On-Site Power Generation

For Battery Electric Fleets



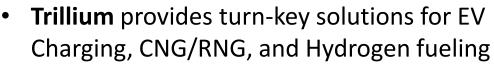
September 25, 2018

Who We Are



CNG / RNG



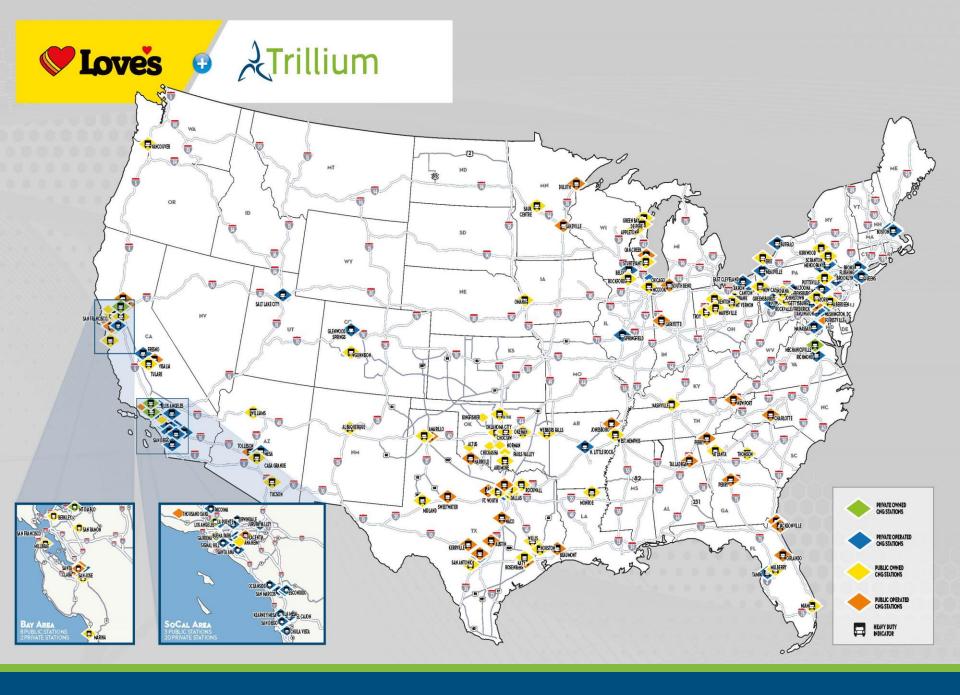


- Design/Build Services
- **Operations & Maintenance Services**
- **Retail Fueling**
- Renewable Natural Gas Supply
- **Trillium** owns or operates over 220 fueling stations nationwide









The BEB Infrastructure Challenge



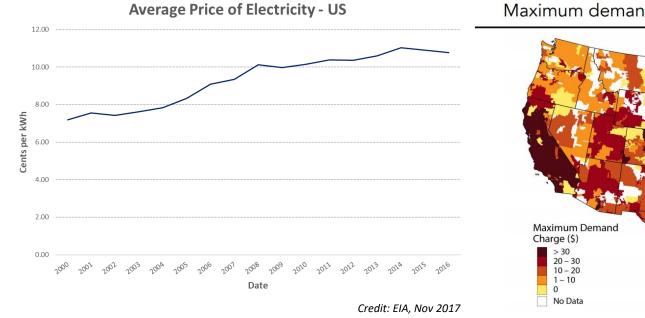


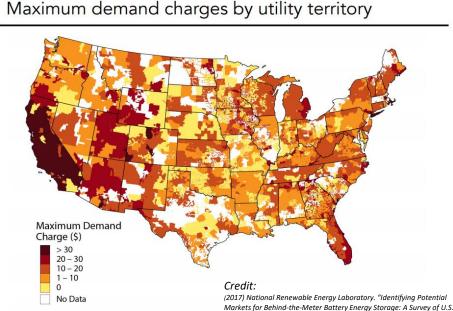
The Utility Option



The utility option comes with **uncertainty**... and risks to future operating costs

- Immediate Risks transformer upgrades, infrastructure needs, grid reliability
- Long Term Risks phased in demand charges, utility recovery of capital costs, rate structure overhaul





The Utility is NOT your only option for power.

Demand Charges." https://www.nrel.gov/docs/fy17osti/68963.pd

On-Site Power Generation



The Concept

- Control your power supply, Control your costs
- On-site natural gas generators that deliver clean power to EV Chargers
- Small footprint
- Reliable on-site generation eliminates blackout risk
- Scalable add or upgrade generators with BEB fleet growth
- Emissions compliant
- Pathway opportunities to monetize RNG
- Significant potential for cost savings over utility alternative

Take charging off-grid

- No transformer upgrades
- No interconnection costs
- No demand charges from high output chargers
- No risk of rate changes or cost recovery programs
- Improved capital and operational planning

Most importantly: price control, certainty, and stability

Permitting

Air Quality Permitting

- Equipment meets the most stringent AQMD regulations
- Renewable fuel (RNG) can considerably lower carbon emissions

