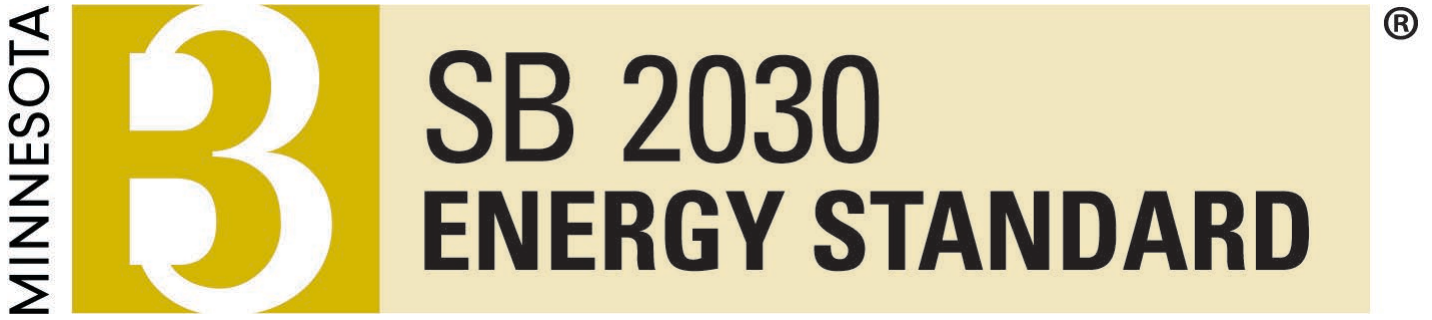




Guide to the Updated E1A&B Interface for SB 2030

[Center for Sustainable Building Research](#)
College of Design · University of Minnesota

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Introduction

This document is intended to provide guidance on the SB 2030 inputs in the B3 Guidelines Tracking Tool. The Tracking Tool interface was updated in late 2025, so if you used the tool prior to that point, it will now look a bit different (though the program requirements are unchanged). Changes have been made to the SB 2030 inputs for version 3.0, 3.1, and 3.2 of the program.

The tracking tool is organized into guidelines. The primary SB 2030 inputs are found under guidelines E.1A and E.1B, though with this recent update these two guidelines have been combined. Project teams must now submit both E.1A and E.1B at the same time.

For more information on navigating the B3 Guidelines Tracking Tool please see our guidance on that topic here: <https://b3mn.org/guidelines/training-and-education/>

Shown below is the E1A&B interface at the Final Design phase. Earlier phases will show some input areas – such as construction document uploads – greyed out if they aren’t required yet. The project gross square footage is shown at the top; this number is brought in from guideline P.0D. Therefore, if the square footage is incorrect, it needs to be updated in the input field for Guideline P.0D. Note that this is the SB 2030 project size - if there are other areas of the building that aren’t included in the SB 2030 project, this may be less than the total building area.

E.1A and E.1B SB 2030 Energy Standards — Mozilla Firefox

trackingtool.b3mn.org/SB2030EnergyStandards?ProjectID=2251&SubGuidelineID=E1A&PhaseID=303

Final Design
Energy Leader (Sample Team Member)

PD D FD CO

E.1A&B SB 2030 Energy Standards

REQUIRED
Read The Guideline

Fields in yellow are editable. Fields in blue are calculated. Fields in gray are not applicable or disabled at this phase.

Energy consumption data collected as part of the B3 and SB 2030 programs will generally be made publicly accessible, including on the B3 Case Studies Database.

SB 2030 Target

The SB 2030 Target is established using the SB 2030 Energy Standard Tool (EST), which can be launched using the button below. Multiple analyses can be run for testing, but only one can be assigned to each phase. These analyses can be managed using the “Manage Analyses” link below, which is available after the first launch of the tool.

E1A2A. [Click here to download the MN SB 2030 Compliance and Reporting Instructions](#)

E1A3. SB 2030 Project Size (input in guideline P.0D) Take care to ensure that the same gross project square footage is input in guideline P.0D as is used in the Energy Standard Tool. 50,000 sq. ft.

E1A3B. Which method are you using to calculate your Energy Standard? Energy Standard Tool

3 Launch the SB 2030 Energy Standards Tool

[Manage Analyses](#)

E1A4G. SB 2030 Reduction Requirement 90%

E1A5K. SB 2030 Energy Standard 10.8 kBtu/s.f./yr.

