



Researching Best National Practices in EV Charging

By: Sam Nutile



IEA Global EV Outlook 2024

- Global EV Outlook combines historical data and projections to 2035, covering EV uptake, charging infrastructure, battery usage, financial trends, and policy developments within markets

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Global EV Outlook 2024

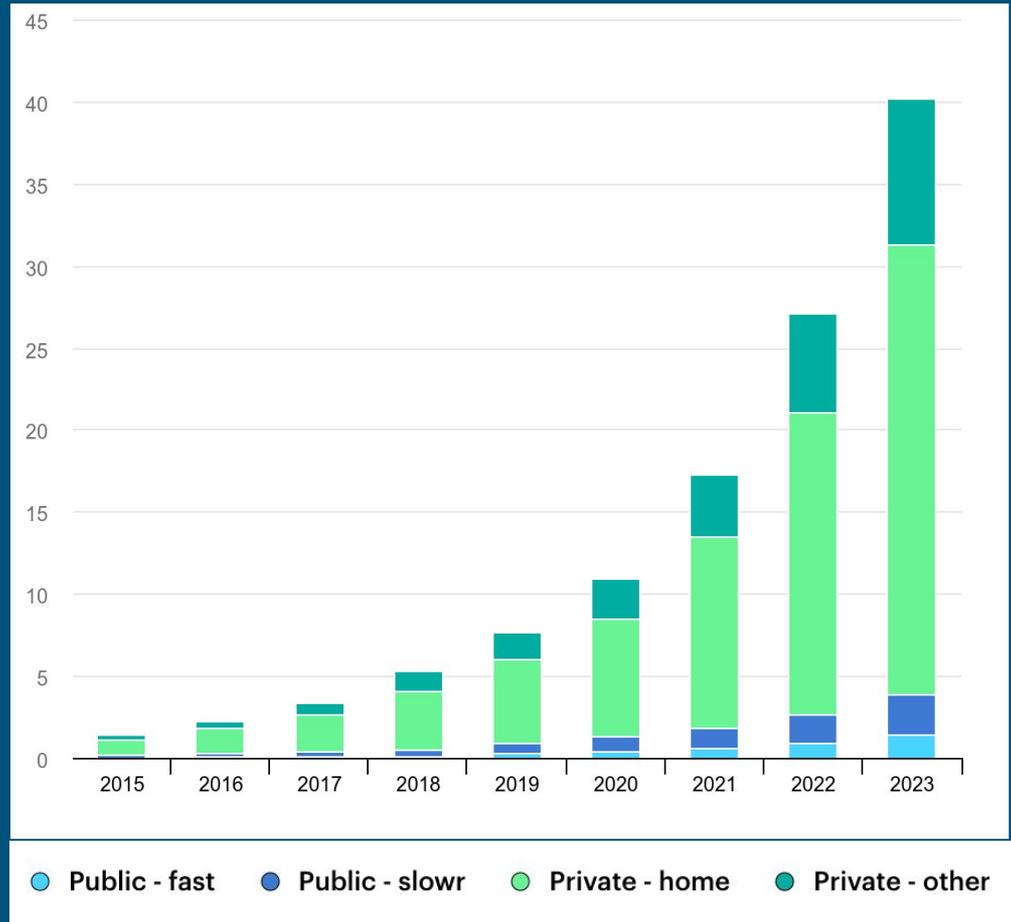
Moving towards increased affordability

International
Energy Agency



Global Trends in EV Charging

- **Private Chargers Outnumber Public Chargers:** Nearly ten private chargers exist for every public one globally
- **Home Charging Benefits:** Convenient, cost-effective, and aligns well with off-peak electricity rates

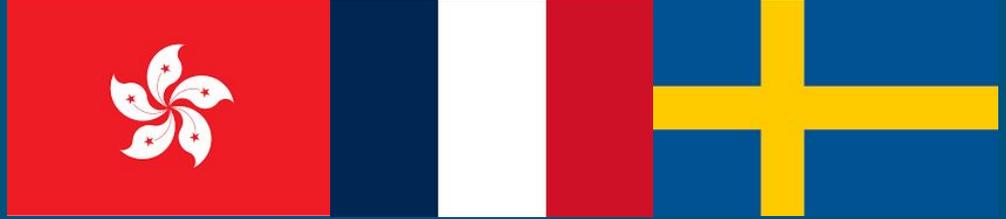


Source: IEA Global EV Outlook 2024

Policies to Promote Residential Charging

- **Building Codes and Standards:** Require new homes to be EV-ready
 - EU has committed to reducing energy use in their multi dwelling residences
- **Financial Incentives:** Tax credits and rebates for charger installations
 - UK government offers up to 350 pounds for the installation of residential EV chargers
- **Right-to-Charge Laws:** Enable tenants and condo owners to install chargers

Examples



- **Hong Kong:** EV-charging at Home Subsidy Scheme ([EHSS](#)) promotes the installation of EV chargers, aims to facilitate home-based charging for EV owners
- **France:** The [ADVENIR](#) program provides financial support for the installation of private EV chargers, aims to install thousands of new chargers, including those in residential areas
- **Sweden:** The government offers [grants](#) to private individuals for the installation of chargers for electric vehicles, encouraging the growth of home charging infrastructure

How Can the US Improve

- **Uniform Building Codes:** There's a need for national building codes that ensure consistency and readiness to handle EV vehicles across all states
- **Awareness and Accessibility:** Increasing public awareness about incentives and simplifying the application processes can encourage more homeowners to install chargers
- **Support for Multi Dwelling Units:** Special attention is required to address the challenges of installing chargers in multi-family residences, making sure all residents have access to at-home chargers



Thank You!!