

2025 Cultural Facility Benchmarking Program Review

Program Provides Data & Metrics

The Best Cultural Industry Data for many Performance Metrics

2025 Overview

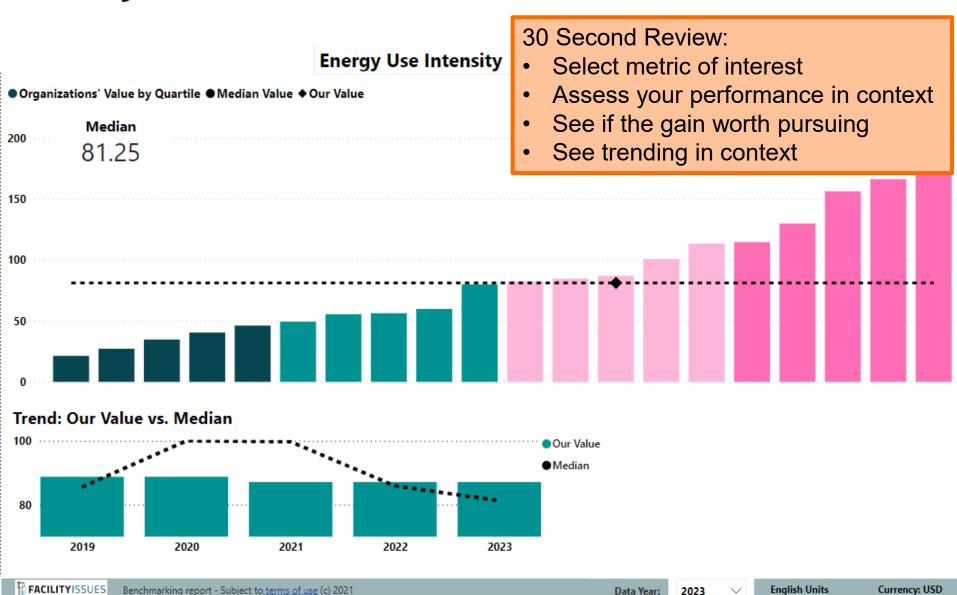
- 19 Organizations, 263 Buildings, 9 M GSF, \$5+ B Asset Value
- Serving 2 B annual visitors, 2 B items in collections
- \$160 M annual property operating costs \$258 M total costs

Quantitative and Qualitative Comparisons

- 700+ data points
- Key quantitative performance metrics
 - 25+ at organization level (staffing & practices)
 - 63+ at property level (size, cost, sustainability performance)
- Qualitative metrics such as degree of use of Practices:
 - Custodial & Maintenance operations
 - Space management
 - Energy, Water, & Waste management

