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SAG LIAISON CALL

March 29, 2016

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GLOBAL LIGHTING CHALLENGE

A Clean Energy Ministerial Campaign

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Chad S. Gallinat, Ph.D.
International Climate Fellow, International Climate and Clean Energy, Office of International Affairs, U.S. Department of Energy
Chad is a co-coordinator of the Clean Energy Ministerial's Global Lighting Challenge and Super-efficient Equipment and Appliance Deployment (SEAD) Initiative. Dr. Gallinat joined DOE in 2013 as a Science and Technology Policy Fellow for the American Association for the Advancement of Science (AAAS) where he has been working on a range of multilateral and bilateral energy efficiency efforts. Prior to joining DOE, he worked in both the private sector and at a national laboratory on research initiatives advancing semiconductor technologies relevant to a host of light-absorbing and light-emitting applications including LEDs for solid state lighting.

- Introduction to the Clean Energy Ministerial (CEM)
- Motivation for high-priority CEM "Campaigns"
- The CEM's Global Lighting Challenge
- How to get involved
- New opportunities

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CLEAN ENERGY MINISTERIAL

Accelerating the Global Clean Energy Transition

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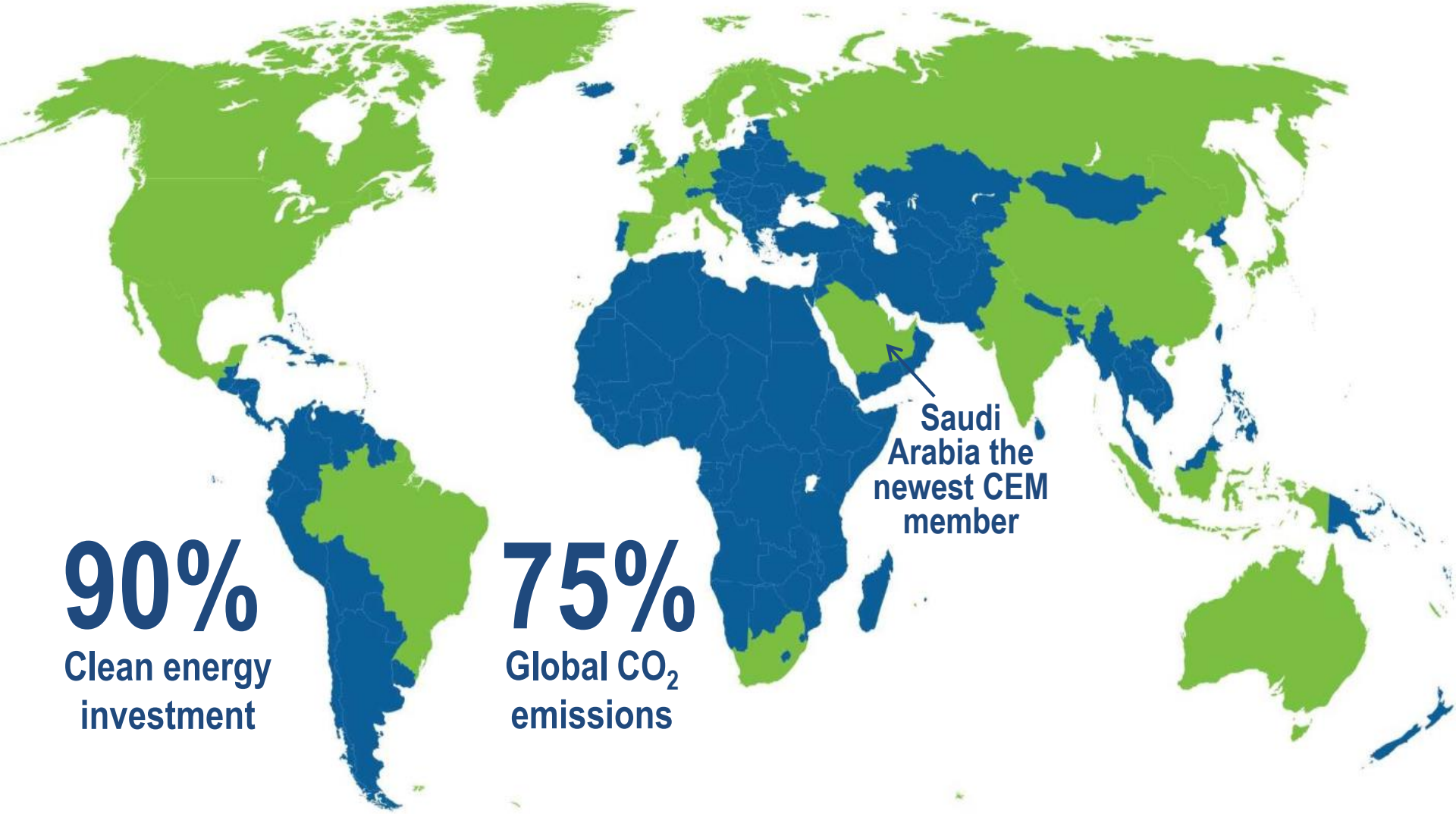
CEM MEMBERSHIP

