ANG, CNG, and LNG Storage Tanks

ARPA-E NG Vehicles Workshop
Morning Breakout

1/26/2012
Opportunities for Technical Development

- There are new materials (fibers, composites, plastics, metals etc.)
  - Do these materials have properties that will permit a step change in performance?
- Thermal management for ANG tanks/reactor is key issue
- Cold vs. Warm LNG

Suggested Directions for FOA Metrics

- More consistent definition of particular market segments is required
- Translating engineering requirements into material characteristics…
- Industry standards (safety) will define some material characteristics

Key Question to Ask

- What materials communities have not been engaged yet?
  - Metallurgy, Polymers etc.
- How do we bring together the communities to foster good teams?