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# ***Creating A Heavy Duty NGV***

## ***PG&E's Deere/Freightliner Project***

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Pacific Gas and Electric Company®  
**Clean Air Transportation**

# Heavy Gas Crew Truck

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# ***Why this engine/chassis?***

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- Required a truck that fully met diesel performance and reliability
- There was no truck chassis package with a Deere engine
- Although Freightliner is a major supplier to PG&E, they did not have a Deere engine available



# ***Truck project synopsis***

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- Purchased diesel trucks
- Re-powered with John Deere engines
- Using chassis for the heavy gas crew and dump body trucks



# ***Why did PG&E develop this truck?***

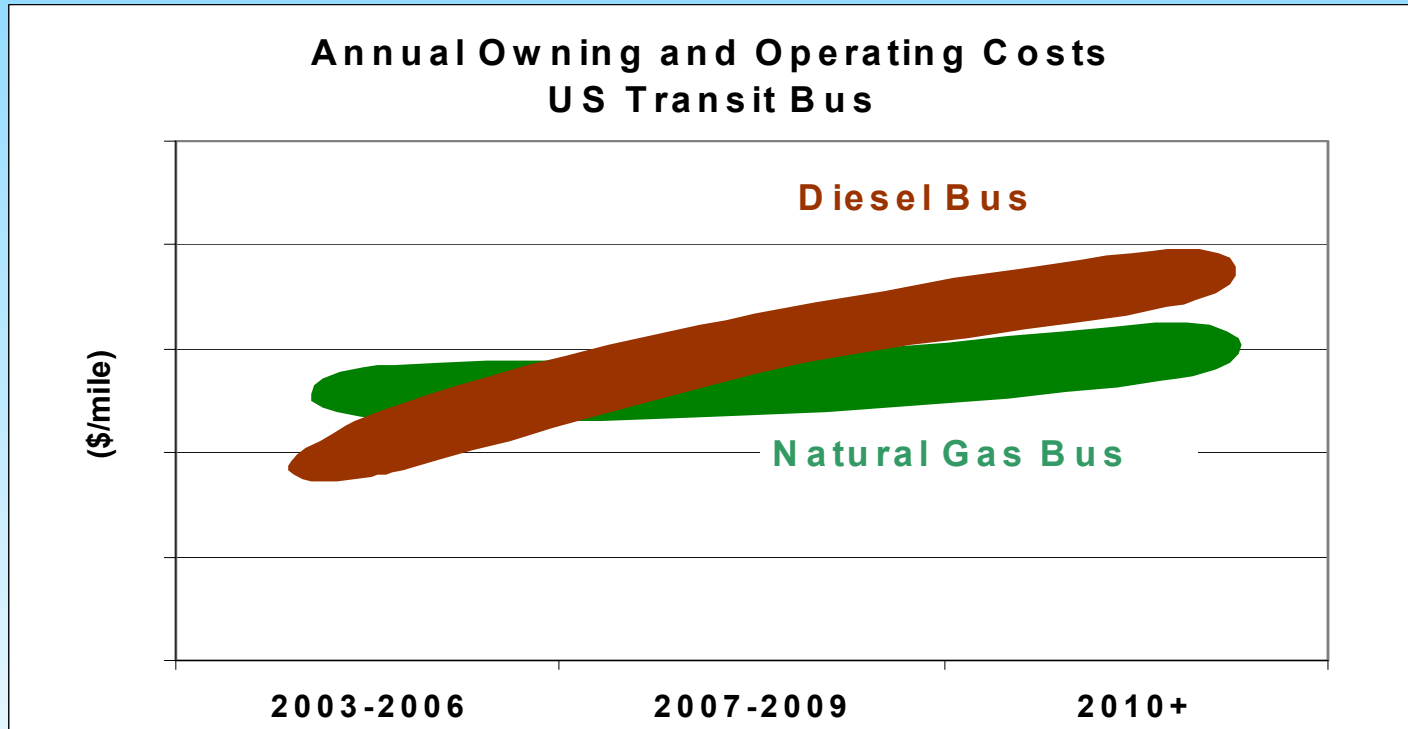
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- Energy Policy Act (EPAAct)
- Environmental Justice Issues
- Positive Company Image
- Fuel cost savings
- Diesel retrofit costs
- Future diesel costs