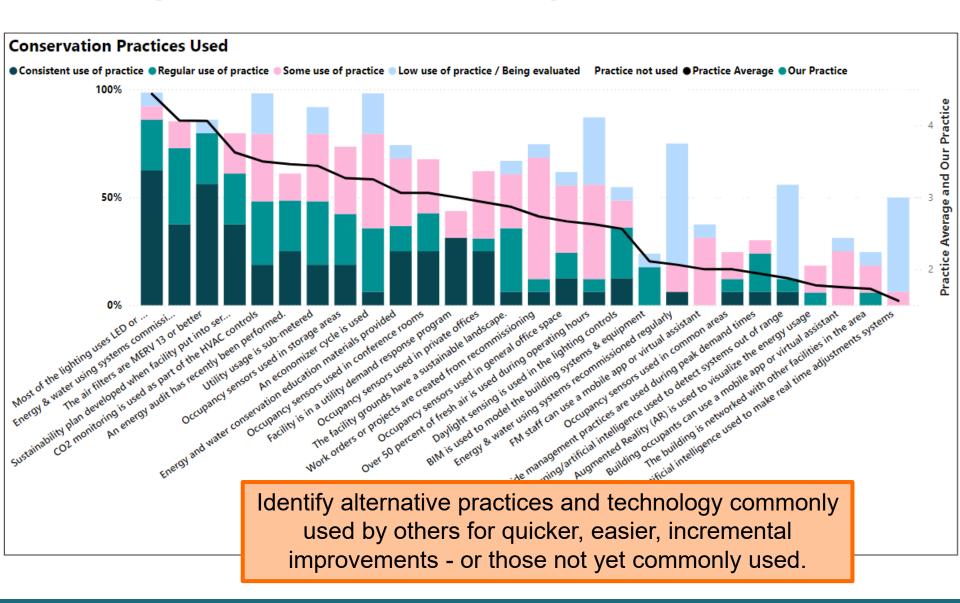


Key Metrics Charts to Facilitate Review



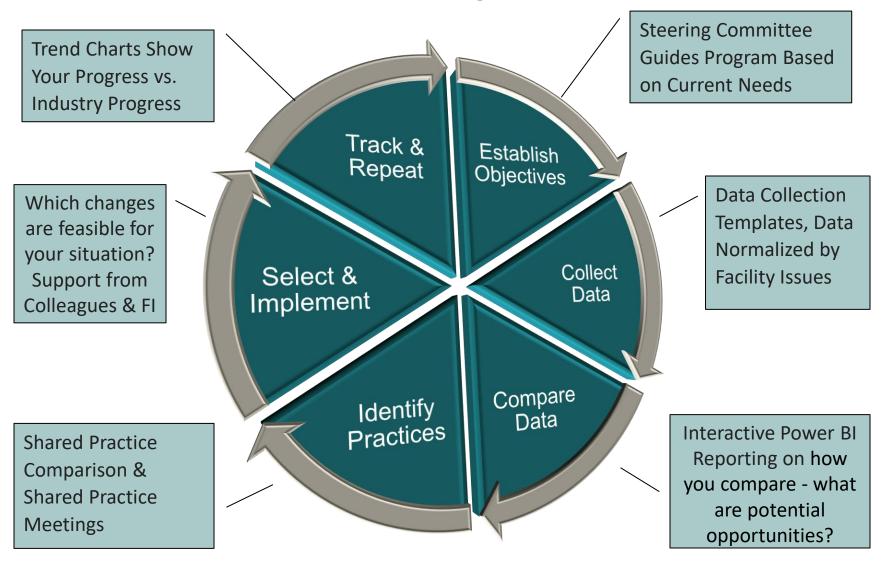
FACILITY

Comparison of Practice Adoption Levels





Complete Benchmarking Process





New Reference Guide

Tips on getting value from each part of the process

- Identify key information
- Focus on most relevant data
- Create action plan based on your situation



Download: https://facilityissues.com/get-value-from-benchmarking/



Example Action Matrix: Performance vs. Objectives

Action Plan: Specific actions (policy change, investment of \$, effort...)

 to achieve desired performance improvement (or address identified deficiency) over specified time period.

Want to be → Are Ψ	Leader	Competitive	Not Priority
Leader	Document & Celebrate	Document & Celebrate	Evaluate Resource Allocation
Competitive	Incremental Improvements & Evaluate	Document & Celebrate	Manage by Exception
Struggling	Evaluate Radical Changes	Incremental Improvements & Evaluate	Manage by Exception



You are Invited

Monthly Shared Practice Meetings / Surveys

	2025 Monthly Shared Practice & Networking Topics		
Jan	No meeting		
Feb	Getting Value from Facility Benchmarking	Topics you would	
Mar	The Range of Services Your Department Provides Ike in 2026?		
Apr	Special Event Preparation at Cultural Facilities		
May	Live Help Session on Your Data Assembly Questions		
Jun	Min/Max: Exploring the Relationship Between Energy and T/RH Parameters		
Jul	Lessons Learned from an Energy AI System Pilot		
Aug	Grounds and Outdoor Spaces		
Sep 23	Annual Workshop Town Hall Session		
Oct	Training Cultural FM for Climate Smart, High Perf. Buildings		
Nov	Emerging Issues for Cultural Facility Management		

Calendar: https://facilityissues.com/cultural/schedule/



June Shared Practice Meeting:

MIN/MAX: The Relationship Between Energy, Carbon, and T/RH Parameters in Collecting Institutions

What are the benefits of broadening T/RH parameters beyond the status quo of 70°F/50% RH (24°C/50% RH), particularly energy savings, in a time of high inflation, a stressed economy, and a deteriorating global climate system?

