OSHPD Office of Statewide Health Planning and Development

Hospital Building Safety Board 2020 West El Camino Avenue, Suite 800 Sacramento, CA 95833 (916) 440-8453 (916) 324-9188 Fax www.oshpd.ca.gov/Boards/HBSB/index.html



AMENDED

*** SPECIAL NOTICE ***

Because of the COVID-19 emergency, this meeting will only be held by teleconference. Committee members and members of the public may fully participate from their own locations.

NOTICE OF PUBLIC MEETING

HOSPITAL BUILDING SAFETY BOARD Energy Conservation and Management Committee

Date:

Thursday, January 21, 2021 9:00 a.m. – 3:00 p.m.

Teleconference Meeting Access:

HBSB GoToMeeting ECM Committee Access Code: 605-756-949

For more detailed instructions on how to join via GoToMeeting, see page 3.

Committee Members:

Roy Lopez, Chair; Scott Jackson, Vice-Chair; David Bliss; Deepak Dandekar; Michael Foulkes; John Griffiths*; Eric Johnson*; David Khorram; Michele Lampshire; David Lockhart*; Bruce Rainey

OSHPD Staff: Bill Gow; Dave Mason; Diana Scaturro; Carl Scheuerman; Jamie Schnick; Richard Tannahill; Nanci Timmins

OSHPD Director: Elizabeth Landsberg

FDD Deputy Director: Paul Coleman

Executive Director: Ken Yu

*Consulting Member

<u>AGENDA</u>

1. Welcome and Introductions

Facilitator: Roy Lopez, Committee Chair (or designee)

2. California Energy Commission (CEC) collaboration with OSHPD on energy standards for healthcare facilities

Facilitators: Richard Tannahill and Ryan Nelson, OSHPD; Haile Bucaneg, CEC (or designees)

- Proposed code modification affecting healthcare
- Discussion and public input

3. Microgrid White Paper Final Draft

Facilitators: Louise Belair, Committee Member; John Griffiths, Committee Consulting Member (or designees)

- Review of the Microgrid White Paper final draft
- Seek Committee input
- Next steps
- Discussion and public input

4. Presentation suggestions for 2021

Facilitator: Roy Lopez, Committee Chair (or designee)

- Review Committee Goals for 2021
- Possible presentations for future Committee meetings
- Discussion and public input
- 5. Comments from the Public/Committee Members on issues not on this agenda Facilitator: Roy Lopez, Committee Chair (or designee)

The Committee will receive comments from the Public/Committee Members. Matters raised at this time may be taken under consideration for placement on a subsequent agenda.

The Committee may take action under any agenda item. Every effort will be made to address each agenda item as listed. However, the agenda order is tentative and subject to change without prior notice. A 30 to 60-minute lunch may be taken some time during the day. This agenda and other notices about meetings are posted on the Internet at https://oshpd.ca.gov/public-meetings/hbsb/.

Individuals with disabilities may request an accommodation or modification to observe or participate in the meeting by contacting Evett Torres at (916) 440-8453, at <u>evett.torres@oshpd.ca.gov</u> or sending a written request to HBSB Staff at 2020

West El Camino Avenue, Suite 800, Sacramento, CA 95833. Providing your request at least five (5) business days before the meeting will help ensure availability of the requested accommodation.

Tentative schedule of future Energy Conservation and Management Committee meetings:

- June 10, 2021
- October 7, 2021

GoToMeeting Instructions

For best results, please use Google Chrome or Mozilla Firefox browser to join meeting.