23 countries and the European Commission



90%
Clean energy investment

75%
Global CO_2 emissions

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CEM COMPARATIVE ADVANTAGE

Building a solid foundation

- Real-world action
- Private sector leadership
- Sustained, year-round initiatives
- Exclusive, efficient focus on clean energy efforts
- High-level energy policymakers connected with technical experts

IFMA™ ANNUAL MINISTERIALS

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CEM1 - 2010
United States

CEM2 - 2011
United Arab Emirates

CEM3 - 2012
United Kingdom

CEM6 - 2015
Mexico

CEM4 - 2013
India

CEM5 - 2014
Korea

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INITIATIVES

Year-round technical and policy collaboration delivering tangible results

Energy Demand

- Appliances (SEAD)
- Buildings and Industry (EMWG)
- Electric Vehicles (EVI)

Energy Systems & Integration

- 21st Century Power (21CPP)
- Energy Access (Global LEAP)
- Smart Grids (ISGAN)
- Smart Cities (GSCN)

Energy Supply

- Solar and Wind
- Bioenergy
- Hydropower

Cross-Cutting Support

- Women in Clean Energy (C3E)
- Clean Energy Solutions Center

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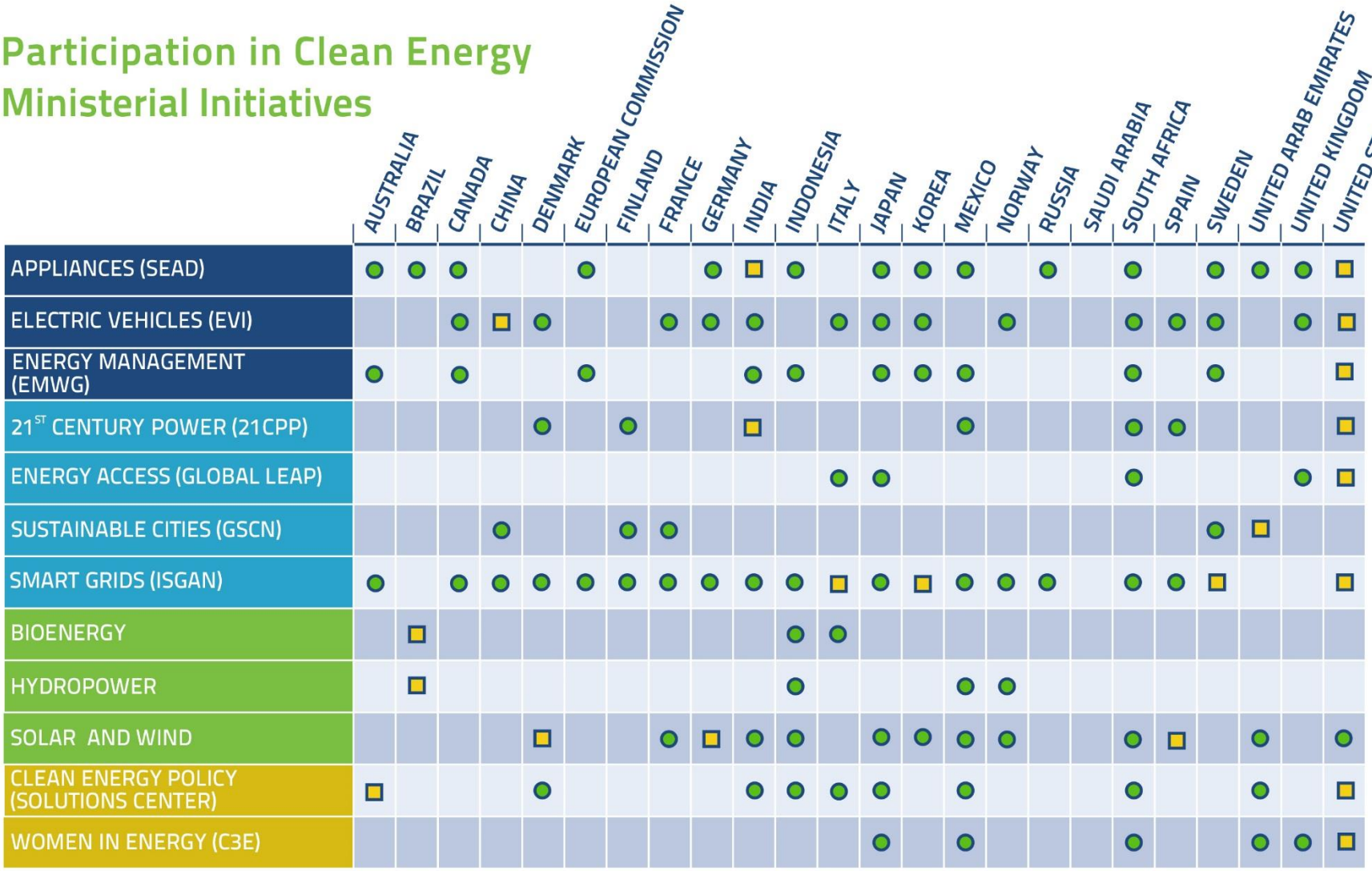
INITIATIVES

Participation in Clean Energy Ministerial Initiatives



Non-CEM countries, nongovernmental organizations, and private businesses also participate in selected initiatives.

