



Powering the Palmetto State: Advancing Freight Electrification

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The Utility Challenge – What’s Different about MHD

- Timeline for Load Additions
- Load Density Increase at Established Sites
- Uncertainty in Load Characteristics

THIS TRANSITION IS UNPRECEDENTED AND COMPLEX. IT REQUIRES:

- **Extraordinary collaboration and partnering** across all the major EV stakeholder groups
- **Stakeholders must “meet in the middle” with transparent electrification plans** so early planning can occur and long-lead time investments can be prioritized

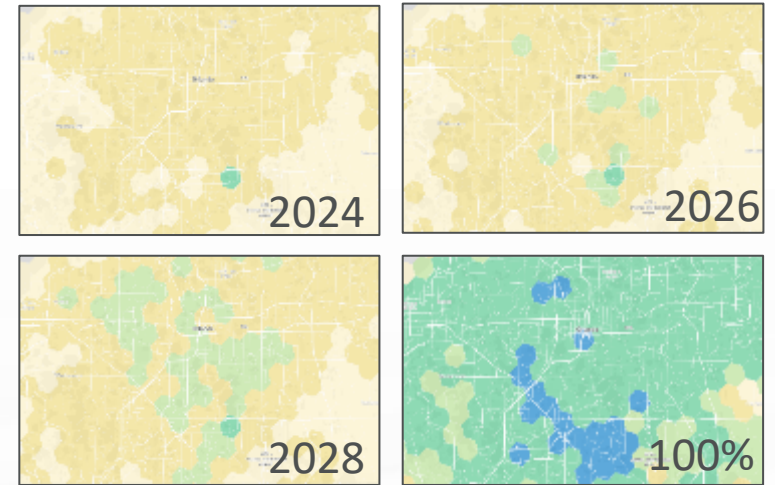
General Problem to be Addressed

Where and when will loads appear on the grid?

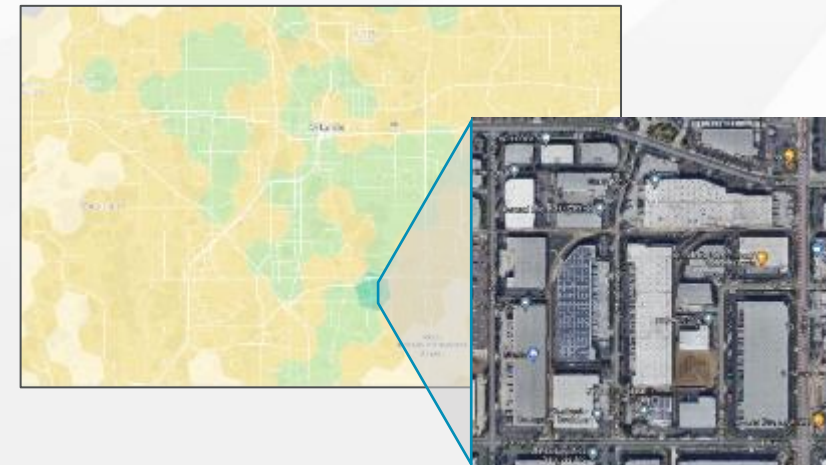
<https://eroadmap.epri.com/>

eRoadMAP: Interactive Load Map to Hex8 Resolution (0.28 mi²)

