

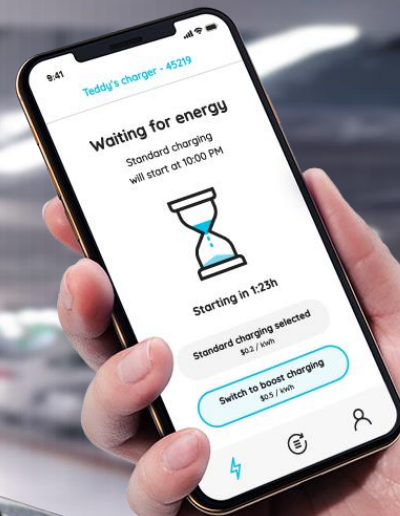


Simply Take Charge

OpenADR Webinar: New Frontiers in EV Charging

Marina Hod, Managing Director Americas

July 2024



About Wevo Energy

2021

Year founded

5

Patents filed

8

Countries
of operation

1,200+

Sites
on platform

150,000

Parking spots
being electrified



100% owned by SolarEdge since April 2024



[EVO Report 2022 | BloombergNEF](#)

wevo

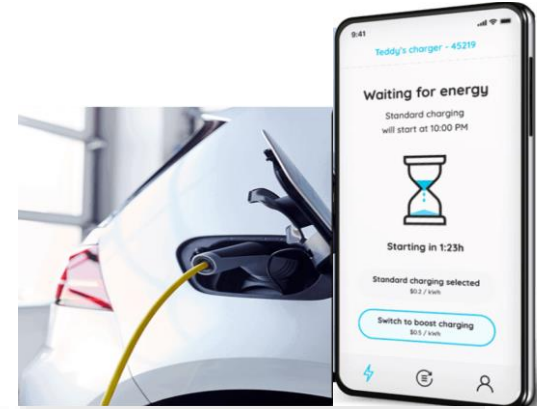


[EV Driver Survey Report 2020](#)



[OECD.org](#)

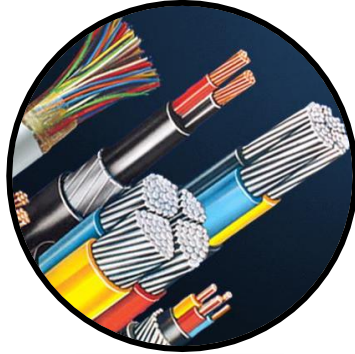
Finding the right balance: CapEx and OpEx



