

NAVFAC SUSTAINABILITY AND ENERGY DATA --- NEW CONSTRUCTION & MAJOR RENOVATION

PROJECT INFORMATION

Work Order No.: _____ FY _____ MILCON P No. / Customer Reference No.: _____
 Project Title: _____
 Location/UIC: _____
 NAVFAC Project Manager: _____ Project Dollar Amount \$: _____
 Project Type: _____ Project Design Level: _____
 Facility Area: _____ U/M: _____ Category Code: _____ Facility #: _____
 AE Contract # & T.O. _____ AE Firm Sustainability Coordinator: _____
 AE Firm Name: _____
 Project Phase: _____ Solicitation Documents Complete (Draft) _____ Construction Complete (Final) _____
 Construction Contract & T.O. _____ Award Date (P/A): _____ BOD (P/A): _____
 Construction Contractor: _____
 Contractor's Sustainability Coordinator: _____

SUSTAINABILITY DATA - GUIDING PRINCIPLES for SUSTAINABLE NEW CONSTRUCTION and MAJOR RENOVATION

Use this form to collect design and as-constructed project information to be recorded on the Sustainable and Energy Tab in eProjects

Provide justification for each target missed:

Sustainability Third Party Rating System: USGBC LEED Not Applicable GBI Green Globes Other

A Sustainability Certification Level - Target
 LEED Silver 2 Globes Other

Identify "Other" certification system and target level _____

B Sustainability Certification Level - Achieved
 LEED Certified 1 Globe LEED Silver 2 Globes LEED Gold 3 Globes LEED Platinum 4 Globes Not Met Other

Identify "Other" certification system and level achieved _____

I. Employ Integrated Design Principles
 I.a Integrated Assessment, Operation, and Management Included Not Included
 I.b Commissioning (Select one)
 Commissioning No Commissioning

Systems Commissioned: _____

II. Optimize Energy Performance
 II.a Energy Efficiency
 i Energy Reduction 30% target _____
 ii Efficiency Standard
 90.1 - 2004 90.1 - 2007 90.1 - 2010
 a. Total Design Energy Use Intensity (EUI): kBTU/Sq Ft/Year _____
 iii New Technology: Provide description _____

II.b On-Site Renewable Energy
 i. Solar Hot Water 30% target _____
 ii. Renewable energy technology types (select all that apply)
 Daylighting Ground Source Heat Pumps Solar Photovoltaic
 Geothermal Mechanical (i.e., direct water pumping) Solar Thermal -domestic hot water
 Wind Solar Thermal -space conditioning
 iii. Sustainable Roof Attribute (Select all that apply)
 Cool - white Cool - reflective Solar PV Solar Thermal Vegetated

II.c Building-level Metering (Measurement)
 Included Not Included

III. Protect and Conserve Water
 III.a Indoor Water
 i Reduce potable water _____
 ii Building-level Metering (Measurement) Included Not Included
 a. Total Design Indoor Water Use Intensity (WUI): Gallons/Sq Ft/Year _____

III.b Outdoor Water
 i Reduce landscape water 50% below conventional 100% Not Met

IV. Enhance Indoor Environmental Quality
 IV.a Ventilation and Thermal Comfort
 i Thermal Environmental Conditions Met Not Met
 ii Ventilation Met Not Met
 IV.b Moisture Control Plan Included Not Included
 IV.c Daylighting
 i Minimum Daylight Met Not Met
 ii Automatic dimming controls Included Not Included
 IV.d Low-Emitting Materials Met Not Met

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IV.e Protect Indoor Air Quality during Construction		Met	Not Met
V. Reduce Environmental Impact of Materials			
V.a Recycled Content: www.epa.gov/cpg		Met	Not Met
V.b Biobased Products	Met	Not Met	
V.c Waste and Materials Management			
i. Waste Diversion (50% target)			
ii. Waste Management	Included	Not Included	
V.d Ozone Depleting Compounds	Met	Not Met	

To maintain prior project sustainability information, print and upload a copy of the completed worksheet to the Notes tab as Design & Criteria note BEFORE updating the tab.

GUIDANCE ON CALCULATION FOR EUI & WUI

- 1 The EUI must be calculated as the total Design Energy Consumption per year (including savings from renewables) divided by the total Building Area (including unconditioned indoor space).
 - a. The total Design Energy Consumption can be found in the Energy Cost Budget (ECB) Compliance Report. The Design Energy Consumption is in the Energy Summary by End Use Table at the bottom of page 2 of the ECB Report. The value is listed as Total Including Solar for the Proposed Building. It is the first field on the bottom row. (Units in the ECB Report are 10⁶ Btu/yr, so multiply by 1000 to yield kBtu/yr)
 - b. The total Building Area (including unconditioned indoor spaces) can be found in the Energy Cost Budget (ECB) Compliance Report in the Space Summary Table on page 1 of the ECB Report. The value is listed as Total (area) including Conditioned area and Unconditioned area. Insure the units are in square feet

- 2 The WUI must be calculated as the total Design Indoor Potable Water Consumption per year divided by the total Building Area (including unconditioned space).
 - a. The total Design Water Consumption can be found in the LEED WE P1 water consumption calculation or Green Globes 3.4.1.1 Water Consumption calculation. The value is the Design Case – Annual Potable Water Consumption. It is listed in units of Gallons/year
 - b. The total Building Area (including unconditioned spaces) can be found in the Energy Cost Budget (ECB) Compliance Report in the Space Summary Table on page 1 of the ECB Report. The value is listed as Total (area) including Conditioned area and Unconditioned area. Insure the units are in square feet