Thanks to ...



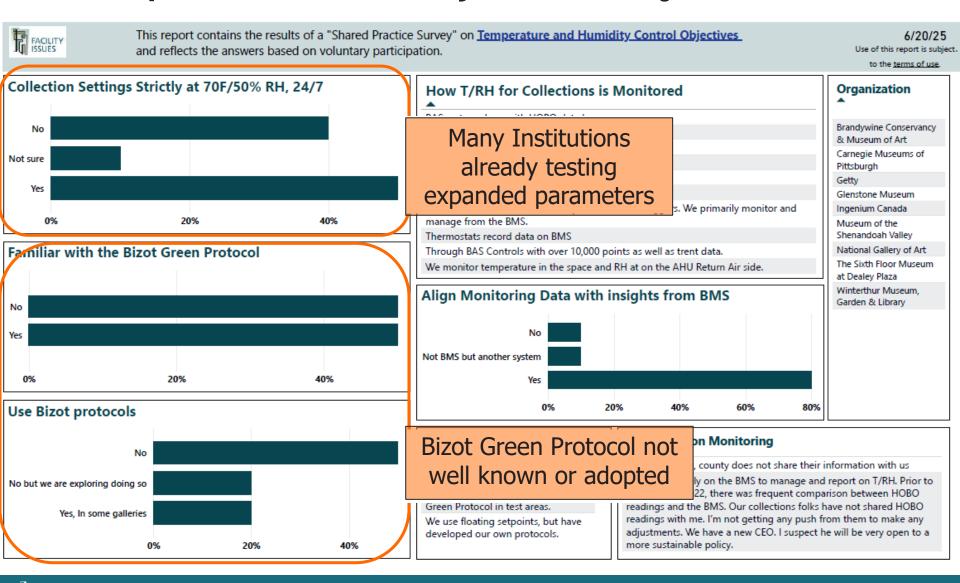






June Shared Practice Survey:

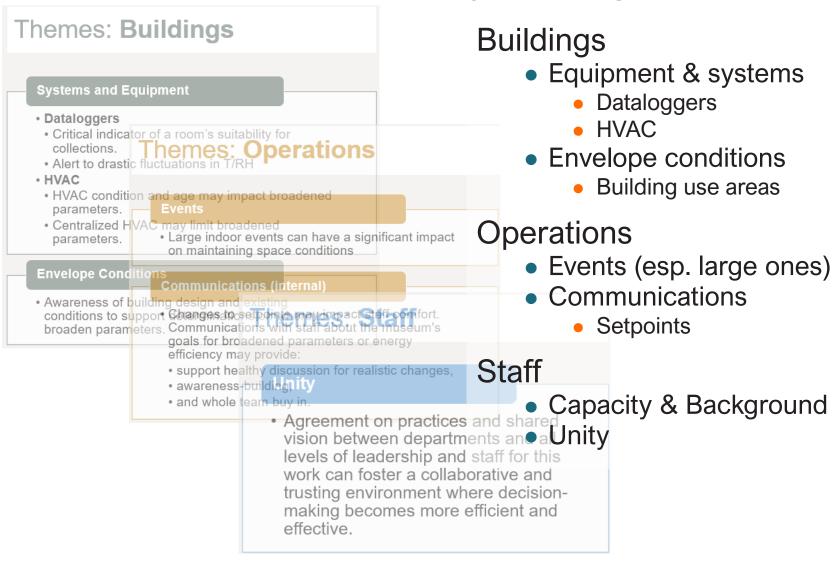
Temperature & Humidity Control Objectives





