

**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  GBI Green Globes  
 Not Applicable  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  LEED Silver  LEED Gold  LEED Platinum  Not Met  
 1 Globe  2 Globes  3 Globes  4 Globes  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

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

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](http://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 10<sup>6</sup> 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 #: \_\_\_\_\_  
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 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  Vegetated  
 II.c Building-level Metering (Measurement)  
 Included  Not Included

**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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