WELCOME TO THE WEBINAR

IFMA California Chapters 2020 Sustainability Committee Program Proposal

Speakers:
Corey Lee Wilson
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UPCOMING EVENTS

Tuesday July 28th  
Mentoring Event: Skill and Challenges of Being a Mentor/ Mentee  
Location: ZOOM Meeting

Wednesday July 29th  
Chapter Meeting: Getting Back to Social and the Workplace and Lab Environments  
Location: ZOOM Webinar

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2020 Sustainability Program Focusing on Energy Use Reduction for the New Decade
California’s Ambitious ZNE Goals

All new commercial construction will be ZNE by 2030

50% of commercial buildings will be retrofit to ZNE by 2030

50% of new major renovations of state buildings will be ZNE by 2025.

AB 32 – The Global Warming Solutions Act

AB 758 – Comprehensive Energy Efficiency in Existing Buildings Law

AB 802 – Mandatory Energy Benchmarking & Disclosure

SB 350 – Clean Energy & Pollution Reduction Act

AB 2514 – Energy Storage Systems
5 Sustainable Energy Sources Provide Facilities With Their Electricity Needs

- Solar
- Hydro
- Nuclear
- Wind
- Geothermal
Electricity Prices in California Rose 5x More Than Rest of the USA Despite the Highest Use of Renewable Energy in USA

Electricity prices rose five times faster in Californians than rest of the USA and we pay 60% more, on average, for residential, commercial and industrial electricity.

Non-Renewable Energy Sources:
- Coal
- Natural Gas
- Other Fossil

Renewable Energy Sources:
- Solar
- Hydro
- Nuclear
- Wind
- Geothermal
Solar Power’s ‘Duck Curve’ and Time-of-Use Shift Affect Cost of Your Facility’s Electricity Bills

**Duck Curve**
- Solar production increases in the late morning hours
- Peaks around noon the tails off in the late afternoon
- Reduces demand for natural gas during the midday
- Solar power generation diminishes in the late afternoon hours
- Utilities face a spike in demand for power from natural gas.
- This is known in the energy industry as the ‘Duck Curve.’

**Time-of-Use Shift**
- California’s utilities have begun adjusting their TOU rate schedules to account for the duck curve.
- All 3 major California Independent System Operators (CAISO) shifted on-peak hours for its summer season to 4 pm-9 pm, from its previous schedule of 11 am-6 pm.
Developing a Sustainable Energy Buildings Plan (SEBP) is Adaptable for Different Industries

Integrated Facility Management (IFM) service requires:

- Genuine commitments & connections
- Interactivity and end user engagement
- Bringing sustainability to life
- Utilizing a programmatic approach
- Best practices and actionable initiatives
- Measurable outcomes less environmental impact
- Immediate results and long-term benefits
Integrated Facility Management (IFM) Best Practices

- Workplace - Green building ratings and standards
- Energy Efficiency & GHG Emissions Reductions
- Recycling/waste reduction strategy
- Resource conservation
- Supply Chain Management & Partnership
- Experience, Education and Awareness
Energy Optimization Projects in the California Community Colleges

- LED Lighting Hardware and Controls Upgrade
  - 2,700 troffer fixtures installed in 9 buildings
  - New wireless control system installed
  - Saved $35,000/ year and over 250,000 kWh/year
  - Dramatic improvement in light quality and occupant comfort
  - Drastic reduction in M&O needs
Energy Optimization Projects in the California Community Colleges

- APMD’S (Advanced Plug load management devices)
  - Installed 556 APMD’s throughout district controlling vending machines, printers, projectors and small appliances
  - Over $2,000 saved in 2020 saved so far from enhanced scheduling
  - Immense value as an asset management tool
Energy Optimization Projects in the California Community Colleges

• Fume Hood Occ Sensor Installation
• Face velocity setbacks reduce unnecessary ventilation
  – Monetary Savings: $50,967/year
  – kW Savings: 3.2 kW/year
  – Saving to Investment Ratio: 95.44
The 4 Program Modules:

1 - Planning and Project Management for Energy Savings
2 - Energy Sustainability for Real Estate, Property Management & Space Occupancy
3 - FM Leadership & Innovation for Sustainable Energy Buildings
4 - The Future of Sustainable Energy & Buildings for the Next Decade
IFMA’s California Chapters

IFMA’s chapters should lead by example with new energy savings technology, ensure conservation, and improve best practices consistent with zero net energy (ZNE) goals.

- California Central Coast
- Central Valley (inactive)
- East Bay
- Inland Empire
- Los Angeles
- Orange County
- Redwood Empire
- Sacramento Valley
- San Diego
- San Fernando Valley
- San Francisco
- Silicon Valley
QUESTIONS?
Please type into the Q&A box!

Thank you!

**A recording of this webinar will be available on www.ifmasv.org shortly**