Electric Utility Perspective

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Considerations before the bus arrives

- Connecting with the utility
- Charging infrastructure
 - Where will the chargers be located?
 - Is there accessible power at the charger location?
 - Do you need an electric service upgrade?





Information to give your utility



How many buses will be charging (short-term and long-term plan)



Battery size and range

how battery size and range meets your route needs



Nameplate kW of charger(s)



How to work with your utility

- Engage early and often
- Ask for an assigned point of contact representative if possible
- September 2017 BESB pilot launch







BESB Pilot Objectives

Showcase new energy efficient technologies Demonstrate EV school bus performance Cold weather climate (supplemental heating) Longer suburban and rural routes reflecting our member-owner service territories Document the regional economics O&M (energy + maintenance costs) savings Calculate the emission reductions from routes and on-premise idling



Key Findings

- 4th year, 2020-2021 full report
 - COVID year toggled between k-12 and daycare service
 - 8.5 outage days minor repairs and service
 - Combined fuel + maintenance cost/mile
 - Saved approx. 25,000 lbs
 CO2_e compared to diesel





GREAT RIVER ENERGY...

Thank You