Safety and Local Permitting

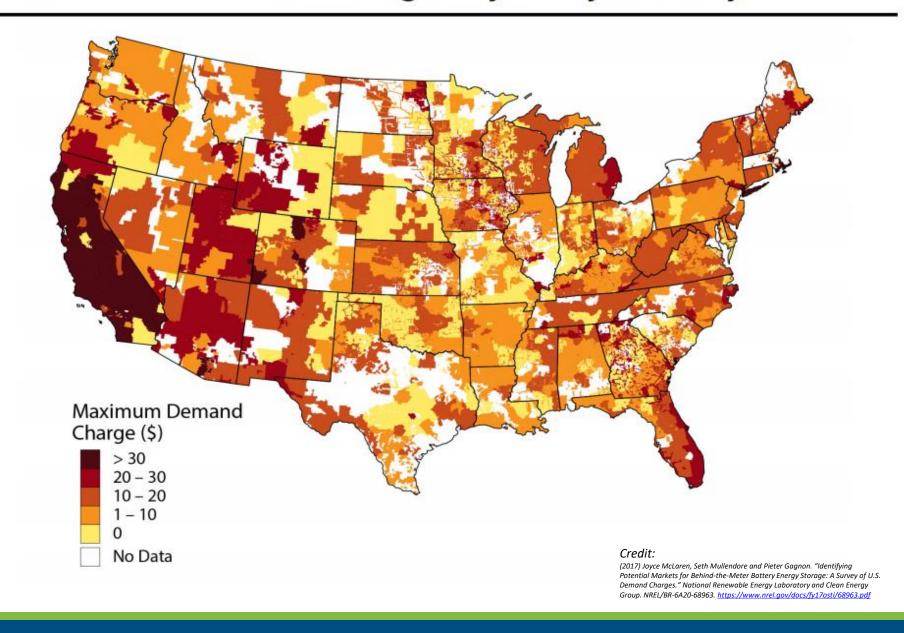
- Equipment meets the highest safety standards – used globally, well known and understood technology
- Compliant with all local codes
- No hazardous materials





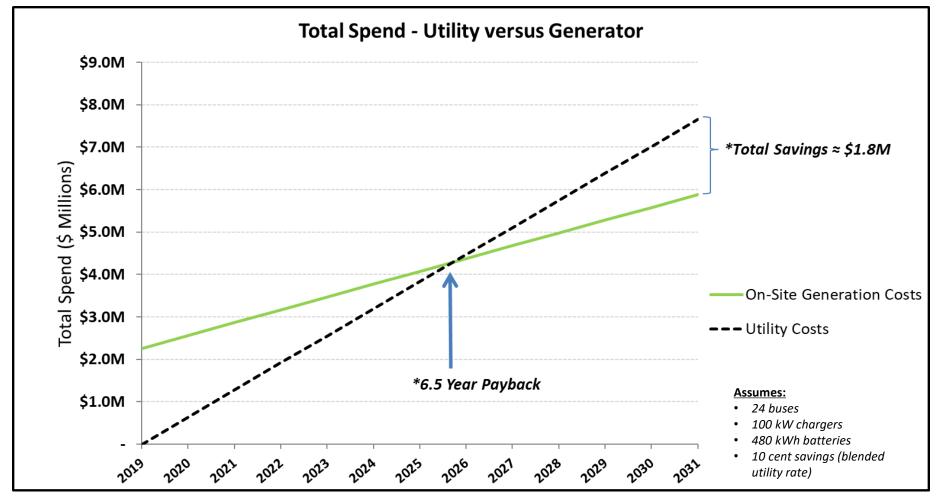


Maximum demand charges by utility territory



Potential Cash Flow

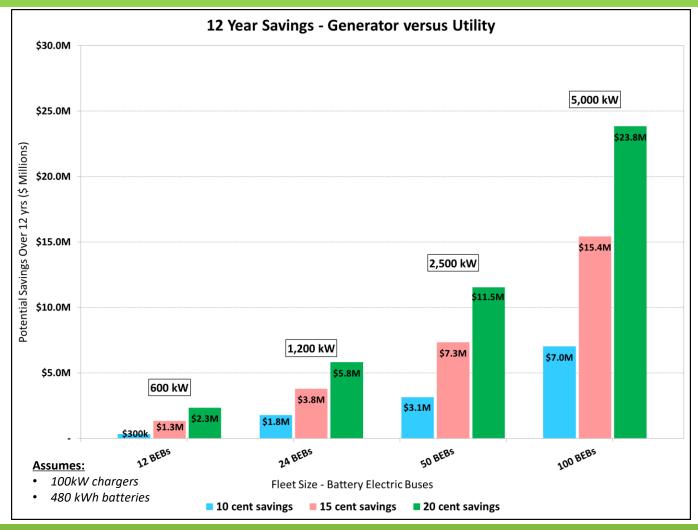




Long Term Costs



As your fleet grows... so will your savings.



Planning For Growth



Growing your EV fleet should be exciting, not concerning!

Key Considerations

- Scalability is key.
- As the number of EV vehicles increases, utility demand charges will play
 a greater role, having a profound impact on your costs.

Solutions for Fleet Growth

- 1. **Utility interconnect**. Expensive infrastructure upgrades, increased operating costs, and unknown future rates.
- **2.** Add generators. Simple and cost effective.
- 3. **Upgrade generators**. Replace with more powerful units. Fits the same footprint and avoids "overbuilding" your power generation.

Conclusions



Cost Savings

- Compelling cost savings from producing power rather than buying it.
- A simple review of your rate structure can indicate fit
- Scalable up to full scale deployment of EV

RNG opportunity is significant

- LCFS and eRIN can add material value
- Dairy farms produce negative CI scores (better than solar)
- Substantial environmental AND economic impact

Drive the industry forward

- Reduced operating costs <u>will facilitate electrification</u>
- Positive for state goals, transit agency costs, and the environment
- Without pushing any costs onto ratepayers
- Private market competition is healthy for the industry
- Multiple options for power will encourage innovation and lower costs

On-Site Power Generation

Simplicity of design, certainty of future costs, and reliable rollout of your EV fleet.

Trillium

Alex Agrons: General Manager – Strategic Initiatives

Office: (713) 332-4800 Cell: (405) 496-7596

Email: Alex.Agrons@Loves.com