Challenges for EV charging projects in the built environment



Ownership



Infrastructure



Power & Energy



Billing

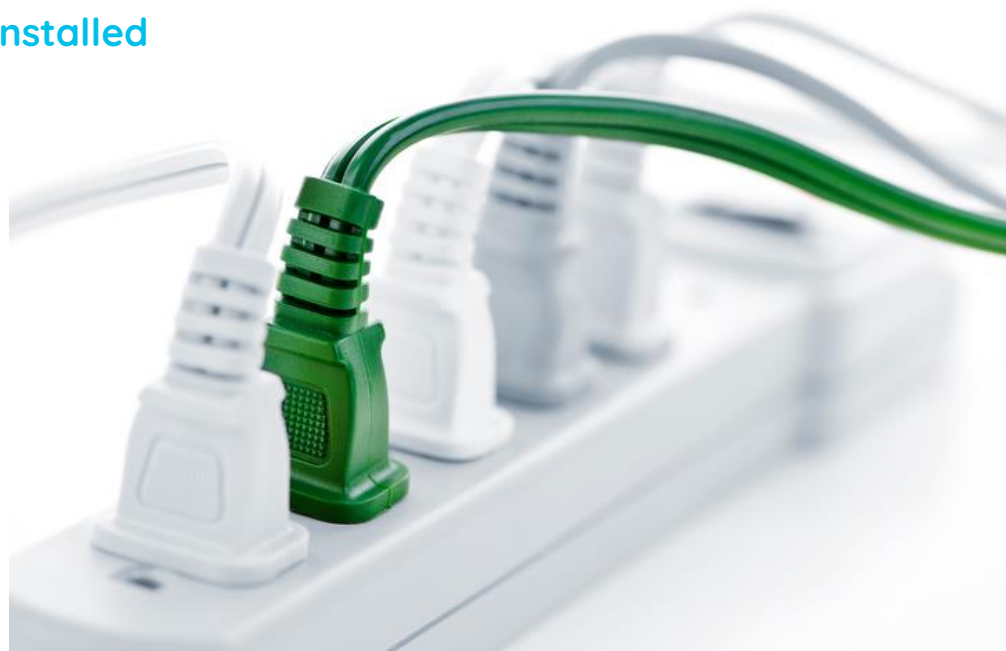
Power constraints

- Limited power supply
- Expensive to expand
- Obstacle to scaling



Power possibilities

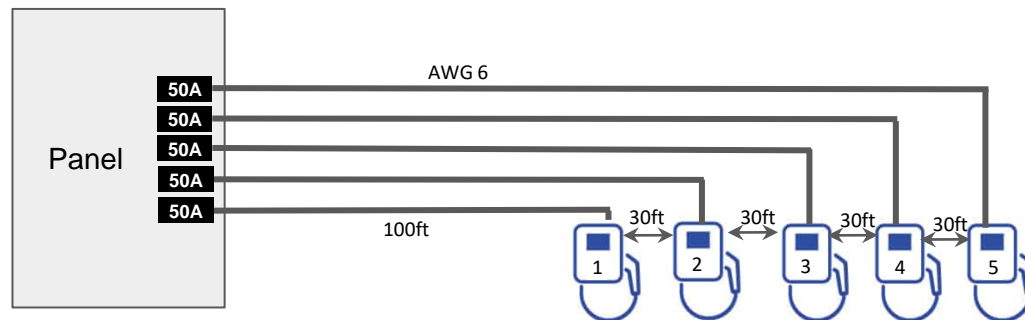
- Maximize the number of chargers installed
- Minimize the infrastructure costs
- Pathway for buildings to scale



Innovative installation and management approach greatly reduces infrastructure spend

