Commercial Advisory Committee









Agenda

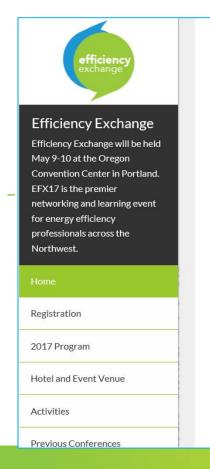
- Introductions, Informational Updates, Announcements
- Commercial Portfolio Update
- Commercial Building Stock Assessment
- CAC Member Share Out/Round Robin
- Lunch!
- Commercial Code Enhancement milestone review
- Reduced Wattage Lamp Replacement
- Emerging Technology

Informational Updates

- See Packet Page 3 for links to the
 - Latest CAC and RPAC meeting notes
 - Q1 C&I Lighting Progress Newsletter
 - Q2 Emerging Technology Report

Efficiency Exchange 2017:

- May 9-10 at Oregon Convention Center (Portland)
- Hotel block at Doubletree (by BPA)



Home



Connect with your peers.

Learn and share innovations.

Take new ideas home with you.

Register Now >

Efficiency Exchange 2017 will be held at the Oregon Convention Center in Portland, Oregon on May 9-10. Efficiency Exchange is the premier networking and learning conference for energy efficiency professionals from across the Northwest. Attendees from public and private electric utilities, consulting and research firms, government and non-profit organizations will come together to learn and connect to help the region more effectively achieve its energy savings goals.

This year's conference theme is Energy Efficiency in a Changing Environment.

Who's attending?



Commercial Portfolio Q1 2017 Update

Reduced Wattage Lamp Replacement



Luminaire Level Lighting Controls



Top-Tier Trade Ally



Commercial Lighting Regional Resources



Building Operator Certification



Commercial Real Estate



Commercial Window Attachments



Commercial Code Enhancement



Strategic Energy Management



CIA org chart slide



Market Strategy & Execution

Julia Harper
Director
503-688-5434



Commercial / Industrial / Ag

Sepideh Rezania Sector Manager 503-688-5462

Program Coordinator

Anne Swanson 503-688-5446

Program Coordinator

Carla Compisi 503-688-5416



Sr. Program Manager

Christian Miner 503-688-5498

- Commercial Real Estate
- Window Attachments



Sr. Program Manager

Kim Hughes 503-688-5467

- Building Operator Certification Expansion
- Commercial New Construction
- Building Renewal tool pilot



Sr. Program Manager

Elaine Miller 503-688-5461

- Reduced Wattage Lamp Replacement
- Upstream Lighting Platform



Program Manager

Maria Murphy 503-688-5486

 New Commercial Programs



Sr. Program Manager

Anne Curran 503-688-5431

- Luminaire-Level Lighting Controls
- Top-Tier Trade Ally
- Lighting Resources



Program Manager

Warren Fish 503-688-5402

- SEM Infrastructure
- Certified Refrigeration Energy Specialist Certification
- Industrial Technical Training



Commercial Lighting Market

LIFECYCLE PHASES

















Commercial

Lighting Regional

Resources



Program		Q1 Update
Reduced Wattage Lamp Replacement	Reduced Wattage Lamp Replacement	 27% market penetration. Touching 40% of overall lamp sales via 12 distributors. Strong success stories on CED.
Top-Tier Trade Ally	Top Tier Trade Ally Advanced Training	 Grown to 69 individuals and 29 companies with designation. Positive feedback from Trade Allies at the ETO event.
Luminaire Level Lighting Controls	Luminaire Level Lighting Controls	 DLC's Advanced Lighting Training piloted in collaboration with Idaho Power received positive feedback. PSE updated calculator with higher tier incentives for LLLC
Commercial Lighting Regional Resources	Commercial Lighting Infrastructure	<u>www.nwlightingnetwork.com</u>



Commercial Building & **New Construction Markets**

LIFECYCLE PHASES























Program	Q1 Update
Commercial Real Estate Commercial Real Estate	 Great user feedback session on Navigator. Navigator and BetterBricks re-design wireframes in the works. Webinar on Spark. Unico and Clise Properties interested and using the tool. January BetterBricks newsletter.
Commercial Window Attachments Window Attachments	 Baseline completed. RTF approved protocol in plans to be reviewed this Summer. AERC to introduce a residential windows rating in June.
Commercial and Industrial SEM Infrastructure	 Leveraged DOE dollars to upgrade and integrate Online SEM Collaboration in works! www.semhub.com
Commercial Code Enhancement Enhancement	 Design completed with 14 utility funders and 8 code stakeholders. Scale-up Approval in May 2017.
Building Operator Certification Certification Expansion	 On path for Self-sufficiency: IBOA set 2017 goals to recruit additional board members and develop an additional set of services to attract new IBOA members in its three-state territory.

neea

CBSA

CAC Member Share-out

Lunch!