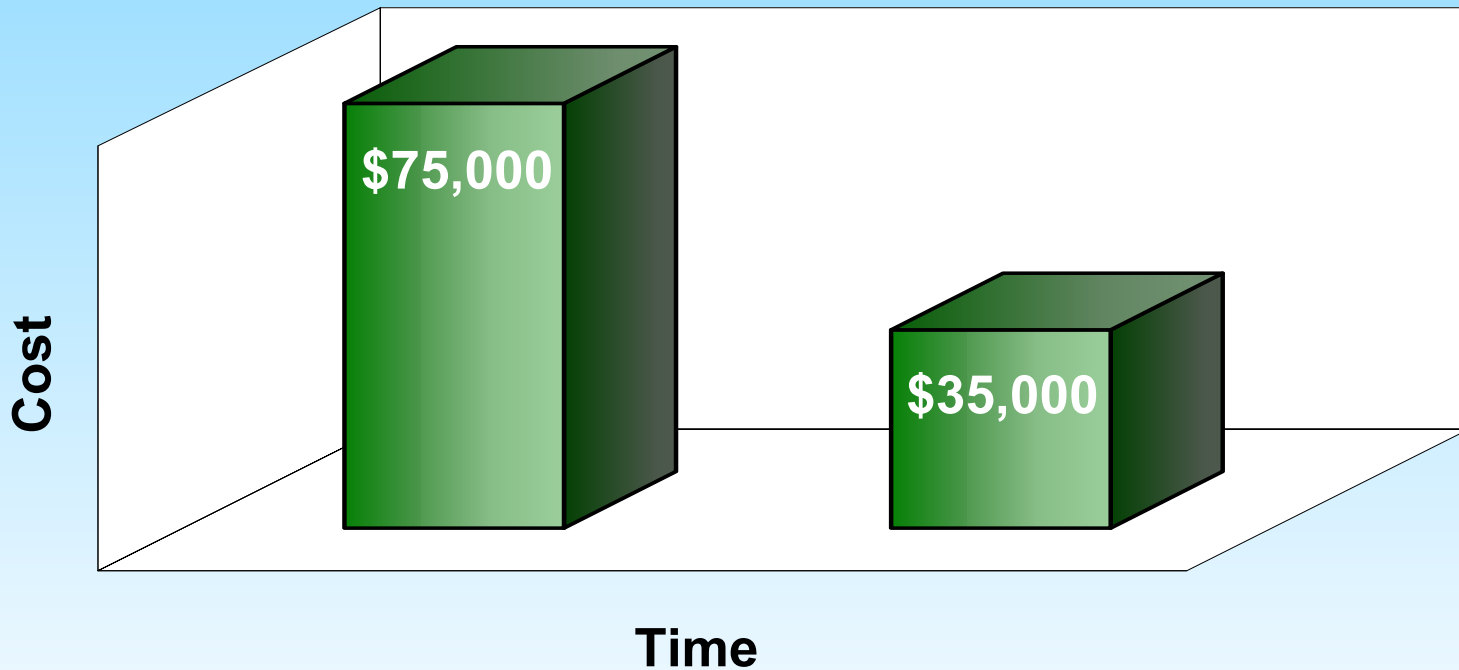
# A look at future operating costs

## Transit Cost per Mile Trends



# ***“Volume” makes a difference***

Natural Gas refuse truck costs have already declined:



# ***What can the industry do?***

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- Use Hybrid Truck Users Forum (H-TUF) as model
- Work together to come up with common chassis/vehicle requirements
- Aggregate demand and present to manufacturers
- Work through CVEF's new Utility and Public Fleet Management Working Group