E1A8E. SB 2030 Carbon Standard 4.3 lb.CO2e/s.f./yr

This document is organized following the sections of the E.1A&B interface – SB 2030 Target, Energy Use, On-site Renewable Energy Generation, On-site Target, Off-Site Renewable Energy, Key Performance Indicators, Design Documents, and Simulation Documentation.

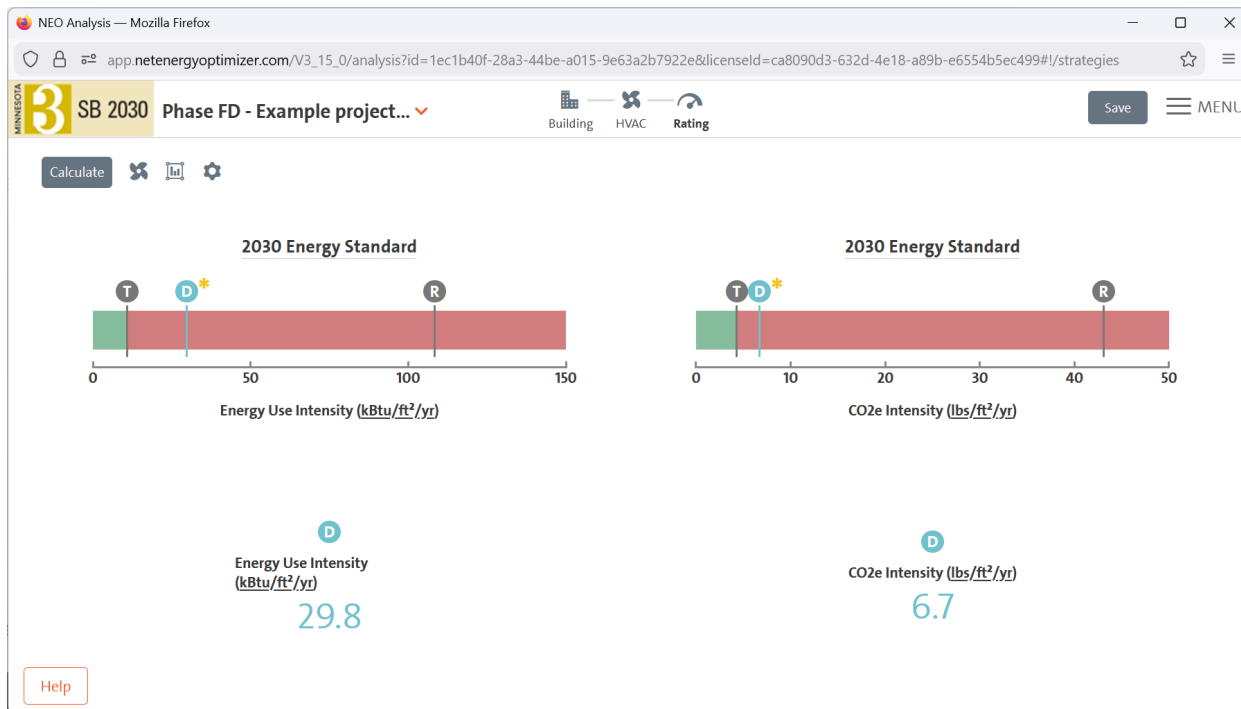
SB 2030 Target

The top section is called “SB 2030 Target”. This is where the team uses the Energy Standard Tool to determine and set the SB 2030 target for the project. Note the question in E1A3B – “Which method are you using to calculate your Energy Standard?” The vast majority of projects set their SB 2030 target, or “standard” using the Energy Standard Tool (EST). If this needs to be modified, please contact program administrators as this requires an administrator-level change. Note that in earlier versions of the program, if a project was pursuing the “Small Building Method” to meet SB 2030, that would require a change to this selection. That change is no longer needed.

There are two SB 2030 targets - Energy Use Intensity and Carbon Use Intensity (abbreviated as EUI and CUI). They are both “net” targets, meaning they include both efficiency measures (to reduce energy consumption) and renewable energy (to generate it).