Commercial Code Enhancement (CCE)

Kim Hughes Senior Program Manager









Today's Conversation

- Initiative Design
- Initiative Description
- Roles and Responsibilities
- RPAC Vote

We are here



Initiative Design

































Department of Commerce







"People and organizations in the region come from very different places and have differing experiences and points of view. It has been good to go through a process of acknowledgment and alignment."

"Valuable to identify the tension points and understand other perspectives - helps accept other views into the strategy and plan NEEA may develop for the region."

Initiative Description

Initiative Description

The CCE program applies market transformation principles to the code change process to create better alignment between the market, utility programs, and code.



What are the market barriers?



Fragmented regional voluntary programs



No Business
Case for Developers
and Builders



Lack of proof for proposed tech



Resistance to Change

What are the interventions?



Desired Future State

Commercial Code Enhancement State Coordination Plans Technology and Practice Assessments Code **Market Intervention Strategies Adoption** Code Code **Emerging** Market Implementation Technology Practice Process **Utility NEEA Codes Programs Program**

Initiative Outcome – Effective Commercial Building Energy Codes

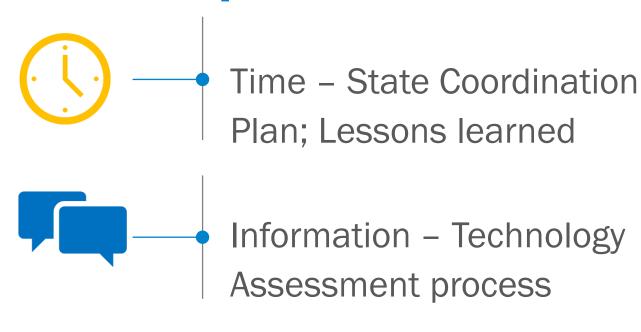
- Greater simplicity of codes
- Market practice leads and informs code
- Strategic partnerships between utilities, jurisdictions and the design and construction industry
- Lower energy use

Value to NEEA funders

- Greater ability to proactively design programs with future code changes in mind
- Increased ability to capture energy savings and influence code
- Potential for greater compliance with a better prepared market

Roles & Responsibilities

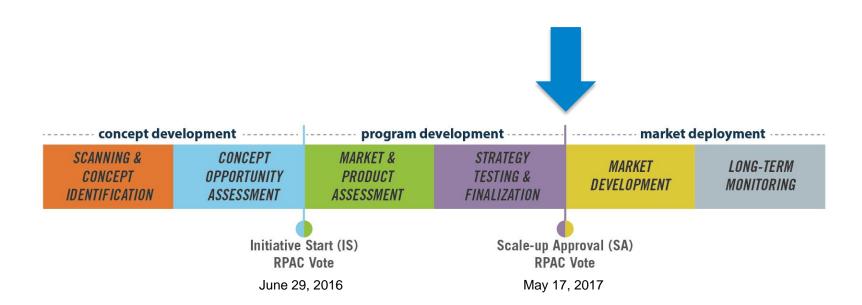
Proposed Funder Role





Coordination – Market Activities

Next Steps





TOGETHER We Are Transforming the Northwest































Break!

RWLR – CAC Update April 25, 2017

Elaine Miller
Senior Program Manager
Northwest Energy Efficiency Alliance









To Cover Today

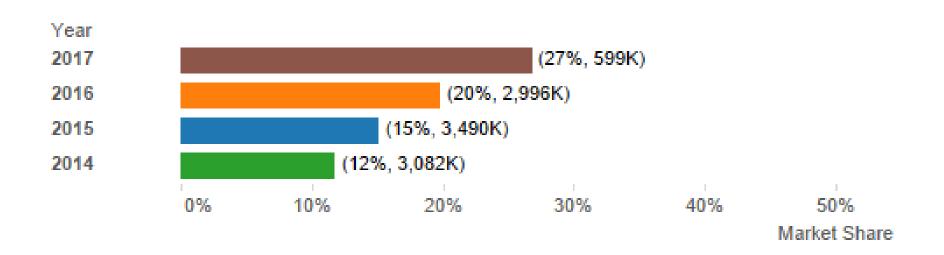
- Update on progress to date
- Engagement
- Challenges
- Overall trends
- Next steps
- Discussion