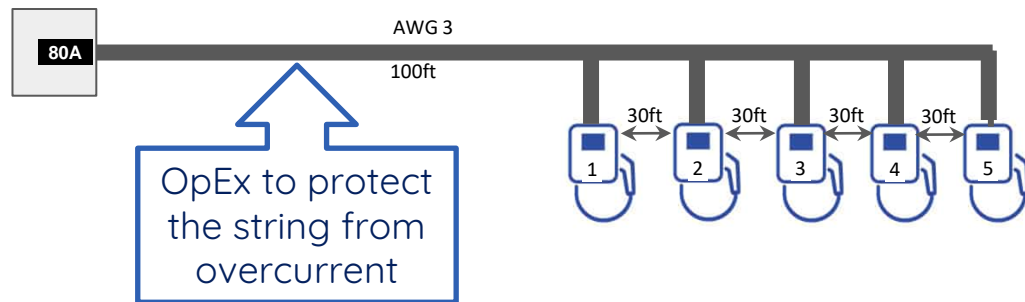
> 600 ft
Cable Length

Upfront
Investment

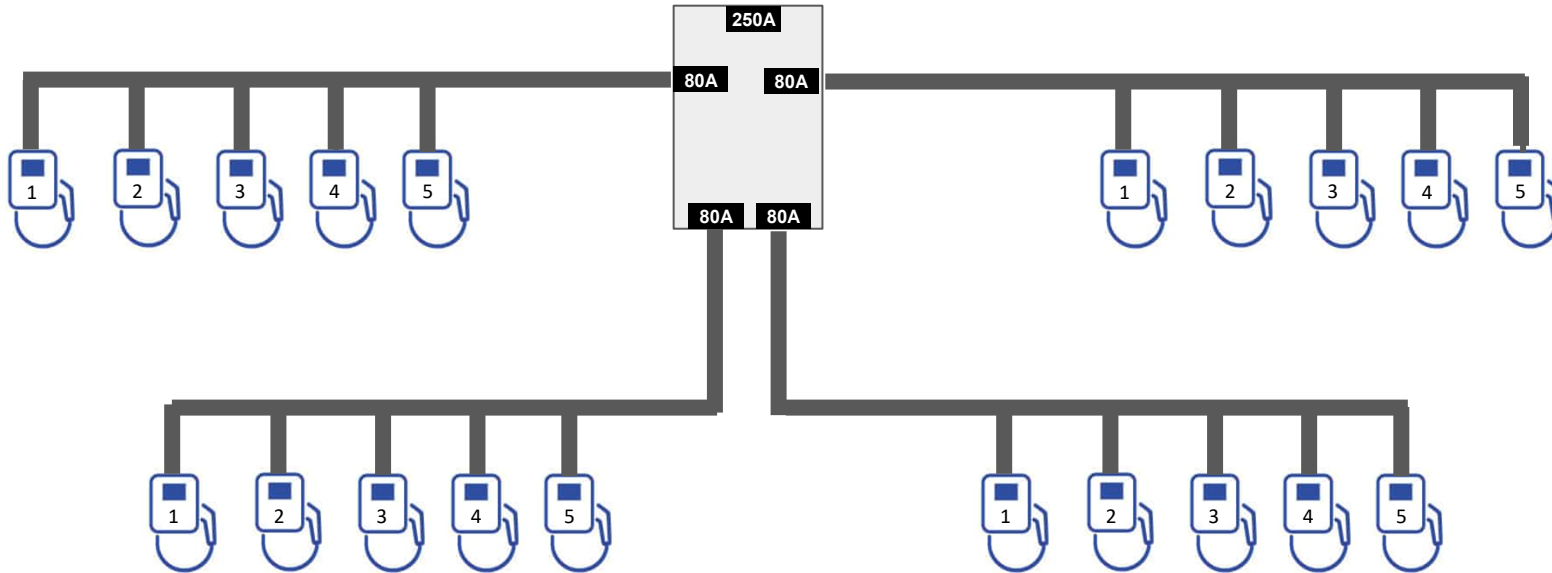


220 ft
Cable Length

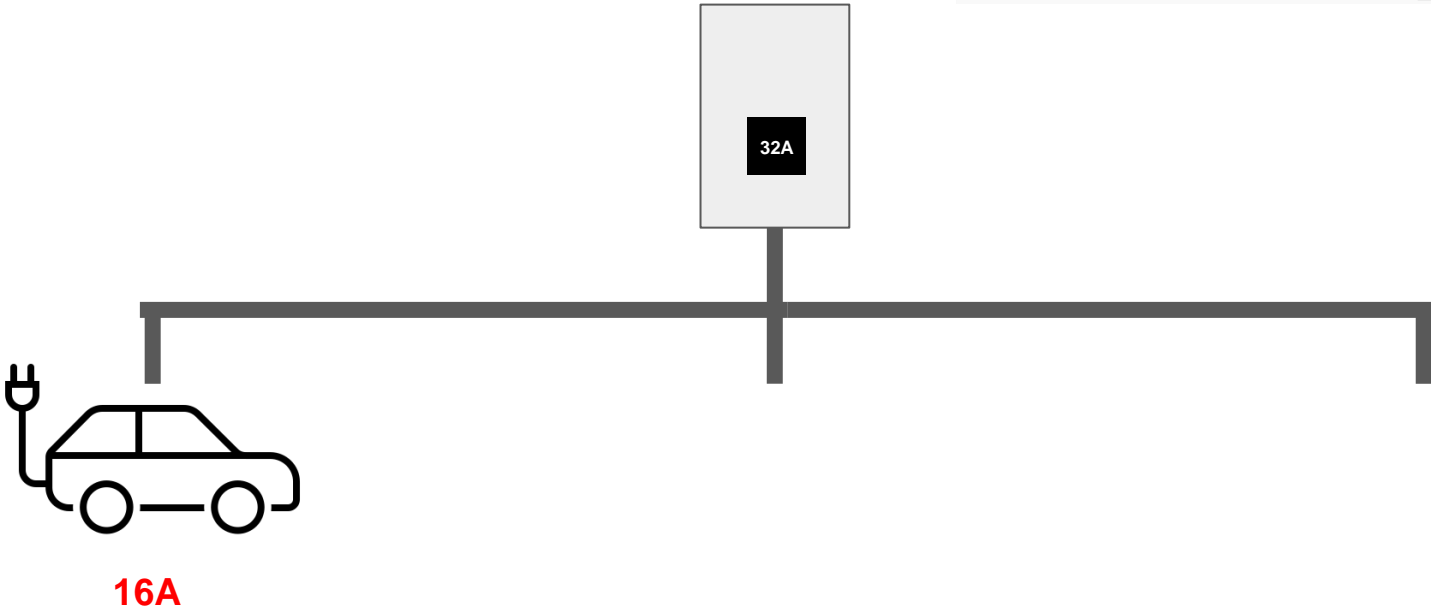
Invest as
you grow



Taking it to the next level

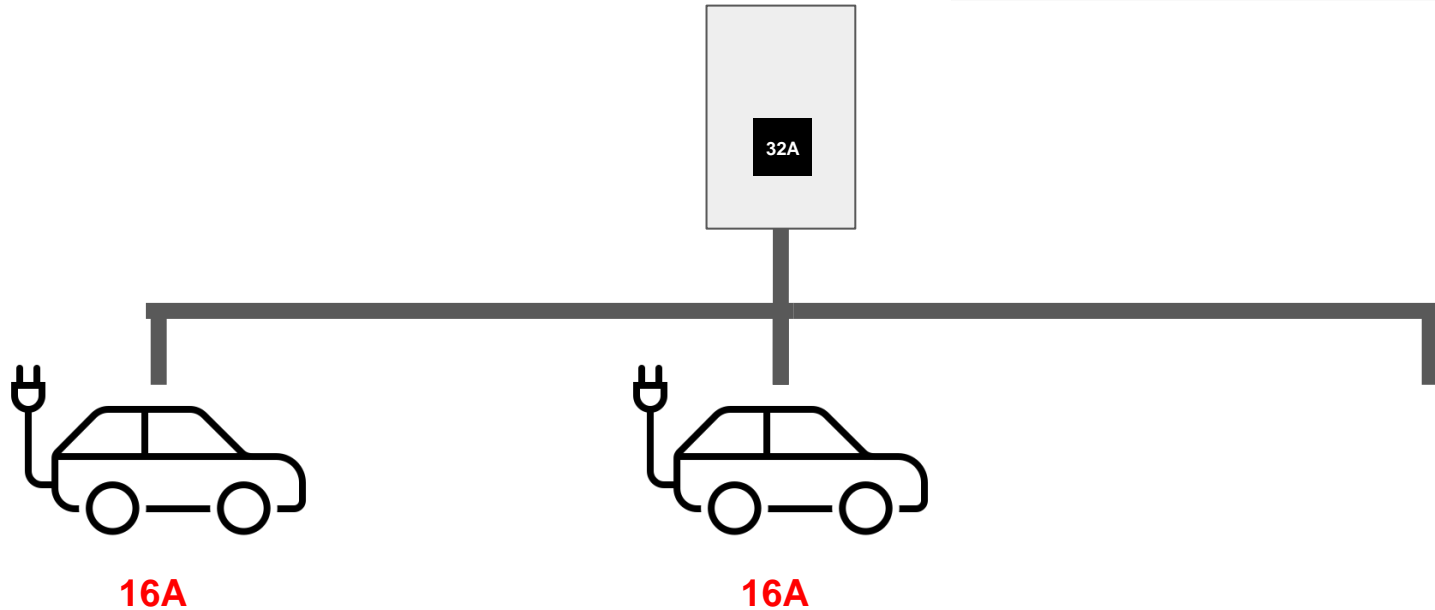


Load balancing



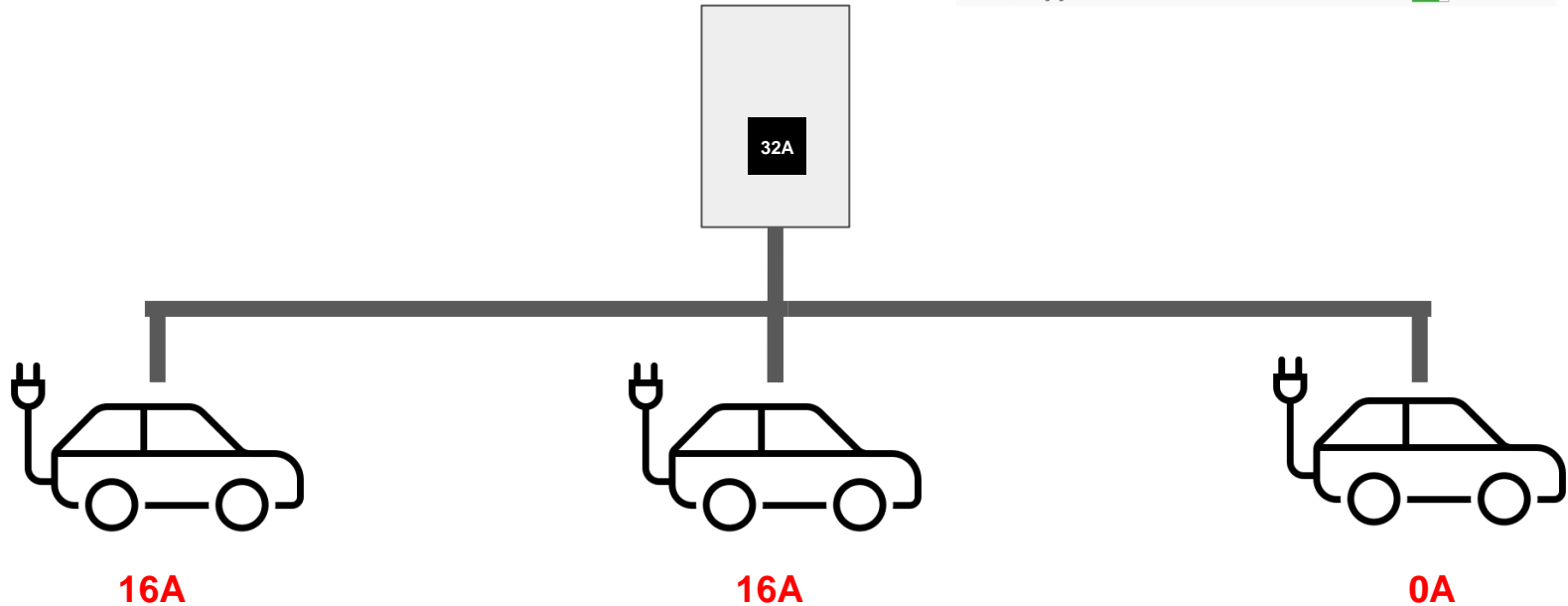
Weev Energy ▾			
Drivers		Transactions	
Status	Parking	Actual ↑	Allocated / Limit (log scale)
		16.3A / 0.0A / 0.0A	<div><div></div></div> 16 / 32A
○ Available	2		<div><div></div></div> 0 / 16A
● Charging	1	15.4A / 0.0A / 0.0A	<div><div></div></div> 16 / 16A
○ Available	3		<div><div></div></div> 0 / 16A