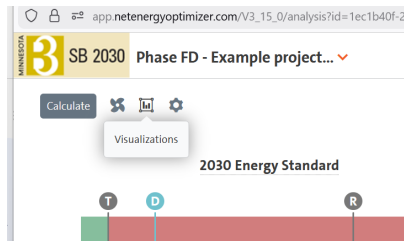
Below the button that launches the energy standard tool is listed the percentage reduction requirement (e.g. 80%, 90%). This is the reduction taken from our program’s 2003 baseline and is used to calculate the energy and carbon targets. If the percentage reduction is incorrect, please contact program administrators.

Clicking the button “Launch the SB 2030 Energy Standards Tool” will launch the EST. This document doesn’t cover details on how to use the EST, however there are a few things to highlight.

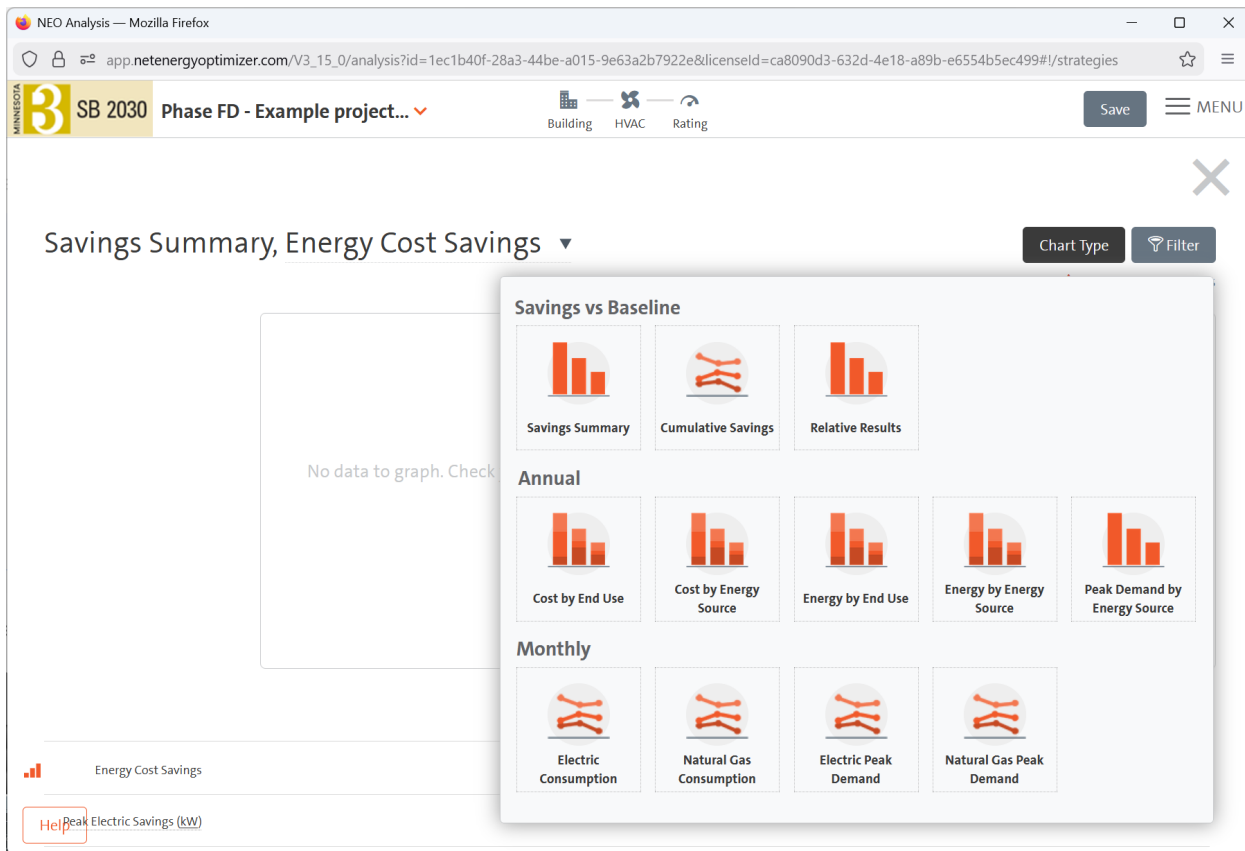


The EST is an online building energy modeling tool that is embedded within the B3 Guidelines Tracking Tool. It is both used to establish the SB 2030 Standards for projects and can also be used to evaluate the design performance. The EST does not let you skip specifying an HVAC system—though it is important to note that the only thing impacting the SB 2030 target setting from the “HVAC” tab is whether the project is using district heating and/or cooling.