■ Lead ● Participant

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CEM6 – KEY OUTCOMES

- Launched enhanced, second phase – "CEM 2.0"
- Created Steering Committee – sustained, multilateral leadership
- Launched three campaigns:
  - Global Lighting Challenge
  - Power System Challenge
  - Scaled-Up Clean Energy Solutions Center
- Announced hosts for CEM7 and CEM8

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CEM7 AND CEM8

World's two largest economies and carbon emitters demonstrate commitment to the CEM and to clean energy

President Barack Obama announced in a video message that the **United States** will host **CEM7 in 2016**

China's Minister Wan Gang announced that **China** intends to host **CEM8 in 2017**

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The Global Lighting Challenge

A global race to reach cumulative sales of 10 billion high-efficiency, high-quality and affordable advanced lighting products

Governments Participating: Australia, China, France, Germany, India, Indonesia, Korea, Mexico, Russia, South Africa, Sweden, the United Kingdom, the United States, and the Directorate-General for Energy of the European Commission

Update: Since the Global Lighting Challenge launch on the side of COP21, more than 85 million bulbs have been deployed along with endorsements and commitments from major corporations like IKEA and CREE.

Website: http://www.globallightingchallenge.org/

The Global Lighting Challenge is now seeking commitments from public- and private-sector leaders to speed us toward the 10 billion goal.

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Join us!

GLOBAL LIGHTING CHALLENGE
A Clean Energy Ministerial Campaign

Two ways to get involved:

GLC Participant

or

GLC Supporter

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Participant

Participants make tangible and specific commitments to be counted toward the 10 billion goal. These might be lighting retailers, building owners, storefronts with retail space, national and subnational governments, development banks, and related institutions.

Green Solar Africa
ALTERNATIVE ENERGY FOR ALL

IKEA Group

VICTORIA
State Government Australia

urbanVOLT

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GLOBAL LIGHTING CHALLENGE
A Clean Energy Ministerial Campaign

Two ways to get involved:

GLC Participant

- Lighting retailers, building owners, storefronts, warehouses, any facility that uses lighting!!
- Make a tangible and specific commitment to the Challenge
- Commitment is listed on the GLC website
- Minimum reporting of once/year to show progress towards 10B goal

or

GLC Supporter

Supporter

Supporters are market enablers that are critical for supporting efforts by Participants and Endorsers, such as lighting manufacturers, utilities, ESCOs, and others.

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Join us!

GLOBAL LIGHTING CHALLENGE
A Clean Energy Ministerial Campaign

Two ways to get involved:

GLC Participant

- Lighting retailers, building owners, storefronts, warehouses, any facility that uses lighting!!
- Make a tangible and specific commitment to the Challenge
- Commitment is listed on the GLC website
- Minimum reporting of once/year to show progress towards 10B goal

or

GLC Supporter

- Market enablers such as lighting manufacturers, utilities, ESCOs, and others
- Indicate support of the GLC through a supporting statement, commitment, helping to advertise the GLC, or other supporting activity
- Supporters and supporting statements listed on the GLC website

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A Clean Energy Ministerial Campaign

Next steps:

GLC Participant *or* **GLC Supporter**

1. Sign up online through the GLC website under "Join" or send me an email expressing interest (chad.gallinat@hq.doe.gov)
2. We'll have a brief interview to understand the appropriate level of participation
3. Send in 2 pieces of information:
    1. Logo appropriate to be featured on the GLC website
    2. Tangible commitment (Participants) or supporting statement (Supporters)
4. We'll work to promote your GLC membership through our social media channels, newsletters, website, and updates at the Clean Energy Ministerial
5. Provide periodic updates on progress towards Commitment goals

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Seventh Clean Energy Ministerial (CEM7)

June 1 – June 2, 2016
San Francisco, California

cem7.org

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CEM7 VISION

- Fully use “CEM 2.0” to accelerate the global clean energy transformation
- Draw full minister participation; attract the participation and active support from high-profile business, philanthropic, and other leaders in clean energy
- Launch new, high-visibility CEM campaigns that tap into globally relevant and compelling clean energy areas that can have significant impact
- Demonstrate deployable and emerging clean energy innovation by showcasing companies, technologies, and programs, from the Bay Area, the broader U.S., and from other CEM countries
- Showcase clean energy success stories in the U.S. and in other CEM countries

