# **B3 PROGRAMS AND TOOLS:**WHAT'S NEW AND WHAT'S NEXT?

Maureen Colburn, LHB



# LEGISLATIVE RECOMMENDATIONS



# WHAT'S NEW?

Recommendations for program improvements

### WHAT'S NEXT?

- Discussion with Legislature
- Training targeted to stakeholder feedback



www.b3mn.org/wp-content/uploads/Sustainable-Building-Guidelines-Recommendations-Report.pdf



# **B3 GUIDELINES**



### WHAT'S NEW?

 Performance mgmt. resources

### WHAT'S NEXT?

- Daylighting, Site & Water (v3.2r02)
- Resilience
- SB 2030 interface (E1A & E1B)

guidelines@b3mn.org

# SECTION 01 8113 B3 SUSTAINABLE DESIGN REQUIREMENTS

#### **PART 1 GENERAL**

#### 1.1 PROJECT GOALS

- A. This project has been designed to comply with the B3 Sustainability Guidelines including the SB2030 Energy Standard.
- B. Many of the B3 requirements can be achieved only through intelligent design of the project and are beyond the control of the Contractor. However, certain credits relate to the products and procedures used for construction. Therefore, the full cooperation of the Contractor and subcontractors is essential to achieving compliance.
- C. Contractor shall familiarize himself/herself with the relevant requirements and provide the necessary information and instruction to all subcontractors and installers.
- D. Since Contractor and subcontractors may not be familiar with B3 requirements, this section includes a summary of the products and procedures intended to achieve B3 compliance.
- Some requirements are dependent on proper performance by Contractor and subcontractors.
- Some requirements involve quantifying percentages by weight and cost; these require careful recordkeeping and reporting by the Contractor.
- G. See <a href="https://www.b3mn.org/guidelines/">https://www.b3mn.org/guidelines/</a> for more information.

#### 1.2 SECTION INCLUDES

- A. Minimum Sustainable Performance Requirements
- B. State of Minnesota Sustainable Building Guidelines for New Buildings.
  - Version 3.2 r 01 of the State of Minnesota Sustainable Building Guidelines (B3 Guidelines) are included by reference and can be found at: www.b3mn.org/quidelines/

#### 1.3 RELATED SECTIONS

- A. Section 01 3323 Shop Drawings, Product Data and Samples.
- B. Section 01 4500 Quality Control
- C. Section 01 5721 Indoor Air Quality Controls
- D. Section 01 7419 Construction Waste Management and Disposal.
- E. Section 01 9113 General Commissioning Requirements.
- F. Section 03 3000 Cast-in-Place Concrete.
- G. Section 03 3511- Concrete Floor Finishes.





# **BUY CLEAN BUY FAIR ACT**

# WHAT'S NEW?

 Embodied carbon standards applicable to state-owned buildings over 50,000 SF

# WHAT'S NEXT?

Environmental Standards
 & Procurement Task Force





# SUSTAINABLE BUILDING 2030

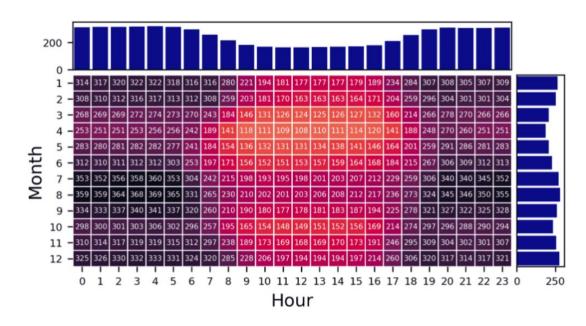


#### WHAT'S NEW?

On-demand training

#### WHAT'S NEXT?

- 90% reduction on 1/1/25
- Reviewing:
  - Cost-effectiveness
  - Future weather & emissions factors
  - Hourly emissions
  - RECs
  - Loads from EVs



Long-run marginal CO2 emission rate pattern (kg/MWh) for the contiguous U.S.