Load balancing



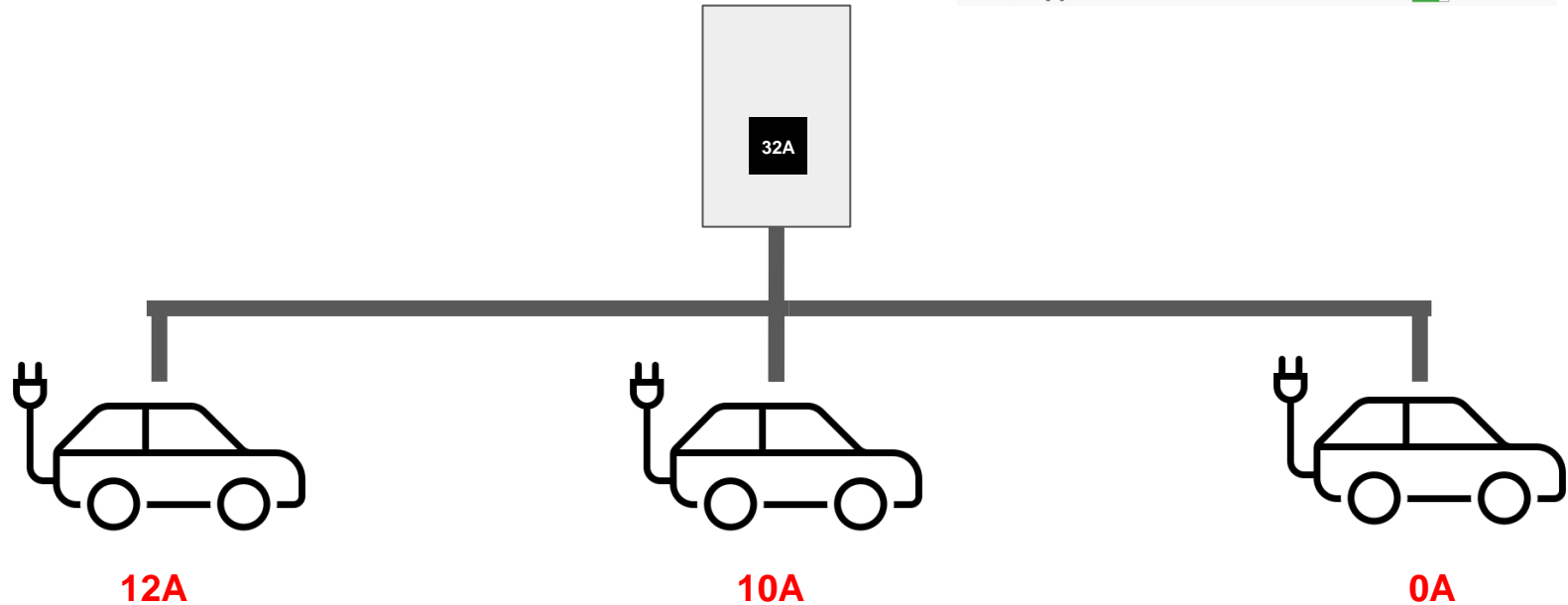
Weev Energy ▾			
Drivers		Transactions	
Status	Parking	Actual ↑	Allocated / Limit (log scale)
		30.6A / 0.0A / 0.0A	<div><div></div></div> 32 / 32A
○ Available	2		<div><div></div></div> 0 / 16A
● Charging	1	15.4A / 0.0A / 0.0A	<div><div></div></div> 16 / 16A
● Charging	3	15.2A / 0.0A / 0.0A	<div><div></div></div> 16 / 16A

