Response Summary

Assigned To

Target Record

Status

Progress

Response Language

Response Detail

Information

Question	Response	Comment
Building Name 1		
Related Project		
Building Street Number		
Building Street Name		
Building Street Suffix		
Select the type of filing		
Filing Contact Name		
Filing Contact Email		

Team

Enter the names of the companies/organizations on the project team.

Question	Response	Comment
Owner/Developer		
Architect		
Landscape Architect		
Mechanical Engineer		
Sustainability / LEED		
Performance Modeler		
Civil Engineer		
Permitting		
Construction Management		
Transportation Consultant		
Consultant for Advanced Energy Feasbility Assessment		

Building Description and Design Conditions

Question	Response	Comment
Date COBUCS Report was submitted		
Site Area (SF)		
Length of sidewalk to be reconstructed (LF)		
What are the building's First Floor Building Uses?		
Please specify the building's below grade uses?		
Building Gross Square Feet		
Project Gross Square Feet		
Building Gross Floor Area		

Question	Response	Comment
Building Height (Ft)		
Building Height (Stories)		

Description and Design Conditions - Building Envelope

When reporting U values, report total assembly U value including supports and structural elements.

Note: for any data (number) requests that are not applicable to this project, please enter a value of 0.

Question	Response	Comment
Roof Area (SF)		
Roof U Value		
Foundation Wall Area (SF)		
Foundation Wall U Value		
Exposed Floor Area (SF)		
Exposed Floor U Value		
Slab on Grade Area (SF)		
Slab on Grade U Value		

Description and Design Conditions - Vertical Above-Grade Assemblies

When reporting U value, report total assembly U value including supports and structural elements.

For any data (number) requests that are not applicable, please enter a value of 0.

Question	Response	Comment
Building Infiltration Rate		
Window to Wall Ratio (%)		
Opaque Curtain Wall / Spandrel Area (SF)		
Opaque Curtain Wall / Spandrel U Value		
Opaque Framed Wall Area (SF)		
Opaque Framed Wall U Value		
Vision Glazing/Window Type 1 Area (SF)		

Question	Response	Comment
Vision Glazing/Window Type 1 U Value		
Vision Glazing/Window Type 1 SHGC		
Vision Glazing/Window Type 2 Area (SF)		
Vision Glazing/Window Type 2 U Value		
Vision Glazing/Window Type 2 SHGC		
Doors - Area (SF)		
Doors - U Value		
Total Wall Area (SF)		
Vertical U Average		
Whole Building U Average		

Article 37 Green Building

Question	Response	Comment
LEED Certified		
Proposed LEED Rating		

Building 2035 Predictive Carbon Emissions Intensity (pCEI) Targets and Performance

Using predictive modeling and 2035 Emission Factors, report the modeled performance for Primary, Secondary, and Tertiary Building Uses and the Whole Building including Energy Source Amount(s) and pCEI(s). If multiple uses share common systems or are not individually modeled, use a common pCEI. Otherwise provide use specific performance data.

Note: For any data (number) requests that are not applicable, please enter a value of 0.

Question	Response	Comment
2035 Emissions Factor Electric (kg CO2e/MBtu) 52.1		
2035 Emissions Factor Gas (kg CO2e/MBtu) 53.11		

Building 2035 pCEI Targets and Performance - Primary Use

In the next sections, we ask for information about up to three building uses. Using predictive modeling and 2035 Emission Factors, report the modeled performance for Primary Building Uses including Energy Source Amount(s) and pCEI(s). If multiple uses share common systems or are not individually modeled, use a common pCEI. Otherwise provide use specific performance data.

Note: For any data (number) requests that are not applicable, please enter a value of 0.

Question	Response	Comment
Please indicate the building's primary use type		
Square footage of the building's primary use floor area including related uses		
Primary Use Annual Electric (MBtu/yr)		
Primary Use Annual Electric pCEI (kg CO2e/sf/yr)		
Primary Use Annual Gas/Other (MBtu/yr)		
Primary Use Annual Gas/Other pCEI (kg CO2e/sf-yr)		
Primary Use Energy Amount Totals (MBtu/yr)		
Primary Use pCEI totals (kg CO2e/sf-yr)		

Building 2035 pCEI Targets and Performance - Secondary Use

Using predictive modeling and 2035 Emission Factors, report the modeled performance for Secondary Building Uses including Energy Source Amount(s) and pCEI(s). If multiple uses share common systems or are not individually modeled, use a common pCEI. Otherwise provide use specific performance data. For any data (number) requests that are not applicable, please enter a value of 0.

