

# Guiding NGV Technology R&D&D

National NGV Conference and Summit  
October 15, 2007

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# Panelists

- Mike Eaves – President CNGVC
- Brian Pepper – Sr. Program Manager PG&E
- Robert Knight – President Bevilacqua-Knight
- Tony Lindsay – NGV Program Manager GTI
- Michael Gallagher – President & COO Westport Innovations
- Robert Carrick – Western Region GM Sterling Trucks
- Richard Turner – VP Baytech Corporation

# History Lesson

- For the last 25+ years there has been a national group to provide consensus guidance on implementation of NGV RD&D
  - AGA Technology Committee
  - NGVC (now CVEF) Technology Committee
  - GRI (now GTI) NGV Project Advisory Group
  - Natural Gas RD&D Initiative
  - DOE/NREL Next Generation NGV
  - DOE NGV Technology Forum

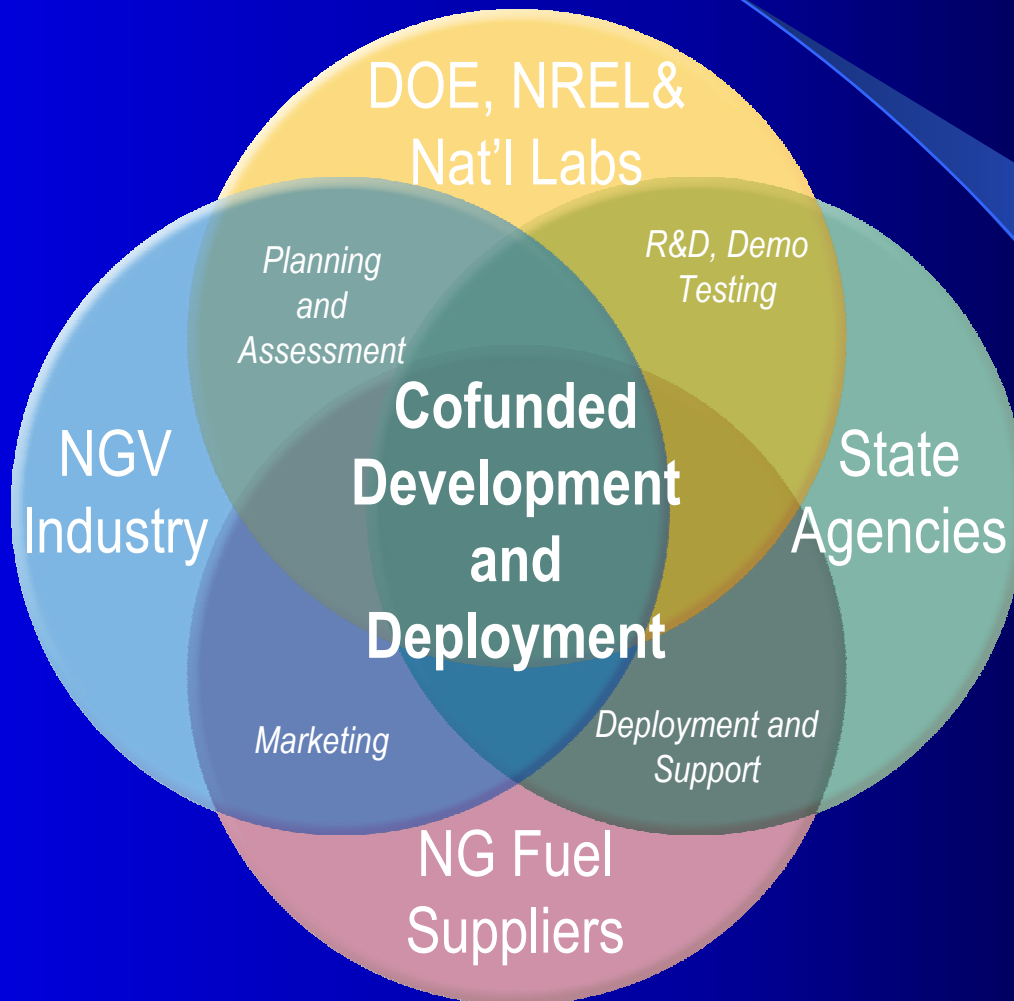
# The Third D (deployment)

- The CVEF with the support of PG&E formed the Utility & Public Fleet Council (UPFC) in 2004 to aggregate fleet purchase requirements for specific NGVs including MD and HD engine/chassis combinations
- This type of effort should also be integrated into the next national NGV RDD&D forum

# Proposal

- Restart the NGV Technology Forum (with DOE support if possible)
- Include all stakeholders
  - National and State funding agencies
  - NGV industry fuel suppliers, station owners/developers
  - OEM and FSM companies
  - Research providers
  - National and State associations/coalitions
  - Fleet owners private and public

# NGVTF Original Concept



# Panel Discussion

- Mike Eaves - this morning we have already heard about the important developments in California regarding NGV RDD&D – What role do you see for NGVTF in support of these efforts?

# Panel Discussion

- Brian Pepper - PG&E has long been a stakeholder in many areas of the NGV industry, could you give us your thoughts on the critical issues facing a utility fleet operator that could/should be addressed by NGVTF?

# Panel Discussion

- Robert Knight – your presentation this morning gave us an overview of the NGV R&D needs and priorities developed by your team for the CA CEC, what value do you see that NGVTF could bring to the implementation of this roadmap?

# Panel Discussion

- Tony Lindsay – in the past GRI's NGV PAG with its FERC funding and utility support was the key player in NGV RD&D, what role can the restructured GTI and your NGV program play in NGVTFF?

# Panel Discussion

- Michael Gallagher – the NGV industry may find itself with a limited number of engine types/sizes by 2010 that may not meet the market demands, what role do you see NGVTF playing in helping to resolve this issue?

# Panel Discussion

- Robert Carrick – as an OEM there are many critical decisions that must be made in order to commit to the production of a NGV platform, how can we work together in the NGVTF to make those decisions and commitments favor NGVs?

# Panel Discussion

- Richard Turner – as a small volume manufacturer of various NGV platforms what are the key issues in successfully bringing new products to market and what role could NGVTF play in developing solutions?

# Open Discussion

- Audience - Q&A