- Run a system check a few minutes before the meeting starts:
 Click: https://support.goto.com/meeting/system-check
 - o Click. <u>https://support.goto.com/meeting/system-check</u>
- To join the meeting from your computer, tablet or smartphone:
 - Click: <u>https://www.gotomeet.me/FDDWebinar/hbsb-ecm-committee-meeting-january-2021</u>
- To use your phone (instead of your computer's microphone and speakers):
 - Dial: +1 (872) 240-3212 (United States)
 - Enter Access Code: 605-756-949 #
- If you have trouble being automatically launched into session:
 - o Click: <u>https://www.gotomeeting.com/meeting/join-meeting</u>
 - o Enter Access Code: 605-756-949

2. California Energy Commission (CEC) collaboration with OSHPD on energy standards for healthcare facilities

Facilitators: Richard Tannahill and Ryan Nelson, OSHPD; Haile Bucaneg, CEC (or designees)

- Proposed code modification affecting healthcare
- Discussion and public input



Summary of 2022 Energy Code Updates

January 21, 2021 HBSB Energy Conservation and Management Committee Meeting

Haile Bucaneg



2022 Standards Process

DATE	MILESTONES
August 2019 to October 2020	CASE reports submitted to the CEC
August 2019 to October 2020	Stakeholder meeting/workshop & final staff workshop
February 2021	45-day language hearings
July 2021	Adoption of 2022 standards at a Business Meeting
July 2021 to November 2021	Staff wok on software, compliance manuals, electronic documents available to industry
December 2021	Approval of the manuals
January 2022	Software, compliance manuals, electronic documents available to industry
January 1, 2023	Effective date



- Updates to requirements that already apply to healthcare facilities.
- New requirements for healthcare facilities.
- Updates to requirements that do not apply to healthcare facilities.

*Note that updates discussed today are not final and there may be changes between now and what is released in 45-day draft language.



SECTION 110.2 – MADATORY REQUIREMENTS FOR SPACE-CONDITIONING EQUIPMENT

• Minimum Efficiency Requirements in Table 110.2-A through Table 110.2-K.

SECTION 110.12 – MANDATORY REQUIREMENTS FOR DEMAND MANAGEMENT

- Healthcare facilities are not required to meet Section 110.12.
- Minor cleanup language to demand responsive controls in Section 110.12(a).
- Revision to demand responsive lighting requirement thresholds in Section 110.12(c) based on general lighting.

Subchapter 3: Sections 120

SECTION 120.1 – REQUIREMENTS FOR VENTILATION AND INDOOR AIR QUALITY

- Healthcare facilities must be ventilated in accordance with Chapter 4 of the California Mechanical Code per Section 120.1(a)1.
- Revisions to mechanical ventilation requirements in Section 120.1(c)3 were revised for clarity.
- Associated Table 120.1-A was also revised to remove column for Demand Control Ventilation minimum airflow rate.

Subchapter 3: Sections 120

SECTION 120.6 – MANDATORY REQUIREMENTS FOR COVERED PROCESSES

- Refrigerated warehouse requirements for transcritical refrigeration systems and automatic door closers added into Section 120.6(a).
- Commercial refrigeration requirements for transcritical refrigeration systems added into Section 120.6(b).
- Healthcare facility exception in Section 120.6(e) revised for clarity.
- Requirements for compressed air system monitoring, leak testing, and pipe sizing added into Section 120.6(e).
- Requirements for lighting and space conditioning for controlled environmental horticulture was added into Section 120.6(h).

Subchapter 3: Sections 120

SECTION 120.6 – MANDATORY REQUIREMENTS FOR COVERED PROCESSES (cont'd)

- Steam trap monitoring and installation requirements added into Section 120.6(i).
- Computer room space conditioning system requirements for reheat, humidification and fan control added into Section 120.6(j).

SECTION 120.10 – MANDATORY REQUIREMENTS FOR FANS

Fan or fan array fan energy index (FEI) requirements added into Section 120.10(a).

Subchapter 4: Sections 130

SECTION 130.1 – MANDATORY INDOOR LIGHTING CONTROLS

- Revisions to sidelit and secondary sidelit zones requirements made to Section 130.1(d).
- Requirements regarding interaction between automatic daylighting controls and occupant sensing controls added into Section 130.2(f).

Subchapter 5: Sections 140

SECTION 140.3 – PRESCRIPTIVE REQUIREMENTS FOR BUILDING ENVELOPES

- Update to building envelope requirements in Table 140.3-B and 140.3-D.
- Updates to minimum aged solar reflectance, minimum thermal emittance, and minimum solar reflectance index in Section 140.3(a)1Aib.
- Revisions to Relative Solar Heat Gain Coefficient calculations in equation 140.3-A.

