

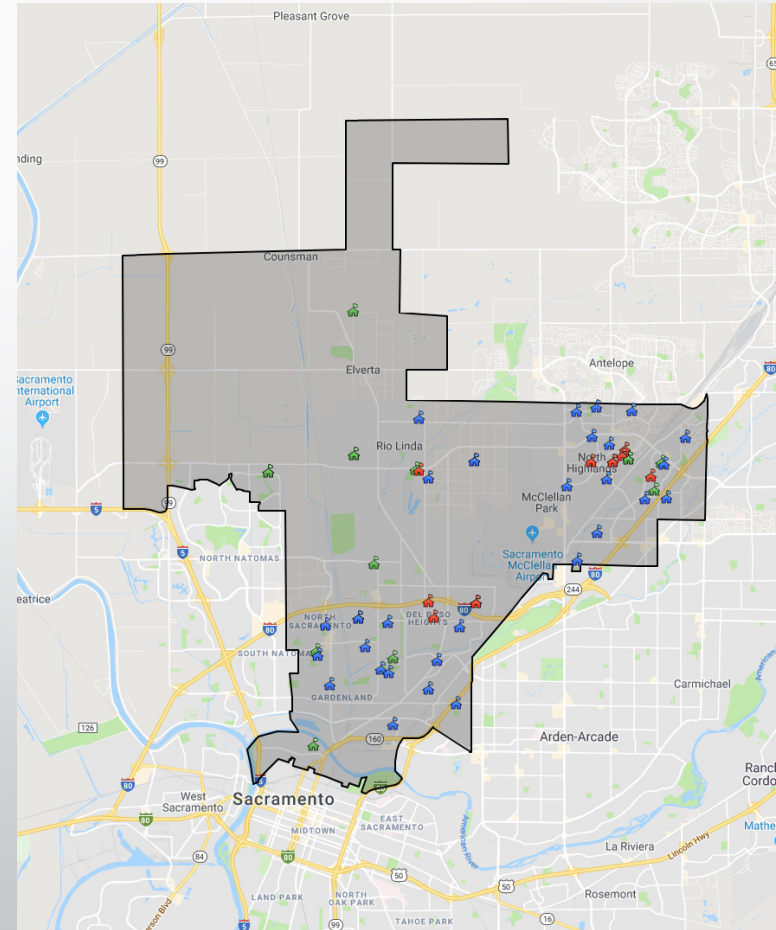


Electric Bus Deployment

**Raymond Manalo Jr.
Twin Rivers Unified School District
Vehicle Maintenance Manager**

Twin Rivers Unified School District

- 127 Square miles Urban & Rural
- 61 Schools
- 100% Free and reduced lunch
- 27,000 Students



Twin Rivers Unified School District

Transportation Services

- Transport approximately 5000 students
- 500 Routes
- Operate 60 Buses Daily
- 49 Electric, waiting for delivery of 9 more
- 35 CNG/RNG
- 4 Gasoline
- 65 Diesel
- Future plans and why??



What makes us successful?

- Identify Stakeholders
- Feasibility
- Funding
- Partnering with groups/ agencies
- Infrastructure
- Training
- Monitoring and Managing

Monitoring / Management

- Smart or Standard Charger
- Managed Charging
- All Day Charging
- Dashboard





Charge Station Status

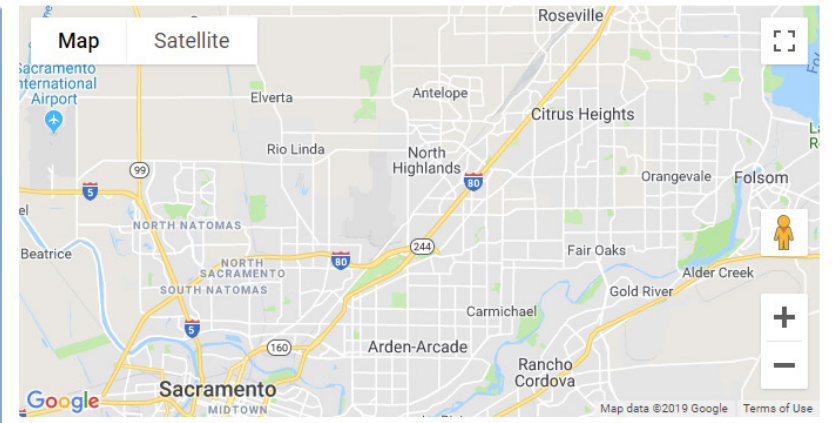
Twin Rivers School

2 Available 0 Error
6 In Use 0 Offline

EV Charging stats

Last 7 Days

	94	Charge Sessions
	3,406.5	Energy used (KWH)
	458:47	Charging Time in HH:MM
	523:51	Plugged in Time in HH:MM





Cost Savings

- Operational
- Fuel
- Tires
- Labor

Community Engagement



Our electric school bus experience

- Our overall experience has been good
- We had hurdles
- We learned how to adapt and overcome
- This is not a one size fits all technology.

