

## Benchmarking Tools Matrix

	EQ	PM	BPD	HES	Labs21/ Fabs21
<b>Building Type</b>					
Commercial	•	•	•		
Residential			•	•	
Specialty					•
<b>Data Source</b>					
Public data surveys	•	•	•	•	
Proprietary data	•		•		
Other users of tool				•	•
Simulated/modeled data				•	
<b>Benchmarking time frame</b>					
Cross-sectional (one-point in time, multiple buildings)	•	•	•	•	•
Longitudinal (changes over time for a given building)	•	•			
<b>Benchmarking Scale</b>					
Whole building	•	•	•	•	•
End use	•			•	•
Fuel	•		•		•
Peak demand	•				
Building Characteristics	•				
<b>Benchmarking metrics</b>					
Score		•			
Energy Use Intensity	•	•	•	•	•
Energy cost	•			•	
Carbon emissions	•			•	
Water Consumption		•			
<b>Filters</b>					
Building type	•	•	•		
Location/Climate	•		•	•	•
Building vintage	•		•		
Building size	•		•		
Characteristics			•		
<b>Evaluation</b>					
Rating		•			
Performance compared to peer group (e.g. quartiles)	•	•	•	•	•
Comparison of one building to portfolio	•	•			•
User-defined targets	•	•			

	EQ	PM	BPD	HES	Labs21/ Fabs21
<b>Energy retrofit recommendations</b>					
Custom recommendations	•			•	
Expected savings	•		•	•	
Expected costs	•			•	
<b>Account Privileges</b>					
Energy tracking	•	•			•
Energy management					
Fault detection					
Self-analysis and reporting	•	•			

EQ – EnergyIQ – [www.energyiq.lbl.gov](http://www.energyiq.lbl.gov)

PM – ENERGY STAR Portfolio Manager – [www.energystar.gov/benchmark](http://www.energystar.gov/benchmark)

BPD – DOE Building Performance Database – [www.bpd.lbl.gov](http://www.bpd.lbl.gov)

HES – Home Energy Saver – [www.hes.lbl.gov](http://www.hes.lbl.gov)

Labs21 – Labs for the 21<sup>st</sup> century – [www.labs21benchmarking.lbl.gov](http://www.labs21benchmarking.lbl.gov)

Fabs21 – Semiconductor Fabrication Facilities – [www.fabs21.lbl.gov](http://www.fabs21.lbl.gov)

# BEST Center Curricula, Resources & Recordings

## Academic Programs

Georgia Piedmont Technical College - Building Automation Systems

Milwaukee Area Technical College - Sustainable Facilities Operations

Laney College - Commercial HVAC Systems

City College San Francisco - Commercial Building Energy Analysis & Audits

## Professional Development Materials, Presentations & Videos

National Institutes

Building Automation Systems Instructor Workshops

Webinars (e.g., BEST Talks)

## Faculty Profile Videos

## Reports & Case Studies

## Marketing Resources

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