Subchapter 5: Sections 140

SECTION 140.4 – PRESCRIPTIVE REQUIREMENTS FOR SPACE CONDITIONING SYSTEMS

- Revise fan power limitation to fan power budget in Section 140.4(c)1.
- Removal of exception for healthcare facilities to fractional HVAC motors for fans requirement in Section 140.4(c)3.
- Revisions to economizer requirements to increase the equipment applicable were added into Section 140.4(e).
- Dedicated outdoor air system requirements added into Section 140.4(p)
- Exhaust air heat recovery requirements added into Section 140.4(q).



SECTION 140.6 – PRESCRIPTIVE REQUIREMENTS FOR INDOOR LIGHTING

 Clarification language for power adjustment factors included in 140.6(a).

SECTION 140.7 – PRESCRIPTIVE REQUIREMENTS FOR OUTDOOR LIGHTING

• Updates to hardscape lighting zones and allowances in Table 140.7-A.

Subchapter 5: Sections 140

SECTION 140.9 – PRESCRIPTIVE REQUIREMENTS FOR COVERED PROCESSES

- Removal of exception language for healthcare facilities to computer room economizer requirements in Section 140.9(a).
- Requirement for air economizers, water economizer and refrigerant economizers serving computer room in Section 140.9(a).
- Efficiency requirements for alternating current-output uninterruptible power supplies in Section 140.9(a).

Subchapter 5: Sections 140

SECTION 140.10 – PRESCRIPTIVE REQUIREMENTS FOR PHOTOVOLTAIC AND BATTERY STORAGE SYSTEMS

- Requirements for minimum photovoltaic system capacities added into Section 140.10(a).
- Requirements for battery system energy capacity and power capacity added into Section 140.10(b).

Subchapter 6: Sections 141

SECTION 141.1 – REQUIREMENTS FOR COVERED PROCESSES IN ADDITIONS, ALTERATIONS TO EXISITNG NONRESIDENTIAL, AND HOTEL/MOTEL BUILDINGS

- Computer room equipment requirements for economizers added into Section 141.1(b).
- Controlled environment horticulture spaces requirements added into Section 141.1(c).



SECTION 150.0 – MANDATORY FEATURES AND DEVICES

• Additions and updates to various equipment requirements.

SECTION 150.1 – PERFORMANCE AND PRESCRIPTIVE COMPLIANCE APPROACHES FOR LOW-RISE RESIDENTIAL BUILDINGS

• Variable capacity heat pump compliance option added.

SECTION 150.2 – ENERGY EFFICIENCY STANDARDS FOR ADDITIONS AND ALTERATIONS TO EXISTING LOW-RISE RESIDENTIAL BUILDINGS

Updates to envelope requirements.