June Shared Practice Meeting:

MIN/MAX: Preliminary Findings





July Shared Practice Meeting:

Lessons Learned from Energy AI Systems Pilot

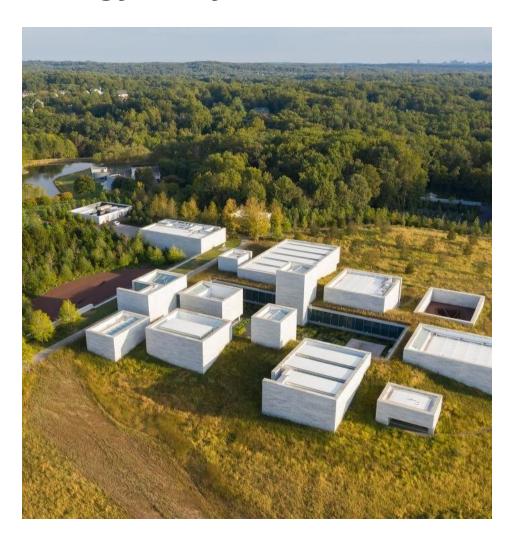
What benefit might an Energy AI system offer for Cultural Facilities?

Feedback from testing the Ento.ai cloud energy management system:

- Tested by Brendan Robinson, Director of Facilities
- Sponsored by Facility Issues

Thanks to...

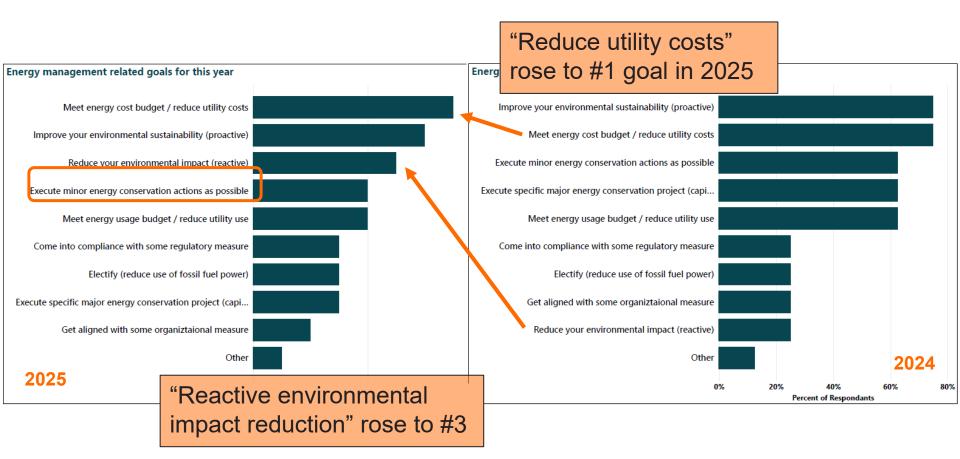
Glenstone



July Shared Practice Survey:

Energy Management Activities

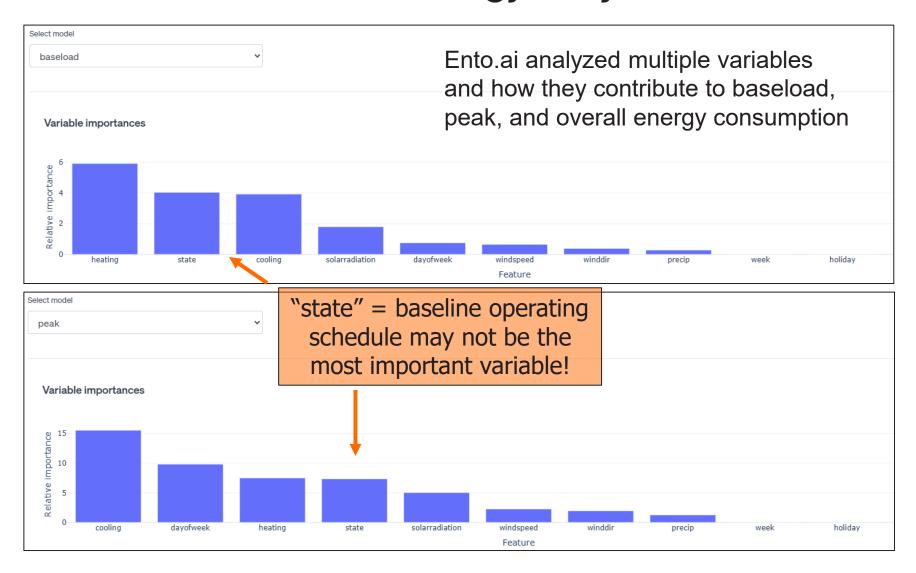
Repeated a survey on energy management activities from last year





