

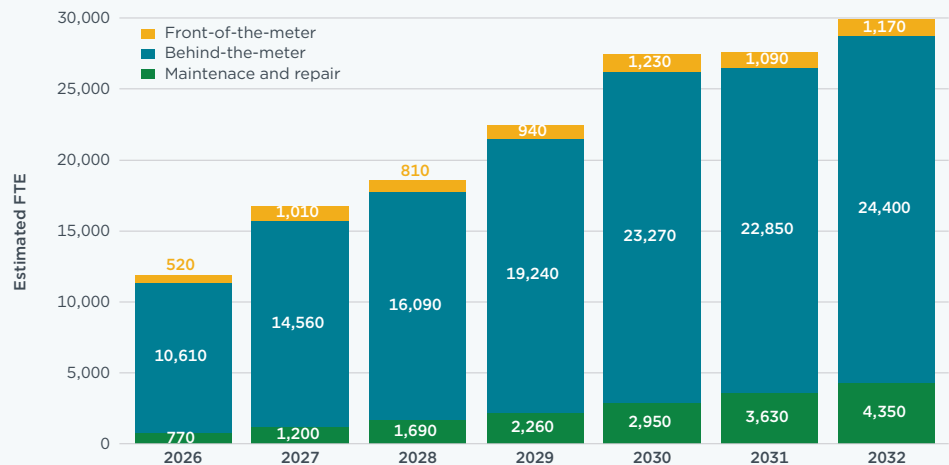
HOW EV TAX CREDITS COULD SPUR JOB GROWTH IN TRUCK CHARGING INFRASTRUCTURE

NATIONAL HIGHLIGHTS

- » In 2032, the ICCT projects that tax incentives (45W and 45X tax credits) could support adoption of over 1 million Class 4-8 zero-emission medium- and heavy-duty vehicles (MHDVs).
- » These vehicles could require over 633,000 chargers and 48 GW by 2032.
- » The associated infrastructure build-out would require an estimated minimum of 30,000 full-time equivalent (FTE) jobs.

Figure 1

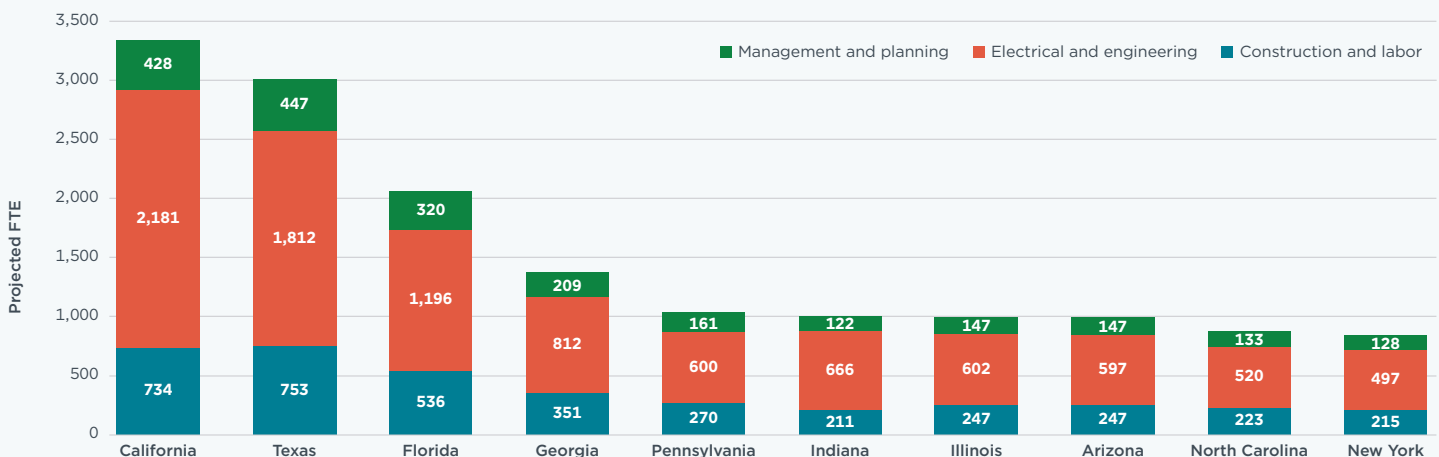
Projected medium- and heavy-duty vehicle infrastructure job demand from 2026 to 2032



Of total job demand in 2032, those in the electrical and engineering category make up 62%, construction and labor are 24%, and management and planning are 14%.