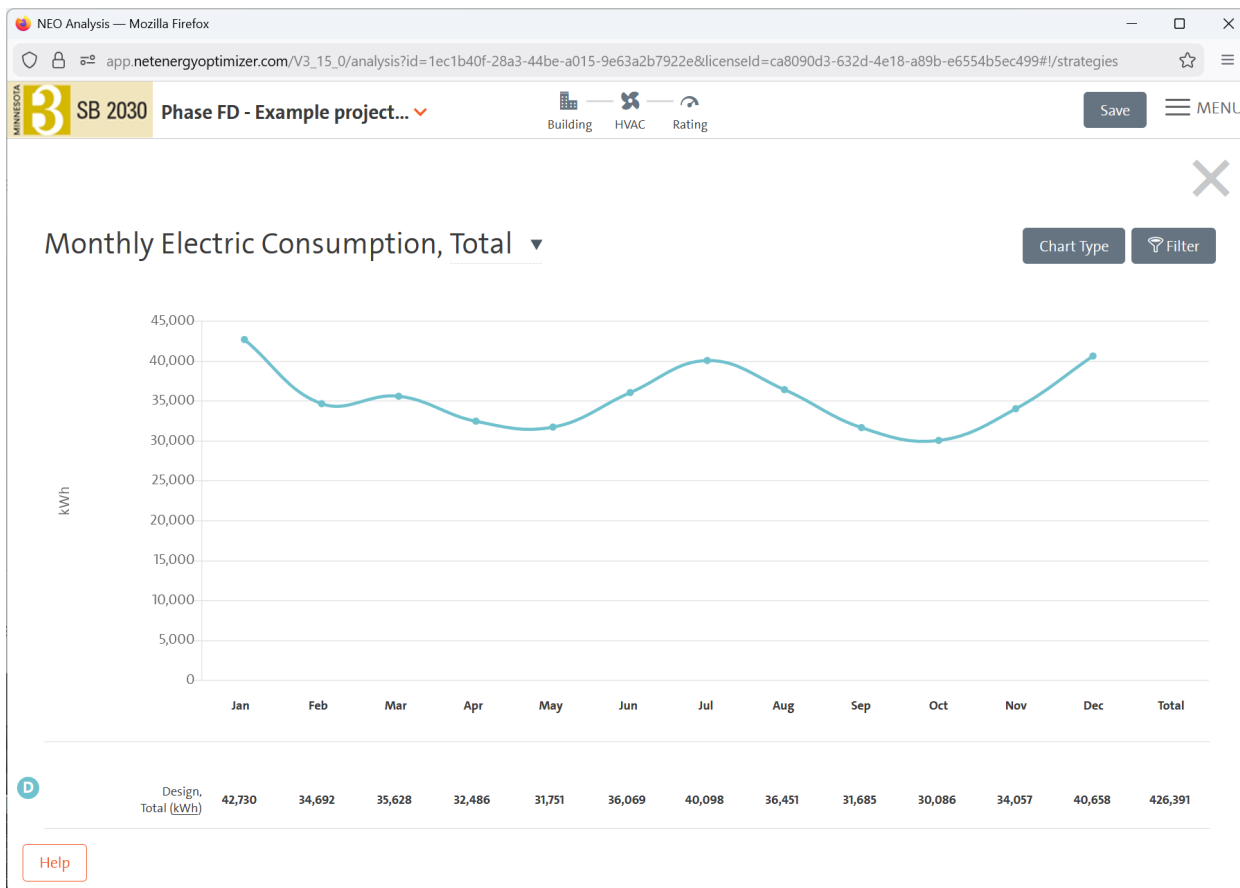
When an energy simulation is run in the EST, the tool automatically calculates both the SB 2030 carbon and energy target based on the modeled building and the specified reduction percentage. While the targets automatically import back into the E1A&B interface (discussed in more detail below), the simulated monthly energy consumption outputs do not transfer back to the Tracking Tool. They need to be manually copied. The monthly consumption values can be found by clicking the “visualization” button to the right of the “calculate” button in the EST:



That will bring up the option to show monthly consumption values, broken down by electricity and natural gas consumption.