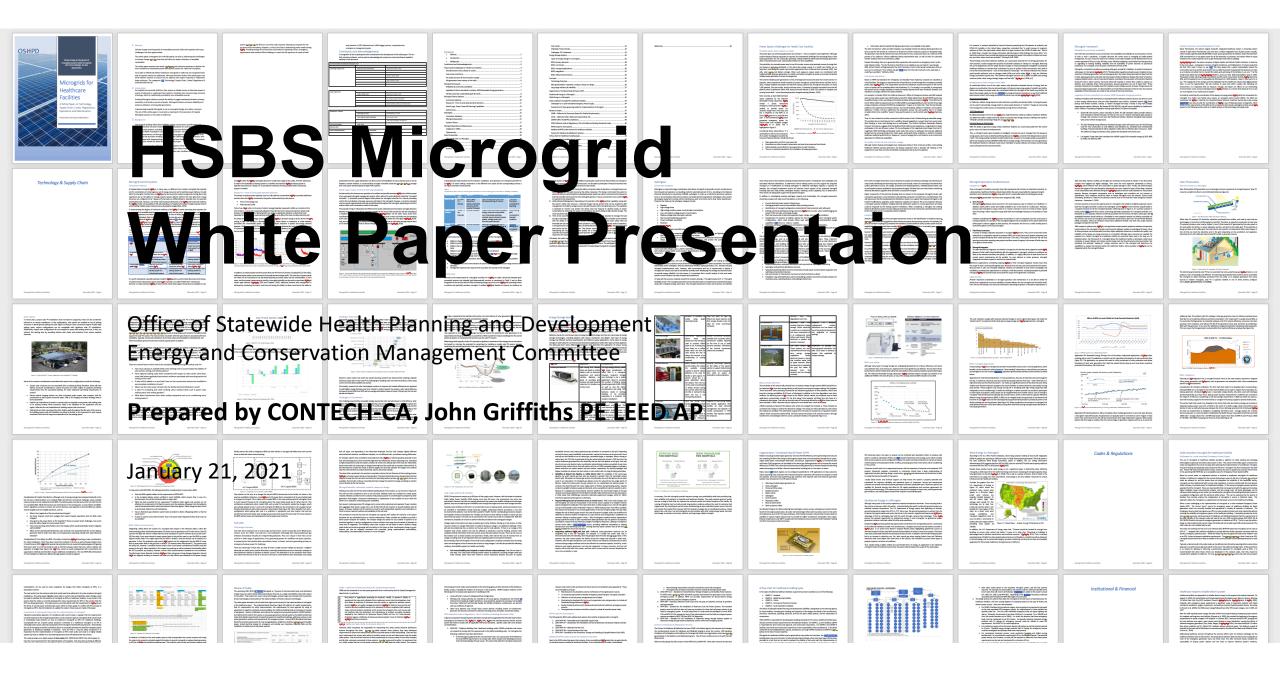


- Haile Bucaneg
- Haile.Bucaneg@energy.ca.gov
- 916-903-4685
- California Energy Commission

3. Microgrid White Paper Final Draft

Facilitators: Louise Belair, Committee Member; John Griffiths, Committee Consulting Member (or designees)

- Review of the Microgrid White Paper final draft
- Seek Committee input
- Next steps
- Discussion and public input





What Have we Been Doing Since the Last Meeting?

Milestone	Date	Objective
Charrette:	September 23	Rapid Exchange of Ideas and Develop Work Groups
Champions meetings:	Biweekly	Progress check-ins
HBSB ECM Committee Meeting:	October 1	Presented summary of charrette, gained input on categories and review next steps
Champions meetings:	Biweekly	Progress check-ins
HBSB Full Board Meeting:	December 10	White Paper Board Update
HBSB ECM Committee Meeting	January 21st	Whitepaper approval
Implement Whitepaper Recommendations		

Raymond De Callafon, UCSD

well as cost justifica learned, especially r existing regulations. news/webinar-redwo sep-2020/

Categories	Working Group Champions		PD	
		Working Group		sep-2020/
Technology/ Supply Chain	Ryan De La Cruz, Ecom-Energy	David Smith, Bloom Energy		
	Raymond De Callafon, UCSD	Fabian Kremkus, CO Architects	7	To: Everyone -
		Jeff Hankin, Stantec	ker View 🛟 Exit Full Screen	Type message here.
		Justin R. Carron, Eaton		
		Mike Voll, Stantec		
		Nanci Timmins, OSHPD		le
		Paul Newman, Caterpillar Microgrids		
		Robert W. Vandling, Dignity Health		
				Contraction of the local division of the loc
Codes/ Regulations	Jamie Schnick, OSHPD	Anna Levitt, UCSF		
	Chad E. Beebe, ASHE	David Smith, Bloom Energy	1.15	
		Giovanni Cayetano, tk1sc		
		Jun Timbang, Kaiser Permanente	10 A	And the second sec
		Nanci Timmins, OSHPD		
		Robyn Rothman, Health Care Without Harm		all and and a
		Shant Der-Torossian, ARUP		All and a second se
				No. of Concession, name
Institutional + Financial	Charles M. Clay, Sutter Health	Colleen McCormick, UCD	1/2	The second se
	Kevin Long, UC Davis	Joe Brothman, UC Irvine		STATE AND ADDRESS OF
	Seth J. Baruch, Kaiser Permanente	Justin Carron, Eaton	100 C	11. 12. 199
		Rosa Vivian Fernandez, San Benito HF		particular second
OSHPD HBSB Support	Evett Torres			-
Assistant Editor	Aditya Mishra, UCSD		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
HBSB Consulting Members	Dave Lockhart, Kaiser Permanente			
	John Griffiths, CONTECH-CA			P-4
			Vi	
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Anna Levitz, UCSF (she/her