Load balancing



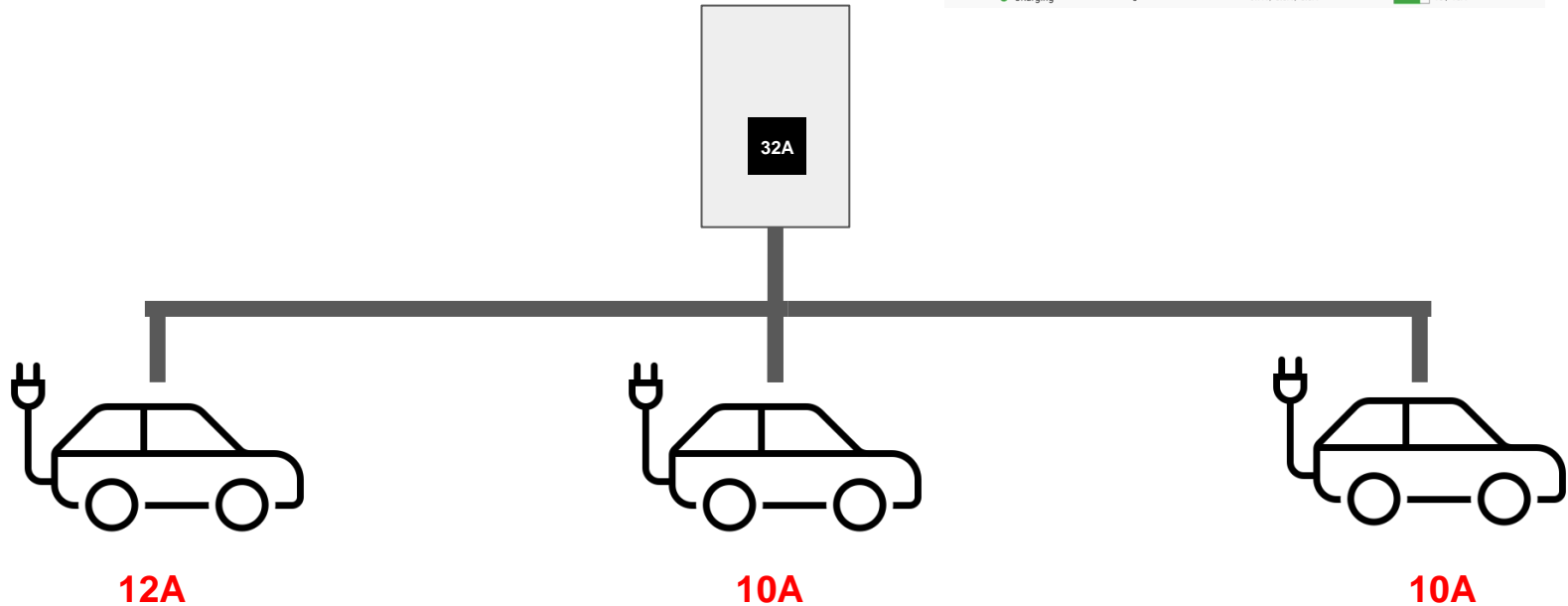
Weev Energy ▾			
Drivers		Transactions	
Status	Parking	Actual	Allocated / Limit (log scale)
		30.6A / 0.0A / 0.0A	<div><div></div></div> 22 / 32A
● Charging	2		<div><div></div></div> 0 / 16A
● Charging	1	15.4A / 0.0A / 0.0A	<div><div></div></div> 12 / 16A
● Charging	3	15.3A / 0.0A / 0.0A	<div><div></div></div> 10 / 16A

Load balancing



Weev Energy ▾			
Drivers		Transactions	
Status	Parking	Actual	Allocated / Limit (log scale)
		30.6A / 0.0A / 0.0A	<div><div></div></div> 22 / 32A
● Charging	2		<div><div></div></div> 0 / 16A
● Charging	1	15.4A / 0.0A / 0.0A	<div><div></div></div> 12 / 16A
● Charging	3	15.3A / 0.0A / 0.0A	<div><div></div></div> 10 / 16A

Load balancing



Weev Energy ▾			
Drivers		Transactions	
Status	Parking	Actual	Allocated / Limit (log scale)
		27.6A / 5.8A / 6.1A	<div><div></div></div> 32 / 32A
● Charging	2	6.5A / 5.8A / 6.1A	<div><div></div></div> 10 / 16A
● Charging	1	11.3A / 0.0A / 0.0A	<div><div></div></div> 12 / 16A
● Charging	3	9.7A / 0.0A / 0.0A	<div><div></div></div> 10 / 16A

Differential pricing drive consumer behavior



STANDARD CHARGING

- ✓ Default overnight mode
- ✓ Battery full in the “morning” (when needed)
- ✓ Charging starts at lowest electricity rates
- ✓ Site capacity shared between EVs
- ✓ Affordable price per kWh



BOOST CHARGING

- ✓ “Emergency” use activated by user
- ✓ Starts immediately, regardless of electricity price
- ✓ EV given maximum power
- ✓ Priority in energy allocation over standard charging
- ✓ Premium price per kWh

