

External Needs Assessment Process

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What is the Challenge?

- ▶ **Motivation:** NIST requires external input to support strategic decision making
 - Earlier / broader involvement of customers / stakeholders
 - Future priorities and challenges
 - External drivers / opportunities
 - Context
 - NIST must ensure that its R&D portfolio is aligned to address the most relevant measurement challenges
- ▶ **Approach:** Implement a workshop / report mechanism to present priorities in the eyes of Key Customers / Stakeholders

Credible Identification of Stakeholder Needs



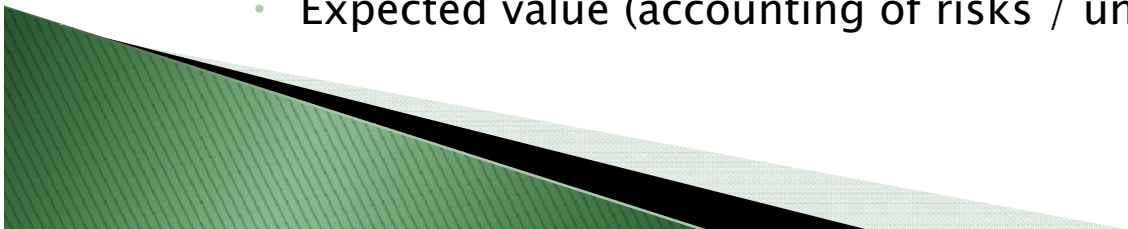
FY10 Topics Status

- ▶ Advancing Photovoltaics (May 11–12, 2010)
 - Draft workshop summary available:
<http://events.energetics.com/NISTGrandChallenges2010/>
 - Opportunities Document targeted for Oct 29, 2010
 - ▶ Greenhouse Gas Emissions Quantification (June 2–3, 2010)
 - Draft workshop summary is available:
<http://events.energetics.com/NISTScripps2010/>
 - Opportunities Document targeted for Nov 16, 2010
 - ▶ Advanced Battery & Energy Storage Technology (Sep 1, 2010)
 - Draft workshop report targeted for late October 2010
<http://events.energetics.com/NISTAdvancedBatteries/>
 - Meeting with other stakeholders to get additional input
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Selection of Future Topics

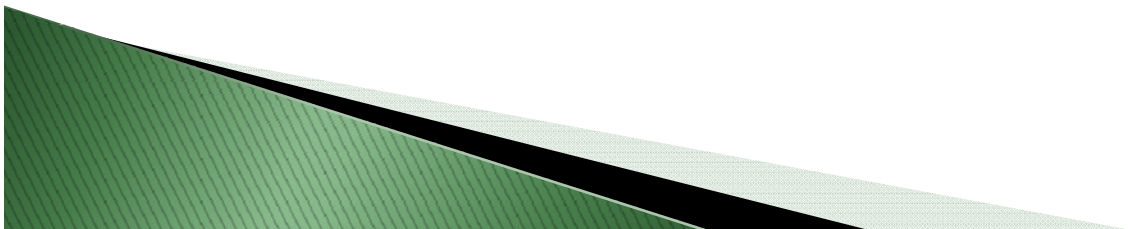
- ▶ Currently Exploring ~ 30 topics

- ▶ Criteria
 - Potential importance to NIST
 - Administration, DOC and NIST priorities
 - Unique ability of NIST to meet demand (mission)
 - Existing evidence of importance of measurement
 - Potential importance to US / World (external trends)
 - VCAT
 - Studies / reports
 - Customer input
 - Potential national impact
 - Potential impact of technology
 - Economic
 - Level of innovation
 - Expected value (accounting of risks / uncertainties)



Possible Future Topics

- ▶ Forensics
- ▶ Broadband communications
- ▶ Advanced robotics
- ▶ Wind energy
- ▶ Electronic materials
- ▶ Manufacturing
- ▶ Your Ideas?



What's Next?

- ▶ Release *Photovoltaics Opportunities Document* (late October)
- ▶ Release *GHG Emissions Quantification Opportunities Document* (mid November)
- ▶ Release *Battery and Energy Storage Technology Café Summary* (late October)
- ▶ Conduct 2 large workshops and 3 small workshops during FY11

