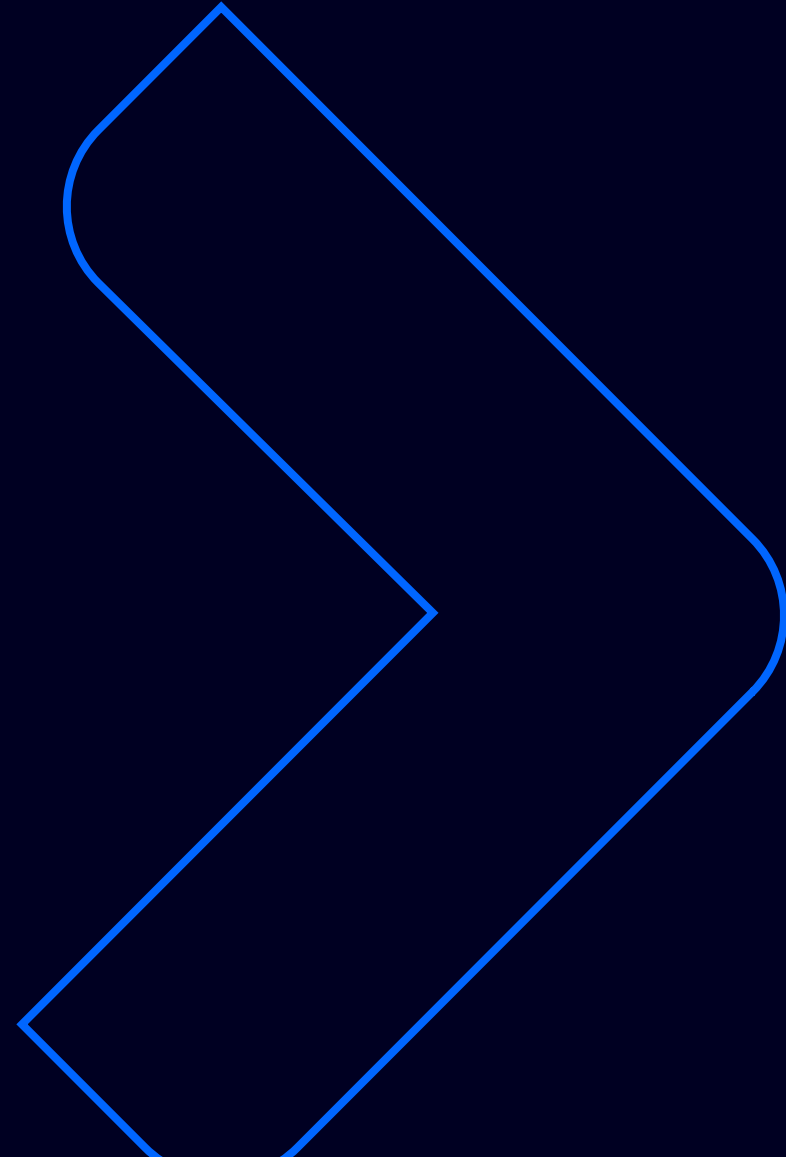


The Mobility House

Alex Macharia



The Mobility House brings unparalleled experience and partnerships to your global fleet electrification