Static vs. Dynamic Load Balancing

Tree	Status	Allocated / Limit (log s...	
▼ 📍 Wevo Office			...
▼ 🏢 Office Main		<div><div></div></div> 16 / 40A	...
⚡ Charger 1	● Charging	<div><div></div></div> 16 / 16A	...
⚡ Charger 2	○ Available	<div><div></div></div> 0 / 16A	...
⚡ Charger 3	○ Available	<div><div></div></div> 0 / 16A	
⚡ Charger 4	○ Available	<div><div></div></div> 0 / 16A	

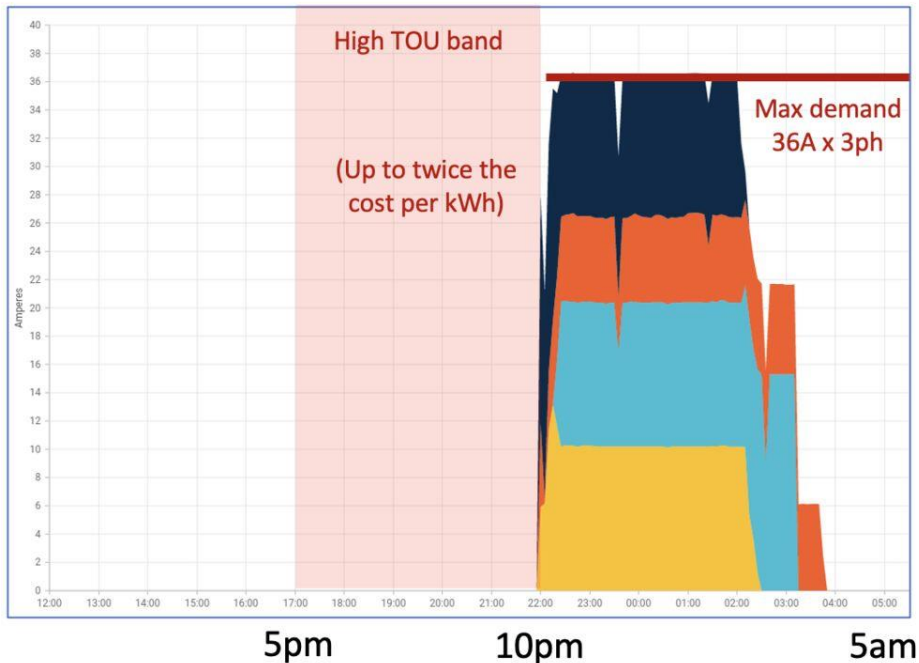
● Allocated	16 / 16A	16 A
● Reserved		0 A
● Reserved for other loads		20 A
● Free		4 A

Tree	Status	Allocated / Limit (log sc...	
▼ 📍 Wevo Office			...
▼ 🏢 Office Main 📶		<div><div></div></div> 16 / 40A	...
⚡ Charger 1	● Charging	<div><div></div></div> 16 / 16A	...
⚡ Charger 2	○ Available	<div><div></div></div> 0 / 16A	...
⚡ Charger 3	○ Available	<div><div></div></div> 0 / 16A	
⚡ Charger 4	○ Available	<div><div></div></div> 0 / 16A	...

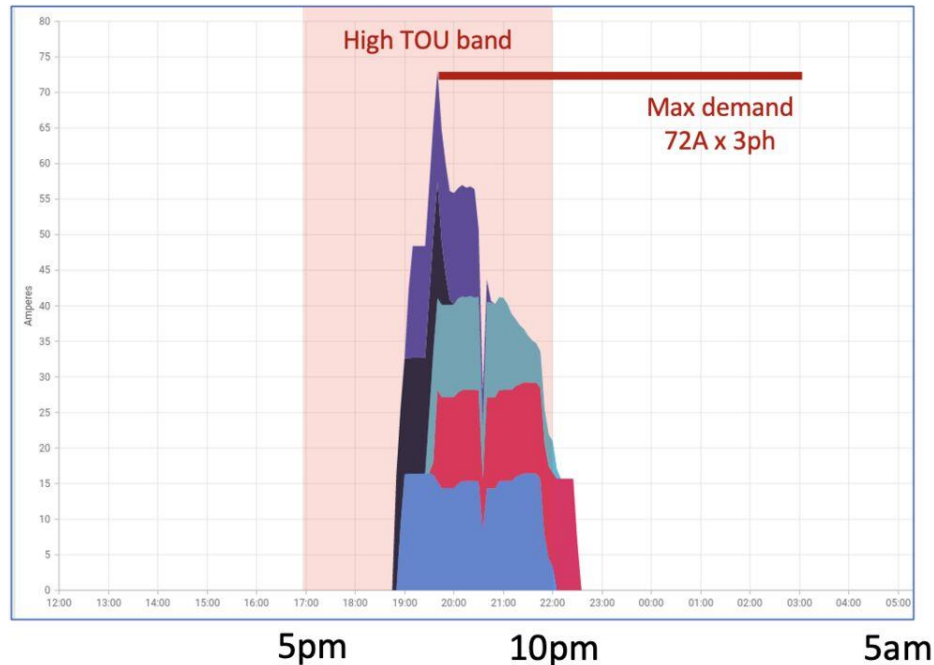
● Allocated	16 / 16A	16 A
● Other loads		19.20 A
● Free	0 / 16A	4.80 A

