

Electric Vehicle Solutions

Rethinking Energy.
Advancing Tomorrow.

Electric Vehicle Charging is a Journey...

Pioneer in the Electric Vehicle consulting sector.

Electric Vehicle charging is a journey, not a project. Turtle is dedicated to supporting our customer partners in designing their solution.

With substantial experience in EV, our expert team is well-versed in the nuances of electric vehicle technology, governmental regulations, and collaborations with utilities.

Our expertise lies in assisting businesses in achieving improved cost efficiency and a seamless transition towards sustainable electrification.



Four core offerings for your EV journey



Studies

Our consulting services cater to businesses in the process of transitioning to electric vehicles. Our offerings include fleet assessments, infrastructure evaluations, utility coordination, incentive administration, and regulatory compliance guidance.

We offer a host of site evaluation studies.

- Utility capability assessment.
- Circuit Power automation and design
- Integration of renewables and energy storage.

Infrastructure Planning

Planning for EV includes decisions beyond power. We can coordinate structural assessments, video, communications, lighting and security.

Policy Consulting

Collaborating with governmental agencies and policymakers, we offer insights and counsel regarding EV-related policies, incentives, and regulations.

Turtle differentiators created by what we heard from our customers



EV Consulting Services EV Fleet Electrification EV Charging Infrastructure Planning

EV Government and Policy Consulting



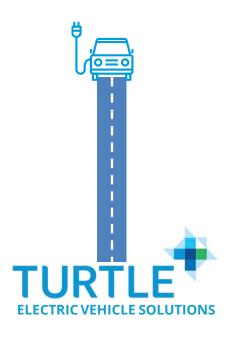
We understand that each business is unique. Our tailored approach ensures that your EV adoption strategy aligns with your operational needs, budget constraints, and timeline.

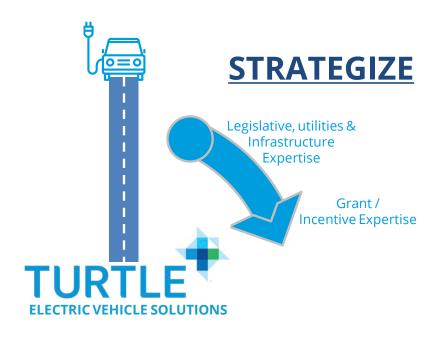
Comprehensive Guidance...

From initial consultation to implementation and beyond, Turtle is by your side every step of the way. We provide ongoing support and updates to industry changes

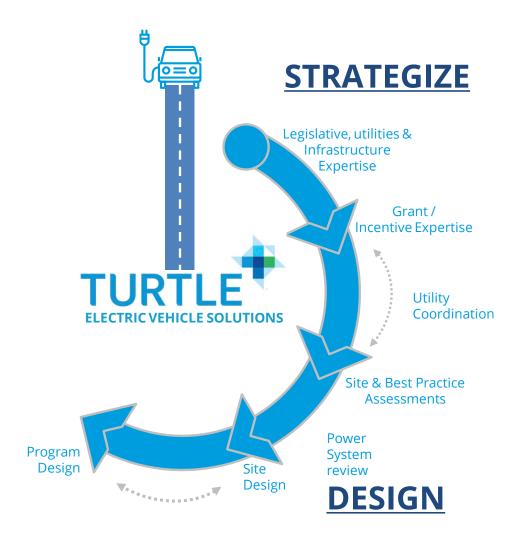
Budget-driven Approach...

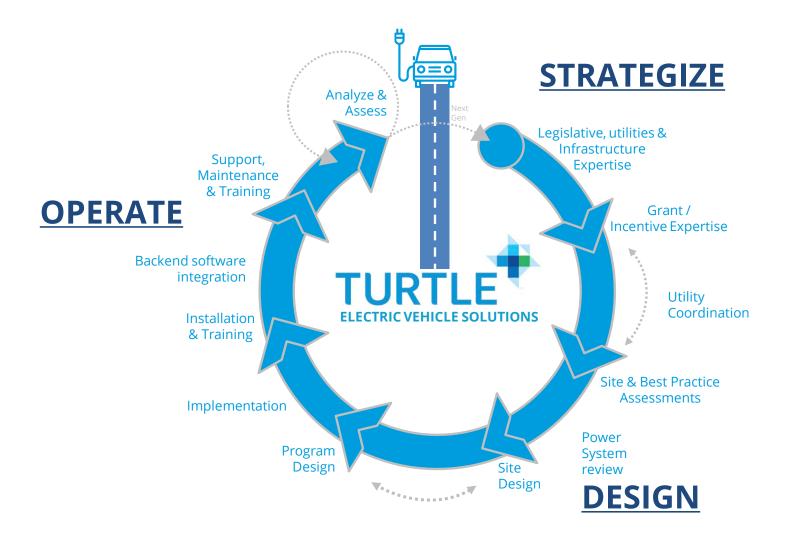
Our services are designed to deliver tangible results. By optimizing tax incentives and utility partnerships, we help you achieve substantial cost savings while contributing to a greener environment.