Leverage high-level political will and private sector leadership to drive ambitious, real-world clean energy policies and actions

cem7.org

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CEM7 KEY FEATURES

- **Minister Site Visits**
  - May 31 tour of Tesla factory followed by reception and tech tour at Google
- **Closed-Door Session**
  - Core CEM decision-making by ministers and delegates to fully realize the CEM 2.0 vision
- **Public-Private Roundtables**
  - Four concurrent roundtable discussions with Ministers, c-suite level executives, and other clean energy leaders
- **Reception**
  - For ministers, delegates, roundtable participants, and other special guests taking place in the technology showcase

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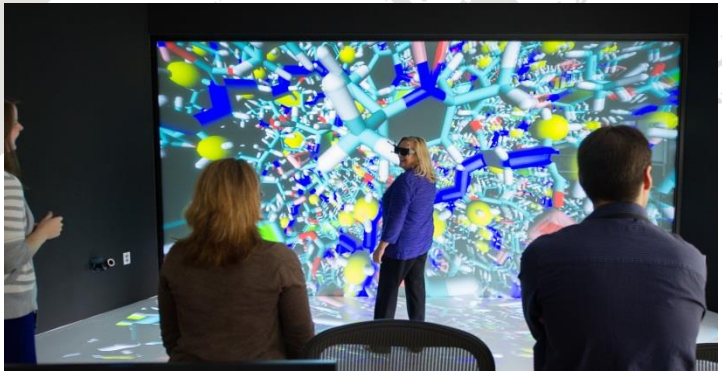
CEM7 KEY FEATURES

- **Public-Private Action Summit**
  - Keynote speakers, fireside chats, and panel discussions with clean energy luminaries
  - Opportunities for high-profile announcements of ambitious clean energy efforts and endorsements of CEM campaigns
- **Technology Showcase**
  - Showcase featuring 100 global clean energy innovations
- **Delegate Site Visits**
  - Tech tours to DOE labs and clean energy tech leaders
- Other co-located / co-timed clean energy events – Mission Innovation, Under 2 MOU, C3E, etc.



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Thank you!!!!

Feel free to contact me at chad.gallinat@hq.doe.gov

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ESUS Agenda – 3/29 Liaison Call

- Initiative Status (CEP, ES, How-to Guides)
- Outreach (webinars, articles)
- News
- Survey Results (to date)

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IFMA's New Knowledge Library – Bill Conley

The Knowledge Library, one of the tools under IFMA's knowledge strategy initiative, is a digital content library that houses hundreds of facility management resources and provides users with more access to FM content than ever before!

The Knowledge Library will bring all new access and functionality to your fingertips. You'll be able to get the latest video content, documents, articles, research and more written and reviewed by industry leading professionals organized in a simple to use, single location. The Knowledge Library provides members access to all IFMA content like never before. The robust search and organization help you find exactly what you need. The library houses articles, benchmarking research, videos and more.

For more information on the Knowledge Library, please
or contact knowledgelibrary@ifma.org

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City Energy Project

	National, Multi-City Activities (led by CEP Hub and SAG Task Force)			INVOLVED PA		
#	Category	Activities	Importance *Rank 1-4*	CEP Hub	CEP Cities	SAG
1	Project Management	Finalize and execute MOU	☑			
2	Project Management	Identify members of SAG/CEP task force	☑			
3	Project Management	Set up ongoing communications plan (monthly calls between CEP reps and SAG Task Force; monthly updates to work plan;	☑			
4	Project Management	Develop joint work plan	☑			
5	Partnership	Orientation program for CEP cities to deepen their knowledge of IFMA (webinar) *once we have a Menu for City-Chapter engagement*	☑			
6	Project Management	Develop "Menu" for City-Chapter Engagement through collaboration with CEP city advisors and IFMA chapters	1			
7	Data	Review existing data templates used by IFMA and CEP and structured mechanism for collecting and sharing benchmarking data.	1			
8	Data	Develop pitch for sharing ENERGY STAR Data	☑			
9	Communications	Get quote and list IFMA as partner on CEP website (vice versa?)	2			

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Progress Against CEP February Tasks

- CEP
  - MOU signed (IMT, NRDC)
  - PPTs developed at national level
- Pilots/Focus
  - Salt Lake City (Webinar, 'Salt Lake City Elevate Buildings' program
  - Houston (Webinar, energy, water, benchmarking ES; education for building operators/SFP)
  - Orlando (ES),
- CEP Expansion
  - 10 new cities, April selection in Atlanta, IFMA participation in city selection, Atlanta meeting

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ENERGY STAR

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ENERGY STAR

Roadmap Update:

1. **Education:**
   a) Create Energy Star Webinar (February 17, 2016)
   b) Create chapter package (almost done/ready for graphic designer, sent to you as attachment)
2. **Work with CEP/Liaisons on Implementation**
3. **Benchmarking**
   - O+M Report to be published this year

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"Facility Managers Helping Facility Managers"

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LEARN MORE AT energystar.gov

February XX, 2016

Dear Chapter Presidents,

The EPA's ENERGY STAR program is IFMA's standardized benchmarking tool for measuring energy performance. Our members have been using this metric to track building and facility performance related to emissions, water, and energy use (including utility costs) over the past five years. More than thirty countries have mandated energy rating policies for their buildings, with ENERGY STAR also adopted by nine states and twenty metropolitan areas in the US.

