

# Route 48 Modern Electric Trolley Bus electrification project

**Bill Bryant**

*Seattle Department of  
Transportation, Transit  
Section Manager*

*Seattle, Washington*

2014 Sustainability &  
Public Transportation Workshop




# 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.





# Streetcar



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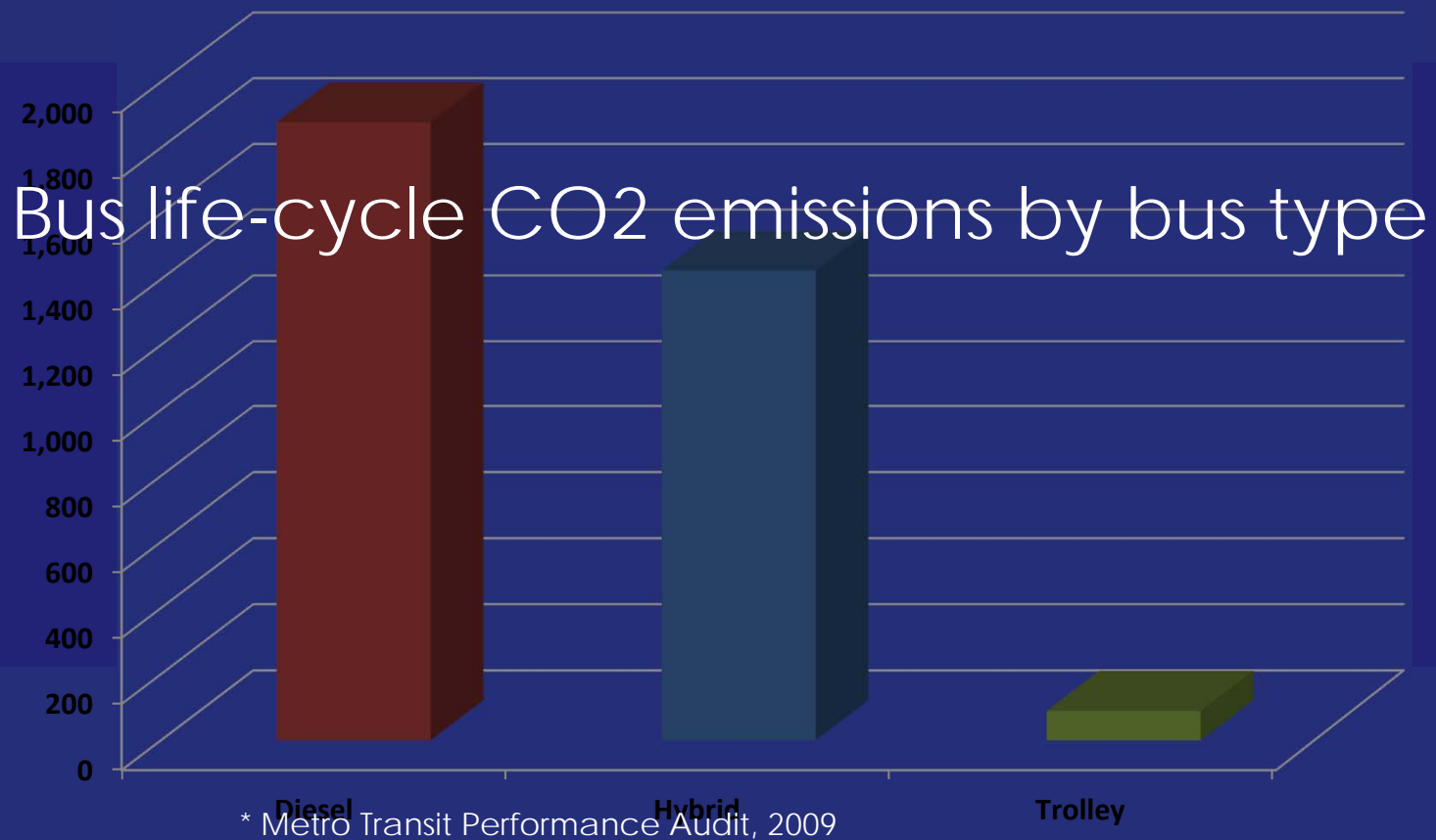
# Battery-electric bus



