**Avangrid Challenge**

Use AI to design a strategic plan for the development of public EV charging stations (level 2 and DCFC) in one of Avangrid Networks’ service territories. Consider how AI can analyze various factors such as EV adoption rates, geographic constraints, energy supply and system upgrades to determine optimal locations and capabilities for charging infrastructure. Include a roadmap to implementation.

Here is some supplemental information for the prompt:

* [Avangrid 2022 Sustainability Report](https://www.avangrid.com/documents/453723/0/23-5297+Sustainability+Report+2022_4.8-+Final.pdf/bed349e8-22f4-1e6c-0749-ab12ab68eff4?t=1684766312434) – see pages 7, 32
* [Electric Vehicles - Avangrid](https://www.avangrid.com/es/sustainability/technologyandinnovation/electricvehicles#:~:text=In%202022%2C%20we%20expanded%20our,EV%20charging%20ports%20by%202030.)
* Maps of our service territories:
  + NYSEG and RG&E: [NYSEG/RGE EV Load Capacity (arcgis.com)](https://www.arcgis.com/apps/webappviewer/index.html?id=b0aa511b66d1409fbf87b46b50339a06)
  + CMP: [CMP Load Hosting Capacity Map (arcgis.com)](https://iusamsda.maps.arcgis.com/apps/webappviewer/index.html?id=4ef4d435464a443c8e547eb35ae37285)
  + UI: [UI EV Hosting Capacity (arcgis.com)](https://www.arcgis.com/apps/webappviewer/index.html?id=b5fe4d1060b14b14893a880ddb1e10c8)
* [Alternative Fuels Data Center: Electric Vehicle Charging Station Locations (energy.gov)](https://afdc.energy.gov/fuels/electricity_locations.html#/find/nearest?fuel=ELEC)
* [Avangrid Networks - Avangrid](https://www.avangrid.com/es/aboutus/avangridnetworks)
* [The 50 States of Electric Vehicles: State ZEV Targets, Managed Charging, & LMI Access Prioritized in 2022 | Fuel What Matters](https://www.fuelwhatmatters.org/the-50-states-of-electric-vehicles-2022/)
* [Electricity - U.S. Energy Information Administration (EIA)](https://www.eia.gov/electricity/)