IANA
INTERMODAL ASSOCIATION
OF NORTH AMERICA

Electrifying Confidently: How to Begin Incorporating EVs Into Intermodal Fleets

Wednesday, March 27, 2024
2:00 PM EST

Agenda

1. Introduction
2. Today’s Presentation

Webinar Format

- Audience will be muted
- Please feel free to submit questions throughout the presentation
- Submit questions by clicking the Q&A icon at the bottom of your screen
- This webinar will be recorded and will be available on intermodal.org for on-demand viewing.

IANA
INTERMODAL ASSOCIATION OF NORTH AMERICA

Terawatt

Our mission.

We power electrified fleets with the most reliable network of charging solutions.

Capital raised

$1B

We're here for the long haul. That's why we've invested in the best locations, the right team, and infrastructure built to last.

Sites under development

14

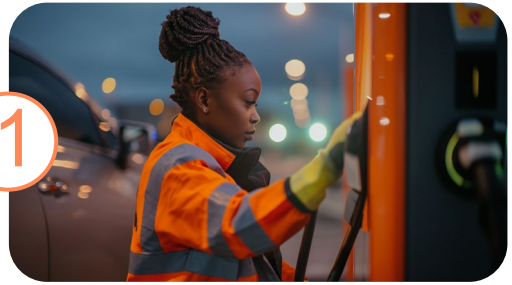
Development is underway on a multitude of sites across the U.S., with many more in the pipeline. Of these, 4 are slated to come online in 2024.

EV trucks emit

63%

Less greenhouse gas than diesel trucks, meaningfully reducing your business's CO2 emissions.

Your trusted partner in navigating the EV transition



Rest easy knowing you're in capable hands.

Our team of experts is deploying over $1 billion in capital to acquire, build, operate, and maintain charging centers —so you can focus on your core business.

Unlock turnkey solutions that fit your needs.

We'll work with you to determine what types of sites will fit best with your fleet's operations —including ones built to your exact specifications or behind your own fence.

Enjoy high-powered, worry-free charging.

We combine best-in-class hardware, software, and maintenance services to provide the most reliable charging experience on the market..

Charging is complex, especially at scale.

Vehicles	10 cars	20 HD trucks	100 HD trucks
Chargers	10 Levels 2s	5 DC Fast Chargers (350IW)	10 DC Fast Chargers (1 MW+)
Site Power:	0.2 MW	2 MW	10 MW
Cost:	Tens of thousands	Single digit millions	Tens of millions
Timeline:	1 month	18 months	24+ months

Terawatt is uniquely positioned to be North America's HD EV infrastructure backbone.

Critical advantages:

- Portfolio of existing sites
- Proprietary, strategic approach

Focus on three corridors:

- I-10: Los Angeles, CA to Jacksonville, FL
- I-5: Otay Mesa, CA to Blaine, WA
- I-40: Barstow, CA to Wilmington, NC

Considerations limiting onsite charging development

Space

Charging requires dedicated parking spots or stalls.

Power

Even at a small scale, EV charging may require much more power than currently available.

Capital

These projects are expensive and require upfront investment.

Scalability

Building onsite means overbuilding to provide future runway or multiple construction projects to accommodate growth.

Solutions we offer

1. **Charging Infrastructure**
   On Terawatt-owned land or behind your fence

2. **Charging Services**
   Software, operations and maintenance

Multi-tenant

- Network of reliable shared charging sites
- Flexible, convenient locations help you recharge quickly
- Increase usability of every truck
- Only pay for the energy you use

