

# Route 48 Modern Electric Trolley Bus electrification project

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# SDOT's mission & vision

Mission: delivering a first-rate transportation system for Seattle.



Vision: a vibrant Seattle with connected people, places, and products.

# Why Electric?

- Reduced GHG regardless of electricity source
  - Can be zero-GHG AND renewable
  - Twice as efficient as diesel/hybrid
  - Zero localized tailpipe pollution
  - Quiet: Pedestrian- and neighborhood-friendly
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## Electric local urban transit options in the 2010s

- Streetcar
  - Battery bus
  - Electric trolley bus
  - PRT, monorail, etc.
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# Streetcar



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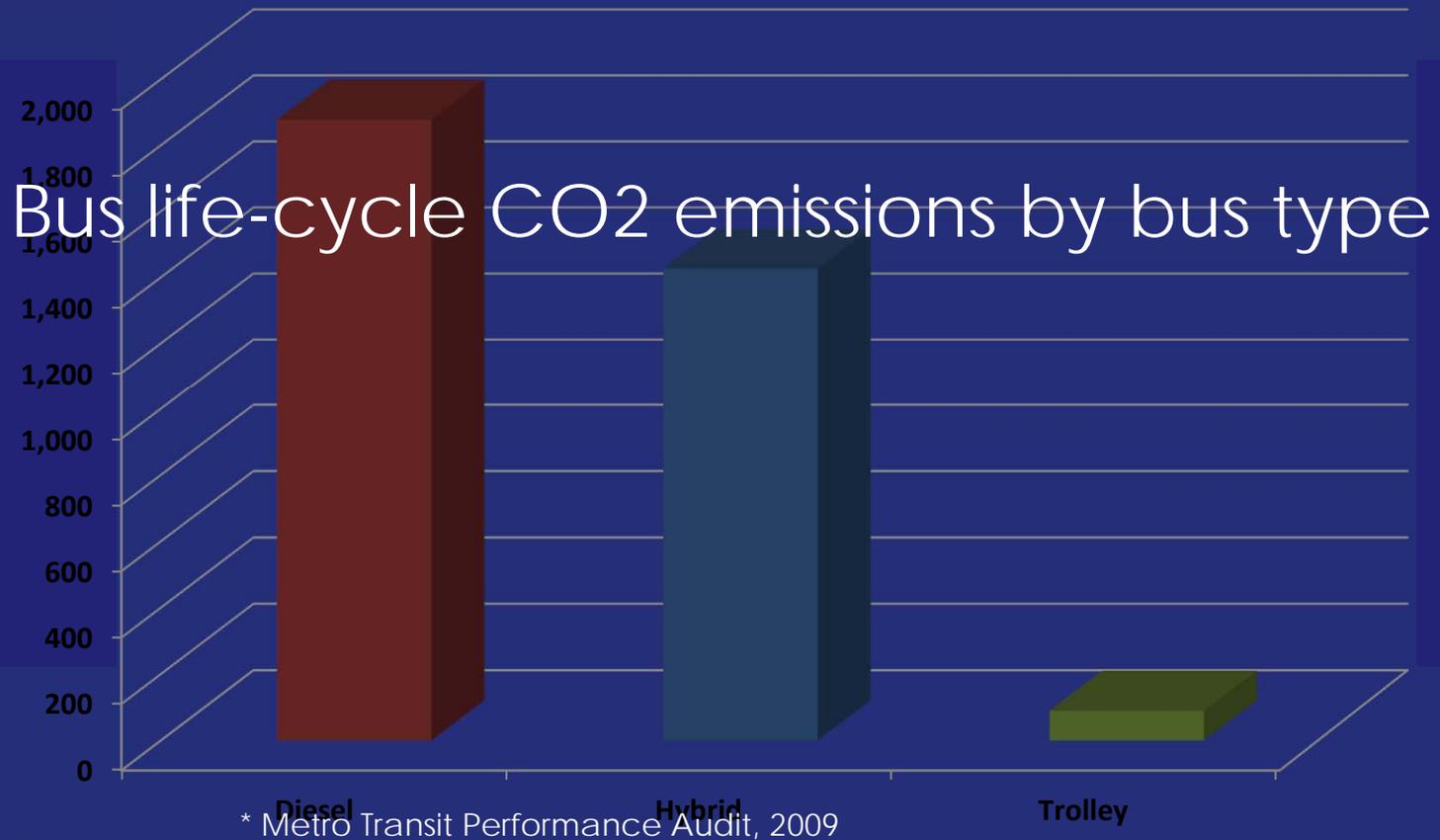
# Battery-electric bus