160,000

Chargers Installed

2,500+

Sites managed with ChargePilot

320+

Employees

6+

Years of V2G Experience

35,000+

Customers

14+

Years of Experience
in Energy Management

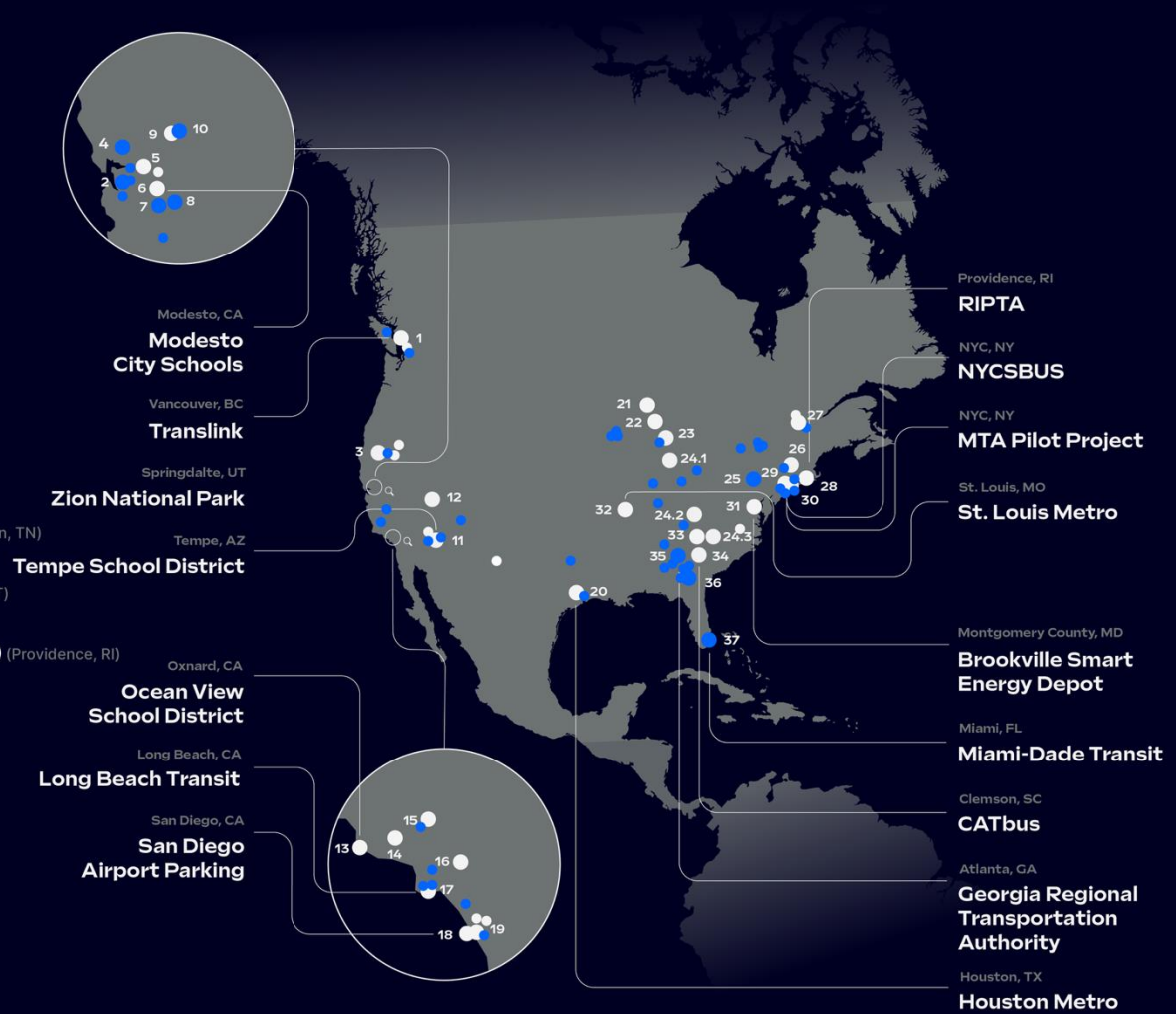
100+ North American Projects

- Operation
- Implementation

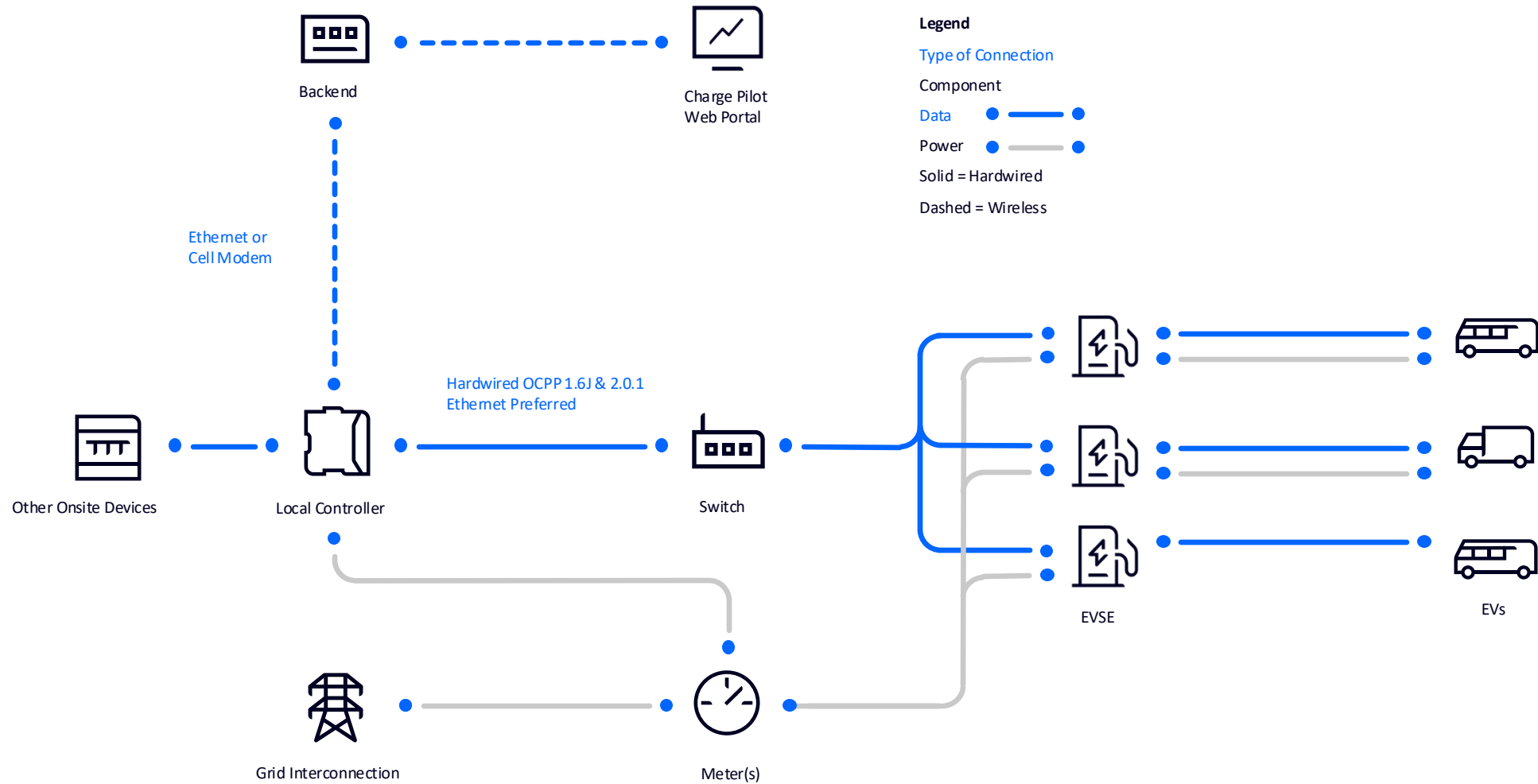
Highlights

- 1 Translink (Vancouver, BC)
- 2 Replicable V2X Deployment For Schools
 - 2a. Pittsburg Unified School District (Pittsburg, CA)
 - 2b. Fremont Unified School District (Fremont, CA)
- 3 Trinity Alps USD (Trinity, CA)
- 4 City of Vacaville (Vacaville, CA)
- 5 Stockton Unified School District (Stockton, CA)
- 6 Modesto City Schools (Modesto, CA)
- 7 Chatom Unified School District (Turlock, CA)
- 8 Turlock Unified School District (Turlock, CA)
- 9 Gold Oak Unified School District (Placerville, CA)
- 10 El Dorado Union High School (Placerville, CA)
- 11 Tempe School District (AZ) (Tempe, AZ)
- 12 Zion National Park (Springdale, UT)
- 13 Ocean View School District (Oxnard, CA)
- 14 Moorpark Unified School District (Moorpark, CA)
- 15 Antelope Valley Transity Authority (Lancaster, CA)
- 16 Colton Joint Unified School District (Colton, CA)
- 17 Long Beach Transit (Long Beach, CA)

- 18 Ace Parking at San Diego Airport (San Diego, CA)
- 19 SP+ Parking at San Diego Airport (San Diego, CA)
- 20 Houston Metro (Houston, TX)
- 21 Mortenson Headquarters (Minneapolis, MN)
- 22 Rochester Public Transit (Rochester, MN)
- 23 Madison Metro Transit (Madison, WI)
- 24 Central States Dealerships (Oswego, IL) (Lexington, KY) (Lebanon, TN)
- 25 Newfield Schools (Newfield, NY)
- 26 Connecticut Department of Transportation (New Haven, CT)
- 27 Montréal International Airport YUL (Montréal, QC)
- 28 Rhode Island Public Transportation Authority (RIPTA) (Providence, RI)
- 29 NYCSBUS (The Bronx, NY)
- 30 MTA (New York City, NY)
- 31 Brookville Smart Energy Depot (Montgomery County, MD)
- 32 St. Louis Metro (St. Louis, MI)