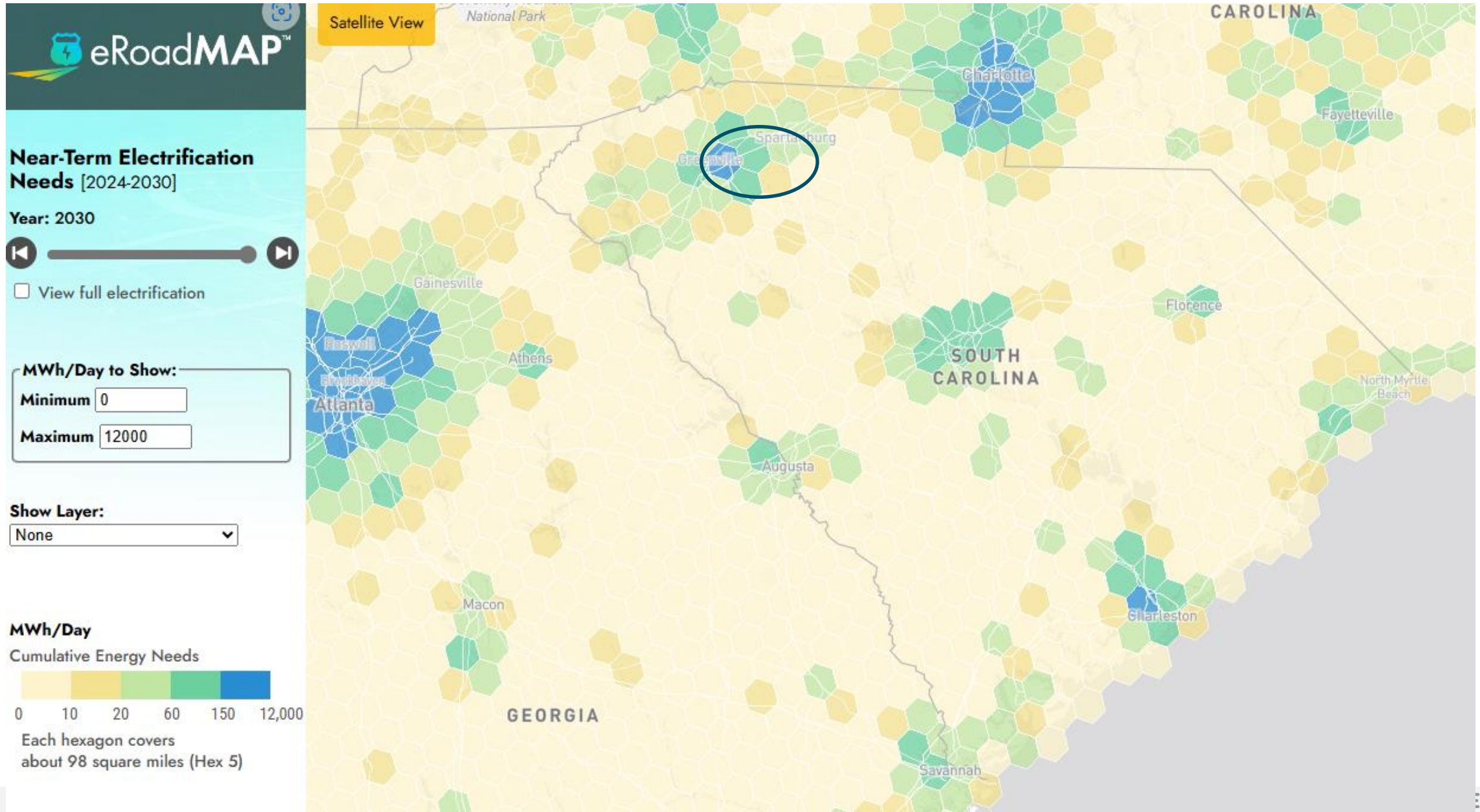
Fleet Electrification Over Time



Fleet activity aggregated to Hex8 Level (protects proprietary fleet data)

