

Buildings that earn the ENERGY STAR prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. www.energystar.gov

Building Design Guidance Checklist

SET GOAL Set an energy performance goal Review case studies that demonstrate enhanced energy performance Allocate sufficient funds for an integrated design process
ASSEMBLE DESIGN TEAM Select a multi-disciplinary team Adopt an integrated design approach Educate the project team on goals, costs, and benefits
PRE-DESIGN Conduct a comprehensive charrette that addresses architecture, energy, and environmental issues Identify synergies between design concepts and energy use Develop scope of work, project budget, and schedule
SCHEMATIC DESIGN Analyze the site and building orientation with energy performance in mind Use natural shading features to reduce cooling load Consider daylighting to reduce electrical lighting requirement and the air-conditioning load Review energy strategies with an energy expert Begin energy analysis of design concepts Right-size mechanical systems based on anticipated performance and loads Compare estimated energy use to design target Make adjustments and integrate energy performance strategies
DESIGN DEVELOPMENT ☐ Refine the project to achieve the energy performance goal ☐ Prepare energy performance specification for construction documents ☐ Assemble resources that explain installation, operation, and other requirements



	CON	STRUCTION & BID DOCUMENTS Include Statement of Energy Design Intent (SEDI) Specify design team participation during construction Include approval process for change orders to methods and materials Encourage building owner to hold all parties accountable for achieving the energy performance goal Seek incentives for meeting the energy performance goal Include design team's summaries of energy-efficient features and anticipated functions Select qualified manufacturers Place the "Designed To Earn The ENERGY STAR" graphic on final drawings that achieve 75 or better in Target Finder
BBBBB BBBBB	CON	IMISSIONING THE BUILDING Specify detailed commissioning activities in project contracts Seek separate funding and hire specialists Include the commissioning firm as part of the design team early in the project Communicate your energy performance goal Encourage energy-use tracking over time
	TRA	CKING, MEASUREMENT & VERIFICATION Communicate the energy performance target to the M&V team Document how energy performance compares to the design intent Use EPA's Portfolio Manager to track and rate annual energy performance
ENERGY STAR	THE	ENERGY STAR FOR COMMERCIAL BUILDINGS Compare the building's actual energy consumption to the industry benchmark using Portfolio Manager Apply for the ENERGY STAR if the building achieves a 75 or higher Complete the application letter and the Statement of Energy Performance (SEP) Have a licensed Professional Engineer certify indoor environmental criteria Communicate the success of the building design team/firm and their energy design strategies

