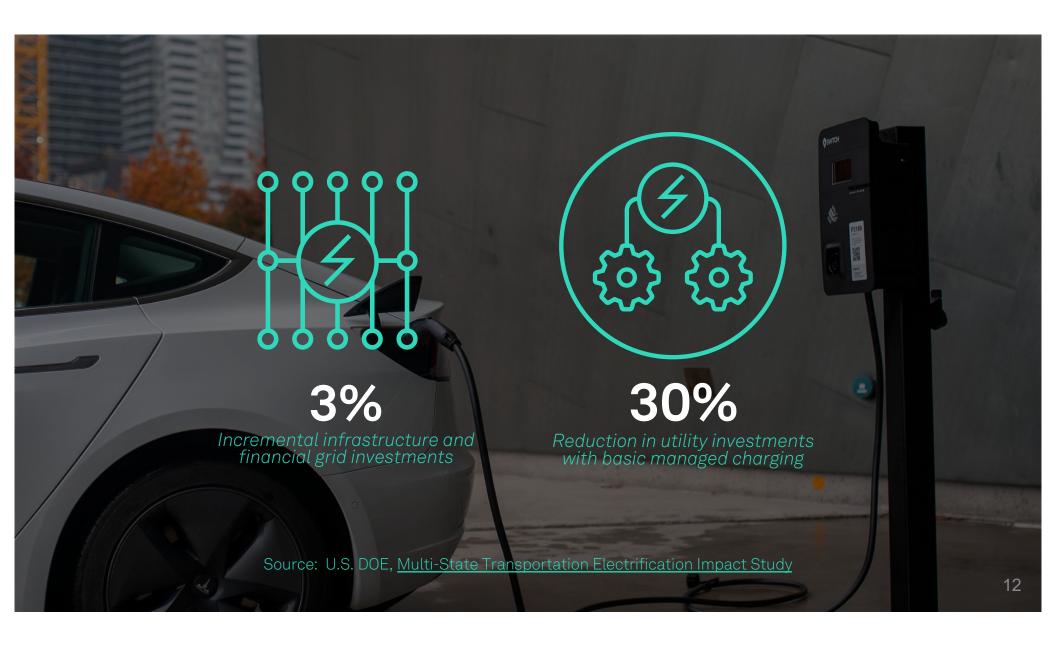




EV Charging Scenario:

Managed Charging







BC Hydro Multifamily EV Charging Demand Response Project





BC Hydro / AutoGrid project details

The first utility scale multifamily EV Charging Demand Response program in North America

Program design

 Modeled after the BC Hydro Peak Rewards program in which AutoGrid sends DR commands via OpenADR2.0b

Chargers & buildings

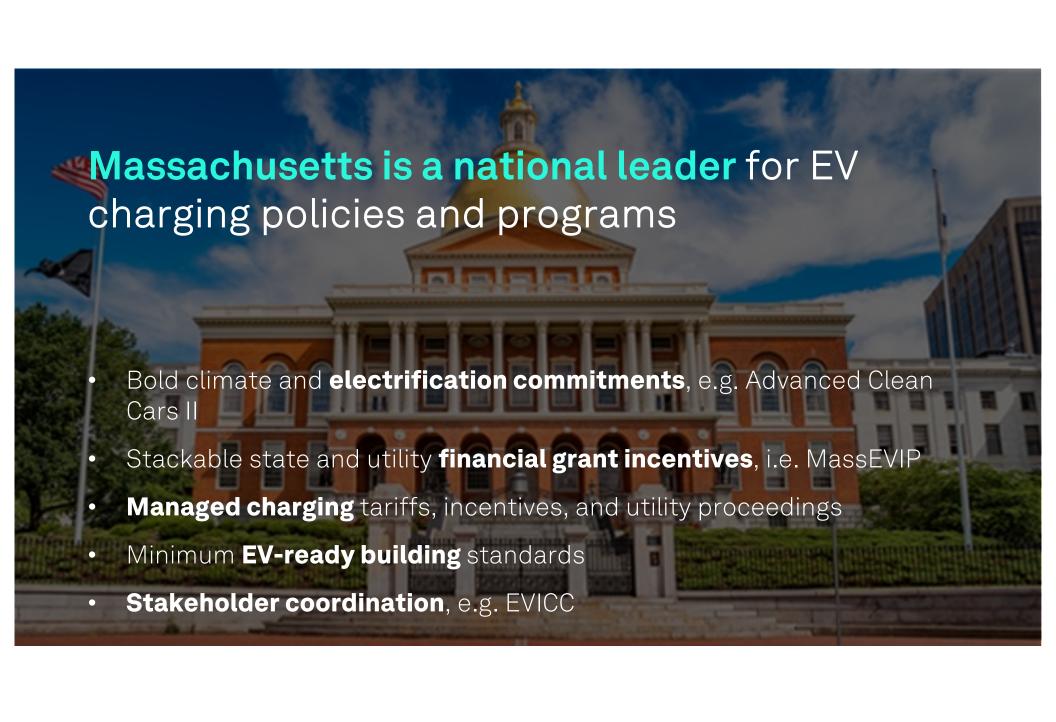
• 150 networked chargers in 10-15 buildings

Demand Response Events

• Drivers are free to opt in / out of each event and out of the program altogether

Payments

• Building owners and drivers both are eligible for financial incentives



Policy considerations for Massachusetts

• "Right-to-charge" protections democratize access to charging and the benefits of driving electric.

- Software-enabled charging is key to saving money by managing electrical impacts both onsite and on the grid.
- Modernized EV-ready building codes reduce charger install costs, support widespread and equitable EV adoption, and incentivize software-based charging management.
- Clean Fuel Standards help support transportation electrification.

Source: Wikimedia Commons



EV Charging Policy Roadmap:



swtchenergy.com/US-Policy-Roadmap

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