



In a forward-thinking initiative to reduce carbon emissions through fleet electrification, Mecklenburg Paint Company (MPC) has partnered with Inovis Energy, a leading energy services company, and Atom Power to transition its fleet to electric vehicles (EVs), starting with the installation of dual-port Atom EV chargers at its facility in Charlotte in 2023.

Mecklenburg Paint Company partnered with Inovis Energy to manage their fleet electrification project, and leveraged Atom’s power management platform to avoid transformer and service upgrades.



Mecklenburg Paint Company’s Electrification Goals

- Engage a turnkey partner to manage their electrification process, from the initial design phase to assisting with securing workplace charging grants and funding.
- Charging stations with proven network uptime reliability metrics to avoid fleet availability issues, reduce maintenance and service needs, and provide a low total cost of ownership.
- Power management capabilities that charge the full fleet of vehicles on their existing infrastructure.
- Maximize the use of available rebates for commercial customers, reducing EV charging deployment costs.



Solution Highlights

Inovis Energy installed four dual-port level 2 48A (11.2 kW) Atom EV chargers to energize eight electric vehicle spots. Inovis Energy selected Atom Power chargers because their solid-state circuit breaker charging at the panel level coupled with Atom’s power management platform scaled to MPC’s needs while eliminating the need for a transformer and utility service upgrade.

- Traditional chargers would have necessitated a utility transformer upgrade, thereby increasing costs and project timeline, but Atom’s innovative dynamic power management enabled the installation of eight charging ports using the existing transformer capacity, avoiding additional costs and project delays.
- Atom’s EV solution utilizes a solid-state circuit breaker to centralize charging at the panel level and is fully networked for secure, on-premise and cloud-based asset and power management, increasing security and network uptime reliability.
- Inovis Energy assisted MPC in securing multiple funding sources for the project, including the NC DEQ state grant for workplace charging and the Duke Energy commercial charger prep credit.



Results

- In partnering with Inovis Energy and selecting Atom EV chargers, Mecklenburg Paint Company is on track to reduce their carbon emissions and fully transition their fleet to electric vehicles.
- Inovis Energy installed eight Atom EV 48A charging ports.
- Mecklenburg Paint Company avoided transformer and utility service upgrades by utilizing Atom’s dynamic power management which charges more vehicles utilizing existing infrastructure and avoids peak demand charges.
- The project was eligible for NC DEQ state grant funds for workplace charging and the Duke Energy commercial charger prep credit, making the project more affordable.