

US DOE SSL
2009 MULTI-YEAR PLAN
**TASK DEFINITION
BREAKOUT SESSIONS**

2/4/2009

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Objectives of the Breakouts

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- List top priorities for Core and PD *for 2009*
- Identify for each prioritized task:
 - Metric
 - Target for 2015
 - Status of metric today
 - Resources needed to reach 2010 & 2012 milestones
- Edit description if necessary for clarification

Session Activities (roughly)

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- Wednesday 2pm – 5pm
 - Develop priority lists, metrics and status
- Thursday 10:30am – 12:00n
 - Refine lists; develop targets and resources
- Thursday 1:00pm – 2:30pm
 - Summarize recommendations
- Thursday 3:00pm
 - 10 min reports from each group

LED R&D Task Structure

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Technology Category	Core Tasks	PD Tasks
1. Emitter Materials	3	3
2. Device Materials and Architecture	2	1
3. Device Packaging	1	5
4. LED Fabrication	1	3
5. Optical Components	1	3
6. Luminaire Integration	2	3
7. Electronic Components	2	4
Total (34)	12	22

OLED R&D Task Structure

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Technology Category	Core Tasks	PD Tasks
1. Device Materials and Architecture	5	2
2. Substrate and Electrode	1	2
3. OLED Fabrication	1	2
4. Luminaire Integration	1	5
5. Electronic Components	0	3
6. Panel Architecture	1	5
Total (28)	9	19

LED Milestones

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Milestone	Year	Target
Milestone 1	FY08	80 lm/W, < \$25/klm, 50,000 hrs device
Milestone 2	FY10	> 140 lm/W cool white device; >90 lm/W warm white device; < \$10/klm
Milestone 3	FY12	126 lm/W luminaire that emits ~1000 lumens
Milestone 4	FY15	< \$2/klm device

OLED Milestones

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Milestone	Year	Target
Milestone 1	FY08	>25 lm/W, < \$100/klm, 5,000 hrs device
Milestone 2	FY10	> 45 lm/W device
Milestone 3	FY12	< \$30/klm
Milestone 4	FY15	>100 lm/W device

Milestones and Resources

- Milestones are snapshots
 - To provide short-term focus
 - *Not* to exclude progress on other metrics
- Resource estimates
 - Level of effort required on a particular task to meet the general milestones
 - If you were proposing on a task, what level of staff-years would you need to make the next m/s?
 - Estimate for now-2010 and for 2010-2012 milestones

Deliverables (Report)

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- Top priorities for Core and PD separately
 - Approximately 3-4 for Core, 5-6 for PD
- Metrics, Targets, Status and Resources
 - For priority tasks as a minimum
 - Others as time permits
- Any general recommendations for program
 - Milestones
 - Missing Tasks
 - Etc.....

Breakout Groups

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-  Red Group (LED): Telegraph Hill
 - Steve Bland (PD first), Chris Sequeira
-  Yellow Group (LED): Union Square
 - Morgan Pattison (Core first), Dan Chwastyk
-  Blue Group (LED): Grand Ballroom
 - Norman Bardsley (PD first), Diana Burk
-  Green Group (OLED): Cathedral Room
 - Paul Burrows, Mimi Gupta