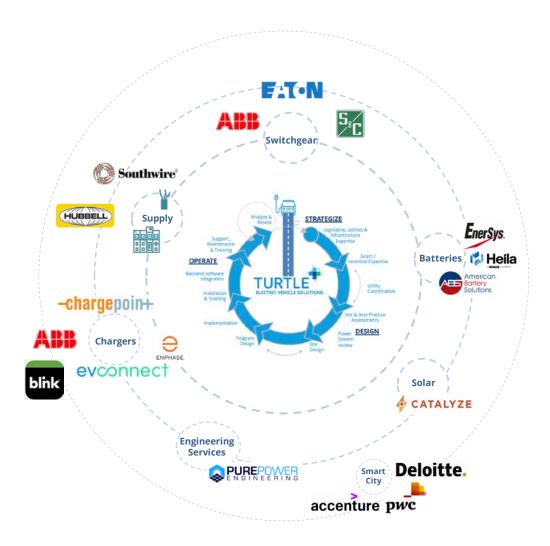






Leveraging our world class partner ecosystem

100+ years of radical collaboration



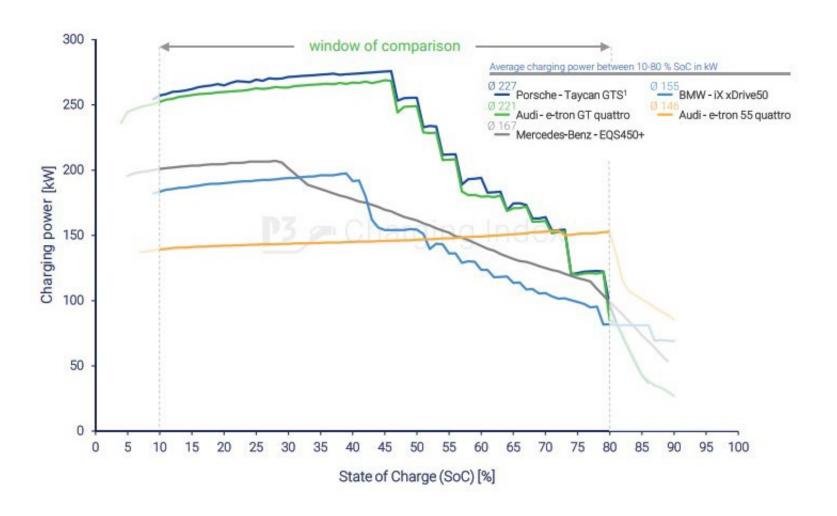




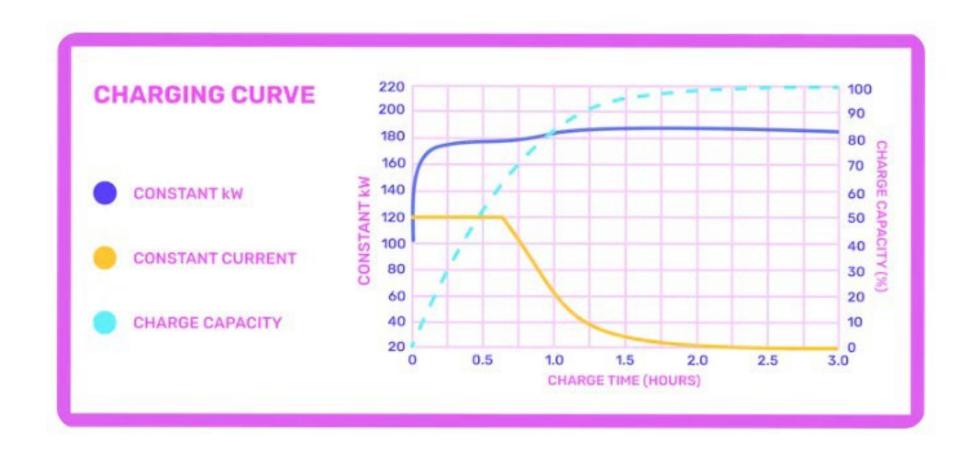
Turtle Electric Vehicle Solutions provides the guidance to build a solid foundation.