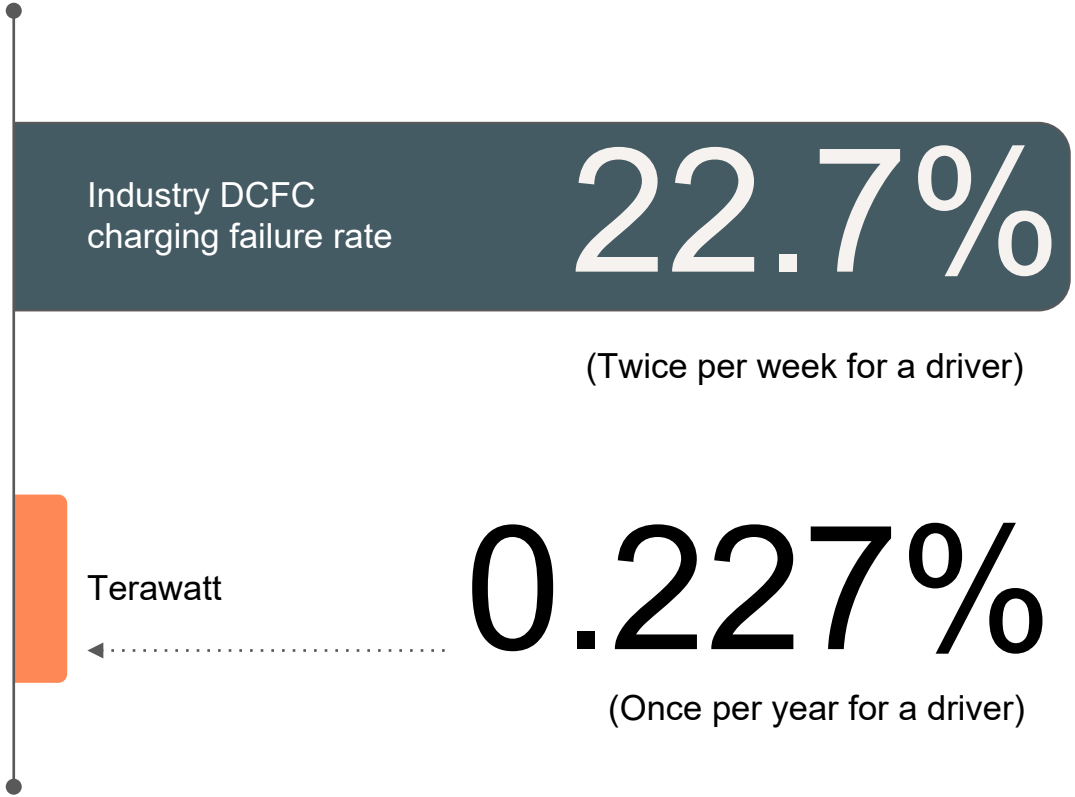
Built to suit

- Custom charging site for your exact space and power needs
- Choose your location, specs, and amenities
- Development and operations handled by TW for a fixed monthly fee

Behind the fence

- Custom charging site built in your own property
- Conveniently charge in your own backyard
- Development and operations handled by TW for a fixed monthly fee