# SUSTAINABLE BUILDING 2030

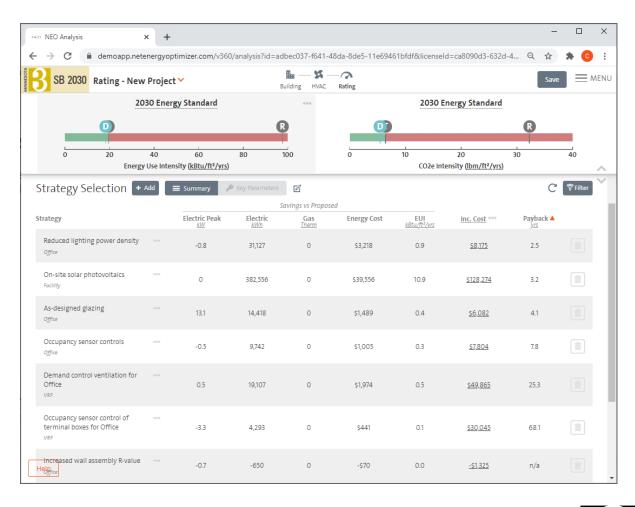


#### WHAT'S NEW?

- Energy code update
- More HVAC options
- Reviewer mode
- Auto version upgrades

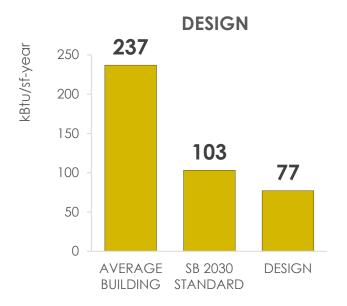
#### WHAT'S NEXT?

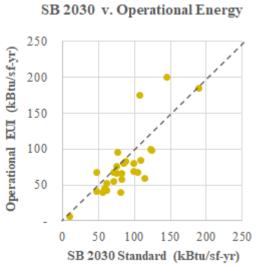
 Switch to EnergyPlus

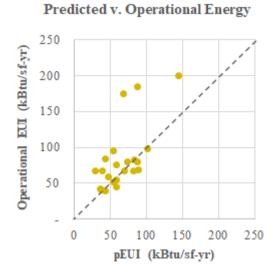




# SUSTAINABLE BUILDING 2030









# **B3 BENCHMARKING**

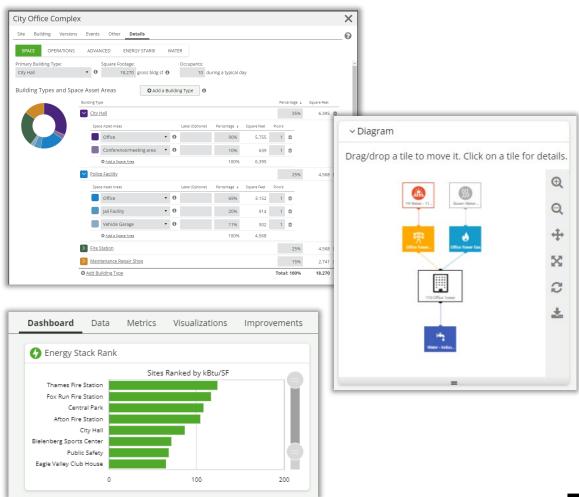


# WHAT'S NEW?

- Additional dashboard widgets
- Multiple building types
- Enhanced diagram view

#### WHAT'S NEXT?

- Re-designed Improvements Tab
- Re-designed Targets





# **ENERGY EFFICIENT OPERATIONS**

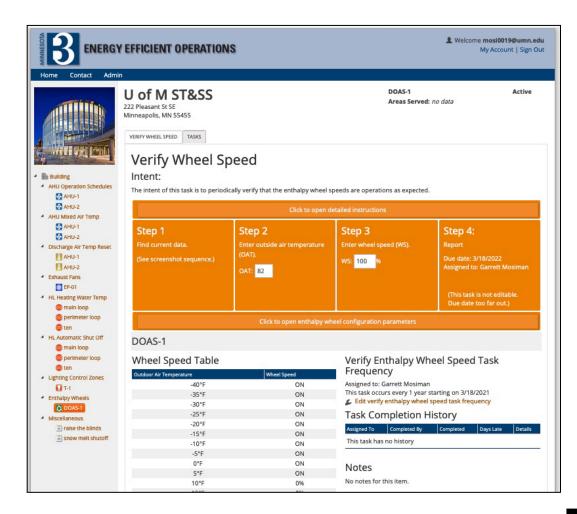


#### WHAT'S NEW?

 On-demand training:
 "Beyond Cutsheets and Keys: Best Practices for Building Handoff"