A Tale of Two Buildings

Building A – Energy Management ON



Building B – Energy Management OFF



Optimizing Operations: Delight Drivers, Pay Less



**Driver
Behavior**



**Differential
Pricing**



**Ease of
Use**

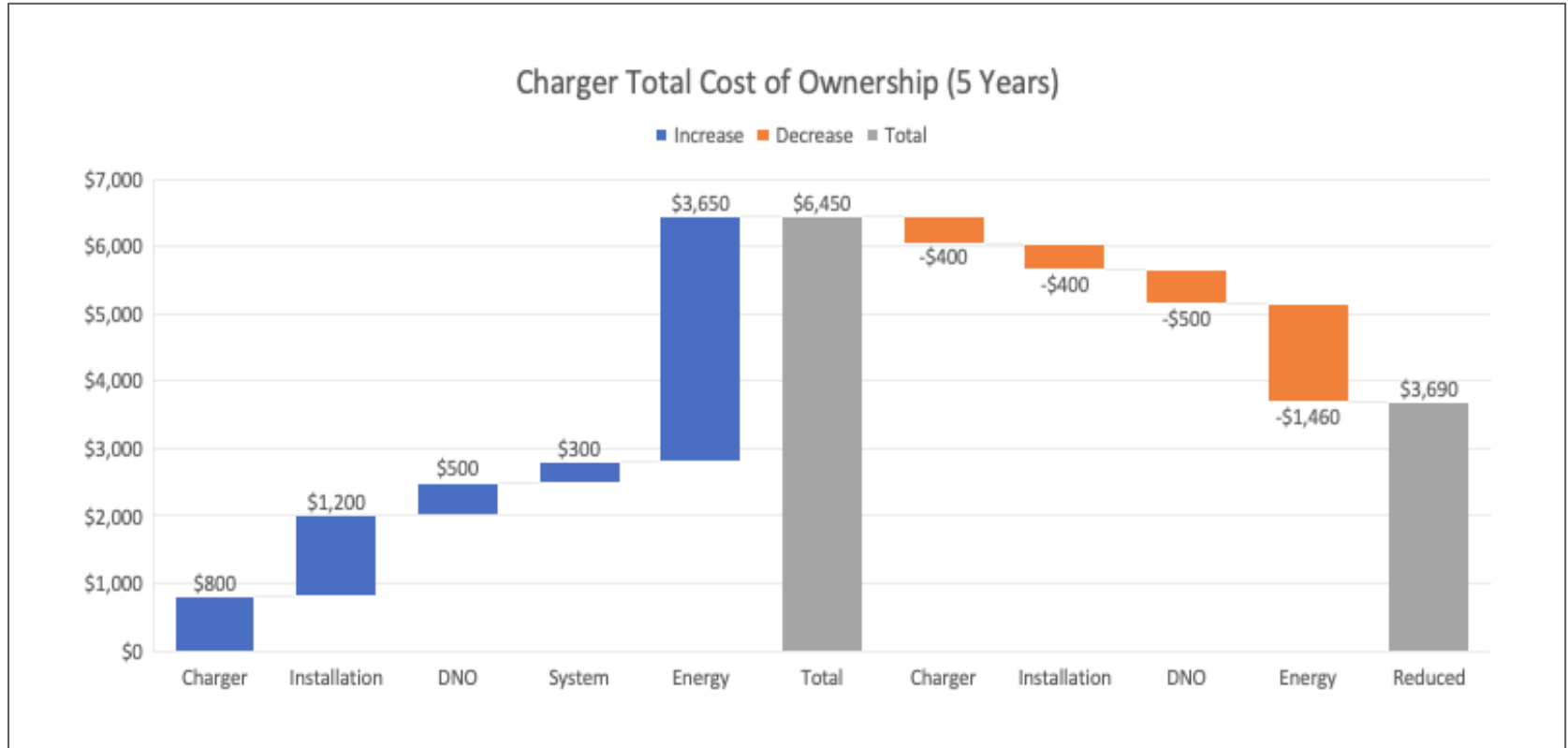


**Grid
Status**



**Clean
Energy**

Up to ~50% of charger TCO could be reduced



Thank You .

marinah@wevo.energy