Stake Holder Representation

Technology/Supply Chain

- Bloom Energy
- Caterpillar Microgrid
- CO Architects
- Dignity Health
- Ecom-Energy
- Eaton
- OSHPD
- UC San Diego
- Stantec

Codes/Regulations

ARUP Energy

ASHE

- Bloom Energy
- Kaiser Permanente
- OSHPD

tk1sc

 UC San Francisco Health Institutional + Financial

Eaton

- Kaiser Permanente
- San Benito Health
 Foundation
- Sutter Health
- UC Davis
- UC Irvine

What Else Has Happened Since the Last Meeting?



Hospitals across <u>California</u> are reaching a breaking point amid a shortage of ICU beds and healthcare workers, as the state faces its worst surge in Covid

La Niña years are marked by less precipitation and warmer temperatures. (Photo/iStock)

Angeles Times)

White Paper – Chapters /Content



Climate change and the growth of renewables presents California hospitals with many challenges, but also opportunities

Microgrids for Healthcare Facilities

A White Paper on Technology, Supply Chain, Codes, Regulations, Operations and Maintenance

By the Hospital Building Safety Board – Energy Conservation and Management Committee

Presented to OSHPD

Draft 1 January 13, 2021

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Microgrids for Healthcare Facilities

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Power System Challenges for Health Care Facilities

- Stranded assets versus always-on assets
- Fuel access restrictions
- Air quality concerns & short-duration outage
- Advantage of Always On System

Technology & Supply Chain

- Microgrid Control Systems
- Switchgear
- Microgrid Operations & Maintenance
- Solar Photovoltaic
- Energy Storage Systems
- Fuel cells
- Cogeneration / Combined Heat & Power (CHP)
- Geothermal Energy in a Microgrid
- Wind Energy in a Microgrid

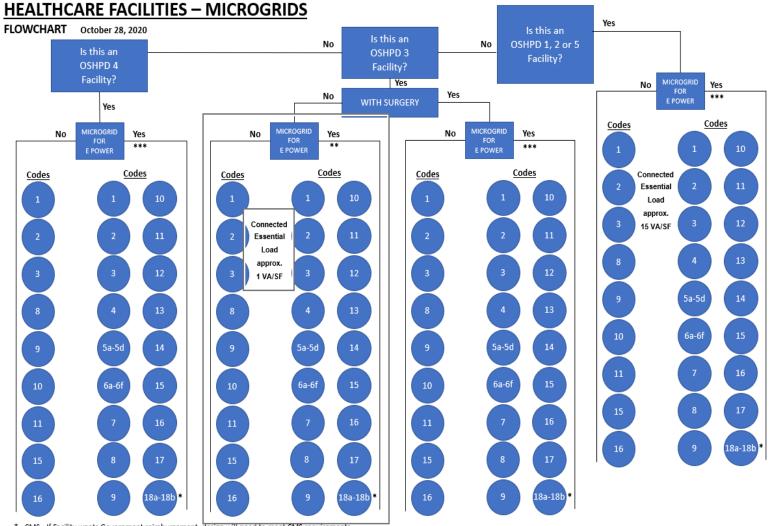
Codes and Regulations

- Evolving Codes
- Microgrid Implementation Flow Chart
- Microgrids for Hospitals