IFMA's ENERGY STAR Challenge has now created such data on over 2800 buildings, with all 50 states represented. Using data from ENERGY STAR's Portfolio Manager software IFMA members are better equipped to decrease their energy use, save money, reduce greenhouse gas emissions, improve facility performance, benefit from tax incentives and rebates, and meet the demands of required energy and GHG reporting.

IFMA has established a new program titled *Facility Managers Helping Facility Managers* for the purpose of expanding our involvement with the ENERGY STAR program. Attached to this letter is a brief report providing greater detail about ENERGY STAR including suggestions for how to share your Portfolio Manager data with other IFMA members. There are also sample reports generated by the Portfolio Manager software. To protect participant identity, the reports provide data on energy use, however they do not identify individual companies or owners of individual buildings nor do they include the name of the city in which any building is located. Using IFMA's own databases, more detailed information will be developed as part of the IFMA's O+M benchmarking report to be released later this year.

We invite you to take part in this effort. IFMA's current average utility cost is $2.56 per square foot for all building types. Extrapolating from this number we estimate that over $200 billion per year is spent on electricity, gas and water in commercial facilities. Everyone wins if we can lower those costs in 2016.

Cordially,

Tony Keane

President and CEO, International Facility Management Association

"Facility Managers Helping Facility Managers"

LEARN MORE AT energystar.gov

IFMA ENERGY STAR Report

Background

Measuring performance in a consistent manner, benchmarking energy and utility use, sharing and implementing efficiency measures and best practices helps reduce costs and consumption, reduce greenhouse gas emissions, and improve facility performance. Since 2009, IFMA has worked with ENERGY STAR's Portfolio Manager through the Environmental Protection Agency (EPA) to help the FM community improve building energy performance in existing facilities.

In 2011 IFMA launched the IFMA Energy Challenge. As part of the challenge, IFMA members are encouraged to benchmark their buildings in ENERGY STAR Portfolio Manager and share their data with IFMA through a master account. This allows us to aggregate data and generate benchmarking reports based on shared information. This capability is particularly important for non-benchmarkable facilities such as convention centers and airports whose facility managers otherwise have a difficult time finding peer data they can utilize.

There are now close to 2,900 facilities shared with IFMA through the IFMA Master Account. Efforts are underway to incorporate this data into the IFMA O&M Benchmarks report. This data is also available in a tabular format.

Purpose

The data in this report is provided to facility managers for the purposes of comparing individual facility performance to other facilities within the IFMA database. As illustrated below, data includes facility type, size, geographic location (state or province), energy use per square foot, ENERGY STAR score (when available), and greenhouse gas emissions (as related to building energy use).

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LEARN MORE AT energystar.gov

How to join IFMA's ENERGY STAR Challenge!

It only takes 5 minutes…

Step 1: Visit www.energystar.gov/benchmark and log in.

Connect with IFMA by clicking Contacts in the upper right hand corner.

Click Add Contact

Select IFMA_MASTER (Hint: type "IFMA" into the search bar)

Click Connect

Step 2: Share Properties

Click the MyPortfolio tab and select Share with Others in the drop-down menu next to the property you want to share

Select the facilities in your Portfolio Manager account you will be sharing with the specific IFMA Master Account Group.

Click Continue

Set Permissions to Read Only Access

Click Share Property(ies) to send a sharing request.

VISIT OUR 30 MINUTE ENERGY STAR WEBINAR AT:

