

UW GREEN BUILDING STANDARD TABLES

Compilation of tables included in the UW Green
Building Standard

UW GBS Project Tiers

TIER	DESCRIPTION
1: NEW CONSTRUCTION AND MAJOR RENOVATION	New ground up construction, major renovations of whole buildings and stand-alone additions.
2: PARTIAL RENOVATIONS AND INTERIORS PROJECTS	Projects that include multiple system upgrades or renovations (HVAC, plumbing, lighting, finishes).
3: SYSTEM UPGRADES	Projects on energy or water consuming systems that don't include additional scope.
4: NON-ENERGY PROJECTS	Non-energy projects involving materials but limited or no systems.

UW GBS Requirements for All Projects

TOPICS	REQUIREMENTS FOR CAPITAL PROJECTS
PROCESS	UW GBS Process Map: All projects follow guidelines in the UW GBS Process Map as applicable to the tier and project scope.
LIFE CYCLE COST ANALYSIS	LCCA: Use UW LCCA requirements to evaluate technologies to achieve performance goals and optimize energy and water use.
DESIGN STANDARDS	Comply with the UW Facility Design Standard and/or applicable similar standards for other campuses and departments that address sustainable design and construction.
ENERGY	<p>No fossil fuels: No new or expanded fossil fuel systems in buildings except for backup power or for research purposes.</p> <p>Connect to district energy systems: Wherever the University maintains district energy systems for heating or cooling, buildings must connect to those systems for primary cooling and heating needs.</p>
WATER	Fixture, appliance, and equipment efficiency: Meet efficiency standards listed in the Fixture, Appliance, and Equipment Standards table (see below).
EMBODIED CARBON	Product embodied carbon limits: For all materials used on the project and listed in the Carbon Leadership Forum’s Material Baselines Report, select products that do not exceed the specified amount of kgCO ₂ e per declared unit.

UW GBS Requirements for Tier 1 Projects

TOPICS	REQUIREMENTS FOR ALL TIER 1 CAPITAL PROJECTS
WATER	New construction, except housing: At least 25% reduction in annual indoor water use from the LEED BD+C v4 baseline.
	New housing: At least 40% reduction in annual indoor water use from the LEED BD+C v4 baseline.
	Alternate for projects with process water uses: 30% reduction using the LEED BD+C v4 Whole Project Water Use pilot credit (WEpc115).
ENERGY & CLIMATE	Energy Use Intensity (EUI) targets: Design the building to perform better than the Washington State Clean Buildings Performance Standard (CBPS) EUI target for the building type and activities. Projects located in Seattle and not connected to the Seattle campus district energy system must also plan for compliance with the City of Seattle Building Performance Standard (BEPS) Greenhouse Gas Intensity (GHGi) target.
	Project specific targets: During project definition, set a project-specific EUI target that meets or exceeds the EUI target, code requirements, and other applicable University requirements.
	Embodied carbon limit: The total embodied carbon of the project building may not exceed 500 kgCO ₂ e/m ² in primary materials and use stages A1-A4.
EMBODIED CARBON	Project specific targets: During project definition, identify strategies to reduce the embodied carbon of the project and perform calculations to set a project-specific total embodied carbon target.
	LEED/Required calculations: At the end of the project report embodied carbon of actual new construction materials using the EC3 tool and following the LEED pilot credit for Procurement of Low-Carbon Construction Materials (MRpc132).
	Major renovation projects: Estimate the embodied carbon impact of the materials required to build a new, similar building using EC3 and the LEED pilot credit (MRpc132) methodology and compare it to the actual footprint of the renovated building to demonstrate carbon avoided through project material reuse.

TOPICS	REQUIREMENTS FOR ALL TIER 1 CAPITAL PROJECTS
RATING SYSTEM	<p>Achieve LEED Gold certification in the most applicable LEED system in version 4 BD+C (including Residential).</p> <hr/> <p>Earn all required credits for the applicable LEED rating system in the UW LEED scorecard, including one innovation or pilot credit from the preferred list.</p> <hr/> <p>Pilot at least one Fitwel v3 credit that addresses resiliency, ecology, experience of place, health and well-being, or diversity, equity, and inclusion and is appropriate for the project and report on lessons learned.</p>
ECOLOGY	<p>Comply with UW Bird-Friendly Design Guidelines.</p>
HEALTH AND WELL-BEING	<p>New construction projects must include showers and changing facilities. Major renovation projects evaluate options to provide showers and changing facilities.</p>
EQUITY	<p>Provide lactation facilities.</p> <hr/> <p>Follow the UW Gender-Neutral Restrooms policy.</p>