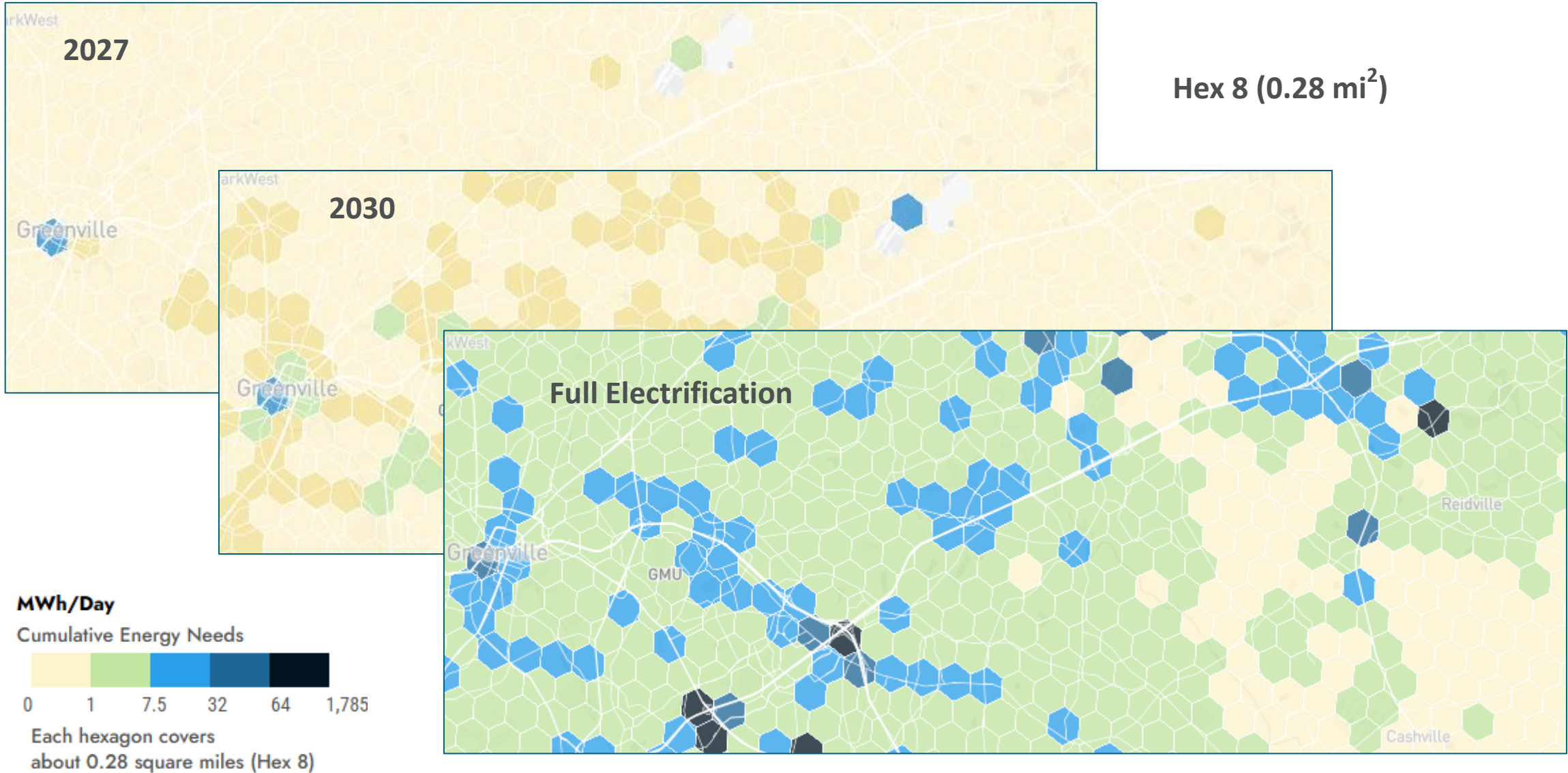


Interactive Energy Map: South Carolina (2030)