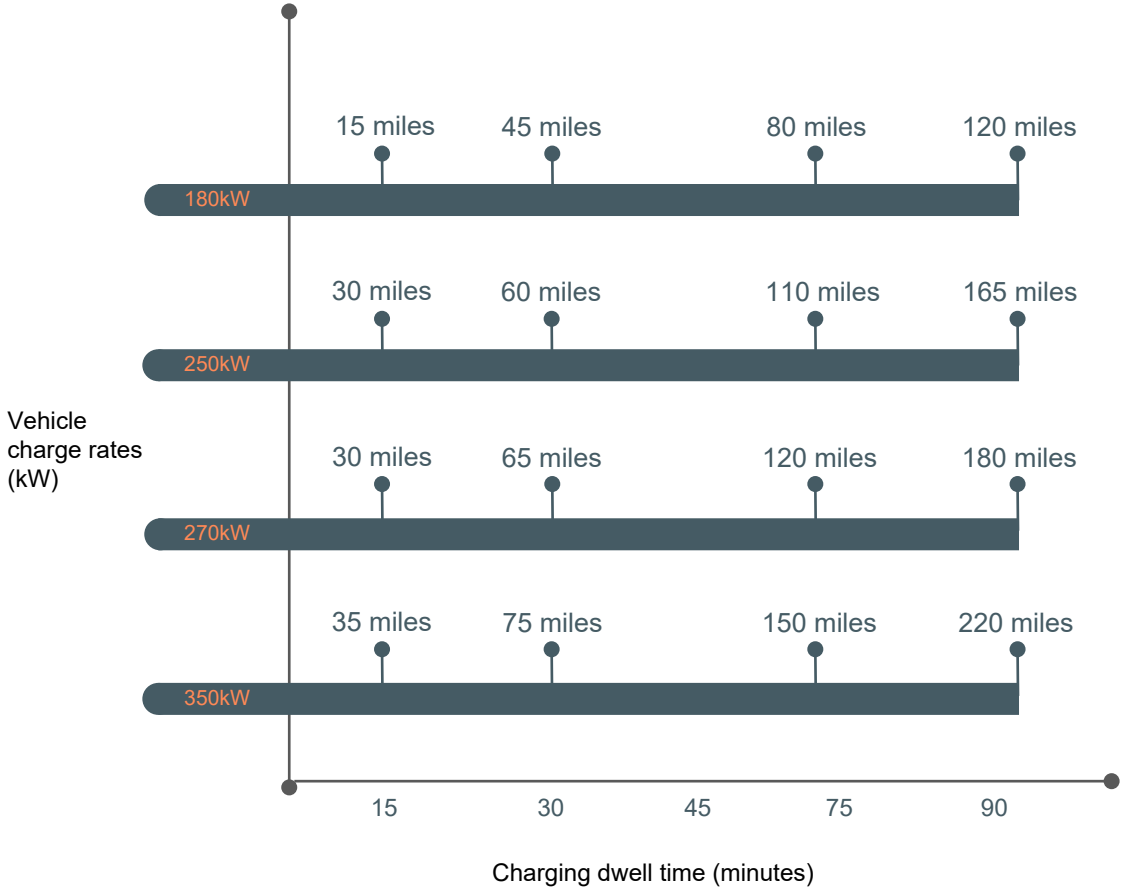
Reliability matters



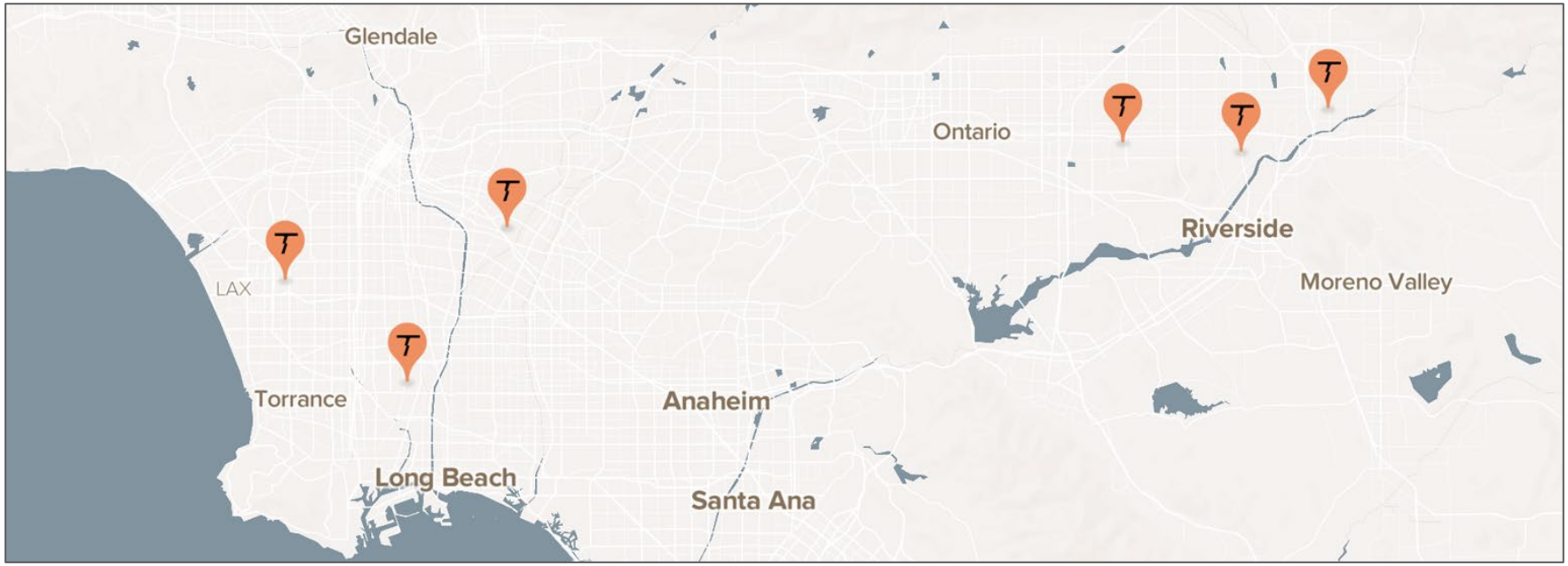
Current charge times & range recovery:

Trucks available on the market today can recoup up to 75 miles in 30 minutes or less at a Terawatt site.

Terawatt sites use 350 kW chargers, the fastest available speed today, and will be upgrading to ultra-fast megawatt charging over time.



Terawatt Los Angeles Sites Next 18 Months



Case study
Port of Long Beach–Lebec EV Lane Testing

Challenge.
- Shipper + carrier wanted to test a Class 8 EV truck
- Insufficient range to enable testing without installing additional charging

Solution.
- Terawatt planned a month-long daily pilot and installed a temporary EVSE at the shipper's facility
- Terawatt also deployed its proprietary Charge Management Software (CMS) to provide real-time data on charging activity, performance metrics, and billing information

Results.
Rapid deployment provided the shipper and carrier with a complete picture—with actual metrics and real-time data—into what a full-scale EV lane would entail, equipping them with the confidence to scale electrification plans.

Case study
Port of Long Beach-Lebec EV Lane Testing

Charge Success

100%

Successful charging sessions when the dispenser cable was plugged into the EV.

Onsite Installation Time

2 days

Installation of EVSE, electrical support equipment, communications, and commissioning.

Deployment Time

3.5 wks

Concept presented, desktop site review, site walk, design, proposal, equipment procurement/delivery, construction, 1st charge.

Thank you

IANA

INTERMODAL ASSOCIATION OF NORTH AMERICA

Thank you for joining us!

IANA, 11785 Beltsville Drive, Calverton, MD 20705-4048.