July Shared Practice Meeting:

Lessons Learned from Energy AI Systems Pilot





July Shared Practice Meeting:

Lessons Learned from Energy Al Systems Pilot

Pros

- Ease of startup
- Accuracy of data
- Valuable analytic insights
- Internal Benchmarking

Cons

- Challenging to understand and use the interface
- External benchmarking lacks detail

Potential Applications

- Where no submetering available all you need is utility meter data (15-minute intervals)
- Best if you have some technical support

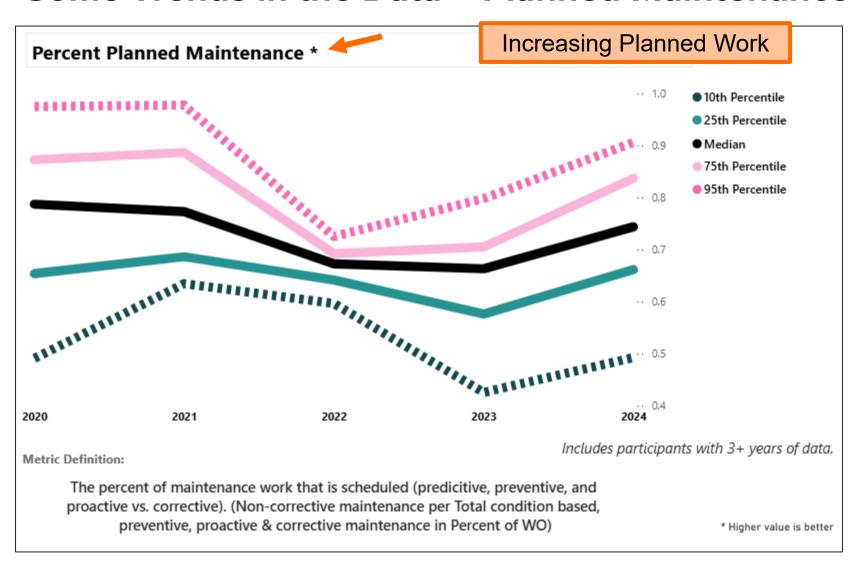
Contact Robert Lambe for more information