Question	Response	Comment
Please indicate the building's secondary use type		
Square footage of the building's secondary use floor area including related uses		
Secondary Use Annual Electric (MBtu/yr)		
Secondary Use Annual Electric pCEI (kg CO2e/sf-yr)		

Question	Response	Comment
Secondary Use Annual Gas/Other (Mbtu/yr)		
Secondary Use Annual Gas/Other pCEI (kg CO2e/sf-yr)		
Secondary Use Energy Amount Subtotal (MBtus/yr)		
Secondary Use pCEI Subtotal (kg CO2e/sf-yr)		

Building 2035 pCEI Targets and Performance - Tertiary Use

Using predictive modeling and 2035 Emission Factors, report the modeled performance for Tertiary Building Uses including Energy Source Amount(s) and pCEI(s). If multiple uses share common systems or are not individually modeled, use a common pCEI. Otherwise provide use specific performance data.

Note: for any data requests that are not applicable, please enter a value of 0.

Question	Response	Comment
Please indicate the building's tertiary use type		
Square footage of the building's tertiary use floor area including related uses		
Tertiary Annual Electric (Mbtu)		
Tertiary Annual Electric pCEI (kg CO2e/sf-yr)		
Tertiary Annual Gas/Other (Mbtu)		
Tertiary Annual Gas/Other pCEI (kg CO2e/sf-yr)		
Tertiary Use - Energy Amount Subtotals (Mbtu)		
Tertiary Use - pCEI Subtotals (kg CO2e/sf-yr)		

Building 2035 pCEI Targets and Performance - Whole Building

Using predictive modeling and 2035 Emission Factors, report the modeled performance for Whole Building Uses including Energy Source Amount(s) and pCEI(s). If multiple uses share common systems or are not individually modeled, use a common pCEI. Otherwise provide use specific performance data.

Note: for any data / number requests that are not applicable, please enter a value of 0.

Question	Response	Comment
Whole Building pCEI (kg CO2e/sf-yr)		
Total Annual Energy (Mbtu/yr)		
Energy Use Intensity (kBtu/sf-yr)		
Annual Heating (kBtu/sf-yr)		
Peak Heating Load (Btu/hr-sf)		
Annual Cooling (kBtu/sf-yr)		
Peak Cooling Load (Btu/hr-sf)		
Energy Code Compliance Path		
Energy Use Below Code (%)		

Building Performance Assistance (Utility, State and Federal)

Question	Response	Comment
Has the project team met with utility representative for project assistance?		
Have the local utilities reviewed the predictive performance model?		
Will the project receive assistance?		
How much funding assistance?		

Carbon Emission Mitigation - On-site Renewable Energy Generation

Question	Response	Comment
System 1 - select the type		
System 1 Ownership		
System 1 - indicate it's size in kW		
System 1 Annual Output (kWh)		
System 2 - select the type		
System 2 Ownership		

Question	Response	Comment
System 2 - indicate it's size in kW		
System 2 Annual Output (kWh)		
Total Systems (kW)		
Total Annual Output (kWh)		

Carbon Emission Mitigation - On-site Renewable Energy Storage

Question	Response	Comment
Select the Energy Storage System Type		
Describe the ownership		
Storage System Size (kW)		
Storage System Capacity (MBtu)		

Building Carbon Emission Mitigation – Off-site measures - Procurement Renewable Electricity

Question	Response	Comment
Describe the type of Renewable Electricity procurement		
Describe the source of renewable electricity		
Annual Quantity of renewable electricity *(kW)*		
Renewable electricity procurement - % of total Annual Electricity Usage		

Building Carbon Emission Mitigation – Off-site measures - Procurement RECs, Power Purchase Agreements, and other Mechanism

Question	Response	Comment
Describe the type of RECs, Power Purchase Agreements, and other Mechanism		

Question	Response	Comment
Source of RECs, Power Purchase Agreements, and other Mechanism		
Annual Quantity of RECs, Power Purchase Agreements, and other Mechanism (tons of CO2e)		
Percent of total Annual Carbon Emissions - RECs, Power Purchase Agreements, and other Mechanism		

Payments for Non-electricity Carbon Emissions

Question	Response	Comment
Describe the type of non-electricity carbon emissions		
Source of non-electricity carbon emissions		
Annual Quantity (tons of CO2e)		
Non-electricity carbon emissions - % of annual carbon emissions		

Extreme Heat Mitigation - Site (Existing and Proposed)

Annual average temperature in Boston increased by about 2F in the past hundred years and will continue to rise due to climate change. By the end of the century, the average annual temperature could be 56° (compared to 46° now) and the number of days above 90° (currently about 10 a year) could rise to 90.

