



Leading the way in maximizing today's available energy for a cleaner tomorrow.





EV Charging Infrastructure and Energy Management Solutions.

Designed & Built in North Carolina.



### **INNOVATION**

Developed and commercialized the first digital circuit breaker technology and performance optimized EV charging infrastructure.

#### **OPERATIONS**

Committed to operational excellence with vertically integrated 'people-process-capabilities' from research & development to manufacturing and product delivery.

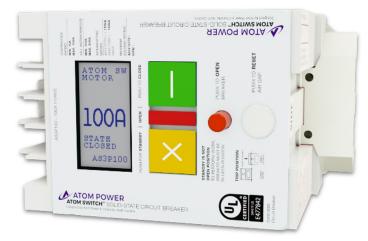
#### **PEOPLE**

Our ~60 team members are experts in their fields, with 71% devoted to product development, engineering and manufacturing.

#### **SUSTAINABILITY**

Realizing a cleaner tomorrow with a goal of driving >500 megatons of GHG reduction by 2030 with our operations and products. In 2019, Atom Power commercialized the first solid-state Digital Circuit Breaker.

And received the first ever UL listing for a solid-state circuit breaker in history.





Paving the way for last-mile intelligent power delivery.



Demand Response (DR)



**Demand Energy Resources (DER)** 



**EV Charging Infrastructure** 

#### Benefits of our approach:



Maximized energy efficiency



Improved carbon footprint



Scalable EV charger asset deployment



Optimized TCO, Capex, and Opex

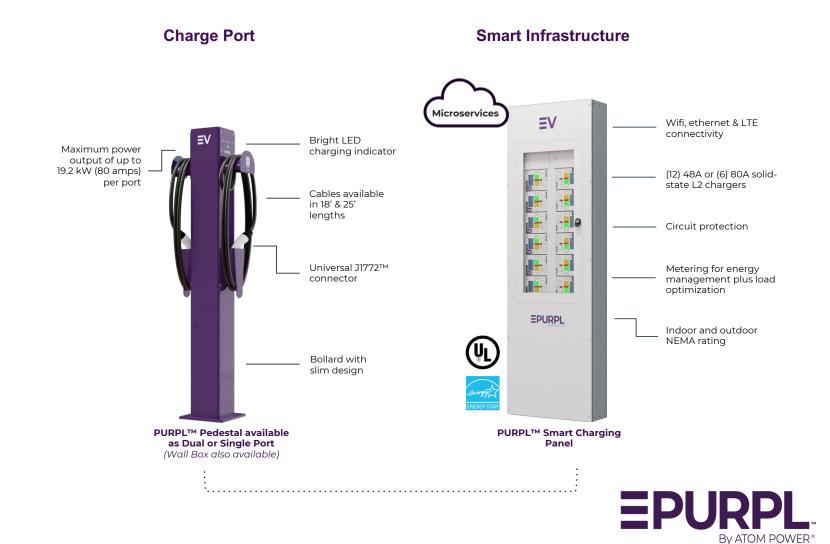


Improved asset performance



Deliver peace of mind

## FULLY INTEGRATED & OPTIMIZED EVSE SOLUTION







Service



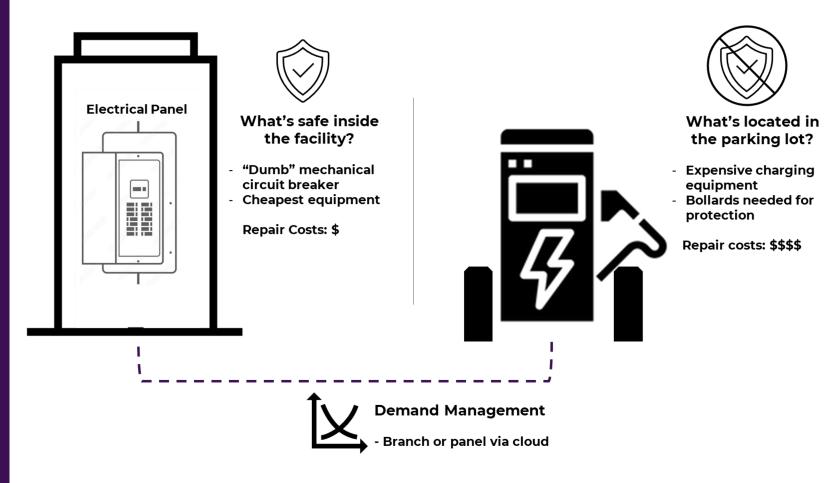
Maintenance



Reliability

## What if we rethink what it means to be an EVSE?

#### **Traditional**







Service



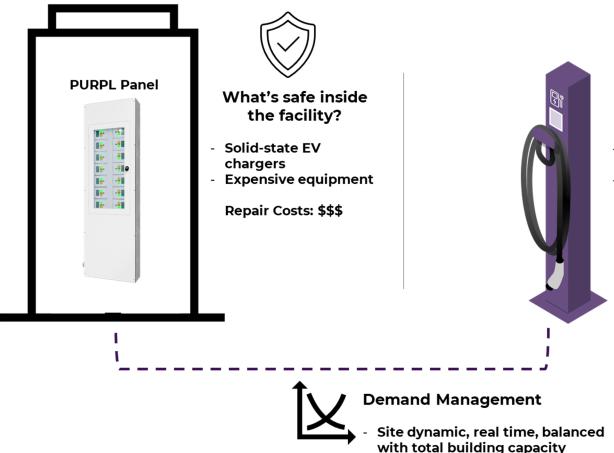
