



Energy Efficiency Emerging Technology Program 2012 LED Lighting TAG Working Groups

April 13, 2012

Background

Presentations by Technical Advisory Group (TAG) members are at the heart of the E3T program, used to inform the scoring of promising emerging technologies (ETs). Presentations focus on the highest-ranked ETs or solutions selected during the ranking stage of the E3T process.

During previous TAGs, all presentations – usually four or five – were given within the same Scoring meeting. This proved to be a considerable challenge, requiring very long meetings in which many details were brought up and questioned. This year, each presentation and scoring exercise will take place in a separate meeting to improve the focus and quality of evaluating high-ranking ETs.

Operational Considerations

Forming the Working Groups

Working Groups (WGs) will convene soon after the first meeting of the LED Lighting TAG in April 2012. All TAG members are encouraged to participate with a WG, which will likely meet two or more times, at members' discretion. At least one E3T staff member will be on each working group.

The Convener of each WG will see that meetings are convened and progress is made on developing presentations and recommendations. Meeting schedules will be up to each group's members, facilitated by the Convener in coordination with E3T staff when staff resources are needed. The current status of the WGs is provided below.

	LED Area and Parking Lot Lighting	LED Outdoor Wall Packs	LED Linear Commercial Office Lighting	LED Street Lighting
Convener	Craig Ciranny	Jon Linn	Stan Walerczyk	Mark Rehley
Presenter, if known	Kurt Nielsen	Eric Strandberg	Stan Walerczyk & Dave Kunesh	
BPA E3T Staff	Jennifer Williamson	Jennifer Williamson	Levin Nock	Levin Nock
Other members	David Hunt	Joe Vaccher	David Kunesh Connie Samla Naomi Miller Doug Oppedal Cindy Wills	Ira Krepchin Ed Smalley Mary Matteson Bryan

Working Group Goals

- Choose a presenter or presenters.
- Verify, update and augment information on the Detailed Information form for your ET in www.E3TNW.org. [Put any information to change or update ETs in the Update field, labeled with the field it applies to. E3T staff will make the actual changes.]
- Prepare a 20-minute presentation on the ET. This presentation does not need not be formal or in PowerPoint. Some in the past have simply used the Detailed Information form from the database as the basis for the presentation. The presentation will be followed by about 20 minutes of Q&A and discussion about clearly defining what the ET is, followed by up to 40 minutes of discussion about the recommendations.

Clearly describe what the ET is and specify what aspects of the ET are most desirable to study further or will help qualify it to move into utility programs. This presentation should:

- Answer the questions in the Detailed Information form (such as Description, Competing Technologies, Advocates, Energy Savings and Development Status). For reference, a template for the Detailed Information form is available on the TAG Portal on E3TNW.
- Describe who is currently installing or researching the ET and what the results are showing.
- Address the questions in the scoring survey:
 - **Energy Savings** – How significant and reliable are the energy savings per unit?
 - **Non-Energy Benefits** – How great are the non-energy advantages for the end user for adopting this technology?
 - **Technology Readiness** – How ready are the product(s) and providers to scale up for widespread use in the Pacific Northwest?
 - **Ease of Adoption** – How easy is it for the end user to adopt the proposed technology?
 - **Value** – Considering all costs and benefits, is this technology a good value for the owner?
- Recommendations (link to samples below)
 - Program strategy advice (e.g., timing of incorporating the measure as a standard measure, criteria for approving non-standard projects, recommendations for appropriate incentive amount, specs, technical issues that must be overcome before incorporating into programs, etc.)
 - Describe research that will boost confidence in savings estimates and performance (e.g., baseline research to document hours of operation, demonstration projects to show light distribution, etc.)
- Submit drafts and final presentations to E3T staff.
- Try to finish your presentation and recommendations at least a week ahead of your scheduled Scoring Meeting to give time for practice, last-minute changes and staff review.

Each presentation will be made to the whole TAG at the Scoring Meeting scheduled for that technology. There will be time for discussion and proposed revisions to the recommendations, and then the whole TAG will score this technology based on the scoring survey criteria listed above.

Examples of Group Output

Detailed ET description from a TAG in 2011 on Energy Management:

<http://www.e3tnw.org/ItemDetail.aspx?id=338>

To access the Description, you will need to log in and click on the “details” tab.

Accompanying presentation:

http://www.e3tnw.org/Documents/2011_e3t_338_EMS_Criscione_Hart_11g.pdf

In particular, slide #16 summarizes answers to some of the key questions.

Recommendations to BPA, based on dialogue during and after the presentation:

<http://www.e3tnw.org/Documents/Recommendations%20from%20EM%20TAG.pdf> (pp.1-3)

For additional depth, look at the Gap Analysis forms on the TAG Portal:

http://www.e3tnw.org/Documents/Gap_Analysis_LED_Workbook_2012-0411.xlsx. These examples are for Integrated Classroom Lighting Systems and LED Street Lighting. For each criterion, there is an assessment of what we know, what we do not know or hurdles that we are aware of, how difficult it will be to address them, and specific research that could be done to address the hurdles and unknowns. We have found that the Gap Analysis form is a good way to organize the WG members’ thinking when developing recommendations for research. The BPA staff person in each WG will complete a gap analysis for each ET and will advise on this as needed.

Anticipated LED Lighting WG Presentation and Scoring Schedule

Presentation and scoring sessions will start at 10 a.m., run 1.5 hours and might end early if discussion is complete.

Date	Technology
May 3	417: LED Area and Parking Lot Lighting
May 17	395: LED Outdoor Wall Packs
May 29	78: LED Street Lighting
May 31	401: LED Linear Commercial Office Lighting

These ETs are being addressed in the order in which they were ranked at the TAG Ranking Meeting. If your group has a challenge with your scheduled time because you will not be ready in time or have scheduling conflicts, please let us know as soon as you can so we can change with another group.

E3T Staff Roles

At least one E3T staff member will participate in each WG to help convene and facilitate the group, and will post WG scheduling details and supporting documents on the LED TAG Portal at E3TNW.org. Staff can also assist TAG members by detailing procedures for posting content to the E3TNW.org website or discussion forums, where comments can be solicited from others beyond the working group’s roster.

Information for Conveners

If you have volunteered to be a WG Convenor for one of the four top ETs for the BPA E3T 2012 LED Lighting TAG, thank you. As a Convenor and active member of the WG, your first task is to become familiar with the roles and responsibilities of the WGs. Please review this document carefully. If you lose track of it, a copy is available on the 2012 LED Lighting TAG Portal of www.E3TNW.org.

In addition to being a working member of the WG, some of your additional responsibilities include:

- Working with the Presenter (if this is someone other than yourself) and the other WG members to schedule the conference calls.
- Determine, with Presenter, how many calls to have.
- Communicate meeting schedules and other important information with Angela or Alan (see contact info below).
- Liaise with Angela or Alan for needed resources, such as use of GoToMeeting or conference lines.
- Schedule your full TAG presentation with Angela or Alan, if this is different from the established schedule.

Resources Available

- GoToMeeting for online presentations and showing each other your screens.
- Conference lines.
- The [TAG Portal](#) for posting relevant documents.
- The WSU Energy Program Energy Library for in-depth research and scanning.
- If you want to use online polling instead of email to poll members about the best times to schedule meetings, we recommend Meeting Wizard (<http://www.meetingwizard.com/>) or Doodle (<http://www.doodle.com/>).

E3T Staff Contact Info

Administration	BPA Staff
Angela Phillips (360) 956-2112 phillipsa@energy.wsu.edu	Jennifer Williamson (503) 230-4536 jcwilliamson@bpa.gov
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