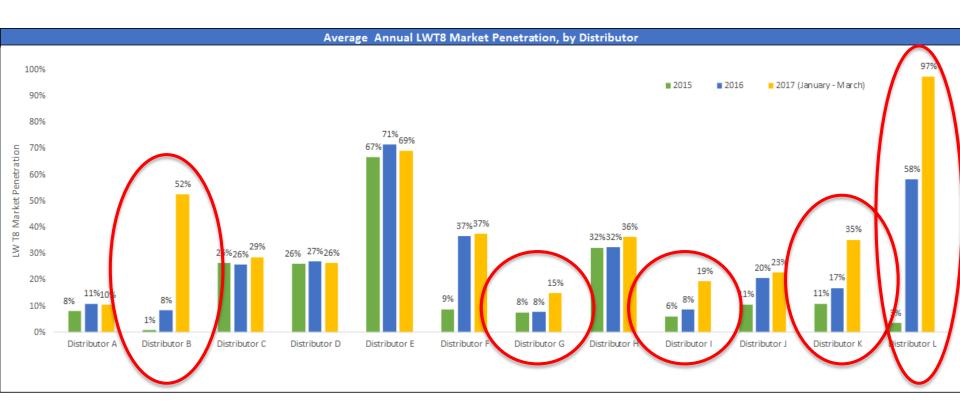
Big Guys Improving Drives Jump

Reduced Wattage Market Share

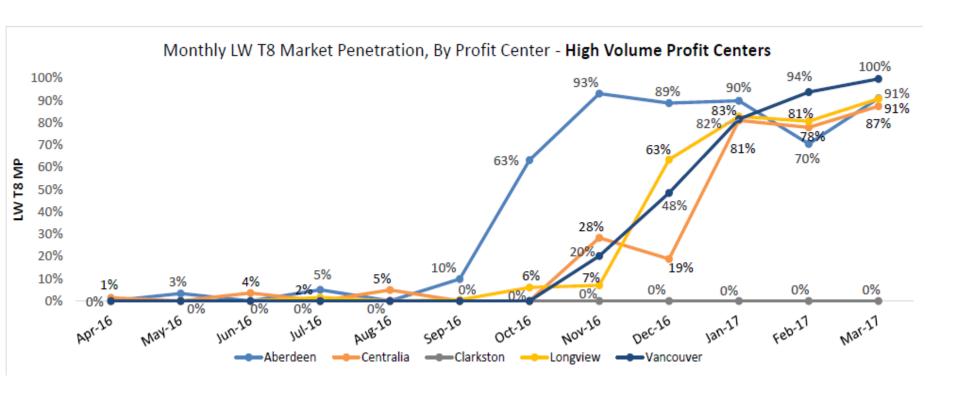
Values in parentheses represent: (Market Share, Sales of 25/28/32 Watt bulbs in thousands)



Some Good Movement in Q1 '17



Details on Distributor B



Results of large branches after restock

Keys to Successful Behavior Change

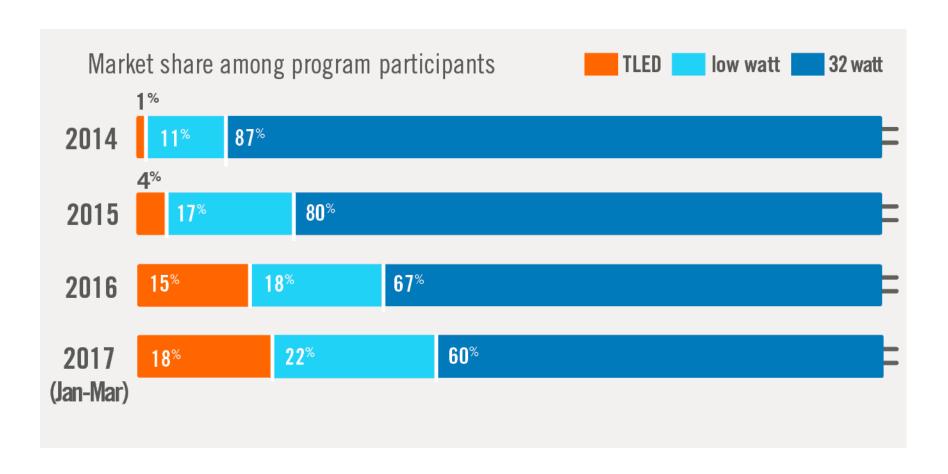
- Special pricing in place
- Staff rewards
- Corporate branch level communication to promote shift
- Must change stock to see dramatic shift
- Leverage FOMO