Maintenance



Reliability

## What if we rethink what it means to be an EVSE?

#### **Atom Power**





# What's located in the parking lot?

- "Dumb" bollard pedestal
- Live electricity only when actively charging

Repair costs: \$





**Life Safety Device** 



**Current Limiting** 



Beyond Code Compliance

# What if EVSEs were held to a higher standard?

		TRADITIONAL EVSE UL 2231	ATOM UL 489/UL 2231	
<b>Overload Testing</b> (489_7.1.3 vs 2231_27)	<b>&gt;</b>	150% of rating 50x	600% of rating 50x	
Endurance Testing (489_7.1.5 vs 2231_28)	1111	6,000 operations	10,000+ operations	
Surge Protection (489_SF4.5 vs 2231_24.10)	LIAB	6kV	6kV	
Short Circuit Test* (489_7.1.7 vs 2231_32)	R E	3.5kA	200kA	
Voltage to the Pedestal While Not Charging	8 X T	Typically Present	No	
How Fast Can You Stop Power	AFE	N/A	400µs	
Let Through Current	S	Maximum Available Fault Current	1.5kA	

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**Established Telematics Integrations** 

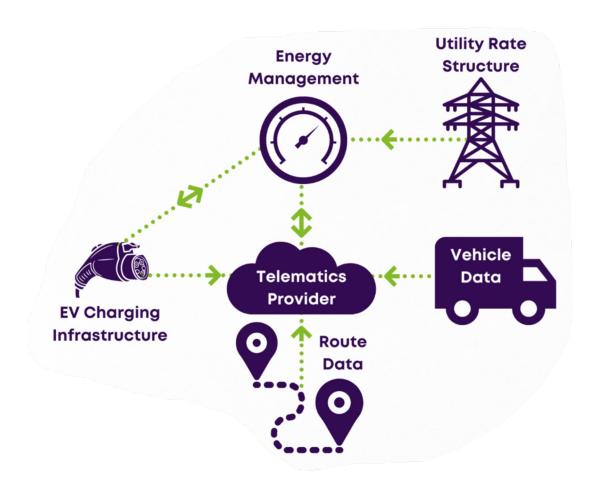


**Open API** 



Scheduling & Priority Capabilities

# Real Time Visibility & Control So Your Vehicles Are Always Ready







Service



Maintenance



Reliability

# Service and Maintenance: Improve Reliability while Reducing Costs

How often do you service and maintain your electrical panel?

- No Moving Parts Solid-State with Passive Cooling
- Breaker can be replaced in <5 mins by a certified electrician
- Metal Dispenser Rugged Design, Not Expensive
- EV Cable replaceable by certified electrician
- Local Control Operates Without Reliance on Network
- Integrations Alert Abnormal Conditions
- Remote Diagnostics Prevent Service Calls