https://attendee.gotowebinar.com/recording/8637296428037464835

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Sorted by State

Year Ending	State/Province	Property GFA - EPA Calculated (Buildings) (ft²)	ENERGY STAR Score	National Median Site EUI (kBtu/ft²)	Weather Normalized Site EUI (kBtu/ft²)	Weather Normalized Source EUI (kBtu/ft²)	Total GHG Emissions Intensity (kgCO2e/ft²)	Primary Property Type - Self Selected
7/31/2013	Alaska	33408	51	98.1	101.2	140	6.9	Non-Refrigerated Warehouse
8/30/2013	Arizona	439713	89	78.8	45.9	115.8	6.1	Courthouse
9/31/2013	Arizona	304848	97	81.8	33.7	97.9	3	Courthouse
8/30/2013	Arizona	77539	92	62.4	32.3	88.8	4.4	Courthouse
8/30/2013	Arizona	172676	99	71.2	23	67.1	3.4	Office
9/31/2013	Arizona						6.8	Courthouse
7/31/2013	Arizona						3.7	Retail Store
7/31/2013	Arizona						7.8	Retail Store
7/31/2013	Arizona						3.4	Retail Store
7/31/2013	Arizona						4.8	Retail Store
7/31/2013	Arizona						3.9	Retail Store
8/31/2014	Arizona						6.4	Retail Store
7/31/2013	Arizona						7.3	Retail Store
7/31/2013	Arizona						6.4	Retail Store
7/31/2013	Arizona						6.8	Retail Store
7/31/2013	Arizona	95273	71	61.3	48	144.3	7.2	Retail Store
7/31/2013	Arizona	95477	77	60	40.3	126.8	6.3	Retail Store
7/31/2013	Arizona	95581	77	59.8	40.1	126.1	6.3	Retail Store
7/31/2013	Arizona	95607	79	61.4	40.7	127.7	6.3	Retail Store
7/31/2013	Arizona	95648	77	59.8	40.3	126.8	6.4	Retail Store
7/31/2013	Arizona	95148	79	59.2	41.1	129.2	6.3	Retail Store
7/31/2013	Arizona	96463	74	59.7	42.4	133	6.8	Retail Store
8/31/2014	Arizona	96211	94	79.2	33	74.3	5.2	Retail Store
7/31/2013	Arizona	96218	78	60.9	40.3	126.8	6.4	Retail Store
7/31/2013	Arizona	96077	79	59.2	42.4	133.3	6.7	Retail Store
7/31/2013	Arizona	96077	80	59	37.3	117.7	5.9	Retail Store
7/31/2013	Arizona	67926	88	62.2	32.1	98.8	3	Retail Store
9/31/2013	Arizona	22701	29	53.8	75.3	208.4	10.1	Office
8/30/2013	Arizona	13511	54	53.9	54.8	149.2	7.3	Office
8/30/2013	Arizona	100229	42	78.3	87.4	240.8	12	Office
9/31/2013	Arizona	24275	13	60.8	95.6	300.3	13	Office

ALABAMA

Average ENERGY STAR Score: 49
Average GHG Score (kgCO2e/ft²): 6.4
Average Energy Usage Index ((kBtu/ft²): 72

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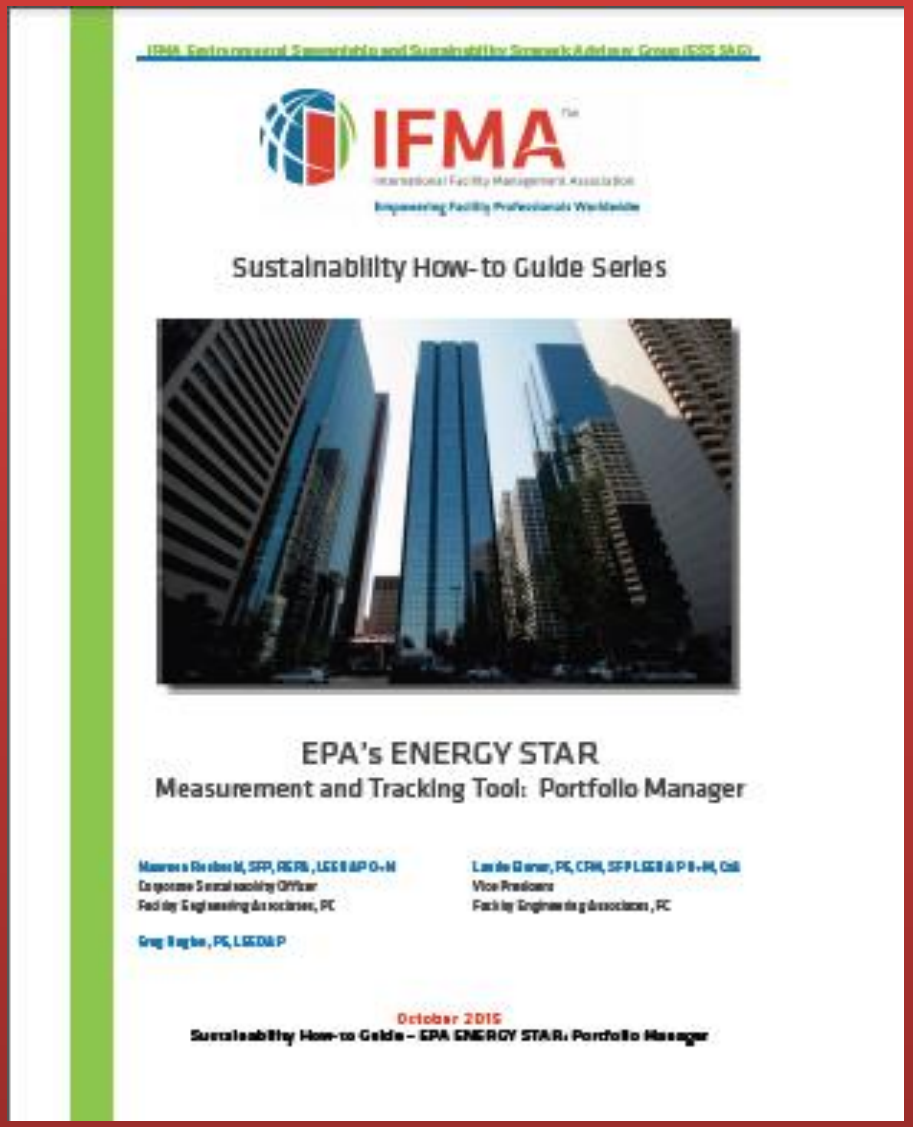
How-To Sustainability Guides

