

CASE STUDY TEMPLATE INSTRUCTIONS: The WBDG is seeking case study examples that demonstrate the Whole Building Design process. This template has been developed to get at information specific to that process so that others may learn and implement these concepts into future projects. Please insert text in all sections as requested. Maximum words counts have been provided. If information is not available or not applicable to the project, simply type N/A in the space. For case study examples, please see <http://www.wbdg.org/references/casestudies.php>.

GENERAL INFORMATION

Building Name:

Building Location: City: State: Country:

Project Size (ft², m²):

Building Type(s):

Project Type:

Delivery Method:

Total Building Costs: Cost/ft² or Cost/m²

Owner:

Building Architect/Project Team:

Project Contact Person:

DESCRIPTION

1. Enter a short description of this project including the number and scope of buildings, history and completion date, site conditions/context, and community.
(250 words)

2. Enter a description of the significant aspects of the project including a synopsis of project goals that address each of the following topics: accessible, aesthetic, cost-effective, functional, historic preservation, productive, secure/safe, and sustainable.
(900 words)

Overall Project Goal/Philosophy:

Secure/Safe Goal:

Sustainable Goal:

Functional Goal:

Accessible Goal:

Aesthetic Goal:

Cost-Effective Goal:

Historic Preservation Goal:

Productive Goal:

Other Significant Aspects of the Project:

PROCESS

Describe each phase of the process in detail and how the above listed topics were addressed. Describe both positive and negative aspects of the process.

Project Phases include: Pre-design/Planning, Design, Construction, Operations/Maintenance, and Post-occupancy evaluation.

(450 words)

Overview of Process:

Pre-Design/Planning Activities:

Design Activities:

Construction Activities:

Operations/Maintenance Activities:

Post-Occupancy Evaluation Activities:

INFORMATION AND TOOLS

List up to five information resources and/or software tools that were utilized in the design/construction of the project. If the Whole Building Design Guide website was utilized, describe aspects of the website that were most effective.

(75 words)

PRODUCTS AND SYSTEMS

Describe how building materials, systems and product selection addressed the following topics: accessible, aesthetic, cost-effective, functional, historic preservation, productive, secure/safe, and sustainable.

(350 words)

ENERGY ISSUES

Energy Use Description

Describe how energy-related issues were addressed in this project.

(100 words)

Annual energy use by fuel

Electricity _____ kWh
Gas _____ kWh, Btu, MJ
Fuel Oil _____ kWh, Btu, MJ
Biomass _____ kWh, Btu, MJ
Other fuel _____ kWh, Btu, MJ _____ specify
Total _____ kWh

Annual Energy by end use

Heating _____ kWh, Btu, MJ
Cooling _____ kWh
Fans & pumps _____ kWh
Lighting _____ kWh
Domestic Hot Water _____ kWh, Btu, MJ
Plus loads & equipment _____ kWh
Other end use _____ kWh, Btu, MJ _____ specify

Annual on-site renewable generation

PV _____ kWh
Solar thermal _____ kWh, Btu, MJ
Wind _____ kWh, Btu, MJ
Midro-hydro _____ kWh, Btu, MJ
Biomass electricity _____ kWh
Biomass thermal _____ kWh, Btu, MJ
Other renewable _____ kWh, Btu, MJ _____ specify
Total _____

Peak use

Peak electricity demand _____ kW
Peak natural gas demand _____ kBtu/hr, kW
Peak cooling _____ kW/m², ft²/ton
Connected lighting load _____ W/m², W/ft²

Data sources and reliability

Based on simulation? Yes _____ No _____
If yes, list software and versions.

Based on utility bills? Yes _____ No _____
If yes, please list company(s) dates of bills.

Comments on data source and reliability.

INDOOR ENVIRONMENT

Indoor environment approach

Describe how indoor-environment-related issues are addressed in this project.
(75 words)

PROJECT RESULTS

Lessons Learned: Describe goals that were met and goals that were not achieved (especially as they relate to the topics of accessible, aesthetic, cost-effective, functional, productive, secure/safe, and sustainable) and the reasons for these outcomes.
(350 words)

Ratings: List any rating programs and ratings of this project including date and level achieved.
(75 words)

Awards: List any awards associated with this project including award name, date, category.
(75 words)

Publishing: List any book, periodical, or website (if any) in which this project has appeared including: publication name, publisher, publication date, volume, issue, page or URL.
(75 words)