NAVFAC SUSTAINABILITY AND ENERGY DATA -- RENOVATIONS >\$2.5M &<50% PRV; OR ENERGY

PROJECT INFORMATION

Work Order No.: _____ Budget FY _____ Customer Reference No.: _____
 Project Title: _____
 Location/UIC: _____
 NAVFAC Project Manager: _____ Estimated Cost/PA: _____
 Project Type: _____ Project Design Level: _____
 Facility Area: _____ U/M: _____ Category Code: _____ Facility #: _____
 AE Contract # & T.O. _____ AE Firm Sustainability Coordinator: _____
 AE Firm Name: _____
 Project Phase: _____ Solicitation Documents Complete (Draft) _____ Construction Complete (Final) _____
 Construction Contract & T.O. _____ Award Date (P/A): _____ BOD (P/A): _____
 Construction Contractor: _____
 Contractor's Sustainability Coordinator: _____

SUSTAINABILITY DATA - GUIDING PRINCIPLES for SUSTAINABLE EXISTING BUILDINGS

Use this form to collect design and as-constructed project information to be recorded on the Sustainable and Energy Tab in eProjects.

Provide justification for each target missed:

I. Employ Integrated Assessment, Operation, and Management Principles

I.a Integrated Assessment, Operation, and Management	Included	Not Included
I.b Commissioning (Select one)		
Commissioning		
No Commissioning		
Re-Commissioning		
Retro-Commissioning		

Systems Commissioned

II. Optimize Energy Performance

II.a Energy Efficiency				
i Energy Reduction Below Baseline (20% target)	_____ %			
ii Efficiency Standard (Select one)				
Energy Star 75 or higher		Building Baseline 2003		
ASHRAE 90.1-2007		ASHRAE 90.1-2010		
a. Total Design Energy Use Intensity (EUI):	kBTU/Sq Ft/Year			
iii New Technology: Provide description				
II.b On-Site Renewable Energy				
i. Solar Hot Water Demand (30% target)				
ii. Renewable energy technology types (Select all that apply)				
Daylighting		Ground Source Heat Pumps		Solar Photovoltaic
Geothermal		Mechanical (i.e., direct water pumping)		Solar Thermal -domestic hot water
Wind				Solar Thermal -space conditioning
iii. Sustainable Roof Attribute (Select all that apply)				
Cool - white		Cool - reflective	Solar PV	Solar Thermal
Cool - reflective		Included	Not Included	Vegetated
II.c Building-level Metering (Measurement)				

III. Protect and Conserve Water

III.a Reduce Indoor Water			
i Choose Option (Select one)			
20% below IPC or IBC		20% below bldg baseline 2003	
ii Reduce potable water (percent)	_____ %		
ii Building-level Metering (Measurement)		Included	Not Included
a. Total Design Indoor Water Use Intensity (WUI):	Gallons/Sq Ft/Year		
III.b Reduce landscape water (Select one)		50% below conventional	50% below building baseline 2003
			100%

IV. Enhance Indoor Environmental Quality

IV.a Ventilation and Thermal Comfort			
i Thermal Environmental Conditions	Met	Not Met	
ii Ventilation	Met	Not Met	
IV.b Moisture Control Plan	Included		Not Included
IV.c Daylighting and Lighting Controls			
i Daylighting and lighting controls (Select one)		2% in 50% of occupied spaces	Not Met
		50% occupant control	
ii Automatic lighting controls	Included		Not Included
IV.d Low-Emitting Materials	Met	Not Met	
IV.e Protect Indoor Air Quality during Construction	Met		Not Met

V. Reduce Environmental Impact of Materials

V.a Recycled Content: www.epa.gov/cpg	Met	Not Met
V.b Biobased Products	Met	Not Met
V.c Waste and Materials Management		
i Waste Diversion - 50% target	_____ %	
ii Waste Management	Included	Not Included
V.d Ozone Depleting Compounds	Met	Not Met

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GUIDANCE ON CALCULATION FOR EUI & WUI

- 1 The **EUI** must be calculated as the total Design Energy Consumption per year (including savings from renewables) divided by the total Building Area (including unconditioned indoor space).
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 - b. The total Building Area (including unconditioned indoor spaces) can be found in the Energy Cost Budget (ECB) Compliance Report in the Space Summary Table on page 1 of the ECB Report. The value is listed as Total (area), including Conditioned area and Unconditioned area. Insure the units are in square feet

- 2 The **WUI** must be calculated as the total Design Indoor Potable Water Consumption per year divided by the total Building Area (including unconditioned space).
 - a. The total Design Water Consumption can be found in the LEED WE P1 water consumption calculation or Green Globes 3.4.1.1 Water Consumption calculation. The value is the Design Case – Annual Potable Water Consumption. It is listed in units of Gallons/year
 - b. The total Building Area (including unconditioned spaces) can be found in the Energy Cost Budget (ECB) Compliance Report in the Space Summary Table on page 1 of the ECB Report. The value is listed as Total (area), including Conditioned area and Unconditioned area. Insure the units are in square feet