

Compliance Forms— Energy Cost Budget Method

The following pages provide a sample compliance form—the Energy Cost Budget (ECB) Compliance Report form—that conforms to the requirements of ASHRAE/IES Standard 90.1-2016. An electronic version may be downloaded from ASHRAE’s website.

This form is intended for use with the Energy Cost Budget (ECB) Method (Section 11) when a compliance shell is not used. If a compliance shell is used, it should automatically generate a version of the compliance report. If this form is used instead, the user should fill in the form using information taken from the output reports of the simulation program.

In addition to this form, the user should submit completed forms from the other chapters of the User’s Manual. Those forms document the proposed design and its features, and they also make it clear where the proposed design under the ECB Method differs from the prescriptive requirements. Finally, as noted at the bottom of this form, the user should provide a list that describes all instances where input assumptions differ between the budget building and proposed design runs.

The ECB Compliance Report has several sections designed to make clear to the enforcement personnel what the building characteristics are and how the ECB Method has been applied to it.

Project Name and Information

This section begins with a basic statement that the project complies with the Standard and notes the date of the plans upon which the compliance runs are based. This section also records basic information about the project, the people involved, the heating fuel, and the weather data used for the ECB analysis. There is also space to summarize the areas and uses within the building.

Advisory Messages

This section reports information from the simulation runs that is helpful in identifying modeling problems or special situations.

Compliance Result

This final section is prepared by the person responsible for the compliance submittal to the authority having jurisdiction.

Energy and Energy Cost Summary

These sections summarize the energy use breakouts by end use and by fuel type. They also show the percent difference between the proposed and the budget buildings. When the percentage value is less than 100%, then the proposed design is better than the budget. For compliance, the cost percent difference for “Total including solar” must be less than or equal to 1.

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Project Name:		
Project Address:		Date:
Designer of Record:	Email:	Telephone:
Contact Person:	Email:	Telephone:
City:		Principal heating source: <input type="checkbox"/> Fossil fuel <input type="checkbox"/> Electricity <input type="checkbox"/> Solar/site recovered <input type="checkbox"/> Other
Weather Data:		

Space Summary

Building Use	Conditioned Area (ft ² or m ²)	Unconditioned Area (ft ² or m ²)	Total
Total			

Advisory Messages

	Proposed Building Design	Budget Building	Difference Proposed/Budget
Number of hours heating loads not met			
Number of hours cooling loads not met			
Number of warnings			
Number of errors			
Number of defaults overridden			

Compliance Result

The design detailed in the above-referenced plans complies with the mandatory provisions of ANSI/ASHRAE/IES Standard 90.1-2016 and the design energy cost does not exceed the energy cost budget. Therefore, this design **DOES COMPLY** with the ANSI/ASHRAE/IES Standard 90.1-2016 ECB compliance methodology.

Individual certifying authenticity of the data provided in this analysis:

Signature	Title
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Project Name:		
Contact Person:	Email:	Telephone:

Energy and Cost Summary by Fuel Type*

End Use	Energy Type	Proposed Building		Budget Building		Proposed / Budget Energy (%)
		Energy 10 ⁶ Btu/yr (GJ/yr)	Peak 10 ³ Btu/h (kW)	Energy 10 ⁶ Btu/yr (GJ/yr)	Peak 10 ³ Btu/h (kW)	
Lighting—conditioned						
Lighting—unconditioned						
Space heating (1)						
Space heating (2)						
Space cooling						
Pumps						
Heat rejection						
Fans—interior ventilation						
Fans—interior exhaust						
Fans—parking garage						
Service water heating						
Office equipment						
Elevators and escalators						
Refrigeration (food, etc.)						
Cooking (commercial)						
Total building consumption						

Energy Summary by End Use*

	Proposed Building		Budget Building		Proposed / Budget	
	Energy (10 ⁶ Btu/yr or GJ/yr)	Cost (\$/yr)	Energy (10 ⁶ Btu/yr or GJ/yr)	Cost (\$/yr)	Energy (%)	Cost (%)
Electricity						
Natural gas						
Other fossil fuel						
District steam						
Total nonsolar						
Solar or site recovered						
Total including solar						

*These results use assumptions for showing compliance during a typical year; actual energy costs may be substantially different.