Applicable Codes Matrix

Microgrid White Paper Codes/Regulations - Applicable Codes Matrix	Microgrid Power Source					
	Calas (D) (la)	Marine al	Fuel Celle			LIDC
	Solar (PV'S)	wind	FuerCells	cogen	Energy Storage	UPS
• •						
						no
••						no
	Only if in OSH	PD building	g and/or serving	as alternate so	urce	
	· .					x
					x	x
	x				x	
			x			
2019 CEC - Californial Electrical Code						
517 Healthcare Facilities	Only if in OSH	PD buildin	g and/or serving	as alternate so	urce	
690 PV Systems	x				x	
692 Fuel Cell Systems			x		x	
694 Wind Electric Systems		x			x	
700 Emergency power					x	x
705 Interconnected Electric Power Production Sources	x	x	x	x	x	
2018 NFPA 30 - Flammable and Combustible Liquids Code			x	x		
2015 NFPA 37 - Stationary Combustion Engines and Gas Turbines			x	x		
2015 NFPA 54 - National Fuel Gas Code			x	x		
2017 NFPA 58 - Liquid Petroleum Gas Code			x	x		
2016 NFPA 59A - Production/Storage/Handling of Liquified Natural Gas LN	G		x	x		
2018 NFPA 99 - Healthcare Facilities Code	x	x	x	x	x	
2016 NFPA 110 - Emergency and Standby Power	x	x	x	x	x	
	/stems				x	
2016 NFPA 400 - Hazardous Materials Code			x	x	x	
			x			
· ·	ms	_			x	
	x	x	x	x		
• •						
	Codes/Requirements CARB - California Air Resources Board - Air Quality Requirements CPUC - California Public Utility Comission (Rule 21) OSHPD CAN 2-0 Local Approval 2019 CBC - California Building Code 2019 CFC - California Fire Code 1206 Electrical Energy Storage Systems 1206.2 Stationary Storage Battery Systems 1205 Fuel Cell (NFPA 53 addopted by reference) 2019 CEC - Californial Electrical Code 517 Healthcare Facilities 690 PV Systems 692 Fuel Cell Systems 692 Fuel Cell Systems 693 Wind Electric Systems 700 Emergency power 705 Interconnected Electric Power Production Sources 2015 NFPA 30 - Flammable and Combustible Liquids Code 2017 NFPA 54 - National Fuel Gas Code 2017 NFPA 58 - Liquid Petroleum Gas Code 2016 NFPA 39 - Production/Storage/Handling of Liquified Natural Gas LN 2018 NFPA 99 - Healthcare Facilities Code 2016 NFPA 110 - Emergency and Standby Power 2016 NFPA 400 - Hazardous Materials Code 2016 NFPA 400 - Hazardous Materials Code	Solar (PV's) Codes/Requirements CARB - California Air Resources Board - Air Quality Requirements CPUC - California Public Utility Comission (Rule 21) maybe OSHPD CAN 2-0 Local Approval 2019 CBC - California Public Utility Comission (Rule 21) x 2019 CBC - California Building Code 2019 CFC - California Fire Code 1206 Electrical Energy Storage Systems 1206.2 Stationary Storage Battery Systems 1204 Photo Voltaics x 2019 CEC - California Electrical Code 517 Healthcare Facilities 694 Vind Electric Systems 692 Fuel Cell Systems 694 Wind Electric Systems 700 Emergency power 705 Interconnected Electric Power Production Sources x 2015 NFPA 37 - Stationary Combustion Engines and Gas Turbines 2015 NFPA 59A - Production/Storage/Handling of Liquified Natural Gas LNG 2015 NFPA 59A - Production/Storage/Handling of Liquified Natural Gas LNG 2015 NFPA 59A - Production/Storage/Handling of Liquified Natural Gas LNG 2016 N	Solar (PV's)WindCodes/RequirementsSolar (PV's)CARB - California Air Resources Board - Air Quality RequirementsCCPUC - California Public Utility Comission (Rule 21)maybeOSHPD CAN 2-0 Local Approvalxx2019 CBC - California Fue CodeOnly if in OSHPD building2019 CC - California Fire CodeImage: Code Code Code Code Code Code Code Code	Solar (PV's) Wind Fuel Cells Codes/Requirements	Solar (PV's) Wind Fuel Cells Cogen Codes/Requirements x x CARB - California Air Resources Board - Air Quality Requirements maybe x x CPUC - California Aur Resources Board - Air Quality Requirements maybe x x OSHPD CAN 2-0 Local Approval x x x x OSHPD CAN 2-0 Local Approval x x x x 2019 CBC - California Fire Code Only if in OSHPD building and/or serving as alternate so 2019 CFC - California Storage Battery Systems	Solar (PV's) Wind Fuel Cells Cogen Energy Storage Codes/Requirements x x x CARB - California Air Resources Board - Air Quality Requirements x x x CPUC - California Public Utility Comission (Rule 21) maybe maybe x x OSHPD CAN 2-0 Local Approval x x x maybe x x maybe 2019 CBC - California Building Code Only if in OSHPD building and/or serving as alternate source 2019 CBC - California Brier Code x x x x x x 1206 Electrical Energy Storage Systems x x x x 1206 Electrical Energy Storage Systems x x x 1205 Electrical Energy Storage Systems x x x 1206 Electrical Energy Storage Systems x x x 1205 Electrical Energy Storage Systems x x x x 1205 Electrical Energy Storage Systems x x x 1205 Ele