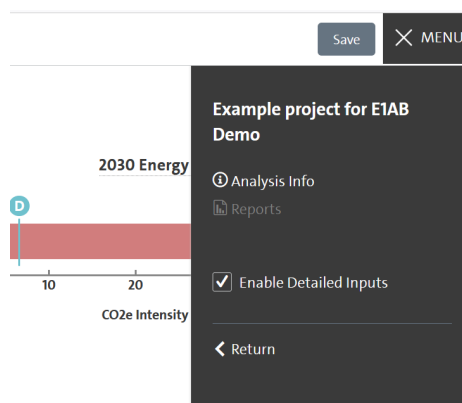


You may need to hit “Calculate” in the EST to populate or update data in these charts.



To ensure that the SB 2030 energy and carbon target values are transferred back to the Tracking Tool, please make sure to follow these steps:

- 1) click the “Calculate” button to run savings measures, then
- 2) click “Save” to capture them, then
- 3) “Return” (from the menu at the upper right of this window) to get out of the EST and back to the Tracking Tool:



Also note that back in the Tracking Tool there is a link to the “analysis manager” for the EST, which can be used to access all of the EST models associated with the project the project. (If you are working with older versions of the EST, you may not see the link to this manager). In the analysis manager you can create new models, launch, clone, rename, and assign models to various phases of the tracking tool. Clicking “return” takes you back to the main E1A&B interface:

Analysis Manager — Mozilla Firefox

trackingtool.b3mn.org/AnalysisManager?ProjectID=2251&PhaseID=303&SubGuidelineID=E1A

Analysis Manager

Phase: FD

The Analysis Managers allows you to manage SB 2030 analyses associated to this phase. The table shows all analyses associated to this project.

- The Active column button lets you select the analysis to assign to this phase
- Analyses already assigned to another phase are disabled and greyed out. An analysis cannot be assigned to more than one phase
- Analyses can be cloned, renamed and deleted by clicking the appropriate button in the Actions column
- Analyses already associated to phases are not allowed to be deleted

4 analyses.

Active	Name	Created	Modified	NEO Version	Assigned Phase	Actions
☐	Phase D	03/11/2026 1:26 PM	03/11/2026 1:26 PM	3.15.8	-	
☒	Phase FD	03/09/2026 4:16 PM	03/09/2026 5:46 PM	3.15.8	FD	
☐	Phase FD Geothermal	03/11/2026 1:26 PM	03/11/2026 1:26 PM	3.15.8	-	
☐	Phase PD	03/11/2026 1:26 PM	03/11/2026 1:26 PM	3.15.8	-	

Return

Once the EST simulation has been run and results saved following the above steps, you should see the SB 2030 Energy and Carbon targets populate in the E1A&B interface. If they do not show up there, the EST may not have been given enough time to run the model. Please navigate back to the Energy Standard Tool and perform the steps again - “calculate”, “save” and “return” - as noted above.

E.1A and E.1B SB 2030 Energy Standards — Mozilla Firefox

trackingtool.b3mn.org/SB2030EnergyStandards?ProjectID=2251&SubGuidelineID=E1A&PhaseID=303

Final Design

Energy Leader (Sample Team Member)

PD D **FD** CO

E.1A&B SB 2030 Energy Standards

REQUIRED
[Read The Guideline](#)

Fields in yellow are editable. Fields in blue are calculated. Fields in gray are not applicable or disabled at this phase.

Energy consumption data collected as part of the B3 and SB 2030 programs will generally be made publicly accessible, including on the B3 Case Studies Database.

SB 2030 Target

The SB 2030 Target is established using the SB 2030 Energy Standard Tool (EST), which can be launched using the button below. Multiple analyses can be run for testing, but only one can be assigned to each phase. These analyses can be managed using the “Manage Analyses” link below, which is available after the first launch of the tool.

E1A2A. [Click here to download the MN SB 2030 Compliance and Reporting Instructions](#)

E1A3. **SB 2030 Project Size (input in guideline P.0D) Take care to ensure that the same gross project square footage is input in guideline P.0D as is used in the Energy Standard Tool.** sq. ft.

E1A3B. Which method are you using to calculate your Energy Standard?