TRENDS WE ARE SEEING IN THE [INCOMPLETE] DATA

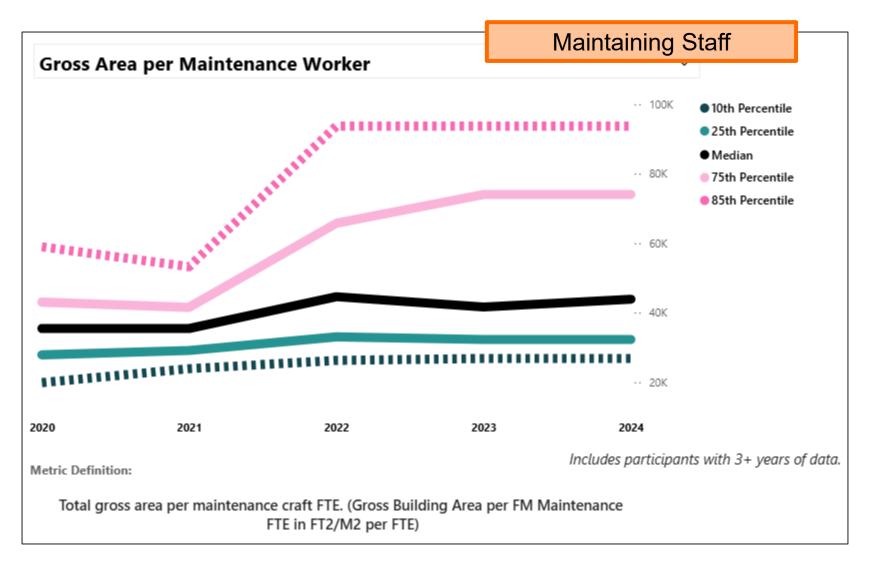


Some Trends in the Data - Planned Maintenance



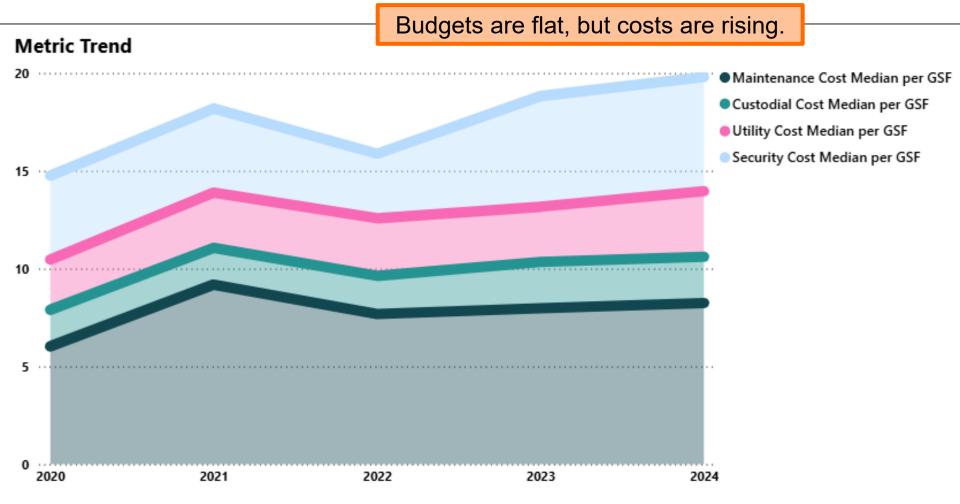


Some Trends in the Data - Maintenance Staff





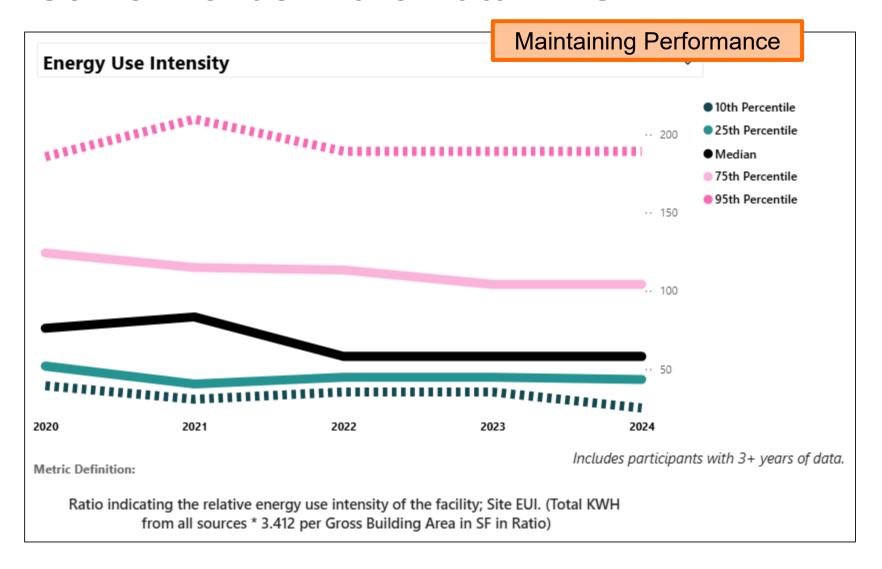
Some Trends in the Data - O&M Costs



Includes participants with 3+ years of data.



