The Idea: Taxi Electrification

- Provide funding to taxi operators in the Charlotte region to replace their older vehicles with newer electric vehicles.

The Action:

- Identify and secure funds to defray the cost of new electric taxis and charging infrastructure.
- Work with taxi companies to create a taxi replacement schedule that prioritizes the highest emissions taxis for replacement first.
- Solicit business partners (hotels, restaurants, etc.) who will prioritize giving customer referrals to electric taxi operators.

The Pollution Source: 23% of NOx comes from passenger vehicles¹ (including taxis)

The Cost Effectiveness: $1,620/lb of NOx²

The Factors:

- Taxis are a small percentage of the passenger vehicle fleet. However, taxis drive a higher-than-average number of miles per year.
- Because they are high-mileage vehicles, taxis reach the end of their life more quickly, so they may already be cleaner than the average passenger vehicle.
- Public-facing project that could spread awareness/information to residents and visitors.
- As the power grid changes to lower emission/renewable fuels, overall emissions will decrease further.
- Particulate Matter – Medium co-benefits
- Greenhouse Gas – High co-benefits

¹ 19.37 tons/day of NOx. Passenger vehicles includes both passenger cars and trucks. Source: Revised Maintenance Plan For The Charlotte-Gastonia-Salisbury, North Carolina 2008 8-Hour Ozone Marginal Nonattainment Area (July 2018)
² Assuming $30,000 per taxi