Note: please enter a value of 0 for any data/number requests that do not apply to your project.

Question	Response	Comment
Existing Hardscape - Percent of Site		
Proposed Hardscape - Percent of Site		
Existing Softscape - Percent of Site		
Proposed Softscape - Percent of Site		

Extreme Heat Mitigation - Urban Heat Island Reduction – Proposed Site and Building

Question	Response	Comment
Non-roof Landscape Area (SF)		
Non-roof Landscape Percent of Site (%)		
Non-roof Landscape - Area Meeting LEED Criteria (SF)		
Non-roof Landscape - SRI Value		
Non-roof Hardscape - Area (SF)		
Non-roof Hardscape Percent of Site (%)		
Non-roof Hardscape - Area Meeting LEED Criteria (SF)		
Non-roof Hardscape - SRI Value		
Roof Surface Area (SF)		
Roof Surface Percent of Site (%)		
Roof Surface Area Meeting LEED Criteria (SF)		
Roof Surface SRI Value		
Roof Vegetated Area (SF)		
Roof Vegetated Percent of Site (%)		
Roof Vegetated Area Meeting LEED Criteria (SF)		
Roof Vegetated SRI Value		
Total Area (SF)		
TOTAL Area Meeting LEED Criteria (SF)		
Total SRI Value (weighted average)		
Vertical Cool Wall Area (SF)		
Vertical Cool Wall Area Meeting LEED Criteria (SF)		
Vertical Cool Wall - Percent Meeting LEED Criteria		

Extreme Precipitation Mitigation - Storm Water Management - Site and Building

From 1958 to 2010, there was a 70 percent increase in the amount of precipitation that fell on the days with the heaviest precipitation. Currently, the 10-Year, 24-Hour Design Storm precipitation level is 5.25”. There is a significant probability that this will increase to at least 6” by the end of the century. Additionally, fewer, larger storms are likely to be accompanied by more frequent droughts.

Question	Response	Comment
Are any parcels across the entire project located in a Groundwater Conservation Overlay District (GCOD)?		
Permeable Site Surfaces - Area (SF)		
Permeable Site Surfaces - % of Site		
Impermeable Site Surfaces - Area (SF)		
Impermeable Site Surfaces % of Site (SF)		
Imp. Surfaces Water fr 1" of Rain (CF)		
Imp. Surfaces Water fr 1.25" Rain (CF)		
Roofs - Area (SF)		
Roofs - Percent of Site (SF)		
Roofs - Water from 1" of Rain (CF)		
Roofs - Water from 1.25" of Rain (CF)		
Total Area Precipitation Mitigation (SF)		
TOTAL - Water from 1'' of Rain (CF)		
TOTAL - Water from 1.25'' of Rain (CF)		
Rain Water Reuse - Type		
Rain Water Reuse - Amount (CF)		
Storm Water Reuse - Type		
Storm Water Reuse - Amount (CF)		
Green Infrastructure - Type		
Green Infrastructure - Amount (CF)		
Storm Water Retention - Type		
Storm Water Retention - Amount (CF)		

Question	Response	Comment
TOTAL Retention - Amount (CF)		

Sea Level Rise and Storms

Under any plausible greenhouse gas emissions scenario, sea levels in Boston will continue to rise throughout the century. This will increase the number of buildings in Boston susceptible to coastal flooding and the likely frequency of flooding for those already in the floodplain.

Question	Response	Comment
Is any portion of the site in a FEMA SFHA zone?		
Is any portion of the site in the BPDA Coastal Flood Resilience Overlay District? Use the online BPDA Zoning Viewer (http://maps.bostonredevelopmentauthority.org/zoningviewer/) to assess the susceptibility of the project site.		