Microgrid Implementation Flow Chart



* CMS - If Facility wants Government reimbursement, design will need to meet CMS requirements.

** Code Mandated Emergency Loads limited to Lighting and Alarms for 90 minutes (batteries could be utilized).

*** Code Mandated Emergency Loads include HVAC Motors/Lighting/Alarms for 72 Hours (typically batteries are not sufficient).

Permitting of Microgrids is Achievable for OSHPD Facilities

- Dozens of projects are installed with Microgrid as alternate source of power for Normal Power in CA
- MOB's & SNF's could implement microgrids now to eliminate emergency generators

Microgrids for Hospitals

- <u>Normal Power back-up</u> Just need to comply with local ordinances and design so failure of system cannot affect the Hospital electrical system.
- <u>Essential Power</u> Will need to meet Seismic requirements, equipment and controls listed for emergency power, 72 hrs of on-site fuel storage
- ** CMS currently requires generators for Emergency Power Source (EPS)

Path forward for Microgrids as EPS's

- Continued evolution of codes
- Vendors to get Special Seismic Certifications
- 72/96 hrs of on-site fuel storage
- UL listing of microgrid controllers for EPS
- Encourage CMS to allow products other then generators for EPS

** Use of Microgrids as EPS should be at least as reliable as current standard (Diesel Generators)

Institutional & Financing Microgrids for Healthcare Facilities

- Healthcare Requires Reliable Electric Power
- Public Safety Power Shut Off
- Financing Microgrids for Healthcare Facilities
- Corporate Sustainability Goals and Trends.
- The Value of Resiliency

Summary & Next Steps

- Whitepaper Review
- Questions & Discussion
- Committee Vote & Next Steps

Questions?

John Griffiths PE LEED AP 415 652 4833

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4. Presentation suggestions for 2021

Facilitators: Roy Lopez, Committee Chair (or designee)

- Review <u>Committee Goals for 2021</u>
- Possible presentations for future Committee meetings
- Discussion and public input

ENERGY CONSERVATION AND MANAGEMENT COMMITTEE			
Committee Members:	OSHPD Representatives:		
Roy Lopez, Chair	Bill Gow		
Scott Jackson, Vice-Chair	Dave Mason		
Louise Belair	Diana Scaturro		
David Bliss	Carl Scheuerman		
Deepak Dandekar	Jamie Schnick		
Michael Foulkes	Richard Tannahill		
David Khorram	Nanci Timmins		
Michele Lampshire			
Bruce Rainey			
Consulting Members:	Meeting Dates:		
John Griffiths	January 21		
Eric Johnson	June 10		
David Lockhart	October 7		

ENERGY CONSERVATION AND MANAGEMENT COMMITTEE

Focus/Goals:

- Work with CEC to develop mutually agreeable standards for hospital building energy efficiency in 2022 code cycle
- Identify OSHPD research projects for energy conservation, reduction of carbon footprint, and cost savings while maintaining health and safety
- Conclusion: Develop recommendations for the next code cycle modification for OSHPD to address microgrids, distributed energy resources, and interconnection to normal power versus emergency power

5. Comments from the Public/Committee Members on issues not on this agenda

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