# Electric trolley bus

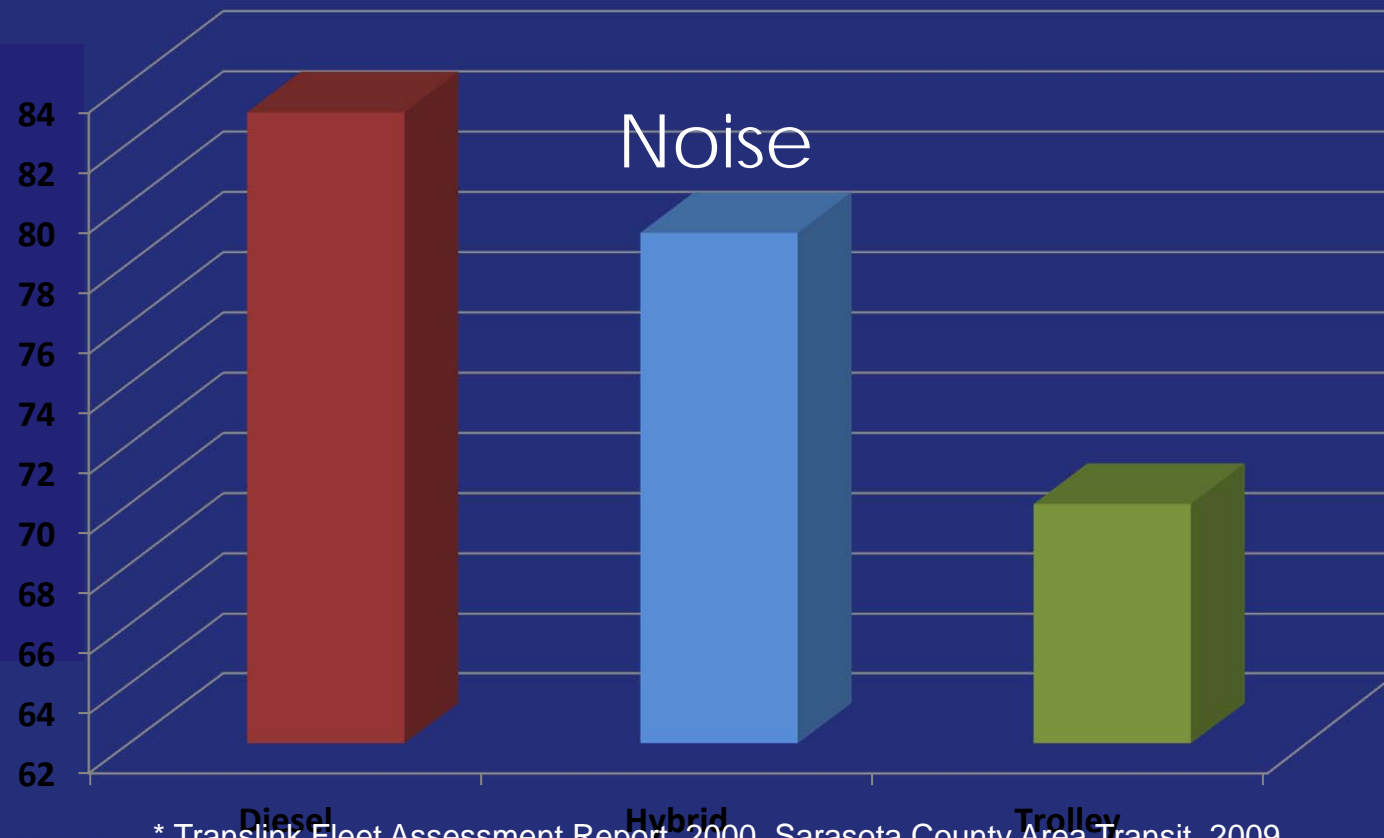


# GHG impacts





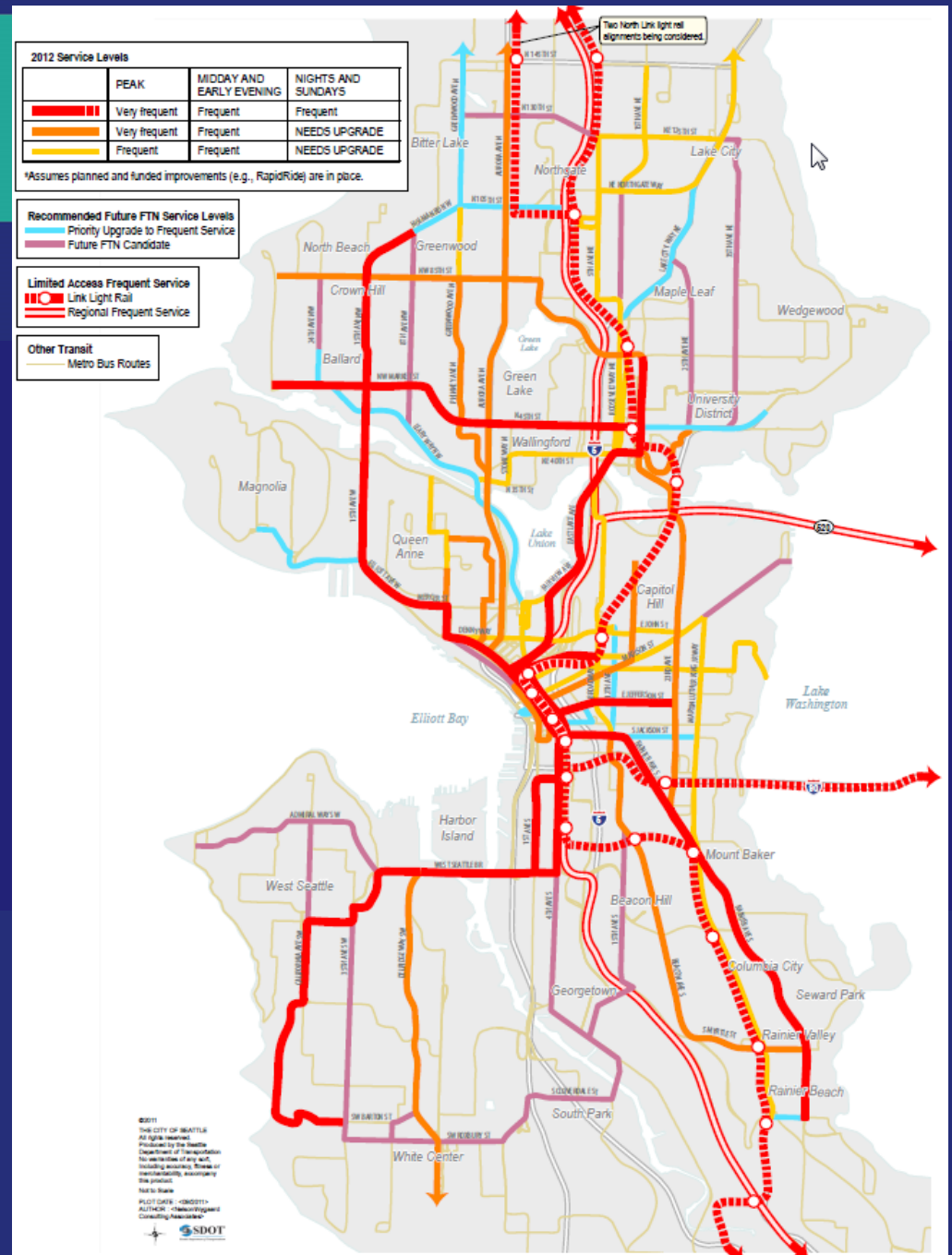
# Noise Impacts



\* 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





Questions?

A 3D graphic in the bottom-left corner consisting of two overlapping rectangular prisms. The top prism is teal and the bottom one is a lighter green. They are oriented diagonally, creating a sense of depth and perspective.