Launch the SB 2030 Energy Standards Tool

[Manage Analyses](#)

E1A4G. **SB 2030 Reduction Requirement**

E1A5K. **SB 2030 Energy Standard** kBtu/s.f./yr.

E1A8E. **SB 2030 Carbon Standard** lb.CO2e/s.f./yr

Energy Use

The next section of the E1A&B interface is labeled “Energy Use” and is where the simulated energy use of the project is captured:

Energy Use
Enter gross monthly site energy consumption estimates from the simulation. Use the total amount of energy needed to operate the building and the site, regardless of whether it will be generated on the project site. Do not subtract on-site renewable energy from the values input in this section.

Energy type	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Total (kBtu/yr)	Total (lb.CO2e/yr)
Electricity	kWh	42,730	34,692	35,628	32,486	31,751	36,069	40,091	36,451	31,685	30,086	34,057	40,658	426,391	1,454,846	51,235
	kWh															
	kWh															
Total:														1,454,846		51,235

Add More Rows...

E1B2A. Gross Energy Use

29.10

kBtu/s.f./yr.

E1B2B. Gross Carbon Emissions

1.02

lb.CO2e/s.f./yr

Input the energy consumption values from your chosen design model. These values will need to be input manually. Please confirm that the units selected match those from your model. Shown below this table are the gross energy and carbon used by the project, before the application of renewables. Do not include the impact of renewables in this table; those are collected in the next section.

On Site Renewable Energy Generation

The next section of the E1A&B interface is labeled “On Site Renewable Energy Generation” and is where any on-site renewable energy production is captured:

On Site Renewable Energy Generation
E1B30. Enter energy production monthly or annually? Monthly
Enter any on-site or on-campus renewable energy production assigned to the project. Do not include any renewable energy production where the RECs have been sold or are otherwise unavailable for retirement on behalf of this SB 2030 project. Input renewable energy production as positive values. Note that renewable energy sources need to meet the definition of renewable energy in Minnesota Statute 216b.1691.

Energy type	Units	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Total (kBtu/yr)	Total (lb.CO2e/yr)
On-site solar ph	kWh	3,652	4,282	5,744	6,271	7,329	7,365	7,128	6,520	10,461	4,514	2,957	2,543	68,766	234,630	8,263
Total:														234,630		8,263

Add More Rows...

E1B45A. On-Site Energy Produced

4.69

kBtu/s.f./yr.

E1B45B. On-Site Carbon Avoided

0.17

lb.CO2e/s.f./yr

E1B46U. On-Site Energy

24.41

kBtu/s.f./yr.

E1B46V. On-Site Carbon

0.85

lb.CO2e/s.f./yr

Select the type and enter the amount of on-site renewable energy generated. This can be input as a monthly or annual value. The on-site energy produced is subtracted from the values in the “Energy Use” table above to provide On-Site Energy and On-Site Carbon values. Do not enter any renewable energy production where the renewable energy certificates have been sold or are otherwise unavailable for retirement on behalf of this project. This can sometimes happen if the project is taking advantage of utility incentives.

On-Site Target

The next section of the interface is the “On-Site Target.” Project teams that have exhausted all cost-effective measures on the project site (including on-site renewables) and which are still not fully able to meet the SB 2030 Target may establish an “On-Site Energy Target.” This target represents the EUI achievable by implementing all cost-effective measures. The definition of cost-effective varies with which version of the program a project falls under. The current 90%-Better program uses the following simple paybacks to establish cost-effectiveness:

Table 1. SB 2030 simple payback thresholds to determine cost-effectiveness of individual measures, excerpted from [SB 2030 in 2025: Program Update](#)

MEASURE CATEGORIES	MEASURE LIFE	SIMPLE PAYBACK
Lighting (fixtures & controls) Water Heaters Low Flow Showerheads Thermostats	10 years	9 years
HVAC Equipment (except boilers and chillers) HVAC Controls (except thermostats) Appliances	15 years	14 years
Boilers and Chillers	20 years	17 years
Renewable Energy (Solar Photovoltaic and Wind)	25 years	20 years
Building Envelope	30 years	24 years

It is necessary to engage the SB 2030 Review Team to confirm that all cost-effective measures are implemented and determine the On-Site Target. The project team’s proposed On-Site Energy Target can be input in this section. If confirmed, the SB 2030 Review Team will input the Preliminary and Final On-Site Energy Targets and provide associated memos, which document how the project is meeting SB 2030.