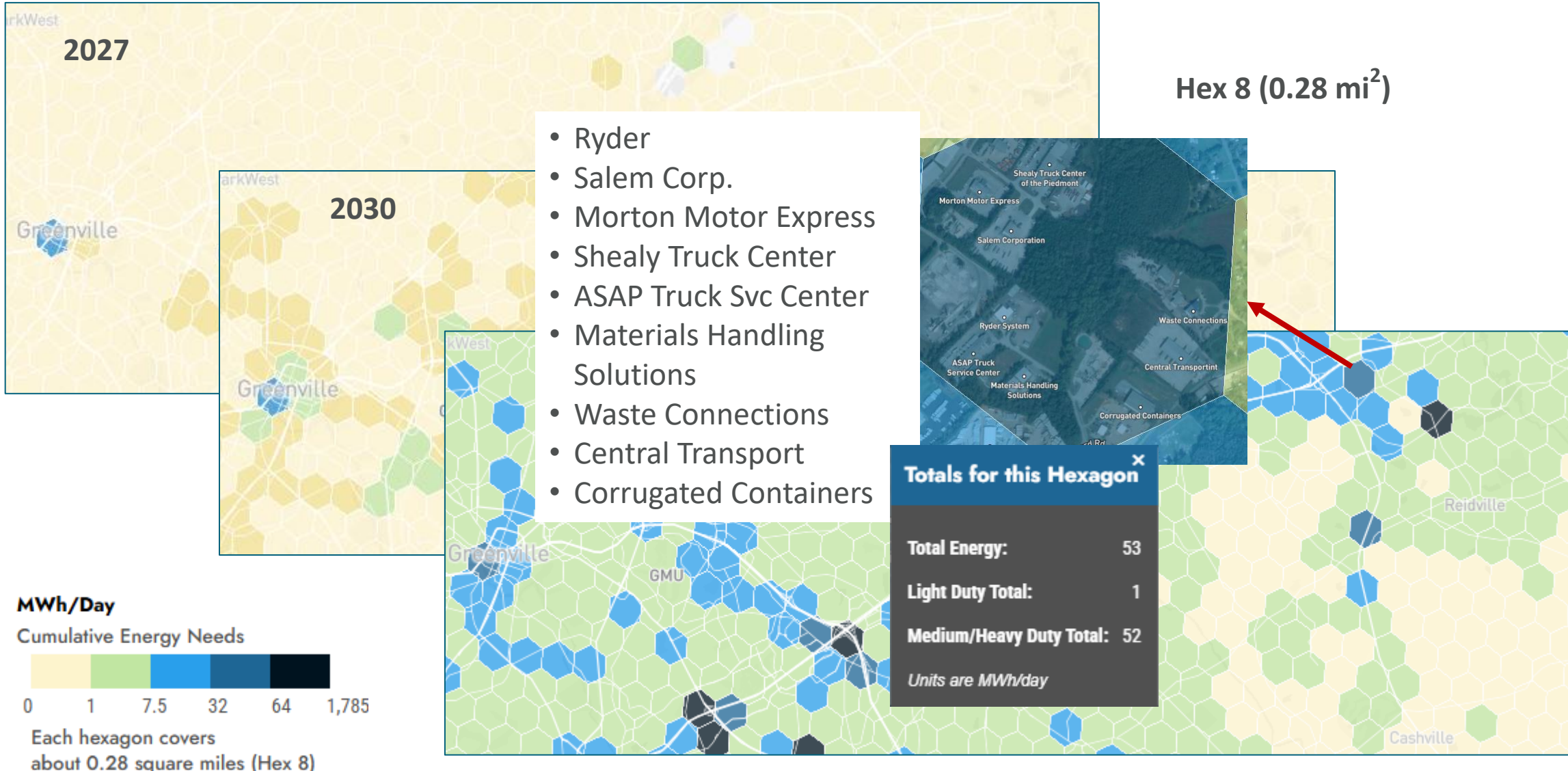
Interactive Energy Map: GSP Area

2027 to 2030 to Full Electrification Comparison



Interactive Energy Map: GSP Area

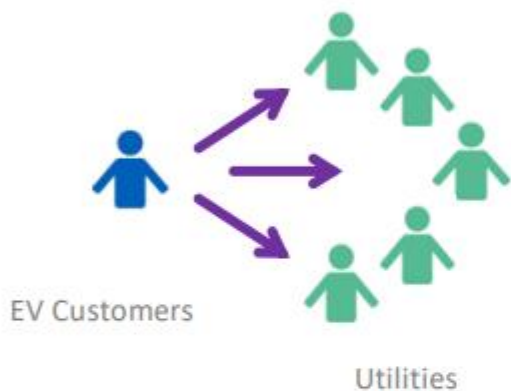
2027 to 2030 to Full Electrification Comparison



GridFAST - a Many-to-Many Platform Which Generates Network Effects

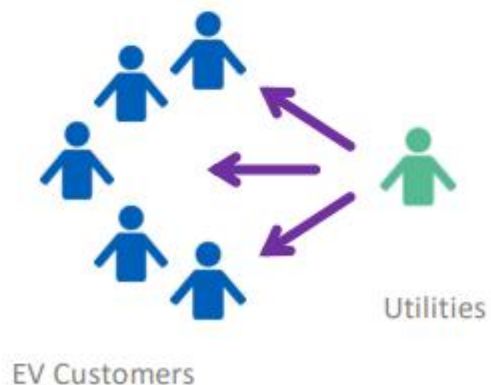
Current State

One-to-Many



EV Customers need to navigate across the spectrum of Utilities

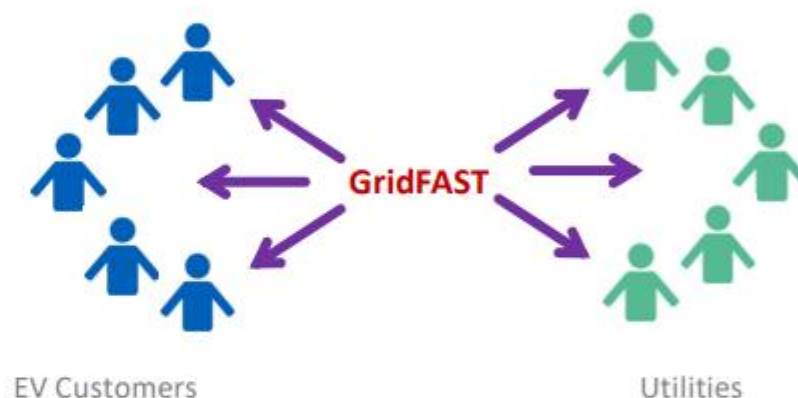
Many-to-One



Some Utilities are creating jurisdictionally limited tools to reach EV Customers

Future with GridFAST

Many-to-Many



Value Proposition

Reduces Search Costs
(Utility matchmaking, program eligibility, rates, grid conditions, ...)
Single system minimizes learning curve
Improved transparency to information

Customer Driven info for Grid Planning
Improves quality of information
Reaches broader range of customers
Reduces internal IT development costs
Leverages learnings across industry

Secure information exchange
Opportunity to form "complements" to the platform



Thank You

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