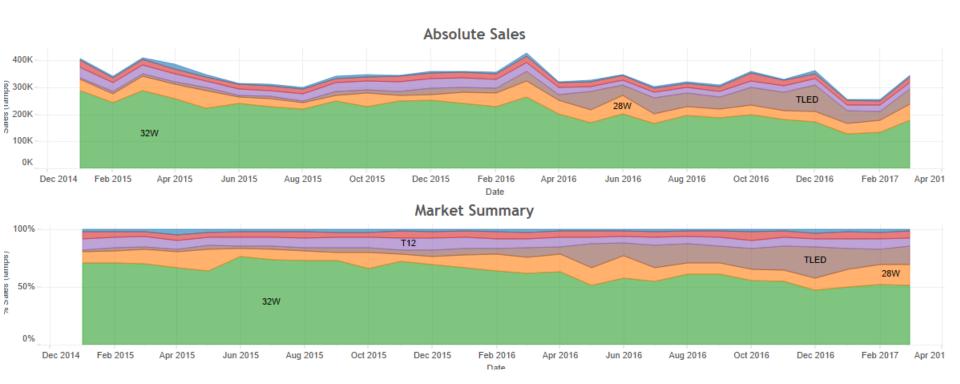
Engagement

Distributor	Start Date	Organization	Branches
CED Cascade	3/1/2017	1	17
CED Columbia	8/1/2016	1	17
Eoff Electric	1/1/2015	1	13
Grainger	5/1/2015	1	11
Graybar	12/1/2015	1	10
Interstate	5/1/2015	1	6
North Coast	2/1/2014	1	34
Pacific Lamp and Supply	1/1/2015	1	1
Platt	11/1/2013	1	85
Portland Lighting	12/1/2013	1	1
Stoneway	10/1/2015	1	19
United Lamp and Supply	3/31/2016	1	1
Enrolled as of Q1 2017		12	215
The Home Depot - Pro Desk	5/1/2017	1	89
CED Additional Locations	6/1/2017		
Wesco	6/1/2017		14
To be Enrolled in Q2 2017		3	127

Market share since 2014



Reduced Wattage Lamp Replacement Sales Dashboard



- Tracking over 4 million
- Declining market but continued opportunity 14% year
- Can see some leveling off of TLEDs ... ??

Next steps RWLR?

- Continue strategies to accelerate
 - Focus on restocking.. Get to 80%
 - Focus on FOMO
 - Focus on big guys
 - Track market closely
 - Ops plan for 2018??



Next steps Distributor Platform?

- Research to help LLLC with distributor data and marketing strategies
- Work closely to help SCL re LED products
- Work with Market Strategy to ID additional opportunities
- Continue to improve data tools and collaboration with research teams

Thank you

- Questions?
- emiller@neea.org
- 503-688-9877

ET Scanning

Window Attachments Surface Applied Films

Rob Curry









New advanced engineering

- Window film industry has grown by leaps and bounds in recent years
- Developments like nanotechnology and advanced coatings have significantly increased their performance
- Modern products which block more heat than light

Thermoplastic polymer

- Surface applied to inside of existing windows
- Designed to reduce the amount of solar heat transmitted through the glass
- Reducing energy use from 5 to 10%

Most common types

- Solar control film
- Spectrally selective film
- Low-e coatings
- Safety / security film
- Decorative film



Wide range of benefits:

- Increasing occupant comfort and wellness
- Increased UV fade protection
- Reduced glare
- Increased safety and security

Improved insulating value

- Some films improve single pane clear glass to meet dual pane low-e specifications without a mirror finish
- Highly reflective over the invisible infrared portion of the solar spectrum while being only slightly reflective

Certification Standard

- Window film comes in a range of shades from visually clear to darker shades of grey and bronze.
- More than 250 films have been certified by the National Fenestration Rating Council
- International Window Film Association provides unbranded information

15 year to lifetime warranties

- Manufacturers are confident enough that they will warrant the film from cracking, crazing, delaminating, bubbling, peeling, or discoloration
- Also warrant the glass from seal failure and/or glass breakage to match the existing glass manufacturer's warranty



Thank you!