On-Site Target

If the project needs to bring in renewable resources from outside of the project site/campus in order to meet the SB 2030 target, it is necessary to engage the SB 2030 review team to assist in the establishment of an "on-site target" - this is done as part of the design phase submission for the project and updated during the final design submission.

E1B51E. Proposed On-Site Energy Target.....	25 kBtu/s.f./yr.
E1B51G. On-Site Energy Target Status (Admin input).....	Preliminary Proposed
E1B51I. Preliminary On-Site Energy Target (Admin input).....	25 kBtu/s.f./yr.
E1B51K. Preliminary On-Site Target Memo.....	
E1B51M. Final On-Site Energy Target (Admin input).....	kBtu/s.f./yr.
E1B51O. Final On-Site Target Memo.....	

Off-Site Renewable Energy

The next section – “Off-Site Renewable Energy” - is where the energy generation from off-site renewables is input. Based on the version of the program, there may be a “procurement factor” of 0.2 applied to unbundled renewable energy certificates. This procurement factor discounts the value of unbundled RECS by 80%, effectively requiring a larger procurement. Either monthly or annual values can be input in this section. Contact SB 2030 administrators if there are questions on qualifying off-site resources not listed here. Do not enter any renewable energy production where the renewable energy certificates have been sold or are otherwise unavailable for retirement on behalf of this project.

Shown below this table is the offsite total energy contributing to the SB 2030 project and the Net Energy and Net Carbon values (including both on- and off-site resources).

Off-Site Renewable Energy

Enter all off-site renewable energy production assigned to the project. Do not include any renewable energy production where the RECs have been sold or are otherwise unavailable for retirement on behalf of this SB 2030 project. Input renewable energy production as positive values. Note that renewable energy sources need to meet the definition of renewable energy in statute 216b.1691 and is needed for a period of 10 years. Also note that for projects pursuing the 90%-better SB 2030 Target a procurement factor of 0.20 is applied to unbundled RECs. Please input monthly or annual values (not the entire 10-year amount).

E1B60. Enter energy production monthly or annually?

Annually

Enter all off-site renewable energy production assigned to the project and identify the type of renewable resource used.

Energy type	Units	Total	Procurement Factor	Total (kBtu/yr)	Total (lb.CO2e/yr)
In-portfolio renewable energy system	kWh	203,685	1.0	694,973	24,475
Total:				694,973	24,475

Add More Rows...

E1B65A. Offsite Total Energy

13.90

kBtu/s.f./yr.

E1B65B. Offsite Total Carbon

0.49

lb.CO2e/s.f./yr

E1B66A. Net Energy (On- and Off-Site)

10.51

kBtu/s.f./yr.

E1B66B. Net Carbon (On- and Off-Site)