- 33 Knoxville Area Transit (Knoxville, TN)
- 34 CATbus (Clemson, SC)
- 35 Georgia Regional Transportation Authority (Atlanta, GA)
- 36 Yancy Bus Sales (Macon, GA)
- 37 Miami-Dade Transit (Miami, FL)



ChargePilot System Architecture



Case Study: Replicable V2X Deployment at Fremont USD

Electrification and interconnection - Capacity expansion, build out and interconnection



1 Charging Hardware Procurement



2 Architecture & Design



3 Operations & Maintenance



4 Installation & Construction



5 Charging & Energy Management

Successful Implementation

Key Accomplishments and Learnings

1. **Emphasis on vendor-agnostic** charger selection & integration with the school's needs in mind
2. **Simplified** electrical infrastructure design while allowing greater **flexibility** and **expansion** considerations
3. **Reduced cost** for installation & construction by factoring in future site capabilities
4. **Reduced operational costs**, simplifying implementation, maintenance & ease of use of FUSD's V2G and V1G chargers

Case Study: Replicable V2X Deployment at Fremont USD

Phase I

- Capacity expansion to a new 3-phase 480V service
- Interconnection of the V2G sites with PG&E
- Deployment of three 60kW bidirectional chargers
- Additional monitoring capabilities for other chargers on-site
- Integration, capability testing and operational support

Phase II

- Additional service capacity expansion to the site
- Additional three 60kW bidirectional chargers
- Blueprint on scalable electrification of schools for V2X
- Long term V2G operational assessment

"We've already seen how the electric buses can contribute to cleaner air for our community. Now, we have the opportunity to use these buses to deliver clean and reliable energy too."

-Erny Epley



Thank you!

Alex Macharia

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Want to learn more?



DOWNLOAD
Electric School Bus
Charger Selection Guide