Some Trends in the Data - EUI





MAKING BENCHMARKING EASIER



Automated Helpers?

Al Assistants (Agents) – Have a team of benchmarking assistants:

- Ask the benchmarking data questions (analyst)
- Get assessment of our organization (researcher)
- Draft and discuss recommended actions to consider based on selected priorities or weak performance areas (consultant)
- Get help compiling our data (analyst)
- What else ?



Key Issues Being Tested in Al Benchmarking Pilot

Data Security/Quality: Keep benchmarking data private

- Use "middleware" to secure our data
 - Intellectual Property Protection Our patent-pending Neural Engine and IP Vault provide comprehensive security for institutional content. We implement advanced encryption, secure multi-level file storage, and sophisticated content anonymization—achieving 99.99% multi-tenant isolation and 99.7% unauthorized access prevention.
- Limit some queries to only using our data to avoid internet "noise"

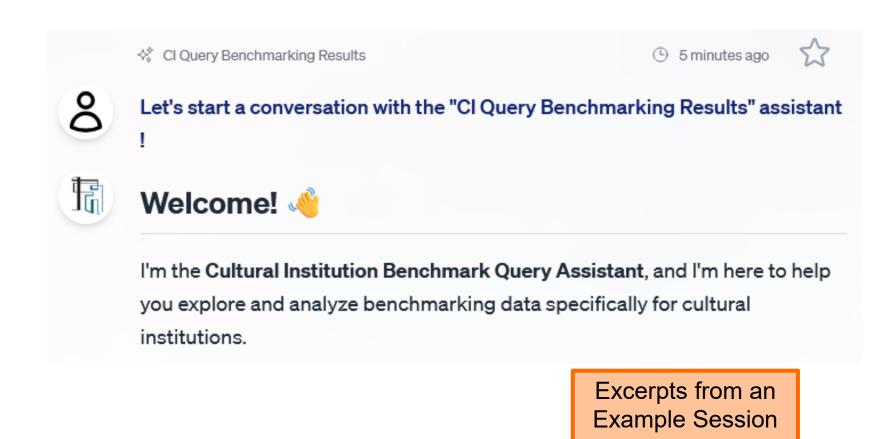
RAG, or Retrieval-Augmented Generation, is a technique that enhances large language models (LLMs) by allowing them to access and incorporate external data sources, improving the accuracy and relevance of their responses.

Ease of Use: Specific assistants for specific purposes

Quality of Results: Assess the sensibility of the results



Facility Issues' Al Benchmarking Pilot





What I Can Help You With

I can assist you with queries such as:

- Regression Analysis: Provide a "soft" regression analysis of how identified practices and technologies impact
 performance metrics
- 2. Performance Trends: Assess the industry's performance trends over time
- 3. Service Level Summary: Give you a general overview of the industry's typical service levels
- Performance Expectations: Summarize common performance benchmarks you can expect in the cultural institution industry
- Demographics Overview: Provide insights into the participant group's demographics (both organizations and properties)

Important Notes 🔒

- 1. I work exclusively with Cultural Institution (CI) benchmarking data
- 2. I maintain strict confidentiality no specific organization details or identifying information will be shared
- 3. All insights are presented at an aggregate, industry level

What would you like to explore first? Feel free to ask me any questions about cultural institution benchmarking data, performance metrics, or industry trends! 🧺 🏦















m Expected Performance Standards for Cultural Institutions



Total Cost of Occupancy:

- 1. Expected range: \$27-30 per square foot annually
- 2. This includes all facility-related costs (maintenance, energy, custodial, etc.)