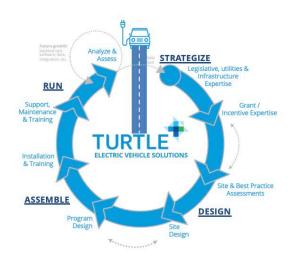
Through understanding of the variables, we can help you design a cost effective and efficient fleet that can grow with your business.

EV Charging is not the same across vehicles



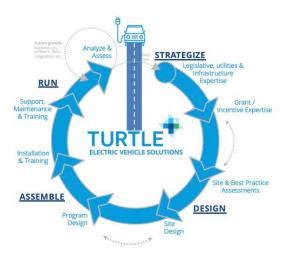
EV Charge curve effects





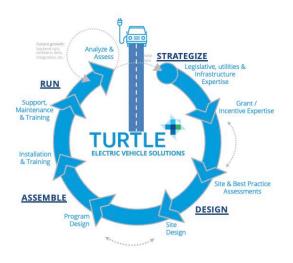


- What features in my fleet that I need in the EV equivalent?
- What is the range of my routes?
- What is my cost per mile/route?



1. Evaluating The EVs

- What features in my fleet that I need in the EV equivalent?
- What is the range of my routes?
- What is my cost per mile/route?



Core Turtle Expertise

Tax Incentive Optimization:

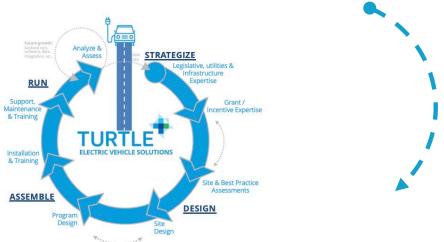
Dedicated team scours federal, state, and local tax incentives to identify opportunities that align with your business goals. We ensure you make the most of available tax benefits, maximizing your ROI.

Utility Coordination:

Turtle acts as your liaison, navigating the complexities of utility relationships, and facilitating effective communication with utility providers to streamline the integration of EV charging infrastructure. We ensure your business capitalizes on advantageous utility rates, demand management strategies, and charging infrastructure grants.

1. Evaluating The EVs

- What features in my fleet that I need in the EV equivalent?
- What is the range of my routes?
- What is my cost per mile/route?



Core Turtle Expertise

Infor to be included here detail here

2. Evaluating Infrastructure

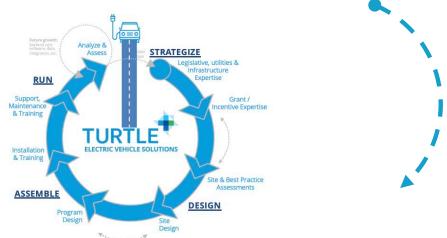
- What How many chargers will I need
- How much power do I need?
- Where will I install my chargers??
- How do I future-proof my infrastructure investment?

1. Evaluating The EVs

- What features in my fleet that I need in the EV equivalent?
 - What is the range of my routes?
 - What is my cost per mile/route?

3. Operating The EV's

- How do I ensure the EV's are charged?
- How do I ensure the EV's stay charged?
- How do I control electricity costs?
- What maintenance do need to budget for?



2. Evaluating Infrastructure

- What How many chargers will I need
- How much power do I need?
- Where will I install my chargers??
- How do I future-proof my infrastructure investment?

Core Turtle Expertise

Infor to be included here detail here

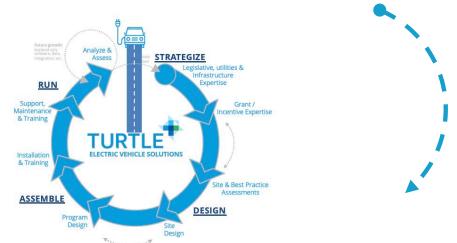
- What features in my fleet that I need in the EV equivalent?
- What is the range of my routes?

1. Evaluating The EVs

What is my cost per mile/route?

3. Operating The EV's

- How do I ensure the EV's are charged?
- How do I ensure the EV's stay charged?
- How do I control electricity costs?
- What maintenance do need to budget for?



2. Evaluating Infrastructure

- What How many chargers will I need
- How much power do I need?
- Where will I install my chargers??
- How do I future-proof my infrastructure investment?

Questions about the fleet

1. How many total vehicles today?

What about in 10 years?

