



*Optimizing health care facilities*

# Q2 ASHE Sustainability and Advocacy Liaison Webinar

9 June 2021

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a professional membership group of the American Hospital Association  
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# Agenda

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1. NFPA Update
2. Just Ask ASHE - Sustainability
3. FGI Update
4. Sustainability Guide Monograph
5. ASHRAE Update
6. Sustainability Data
7. ICC Update
8. Project Firstline
9. 2021 Webinar Dates
10. Upcoming Events

# Liaison Slide Deck

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This slide deck will be shared in the myASHE Liaison Community. The slide deck is intended to be used by the liaisons only to assist in sharing information with chapters. The slide deck is not to be shared with others. By downloading the presentation slides, you agree to use it for sharing information purposes only.

# NFPA Update

# NFPA 99 HCFC and 101 LSC

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- 2021 Editions available
- 2024 Edition Public Comment
  - Public Input Closed Date: 1 June 2021
  - First Draft Report Posting Date 22 March 2022
- If you have questions/concerns with language submit RFI to HITF
  - <https://www.nfpa.org/Codes-and-Standards/Standards-development-process/Technical-Committees/Advisory-and-Non-NFPA-Committees/Healthcare-Interpretations-Task-Force#INTERPRETATIONS>

# NFPA 2021 Virtual Technical Meeting

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- June 14<sup>th</sup> – July 2<sup>nd</sup>
- Certified Amending Motions
  - 72-6 – Oppose
  - 72-7 – Oppose
  - 80-15 – Oppose
  - 1225-14 – Oppose
- **Access CAMs** – [https://www.nfpa.org/-/media/Files/Codes-and-standards/atm\\_nitmam/Annual-2021/2021\\_Motions\\_Committee\\_Report\\_Agenda.ashx](https://www.nfpa.org/-/media/Files/Codes-and-standards/atm_nitmam/Annual-2021/2021_Motions_Committee_Report_Agenda.ashx)
- **Register to Vote** - <https://catalog.nfpa.org/2021-Conference-Expo-Electronic-Tech-Session-P21198.aspx>



# NFPA 101 LSC Public Inputs

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- 7.2.1.5.7
  - Activation of re-entry from stairs by manual fire alarm boxes that activate the building fire alarm system exempted
- 18.2.2.2.5.2, 18.2.5.7.2.1 (B), 18.2.5.7.2.3 (C) & 18.2.5.7.3.2 (B)
- 19.2.2.2.5.2, 19.2.5.7.2, 19.2.5.7.3.2
  - Clarification that smoke detection above lay-in ceilings not required
- 18/19.7.9.1 & 18/19.7.9.2
  - Adds a reference to NFPA 241, Standard for Safeguarding Construction, Alteration, and Demolition Operations

# NFPA 101 LSC Public Inputs

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- 7.2.1.6.1.1
  - Modify delayed egress locking requirements with similar to the exit discharge approach
- 18/19.2.2.2.5
  - Provide requirements for infant abduction and elopement system locking
- 18/19.2.2.2.5.2
  - Clarify sprinkler requirements for patient special needs
- 18.3.7.1
  - Correcting reference to smoke barriers

# NFPA 101 LSC Public Inputs

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- 18.3.7.2
  - Allow horizontal exit to terminate at 2-hour fire barrier
- 18/19.7.9.1 & 18/19.7.9.2
  - Reference NFPA 241
- 20/21.3.7.1
  - Removes reference to tenant separation
- 43.7.1.2
  - Clarifies sprinkler requirement for renovations

# NFPA 101 LSC Public Inputs

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- A.18/19.2.2.2.5.2 (3)
  - Correlate appendix language with proposed change
- A.19.2.2.2.10
  - Deletion - Health care is exempt from the requirement this appendix language references

# NFPA 99 HCFC Public Inputs

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- Sections 9.3 & 9.4
  - Rename Section 9.3 from General to Design
  - Change Section 9.4 from Reserved to Operations of HVAC Systems
  - Category 1 & 2 Systems versus Category 3 & 4 Systems
    - 1 & 2 based on minimum requirements, manufacturer's requirements or AEM
    - 3 & 4 based on facility policy and procedure

# Just Ask ASHE

# Just Ask ASHE - Sustainability

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## Panelists:

- Lindsey Brackett, *CEO and Founder Legacy FM, ASHE Sustainability Task for Chair*
- Andy Woommavovah, *CHFM, System Director, Energy and Infrastructure, CommonSpirit Health*
- Michael Sheerin, PE, LEED AP, *CEO TLC Engineering Solutions, ASHRAE/ASHE 170 Chair*
- Dave Lockhart, *CHFM, CEM, FASHE, Support Services Administrator, Roseville Medical Center, Kaiser Permanente*