Eric Teicholz, John Ringness, Bill Conley



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How-to Guides

Updates Completed: Lighting, Green Rating Systems, ENERGY STAR

14 Updates Moved to Knowledge Library With Metadata: Green Rating Systems, Lighting, Getting Started, Low Cost/No Cost, Food Service, ENERGY STAR, Waste Stream Management, Landscaping, Water, Global Green Cleaning, U.S. Policy Analysis, Commissioning

Status of Guides:

1. Getting Started (in process of being updated for March – Chris Hodges)
2. Carbon Footprint (in process of being updated – Sharon Jaye)
3. *U.S. Government Policy Commissioning* (needs metadata, updating)
4. *Data Centers* (needs updating)
5. *Landscaping* (needs updating)
6. Water (being updated for May/June completion)
7. *Low Cost/No Cost Energy Savings* (needs updating)
8. Food Service (needs updating, potential for June by ARAMARK)
9. ENRGY STAR (done)

Italics = No update author found yet

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Outreach-

Webinars:

- ✓ Jan 21 Sustainable Procurement – 12-1 PM Central
- ✓ Feb 17 ENERGY STAR (Guide Webinar) – 11-11:30 Central
- ✓ Mar 8 Getting Started (Guide Webinar) – 12-12:30 Central – confirmed (178 registrants)!
- May 18 Measuring, Monitoring and Reporting – 12:00-12:30
- Jun: Waste Stream Management
- Jul: Resilience, Adaptability and Emissions

WWP

- + Focus group (what, when, who, format)
- + SAG meeting (all unconfirmed)
- + ESUS partner booths (CEP, SPLC, DoE)

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OUTREACH-2

eFMJ Articles

✓ Jan/Feb: Green Procurement (Jan/Feb 2016), Paris Climate Talks editorial
✓ Mar/Apr: IoT, resilience

Need authors/topics

May/Jun	DUE April 22 (theme: Back to Basics)
Jul/Aug	DUE June 17 (theme: Sustainability)
Sep/Oct	DUE Aug. 19 (theme: Leadership)
Nov/Dec	DJE Friday, Oct. 21 (theme: Strategic Planning)

Third Party Relationships

1. City Energy Project (CEP: http://www.cityenergyproject.org/) – in pilot
2. Clean Energy Ministerial's (CEM: : http://www.cleanenergyministerial.org) Global Lighting Initiative (GLC: : http://www.globallightingchallenge.org/). Status: Being promoted by IFMA + LEEP
3. CERES Business for Innovative Climate & Energy Policy Initiative (CERES BICEP: (Business for Innovative Climate & Energy Policy) http://www.ceres.org/bicep). Status: Being investigated with goal of development additional knowledge base as to the impact of emissions and the built environment as well as strategies to address this.
4. DoE