2. What types of vehicles?

What Class, what Features?

3. What types of Routes?

Longest routes, shortest routes, specific vehicles for certain routes?

What are the current cost per mile to operate by fuel?

What is the timeline for transition?

Do we have the Skills to manage?



Questions about the site



2. Does the Utility have enough power?

3. Where will I store/charge the vehicles?

- 4. How do I coordinate with landlord?
- 5. Will this site support my growing fleet?

6. Do I need an energy back-up system? Load shaving? Back feeding?





- 1. Do I have enough power?
- 2. <u>Does the Utility have enough</u> <u>power in the area?</u>
- 3. Where will I store/charge the vehicles?
 - 4. How do I coordinate with landlord?
- 5. Will this site support my growing fleet?
- **6. Do I need an energy back-up system?** *Load shaving? Back feeding?*



1. How many total EV's do we need today?

What about in 10 years?

2. What types of vehicles?

What Class, what Features?

3. What types of Routes?

Additional questions

Longest routes, shortest routes, specific vehicles for certain routes?

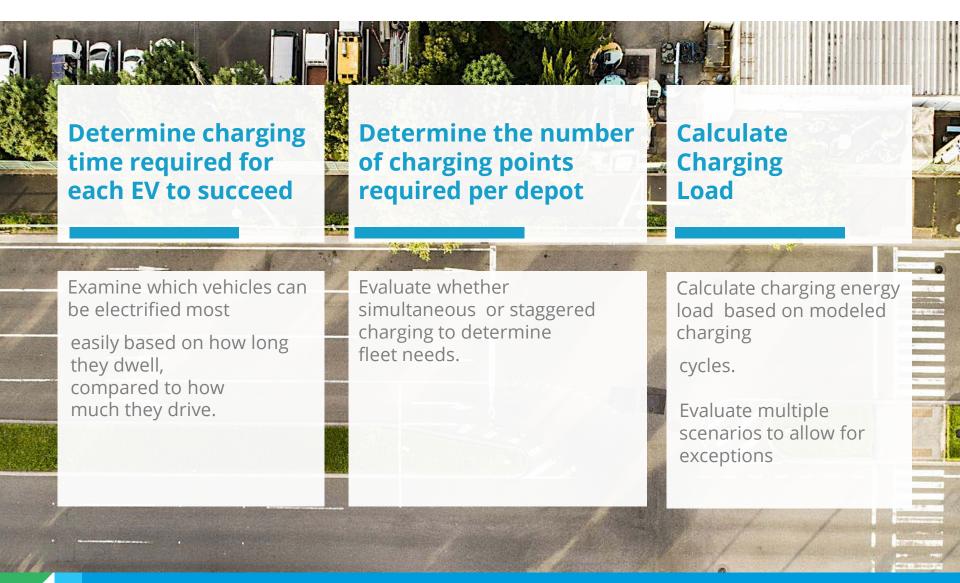
...What are the current cost per mile to operate by fuel?

...What is the timeline for transition?

...Do we have the Skills to manage?