UW GBS Requirements for Tier 2 Projects

TOPICS	REQUIREMENTS FOR ALL TIER 2 CAPITAL PROJECTS
WATER	Projects pursuing LEED CI v4: Meet Tier 1 performance requirements.
ENERGY & CLIMATE	<p>Implement energy conservation measures that meet or exceed code requirements and other applicable University standards and that support LEED Gold certification, if applicable.</p> <p>Energy Use Intensity (EUI) targets: For projects that include substantial modification to the mechanical and electrical systems, (as defined under minor renovation in the UW LCCA requirements), design the systems to meet the Washington State Clean Buildings Performance Standard (CBPS) EUI target for the activities in that space. Projects located in Seattle and not connected to the Seattle campus district energy system must also plan for compliance with the Seattle Building Emissions Performance Standard (BEPS) Greenhouse Gas Intensity (GHGi) target.</p>
EMBODIED CARBON	LEED/Required calculations: For projects pursuing LEED CI, report embodied carbon of actual new construction materials using the EC3 tool and following the LEED pilot credit for Procurement of Low-Carbon Construction Materials (MRpc132).
RATING SYSTEM	<p>Projects with a discrete, contiguous space that has sufficient scope to be eligible under LEED for Commercial Interiors are to target LEED Gold.</p> <p>Earn required credits in the UW LEED CI scorecard, including one innovation or pilot credit from the preferred list.</p>

TOPICS	REQUIREMENTS FOR ALL TIER 2 CAPITAL PROJECTS
RATING SYSTEM	<p>Projects with non-contiguous spaces spread throughout a building, structure, or facility or where there are substantial modifications to the mechanical system are to evaluate LEED v4 Building Operations + Maintenance Gold for the whole building.</p> <hr/> <p>Pilot at least one Fitwel v3 credit that addresses resiliency, ecology, experience of place, health and well-being, or diversity, equity, and inclusion and is appropriate for the project and report on achievements and lessons learned in sustainability reports.</p>
ECOLOGY	<p>Comply with the UW Bird-Friendly Design Guidelines where project includes alterations to the building envelope.</p>
HEALTH AND WELL-BEING	<p>Evaluate providing showers and changing facilities.</p>
EQUITY	<p>Evaluate providing lactation facilities.</p> <hr/> <p>Follow the UW Gender-Neutral Restroom policy.</p>

UW GBS Requirements for Tier 3 Projects

TOPICS	REQUIREMENTS FOR ALL TIER 3 CAPITAL PROJECTS
ENERGY & CLIMATE	<p>Implement energy conservation measures (ECMs) that meet or exceed code requirements and other applicable University standards.</p> <hr/> <p>Energy Use Intensity (EUI) Targets: For projects that include substantial modification to the mechanical and electrical systems, meeting the definition for minor renovation in the UW LCCA requirements, design the systems to meet the Washington State Clean Buildings Performance Standard (CBPS) EUI target for the activities in the affected spaces. Projects located in Seattle and not connected to the Seattle campus district energy system must also plan for compliance with the Seattle Building Emissions Performance Standard (BEPS) Greenhouse Gas Intensity (GHGi) target.</p>

UW GBS Requirements for Tier 4 Projects

TOPICS	REQUIREMENTS FOR ALL TIER 4 CAPITAL PROJECTS
ALL TOPICS	See requirements for "All projects" above.

Water Fixture, Appliance, and Equipment Efficiency Standards

FIXTURE/APPLIANCE/EQUIPMENT	EFFICIENCY STANDARD
NON-RESIDENTIAL LAVATORIES	0.5 gpm
METERING FAUCETS	0.25 gpc
RESIDENTIAL LAVATORIES	1.2 gpm Meets WaterSense
KITCHEN FAUCET	1.8 gpm
WATER CLOSETS	1.28 gpf 1.28/1.1 gpf dual flush preferred Meets WaterSense
URINALS	0.125 gpf Meets WaterSense
BLOWOUT FIXTURES	1.6 gpf
SHOWERS	1.5 or lower gpm Meets WaterSense
RESIDENTIAL AND COMMERCIAL CLOTHES WASHERS	ENERGY STAR or performance equivalent
RESIDENTIAL DISHWASHERS	ENERGY STAR or performance equivalent
PRERINSE SPRAY VALVES	1.3 gpm
ICE MACHINE	ENERGY STAR or performance equivalent
REPLACEMENTS IN-KIND	Where water using fixtures, appliances, and equipment are being replaced in kind, replace with the same water use rate or meet the above efficiency standard, whichever is lower and where practicable.
HEAT REJECTION AND COOLING	No once-through cooling with potable water for any equipment or appliances that reject heat.
OTHER ONCE THROUGH PROCESS WATER USES	Evaluate non-potable water sources for any process water uses, including lab processes, that require once-through water.