#### WHAT'S NEXT?

 Call for building candidates – contact: Garrett Mosiman mosi0019@umn.edu





# POST-OCCUPANCY EVALUATION



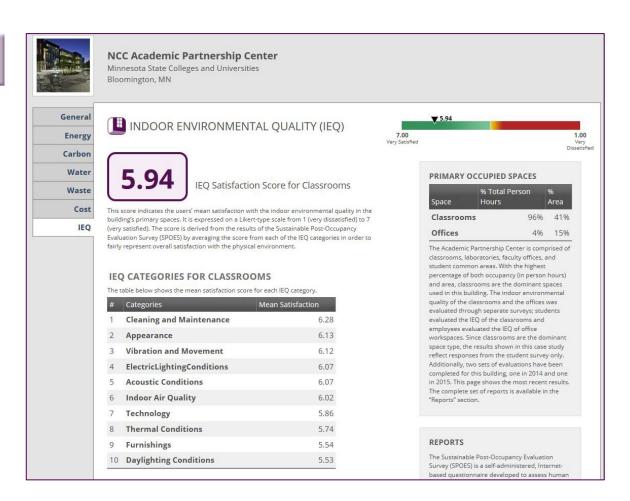
#### WHAT'S NEW?

- 5 new POEs
- Enhanced report format

#### WHAT'S NEXT?

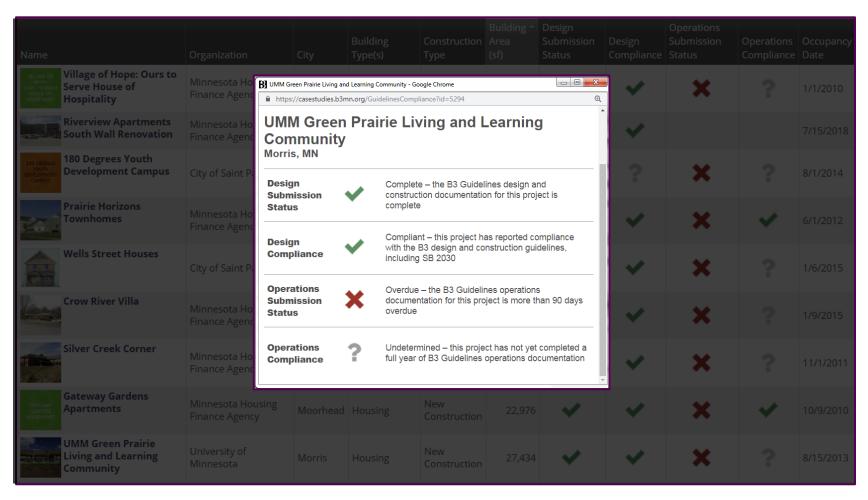
Ongoing POEs

b3mn.org/poe/library/





# **B3 CASE STUDIES DATABASE**



casestudies.b3mn.org



# **VOLUNTARY PARTICIPATION**





# B3/SB 2030 TRAINING

#### WHAT'S NEW?

 Updates to training library

#### WHAT'S NEXT?

- On-demand content
  - E1A & E1B updates
  - Performance mgmt. tools
  - B3 Guidelines roles

# Training Materials



### Small Buildings and Sites

- Demystifying B3 for Small Projects (AIA MN Conference on Architecture, November 2022) Recording & Slides
- An Introduction to the SB 2030 Small Buildings Method (B3/SB2030 Training, June 2021) Recording & Slides
- An Introduction to the B3 Guidelines Small Building Method (B3/SB2030 Training, March 2021) Recording & Slides



### **Energy and Atmosphere**

- Pre-Design and Planning for Electrification (Science Museum of Minnesota Symposium on Sustainable Buildings 2030, October 2022) – Integrating High Performance in Pre-Design, Decarbonization through Electrification
- Sustainable Buildings 2030: Lessons Learned and Planning for the Future (Science Museum of Minnesota Symposium on Sustainable Buildings 2030, February 2022) – Recording Part 1, Recording Part 2, & Slides
- Offsite Renewable Energy Options for SB 2030: Renewables, Energy Credits, Green Power, and More (B3/SB2030
   Training, December 2021) Recording & Slides
- Pathways to SB 2030: Three Minnesota Case Studies (AIA MN Conference on Architecture, November 2021) Recording & Slides

<u>b3mn.org/guidelines/training-and-education</u> <u>www.youtube.com/@b3mnb3programassistance61</u>

