

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%.

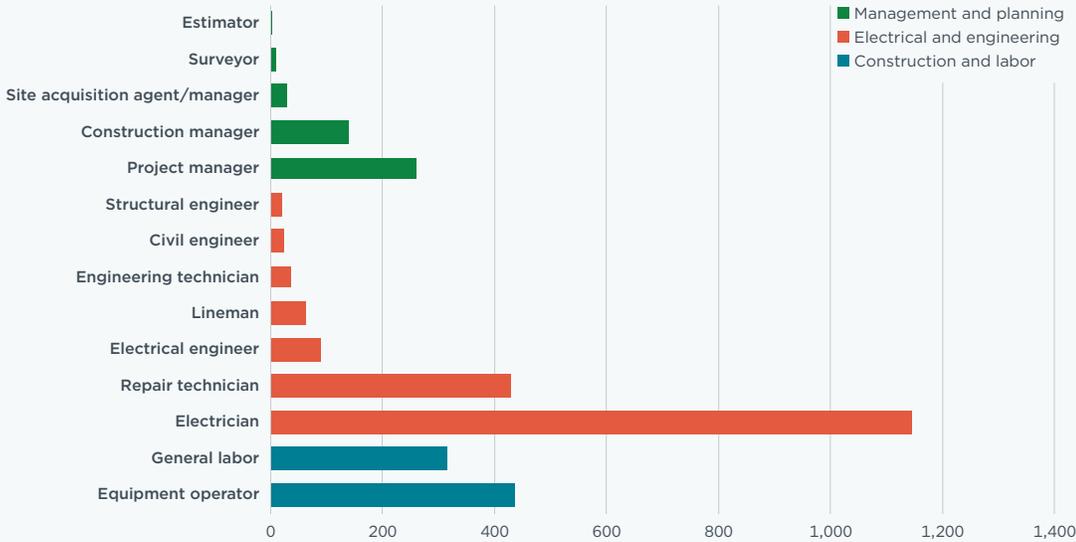
Figure 2

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



TRUCK CHARGING AND UTILITY INFRASTRUCTURE NEEDS FOR TEXAS

Figure 3
Estimated job demand in Texas, 2032



Texas ranks 2nd in terms of projected job demand from infrastructure build out.

In 2032, new infrastructure growth in Texas is projected to require a minimum of 3,011 FTE jobs.

The ICCT estimates Texas will require charging infrastructure totaling about 4.3 GW in nameplate capacity by 2032.

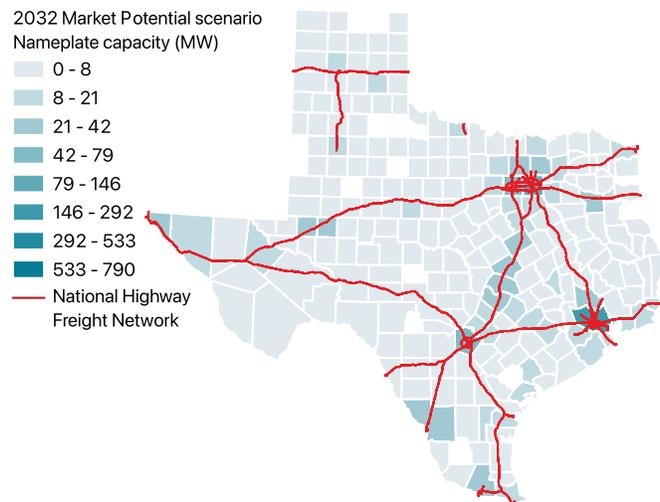
In terms of job demand, the top 5 counties are:

- » Harris County - 296 FTE
- » Dallas County - 201 FTE
- » Tarrant County - 141 FTE
- » Bexar County - 112 FTE
- » Travis County - 84 FTE

STATUS OF TRUCK CHARGING INFRASTRUCTURE IN TEXAS

The Texas Department of Transportation led an interagency task force to evaluate HDV charging infrastructure deployment and presented their findings and recommendations to the state legislature in September 2024.¹ Among its recommendations, the report urged the government to allow proactive utility investments to serve zero-emission medium- and heavy-duty vehicle in major freight corridors.

Figure 4
Texas charging infrastructure nameplate capacity, 2032



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¹ Texas Department of Transportation, "Rider 48 Evaluation of Medium-Duty and Heavy-Duty Vehicle Charging Infrastructure and Capacity," (September 2024), <https://www.txdot.gov/content/dam/docs/government/rider-48-report.pdf>.