Operations & Maintenance Costs:

- 1. Typical performance: \$15-20 per square foot for direct O&M costs
- 2. Energy costs generally represent 25-35% of total facility costs

Staffing Performance Standards

Maintenance Staffing Ratios:

- 1. Industry standard: 1 maintenance worker per 50,000-75,000 square feet
- 2. Training expectations: 5-8 hours per maintenance worker annually



Example Excerpt

m Cultural Institutions Performance Trends Analysis

Cost Management Trends

Total Cost of Occupancy Evolution:

- 1. Stabilizing trend: Organizations are achieving more consistent cost performance around \$27-30 per square foot
- 2. **Efficiency improvements**: Better integration of facility management systems leading to reduced administrative overhead
- Energy cost optimization: Institutions implementing energy management programs showing 10-15% reductions in utility costs

Operational Excellence Trends

Maintenance Strategy Evolution:

- 1. Shift toward preventive maintenance: Industry moving from 50-60% to 65-75% preventive work
- 2. Technology adoption: Increased use of CMMS and predictive maintenance tools
- 3. Staffing optimization: More efficient staffing ratios, with institutions achieving better coverage per square foot



m Cultural Institutions Service Level Benchmarks

Maintenance Service Levels

Service Level Establishment:

- Cross-functional team approach: Most high-performing institutions establish service levels through collaborative teams
- Requirements-based standards: Service levels typically based on operational requirements rather than historical practices
- Documentation standards: Service levels documented in service contracts or formal SLAs

Industry Movement Toward Formalization

Key Trends Observed:

- 1. Shift from informal to formal: Moving away from "handshake agreements" to documented standards
- 2. Performance-based documentation: Service levels tied to measurable outcomes rather than just activities
- 3. Transparency initiatives: 43.75% of institutions now share service levels with occupants/users
- 4. Regular review cycles: Documented service levels reviewed annually or when contracts are rebid



Example Excerpt

6 Top 3 Critical Performance Factors

1. Naintenance Strategy & Execution

Why It's Critical:

- 1. Preventive vs. Reactive Balance: High-performing institutions achieve 65-75% preventive maintenance ratios
- 2. Response Time Standards: Emergency response within 2-4 hours directly impacts operational continuity
- 3. Asset Preservation: Proper maintenance protects valuable collections and building infrastructure
- 4. Cost Control: Preventive strategies reduce total maintenance costs by 15-25%

Performance Impact:

- 1. Institutions with structured maintenance programs show 20-30% lower total facility costs
- 2. Better maintenance ratios correlate with higher occupant satisfaction scores
- 3. Reduced emergency repairs and extended equipment life cycles



How Might Al Improve Benchmarking

Help with the facility benchmarking "wish list" of easier, faster, more useful, etc.

Charts — Conversations

Manual Semi-Automated

Descriptive

Proactive

Standard — Customized

Cyclical Instantaneous

Incremental cost

Foundational value (no less expensive but supports other activities?)



Next Steps for AI Benchmarking Pilot

Start Beta Testing 2025 Q4

- Query benchmarking data
- Benchmark my organization
- Provide draft action plan based on my benchmarking

Define Options for 2026 Program

- How to best incorporate?
- Participation options?
- Participation requirements?

Identify & Develop Additional Capabilities

Interested in Participating? https://facilityissues.com/cultural/ai/



AI + Benchmarking

Draw on the capabilities of both approaches to gain better insight, make more informed decisions, and drive meaningful improvements

Capabilities of Al

- Rapid data review
- Respond to custom questions
- Automate routine tasks

Value of Benchmarking

- Provides robust data grounded in current, real-world practices
- Allow visibility of source data
- Good charts & graphs

Al reviews data and provides answers in real time)





Benchmarking provides validated data set as part of the foundation



Thank you!

Measurement: A quantitatively expressed reduction of uncertainty based on one or more observations

Douglas W. Hubbard How to Measure Anything.

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