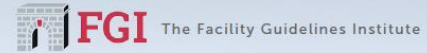
# FGI Update

# FGI Emergency Conditions Document

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Goals of effort is 2 fold

- Advisory document to provide design and operational guidance
  - Regulatory document with fundamental design requirements for facilities at risk from emergency conditions
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- Public input closes on June 30, 2021



Guidance for  
Designing Health and  
Residential Care Facilities  
that Respond and Adapt to  
Emergency Conditions

**FGI EMERGENCY CONDITIONS COMMITTEE**



March 2021

# FGI Emergency Conditions Document

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## Chapters

- 1 – Risk Assessment
- 2 – Surge Capacity Considerations
- 3 – Alternate Care Sites
- 4 – Resiliency
- 5 – Renovation and Future Facility Design
- 6 – Small and/or Rural HC Facilities
- 7 – Emergency Preparedness in Residential Settings
- Appendices
- **Draft Guidelines for Emergency Conditions in Health and Residential Care Facilities**



Guidance for  
Designing Health and  
Residential Care Facilities  
that Respond and Adapt to  
Emergency Conditions

**FGI EMERGENCY CONDITIONS COMMITTEE**



March 2021

# Sustainability Guide Monograph

# NEW! Sustainability Guide Monograph

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Coming Soon! July, 2021

## *THE PATH TO SUSTAINABILITY*

- 
- Establish a Green Team
  - Create an Energy Management Plan
  - Complete a GHG Emissions Inventory and Set Targets
  - Execute Efficiency Measures
  - Address Other Aspects of Sustainability
  - Develop an M&V Protocol
  - Create an O&M Plan

# ASHRAE Update

# ASHRAE/ASHE 170

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- ASHRAE/ASHE 170 Ventilation for HC Facilities
  - 2021 Edition Available via ASHE or ASHRAE
- Addendum c
  - Filter changes to align 170 requirements with FGI requirements for residential health care facilities (Table 9-1) Closes 4 July 2021
- Operational Guide
  - Looking for volunteers to assist in writing this guide

# ASHRAE 90.1

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- Public Review due by 20 June
  - ASHRAE 90.1 Addendum ae – Minimum efficiency requirements for low-voltage dry-type transformers
  - ASHRAE 90.1 Addendum ah - Minimum thermal efficiency (Et) requirements for high-capacity gas-fired water heaters in new buildings

# ASHRAE 90.1

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- Public Review due by 5 July
  - ASHRAE 90.1 Addendum ad – Structural reorganization of Chapter 9
  - ASHRAE 90.1 2<sup>nd</sup> Public Review Addendum x - Makes some changes to the Kadj for centrifugal chillers and to expand the requirements for compliance for chillers with freeze project fluids/liquids
  - ASHRAE 90.1 2<sup>nd</sup> Public Review Addendum y - Updated references to the new AHRI 550/590 (I-P)-2020 and AHRI551/591(SI)-2020 standards
  - ASHRAE 90.1 Addendum ai - Modifies Appendix A to provide greater detail and clarity to the insulation requirements

# ASHRAE Public Review

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- Watch for notices within



## CODES & STANDARDS

### Health care ventilation standard open for public comment

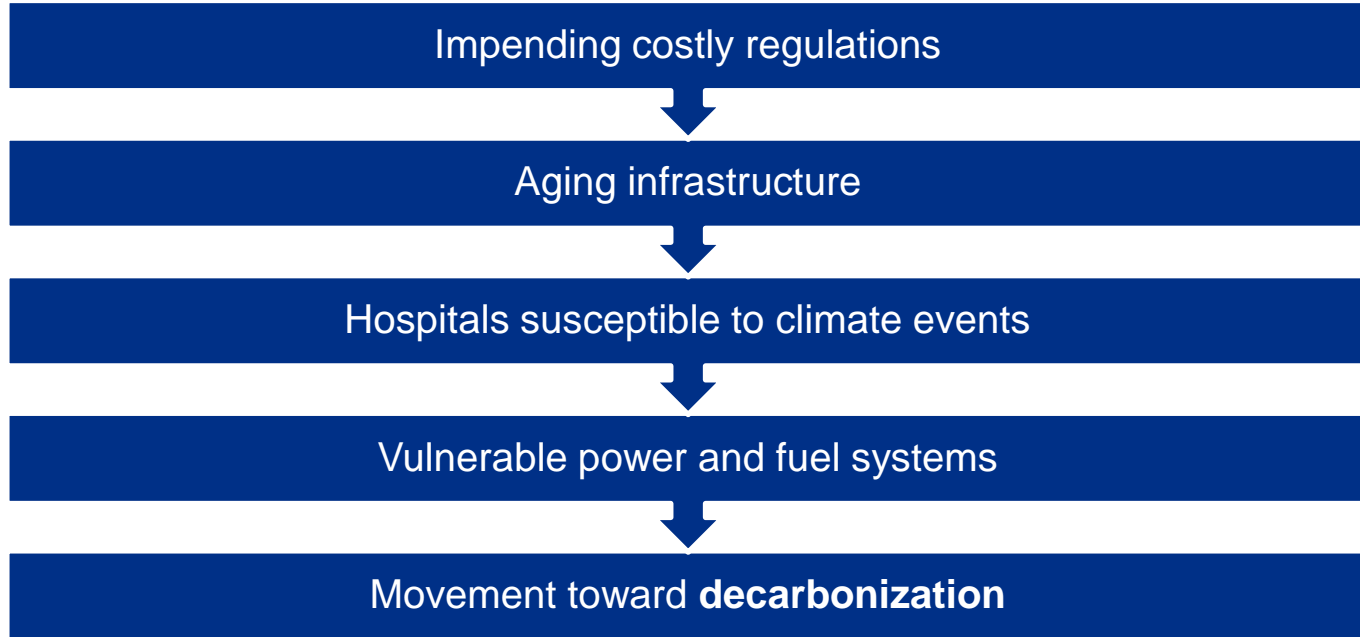
A proposed addendum to Standard 170-2017, Ventilation of Health Care Facilities, is open for public comment.