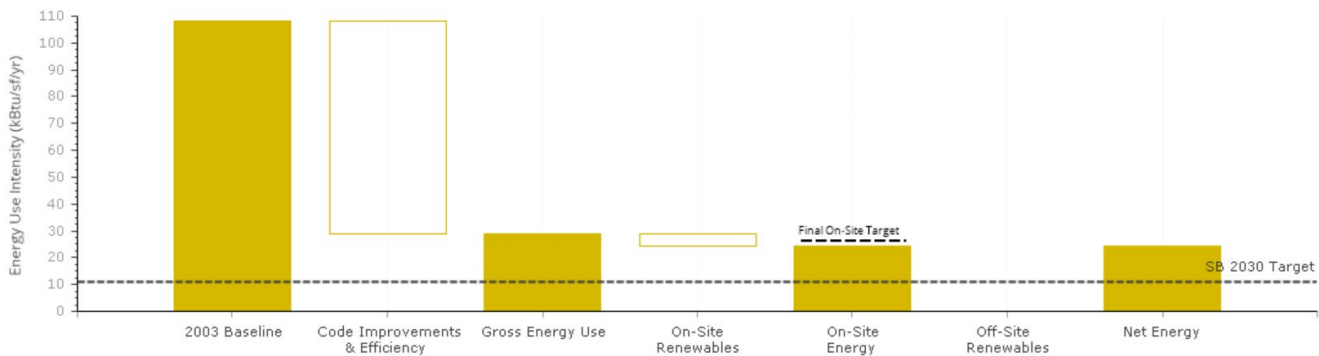
0.36

lb.CO2e/s.f./yr

Key Performance Indicators

This section contains a graph of the Key Performance Indicators for the project, shown as an EUI and starting from the program's SB 2030 Baseline on the left – an average building matching the project's space use program characteristics in 2003. The SB 2030 Energy Target is represented by a dotted line across the entire graph. At the far right, the project's Net Energy must be equal to or less than the SB 2030 Target. In the example shown below, the project would need additional efficiency measures, more on-site renewable energy, and/or some off-site renewable energy to meet the SB 2030 target. As discussed in SB 2030 program documentation, off-site renewables are only allowed to count towards reducing the net energy of a project **after** a cost-effectiveness threshold is reached for on-site renewables and building efficiency. This threshold is known as the On-Site Target and represents an EUI achievable by all cost-effective measures (both efficiency and renewable energy). If established this is shown as a dotted line in the On-Site Energy column.

Key Performance Indicators



Design Documents

Next is the “Design Documents” section – where the project team uploads design documents. Note that much of this section is greyed out and not required at earlier phases, but a complete picture of the project is needed at the Final Design submission for review and documentation purposes. Note that the tool currently has a max file size of 256MB.

Design Documents		
E1B4. Provide basic project information by uploading the SB 2030 Building Strategy Checklist, Basis of Design, or equivalent documentation. See Building Strategy Checklist for requested information.	Building Strategy Ch (15 KB) 3/10/2026 2:25:19 PM Browse... No file selected.	
E1B10. Final Design Phase only: Upload Meter Plan	Meter Plan[00007].pd (15 KB) 3/10/2026 2:25:19 PM Browse... No file selected.	
E1B6. Final Design Phase only: Upload Architectural Documents (zip file)	ARCH Set.pdf (15 KB) 3/10/2026 2:25:19 PM Browse... No file selected.	
E1B7. Final Design Phase only: Upload Mechanical Documents (zip file)	MECH Set.pdf (15 KB) 3/10/2026 2:25:19 PM Browse... No file selected.	
E1B8. Final Design Phase only: Upload Electrical Documents (zip file)	ELEC Set.pdf (15 KB) 3/10/2026 2:25:19 PM Browse... No file selected.	
E1B8A. Final Design Phase only: Upload Project Manual and Technical Specifications	Project Manual.pdf (15 KB) 3/10/2026 2:25:19 PM Browse... No file selected.	
E1B11. Upload Additional Documentation (if needed)	Additional Documenta (15 KB) 3/10/2026 2:25:19 PM Browse... No file selected.	
E1B11A. Upload Additional Documentation (if needed)	Browse... No file selected.	
E1B11B. Upload Additional Documentation (if needed)	Browse... No file selected.	

Simulation Documentation

Lastly, the section for simulation documentation contains open slots to upload simulation model documentation. More information on the required documentation for energy simulations can be found in the [SB 2030 Building Performance Evaluation Guide](#).

Simulation Documentation

E1B5. Upload Energy Model Documentation

Energy Model Document (15 KB)

3/10/2026 2:25:19 PM

Browse...

No file selected.

E1B5A. Energy Simulation Software, if using the embedded energy model within the Energy Standard Tool please select "As-Designed Energy Model."

As-Designed Energy Model

E1B5B. If using the Small Building Method: Which prescriptive standard used

Unselected

E1B5C. Upload Zoner Diagram

Zoner Diagram[00001] (15 KB)

3/10/2026 2:25:19 PM

Browse...

No file selected.

E1B11C. Upload Additional Simulation Documentation (if needed)

Additional Energy Mo (15 KB)

3/10/2026 2:25:19 PM

Browse...

No file selected.

E1B11D. Upload Additional Simulation Documentation (if needed)

Browse...

No file selected.

E1B11E. Upload Additional Simulation Documentation (if needed)

Browse...

No file selected.

Notes

Submission Complete (Pending Review)

☐ I agree that the above information is correct and complete. Signed by Sample Team Member on 3/10/2026 2:25 PM

Save & Close

Cancel

Once completed, the project can be submitted for review. Note that it is possible to Save and Close without submitting if you are still working on these inputs. That is done by ensuring the checkbox next to "I agree that above information is correct and complete..." is *unchecked* before clicking the "Save and Close" button.

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