
Annual Review

Reliability, Testing, System Engineering

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Office of Energy Efficiency and Renewable Energy



SETP Annual Review



Welcome to All Participants

Session Agenda:

Reliability, Test & Evaluation	Topic	10:30am - 12:15pm	105
NREL/Sandia	Reliability Program (Joint Presentation)	Sarah Kurtz & Michael Quintana	50
Sandia	Testing Evaluations (Joint Presentation)	Bill Marion & Charlie Hanley	20
Sandia	System Engineering	Charlie Hanley	10
Sandia	Stage Gate	Joe Tillerson	10
Facilitated discussion of barriers and research priorities			15



Vision:

- Supporting SAI programs
- Accessing Risk – diverse stakeholders are seeking confidence in performance and financial predictions
- Identifying, applying, and improving best practices in reliability engineering and testing
- **End Goal:** Industry adopting and applying best practices to produce even more reliable and cost-competitive products

Reliability Program



Key Activities:



- Supporting SAI programs
- Accelerated Aging Workshops
- Test-to-failure protocol
- Partnerships – DOE is working through national laboratories and industry gathering, appropriately sharing, and analyzing data
- Responding to feedback from industry – received increased funding, prioritizing activities, increasing national laboratory capabilities

Total Funding (\$M)

Fiscal Year	FY07	FY08	FY09
Reliability	\$3.1	\$6.7	\$6.7

Testing, System Engineering and Stage-Gate Reviews



Key Activities (cont'd):

- Testing activities support reliability efforts, determine technology benchmarks, assess long-term technology performance, and validate system performance models.
- Testing is providing support to selected TPP projects and other industry / university partners, as well as developing protocols for testing full range of technologies.
- Stage-Gate Reviews – guidance manual published (March 19, 2008) to support TPP process.

Total Funding (\$M)

Fiscal Year	FY07	FY08	FY09
Testing and System Engineering	\$4.0	\$4.2	\$4.2

Contact Information



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Please send us your comments and questions.