Together We Are Transforming the Northwest































Emerging Technology Update

Rob Curry Mark Rehley









Topics

- Window Films
- ETCC Summit
 - IOTAS
 - Conservant Systems
 - Enlighted AIRE
 - ChillDyne



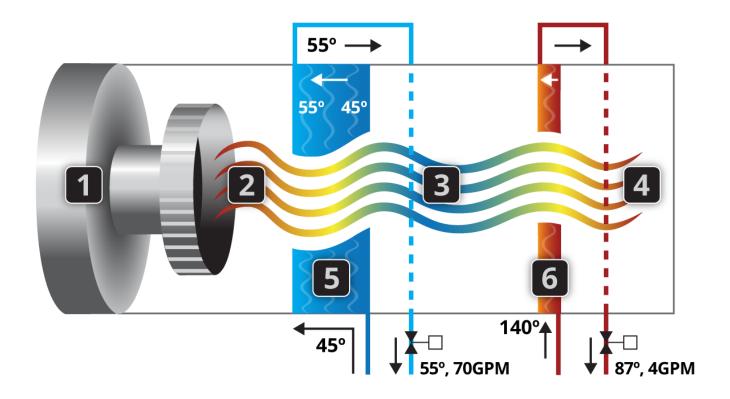
IOTAS



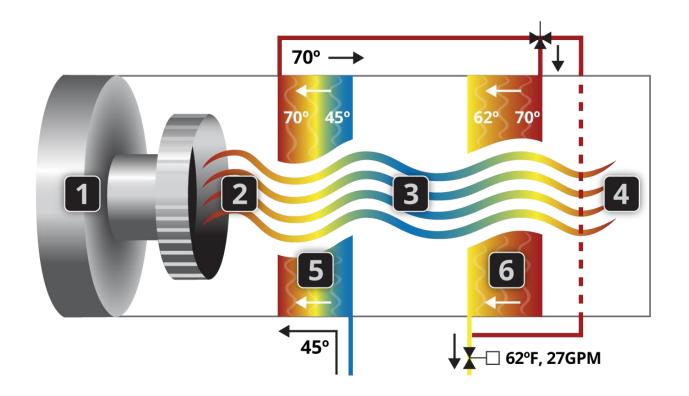
- Multifamily
- Personalized automation and controls
 - Lighting
 - Entertainment
 - Security
 - Cooking
- Extensible and Transferable
- https://youtu.be/XXdFHmGbxdE



Conservent



Conservent



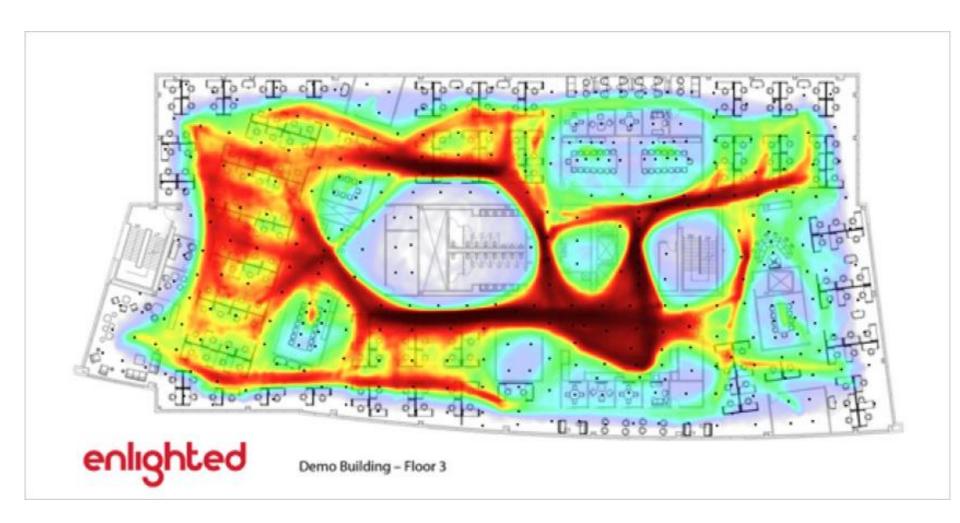




Enlighted - Space



Enlighted Space





- https://youtu.be/552tzND2Xx0





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Wrap Up

– Public Comment?

- Feedback on the meeting:
 - Overall?
 - Agenda?
 - Packet materials?
 - What went well?
 - What could be improved upon?





Thank you CAC!!!

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