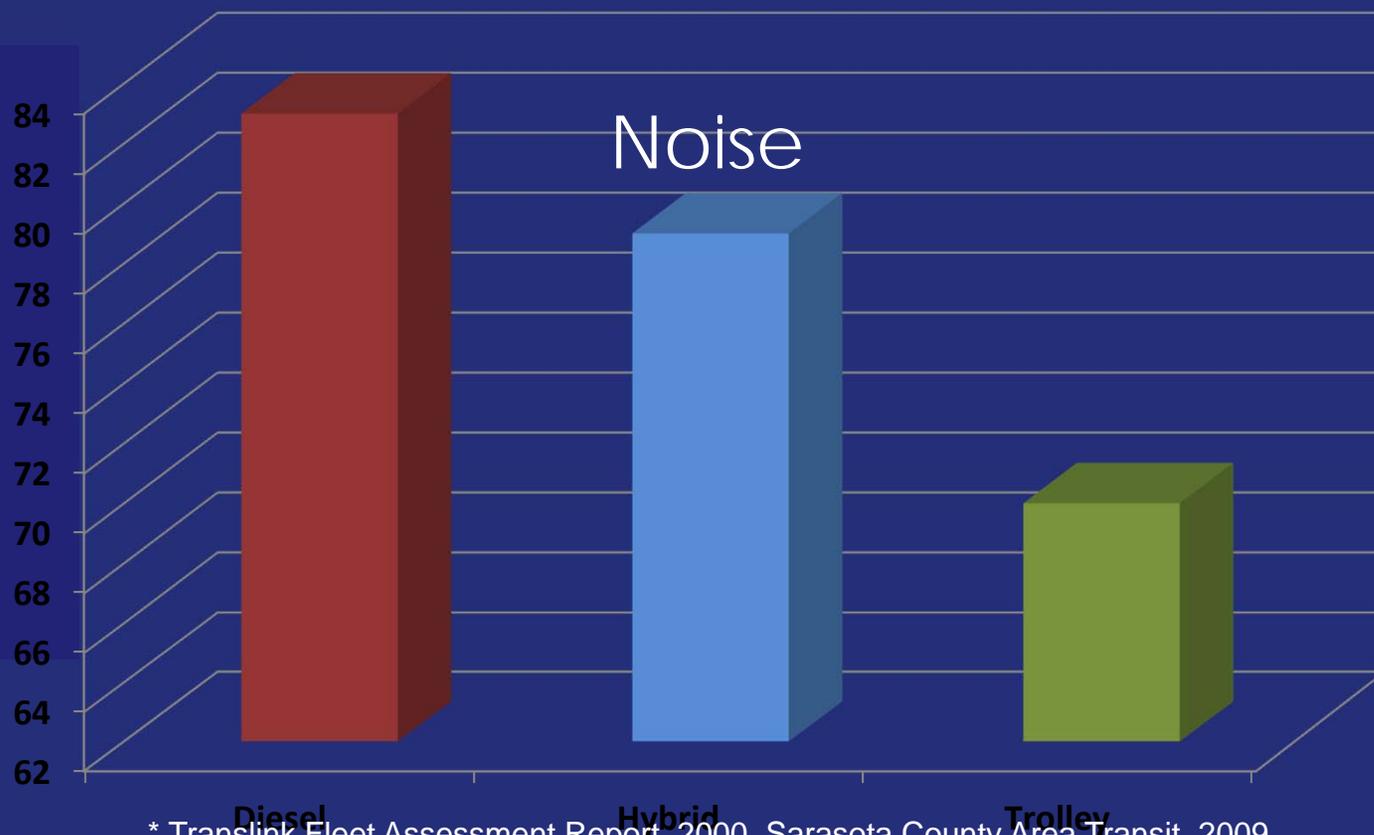
# Electric trolley bus



# GHG impacts



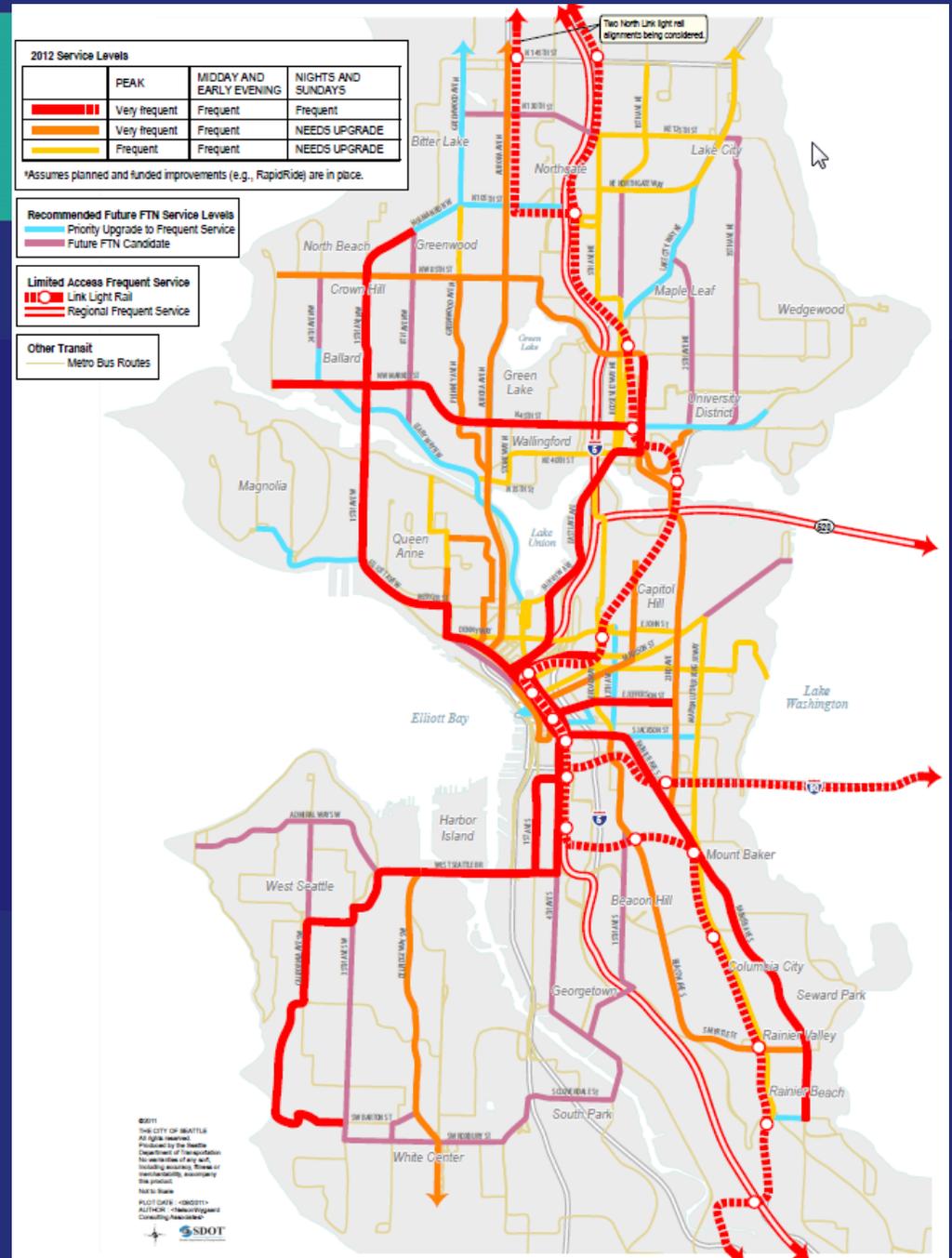
# Noise Impacts



\* Translink Fleet Assessment Report, 2000, Sarasota County Area Transit, 2009

# Seattle Transit Network

- Frequent service
- Arterial BRT
- Trolley system



# Route 48 Project

- 6 mile route
- 2 miles new electrification
- \$12-15 million
- 6,000 daily rides



## Project Funding and Status

- 20-25% local funding
  - 75-80% grant funding
  - DOE efficiency block grant
  - FTA grant in process
  - 2016-17 opening
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Questions?