Figure 2

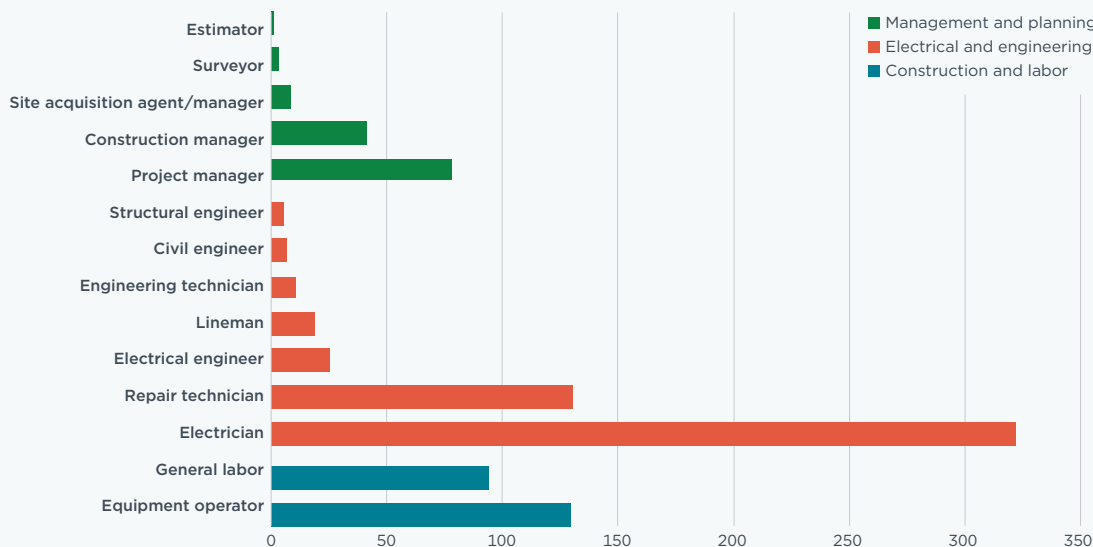
Top 10 U.S. states by job demand for charging and utility infrastructure, 2032



TRUCK CHARGING AND UTILITY INFRASTRUCTURE NEEDS FOR NORTH CAROLINA

Figure 3

Estimated jobs demand in North Carolina, 2032



North Carolina ranks 9th in terms of projected job demand from infrastructure build out.

In 2032, new infrastructure growth in North Carolina is projected to require a minimum of 876 FTE jobs.

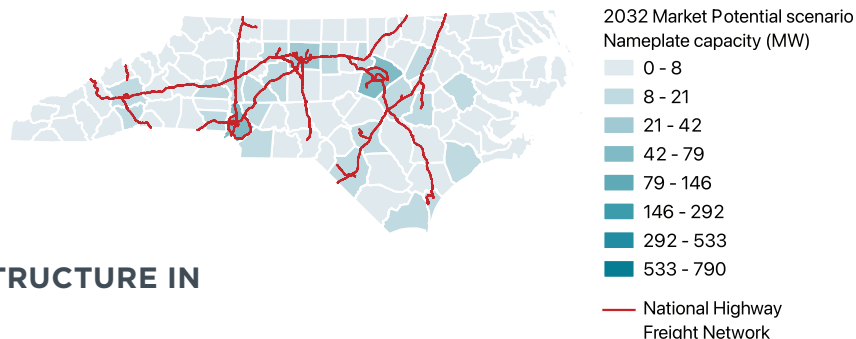
The ICCT estimates North Carolina will require charging infrastructure totaling about 1.3 GW in nameplate capacity by 2032.

In terms of job demand, the top 5 counties are:

- » Mecklenburg County - 76 FTE
- » Wake County - 75 FTE
- » Guilford County - 43 FTE
- » Cumberland County - 23 FTE
- » Buncombe County - 23 FTE

Figure 4

North Carolina charging infrastructure nameplate capacity, 2032



STATUS OF TRUCK CHARGING INFRASTRUCTURE IN NORTH CAROLINA

In November 2024, Duke Energy and Electrada launched a zero-emission, carbon-free microgrid for fleet charging in Mount Holly.¹ Six chargers have been installed for vehicles to charge using grid energy or the local microgrid, which is powered by solar, battery storage, hydrogen, and other types of generation. The site is being used as an innovation hub to allow Duke Energy to study charger use, performance, and energy management.²

1 Robert Walton, "Duke Energy, Electrada Launch Microgrid EV Charging Hub in North Carolina," Trucking Dive, December 2, 2024, <https://www.utilitydive.com/news/Duke-north-carolina-microgrid-ev-charging-hub-Entrada-Daimler-Truck/733710/>.

2 Duke Energy, "Duke Energy's First-of-Its-Kind Microgrid Solution Offers Carbon-Free Charging Option for Commercial Vehicle Fleets," press release, November 21, 2024, <https://news.duke-energy.com/releases/duke-energys-first-of-its-kind-microgrid-solution-offers-carbon-free-charging-option-for-commercial-vehicle-fleets>.

www.theicct.org

communications@theicct.org

[@theicct.org](https://twitter.com/theicct.org)

icct
THE INTERNATIONAL COUNCIL
ON CLEAN TRANSPORTATION