HFM

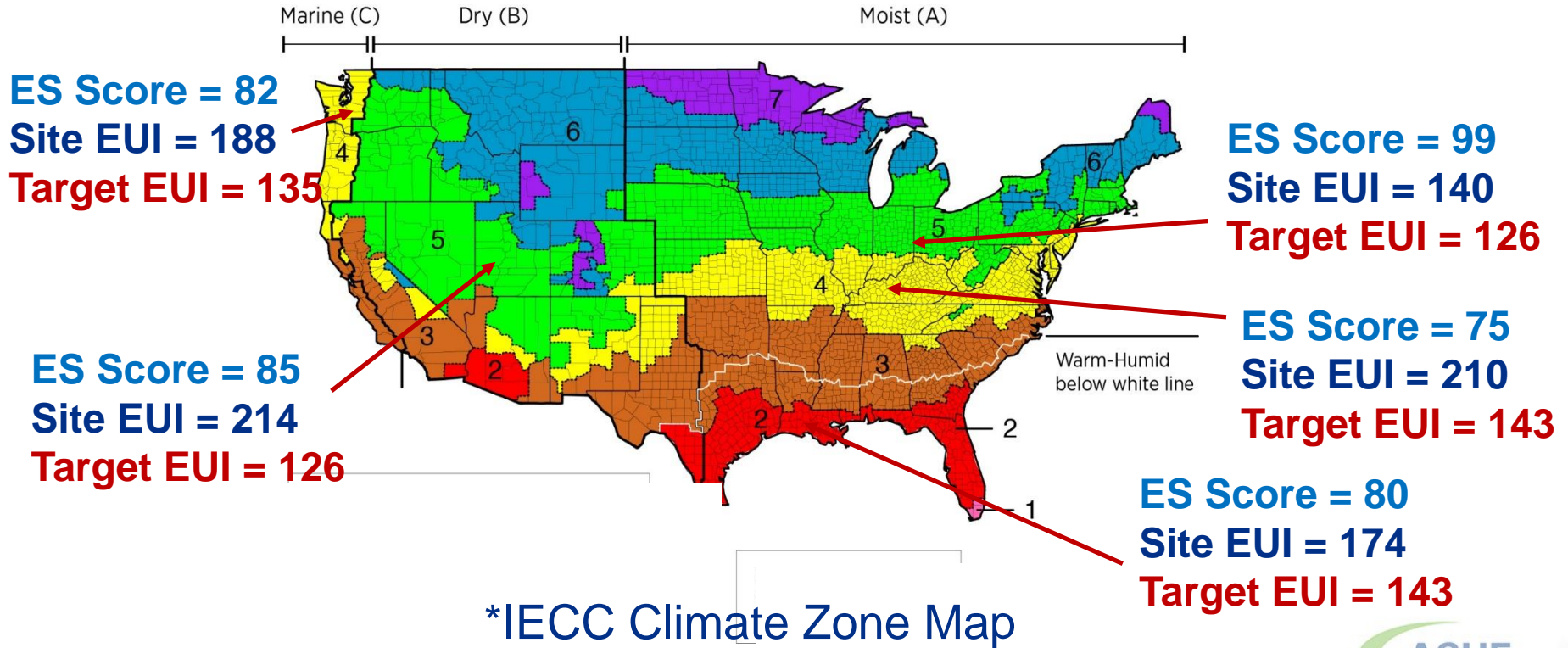
# Sustainability Current Events and Data