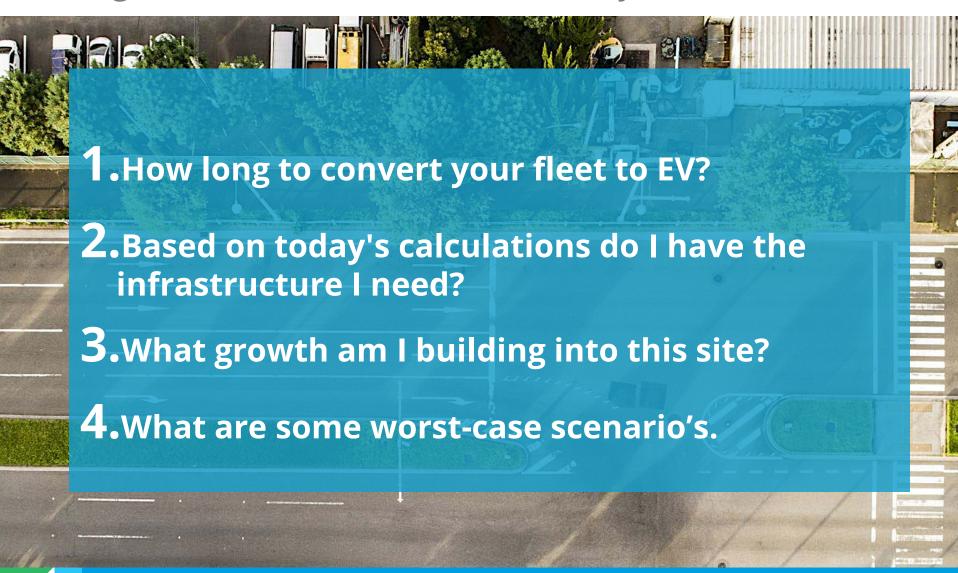
Foresight into Infrastructure design

Fundamentals of Dwell time



Infrastructure and capacity needs

Design to current and future needs of your fleet



Utility requirements

Key questions

Is there an EV rate? What are the TOU parameters? Are any seasonal? What are the Demand Charges? What are the Demand Charges? What is my load factor and at what kWh does it kick in? What voltage is running along my building? How much capacity is there? How much room is on my existing transformer? Determine charging time required for each EV to succeed?

Infrastructure Plan Considerations

Plan for reality not perfections





Utilize it for emergencies

Start small with a pilot & use learning to solidify your deployment plan

Assess the impact of a power failure on your operations

Plan for backup

Infrastructure Plan Considerations

Plan for reality not perfections



Public charging may not as reliable option for many operations

Utilize it for emergencies

Start small with a pilot & use learning to solidify your deployment plan

Assess the impact of a power failure on your operations

Plan for backup

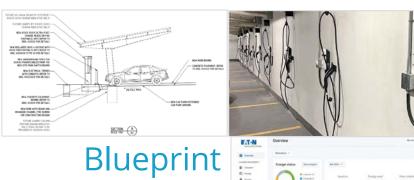
Multi-Unit Residential (MUR)

Today



"What happens when my 250 unit property has 100+ Electric Vehicles?"

Rethinking Tomorrow







Operationalize

ACF & ACT work in Tandem. Which states are adopting ACT

State	Status	Beginning MY	Fleet Reporting Date
California	Adopted	2024	April 1, 2021
Oregon	Adopted	2025	June 30, 2022
Washington*	Adopted	2025	Not required
New Jersey	Adopted	2025	April 1, 2023
New York	Adopted	2025	April 1, 2023
Massachusetts*	Adopted	2025	Not required
Vermont	Adopted	2026	Not required
Colorado	Draft Rule Language Released	2027	December 31, 2023
Maine	Preliminary Rulemaking Process	2026	Not required
Connecticut	Preliminary Rulemaking Process	-	
North Carolina	Preliminary Rulemaking Process	-	}
Rhode Island	Preliminary Rulemaking Process		
DC	In Review	- "	
15 /2			

^{*} Large entity reporting requirement is being adopted separate from ACT rule and

In Review

Maryland



The Inflation reduction Act & Revised Outlook

Select production tax credits are phased out in 2032



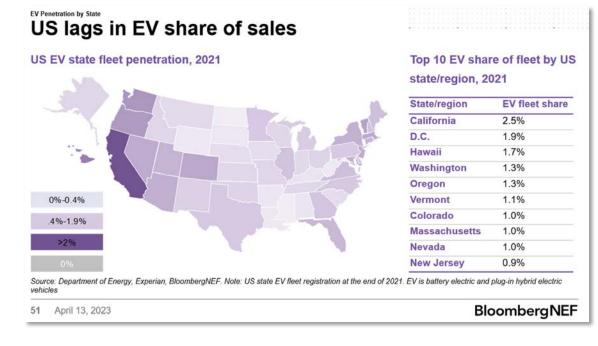
Tax credits

	Area	Tax credit
Input	Critical minerals*	10% of costs
materials	Battery electrode active materials	10% of costs
Batteries	Battery cells	\$35/kWh
	Battery modules**	\$10*/kWh
Applications	EVs***	\$7,500**
	Energy storage****	6% (base credit) Up to 30% + 10%

Production tax credits' timeline for battery electrode active materials, cells and modules



Source: BloombergNEF. Note: *Critical minerals require mining or refining of the material in the US at specific purity levels. ** Battery module tax credit can go up to \$45/kWh for modules which do not use battery cells. ***EV credits include additional incentives for used clean vehicles and commercial clean vehicles, which are not directly tied to battery manufacturing in certain locations so have been removed from this table. ****Energy storage is eligible for additional credits of 10% energy community adder and 10% or 20% environmental justice adder, under specified provisions that will be further clarified by December 31, 2022.





California 125k EV Cars Q2'23 \$200M in chargers

Mass. 8000 Cars \$12M in chargers

370k EV sold in Q2 2023. Up 59% YOY

Turtle