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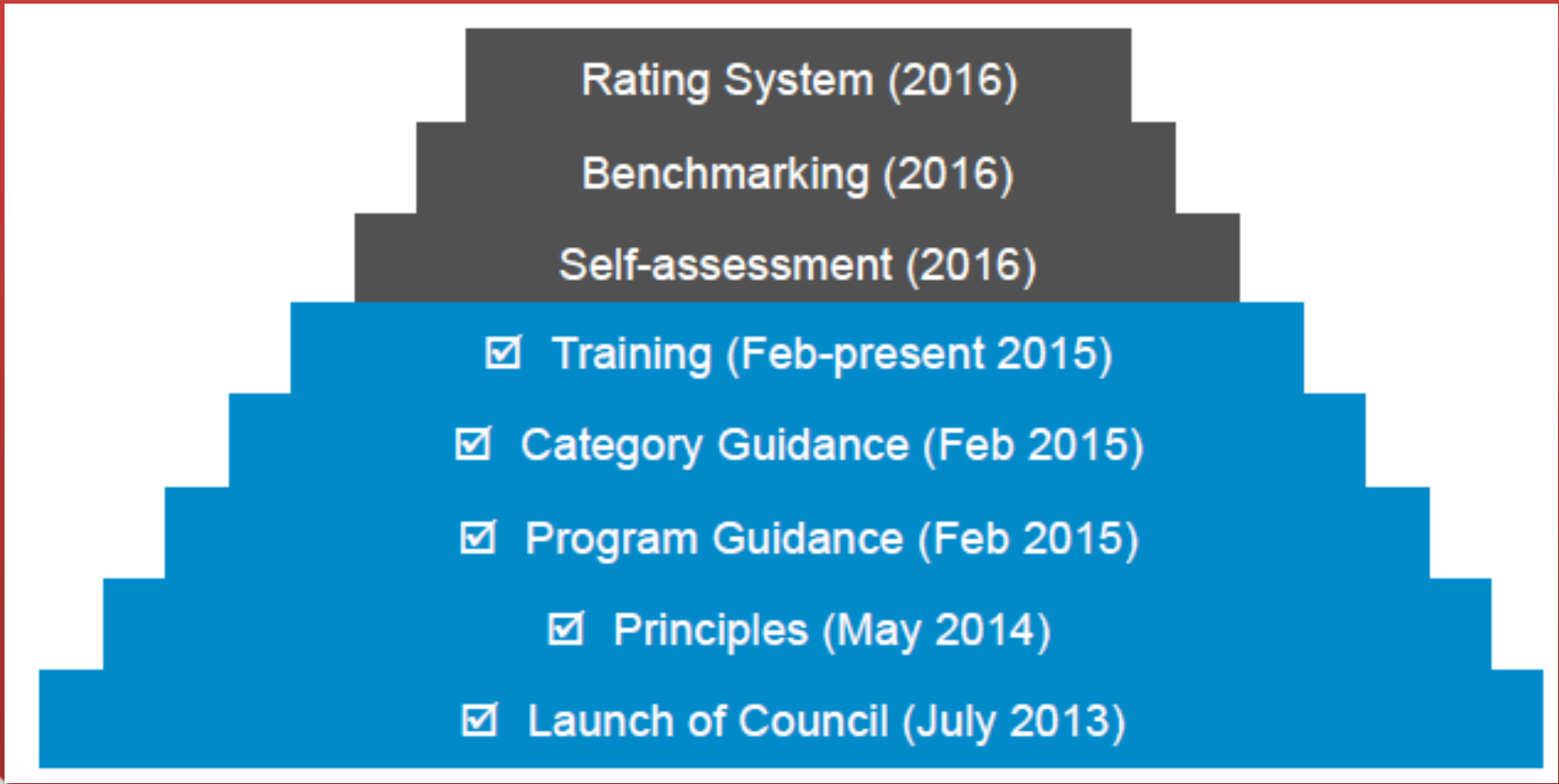
5. SPLC: task force: O'Neill, Schatz, Kertesz

https://www.sustainablepurchasing.org/about/

Offer: Basic membership, Mutual discounts (staff of 5), treated as an IFMA member, Strategic Advisory Committee set up IFMA council? ESUS has a task force..potential S. purchasing council?



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Interim Results of New Topic Survey –

- 4. Planning for extreme climate change/resilience
- **3.** Renewables
- **1.** Voice of the Tenant
- 5. Distributed/Agile Work, Co-working and on demand space
- **2.** Health and Wellbeing (people-focused sustainability impact metrics regarding productivity, innovation, creativity, and engagement impacts of built environments)
- **3.** Change Management (e.g. Occupant Engagement and Behavioral Change)
- 8. Benchmarking
- 7. Encouraging Policy Makers to Support Smart Building Technology
- 6. Material Transparency, Green Products and Greener Specs

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Knowledge of speakers/authors from ESUS?

4. Dept. of Energy

- "U.S. Department of Energy's Better Buildings Alliance, (https://www4.eere.energy.gov/alliance/node/9) which is an effort to promote energy efficiency in U.S. commercial buildings through collaboration with building owners, operators, managers and other aligned organizations. IFMA is an affiliate member of the Alliance
- Goals: 20% energy reduction by 2021, accelerate private sector investment, ENERGY STAR support
- Status: 2 discussions (one with JJ), sent content over (new topics). DoE agreed to promote (via social media/newsletter) our outreach programs, introduce us to their ES group, provide content for topics of interest to us. DoE interested in what are needs are (e.g., results of survey, making liaisons aware and potentially have IFMA participate in some of their programs **(e.g., EPA/DoE Tenant Star/Voice of the Tenant April webinar), May Alliance Conference).. ,**

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Upcoming Meetings

- Tuesday, May 24, 2016 at 12 PM CST

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Thank you for joining us today.

Questions? Comments?
Want to get more involved? Email us at
sustainability@ifma.org

Contact: Jaclyn Lee

Jaclyn.lee@ifma.org

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