# Current Events Affecting Health Care

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# Operational EUI vs Target EUI



# ICC Update

# ICC

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- 2021 ICC Code Development Cycle (Group A = Majority of IBC, IFC, IMC, IPC, etc.)
  - 15 Proposals Submitted
    - 8 Approved As Submitted
      - Ambulatory Care Definition (4 Parts)
      - Vertical Openings
      - Incidental Use Table
      - Medical Gas Signage
      - Lay-in Ceilings as Smoke Tight Construction

# ICC

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- 2021 ICC Code Development Cycle (Group A = Majority of IBC, IFC, IMC, IPC, etc.)
  - 15 Proposals Submitted
    - 2 Approved As Modified
      - Limited Assistance Definition
      - Fire Dampers
    - 5 Disapproved
      - Electrical Receptacles (2 Parts)
      - Domestic Cooking Equipment
      - Tepid Water Exemption
      - HVA

# Public Comment Period

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- Public Comment Period
  - Closes - 11:59pm Pacific Time on July 2nd

# Project Firstline

# Project Firstline – CDC National Training Collaboration

## Project Firstline



Clinician



Facility  
Technician



Facility  
Manager

**Guidance on  
Infection  
Control in  
the Built  
Environment**



# Infrastructure Alert

# Advocacy Alert – Infrastructure Investment



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## Investing in Hospital Physical Infrastructure

Investment in hospital infrastructure is critical to ensure the overall health, security and wellbeing of patients and communities, which is why ASHE and the American Hospital Association (AHA) are working to ensure that hospitals and health systems be included in significant legislative packages designed to address challenges among the nation's infrastructure. Hospitals have been hit especially hard financially during the COVID-19 pandemic. Recent [reports](#) show losses are expected to reach at least \$323 billion in 2020 with more losses expected through 2021. Investments in the modernization of hospital physical plants is necessary to maintain access to high quality, safe and environmentally sustainable care. To help advocate for infrastructure funding, facility managers should share their deferred maintenance and capital needs with their chief financial and executive officers and encourage the organization to contact their state and federal representatives. Guidance for this effort is available in the [Infrastructure Advocacy Digital Toolkit](#).

Read more

[www.ashe.org/investing-hospital-physical-infrastructure](http://www.ashe.org/investing-hospital-physical-infrastructure)



# 2021 Webinar Dates

# 2020 Sustainability and Advocacy Liaison Dates

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## 2021 Webinar Schedule

Q1: Tuesday, March 9, 2021

Q2: Wednesday, June 9, 2021

Q3: Wednesday, September 8, 2021

Q4: Wednesday, December 8, 2021

*All webinars begin at 12:00 noon CST.*

*Webinar reminders - myASHE Sustainability  
Liaison Community*

# Upcoming Events

# Energy to Care Newsletter!

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July 2021

*Welcome to the first issue of the Energy to Care Quarterly Newsletter. We hope it inspires you to reduce energy consumption, providing value to your organization and improving patient care.*

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# Upcoming Events!

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**PDC SUMMIT**

## 2021 PDC SUMMIT TOPIC AREAS

| PDC SUMMIT TOPICS  | PANDEMIC SYMPOSIUM TOPICS  |
|--|--|
| <ul style="list-style-type: none"><li>• Clinical Perspectives in Design &amp; Construction</li><li>• Future of Delivery</li><li>• Collaborative PDC Methodologies</li><li>• Improving the Human Experience</li><li>• Site of Care</li><li>• Solutions for Mitigating Risks</li><li>• Regulation and Compliance</li></ul> | <ul style="list-style-type: none"><li>• Alternate Care Sites</li><li>• Financial Implications</li><li>• Behavioral Health</li><li>• Compliance</li><li>• Emergency Preparedness</li><li>• Surge and Adaptability Planning</li><li>• Mechanical &amp; Electrical Design</li><li>• Telehealth</li><li>• Recovery</li></ul> |

View PDC  
Sessions On  
Demand!



**2021 ASHE ANNUAL  
CONFERENCE  
NASHVILLE  
AUGUST 8 - 11**

**2021 ASHE ANNUAL  
CONFERENCE  
VIRTUAL  
SEPTEMBER 15 - 17**

[More Info](#) [More Info](#)

# ASHE Career Center



## Current ASHE Openings!



### Senior Advocacy Associate

American Society for Health Care Engineering

Chicago, Illinois



### Senior Instructional Designer

American Society for Health Care  
Engineering

Chicago, Illinois

# Questions or Discussion?

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# Thank you!

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