

# Energy

**Instructions** Complete all required measures for desired certification level plus those for the preceding certification level(s). In addition, achieve one additional measure for Silver Certification, two additional for Gold Certification, and three for Platinum Certification.



Level	Measure	Energy Targets			
		Save Energy	Systems Performance	Measure & Manage	Other
Silver	<b>Oregon Core Performance™ Guide, Core Requirements</b> Includes 13 prescriptive strategies addressing design and energy use.	●			
	<b>Oregon Core Performance™ Guide Construction Certification (Acceptance Testing)</b> Installing contractor, engineer of record, commissioning authority or owner's agent: reviews the installation of equipment; performs acceptance tests and documents results; and documents the operating and maintenance information and test results on the construction certification.		●		
	<b>ENERGY STAR® Portfolio Manager and Data Sharing</b> Track energy use in ENERGY STAR's Portfolio Manager on a monthly basis to earn the ENERGY STAR and share utility Information with Earth Advantage® Institute (EAI). NOTE: EAI to provide participant with annual energy use CO <sub>2</sub> calculation.			●	●
Gold	<b>Oregon Core Performance™ Guide Enhanced Performance Requirements</b> Includes 4 additional prescriptive strategies addressing design and energy use.	●			
	<b>Oregon Core Performance™ Guide Operator Training and Documentation – AND/OR – Building User Training and Documentation</b> Train building operators and/or building users in how mechanical and electrical systems are intended to operate and provide systems manuals for those operators/users.		●		
	<b>Energy Management Plan</b> Implement a meaningful plan for the operations phase following ENERGY STAR's Guidelines for Energy Management to manage energy performance.			●	
Platinum	<b>Whole Building Energy Modeling and Simulation</b> Demonstrate a savings 5% greater than building using both Oregon Core Performance Required and Enhanced Measures.	●			
	<b>Oregon Core Performance™ Guide Commissioning</b> 3rd party commissioning following the guidance in the Enhanced Measures of the Oregon Core Performance Guide.		●		
	<b>Measure and Monitor Energy Use for Major Systems</b> Install measurement devices to ensure capacity to track HVAC, lighting and plug loads. Create an action plan for annual follow-up with those measures.			●	
	<b>Higher Construction R Values and (Lower U Values)</b> Follow the requirements as explained in the appendices of the Oregon Core Performance Guide for opaque envelope or code whichever is more stringent.	●			
	<b>Grid Source Renewable Energy (100%, 1 year)</b> One year renewable energy contract or REC purchase equal to the buildings total annual energy spending.				●
	<b>Phantom Load Management Plan</b> Plan to reduce loading during unoccupied hours due to appliances that are left on or have standby power loads.			●	
	<b>Solar Ready Design</b> Follow prescriptive requirements to ensure that building is solar ready for future installations.				●
	<b>Onsite Renewable Power 2%</b> Install onsite renewable energy that is able to produce at least 2% of total energy use.				●
	<b>Onsite Renewable Power 5%</b> Install onsite renewable energy that is able to produce at least 5% of total energy use.				●
	<b>Additional Energy Measures</b>				

Measure Overview

Water

**Instructions** Complete all required measures for desired certification level plus those for the preceding certification level(s).



Level	Measure	Water Targets			
		People	Plants	Storm-water	Other
Silver	<b>High Efficiency Flushing Fixtures</b> Install high efficiency flushing fixtures in all bathroom facilities.	●			
	<b>Low-flow Lavatory Faucets and Showerheads</b> Install low-flow fixtures in all bathroom facilities.	●			
	<b>Tracking Whole Building Water Use in Portfolio Manager and Water Data Sharing</b> Track water use using Portfolio Manager account. Put plan in place to address overuse or major deviations from normal. Share water data with EAI.	●	●		
	<b>High Efficiency Irrigation System</b> For landscaped areas over 750 sq. ft., install an efficient irrigation system.		●		
	<b>Stormwater Pollution Prevention—During Construction</b> Create and implement an erosion sediment control plan for all construction activities as defined by Oregon Department of Environmental Quality.			●	
Gold	<b>Automatic Faucets (sensors or metering faucets)</b> Install metered faucets or motion sensitive faucets to reduce run time.	●			
	<b>Increased Efficiency Irrigation System</b> For landscape areas over 750 sq. ft., install increased efficiency irrigation system.		●		
	<b>Gold Stormwater Quality Mitigation</b> Design a storm water management system such that 90% of average annual rainfall from auto-oriented hardscape area is treated using one or a suite of approved strategies.			●	
Platinum	<b>Greywater Reuse</b> Reuse onsite at least 50% of greywater up to 100% of irrigation and flushing demand.	●			
	<b>No-Potable Water for Irrigation — OR — No Permanent Irrigation System</b> Use no potable water for irrigation or do not install permanent irrigation systems for landscape.		●		
	<b>Platinum Stormwater Quality Mitigation</b> Design a stormwater management system such that 90% of average annual rainfall from auto-oriented hardscape area and 50% of non-auto-oriented hardscape and roof is treated using one or a suite of approved strategies.			●	

# Health

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Level	Measure	Health Targets			
		Pollution Source Control	Toxic Reduction	Occupant Comfort	Other
Silver	<b>Indoor Air Quality Plan During Construction</b> Implement a “best practice” indoor air quality plan during construction.	●			
	<b>Low-emitting Interior Paints and Coatings, Adhesives, Sealants, Carpets and Carpet Pads</b> All interior (inside the weather proofing barrier) paints, coatings, sealants, carpets and carpet pads must comply VOC limits as described.		●		
Gold	<b>Eliminate/Limit Infiltration from Garages, Janitor Closets and Copy &amp; Print Rooms to Interior Spaces</b> Exhaust each space sufficiently to create negative pressure with respect to adjacent spaces with the doors to the room closed and provide doors that close automatically.	●			
	<b>Low-Emitting Insulation Products</b> All insulation must have Greengaurd certification to the level of Indoor Air Quality Certified.		●		
	<b>Occupant Access to Daylight + Glare Reduction</b> Provide 50% of the permanent occupants with access to natural daylight, and install blinds or other shading devices.			●	
Platinum	<b>Reduce Urea Formaldehyde Wood Products</b> Employ wood products such that urea formaldehyde is not added to at least two of the following list: cabinetry, doors, casework, composite wood products.	●			
	<b>Radon Mitigation Design Guidelines</b> Follow the design guidance and recommendations found in the EPA publication Radon Prevention in the Design and Construction of Schools and Other Large Buildings				●
	<b>User Awareness — Environmental Features of Building</b> Install informative onsite descriptions to highlight building green features.				●
	<b>Occupant Thermal Control</b> Meeting rooms and classrooms must have their own thermostat.			●	
	<b>Sustainable Housekeeping</b> Create a sustainable cleaning product purchasing policy that follows The Commonwealth of Pennsylvania’s Department of General Services Green Building Maintenance Manual.	●			
	<b>Occupant Comfort Verification and Corrective Action Plan - Submit results to EAI</b> Implement a thermal comfort survey of building occupants 12–18 months after occupancy and develop a plan to correct issues.			●	
	<b>Entryway Systems</b> All primary entrances (any main and regularly used entrance) must have an entry way system at least 6 feet long in the direction of travel.	●			
	<b>No carpet</b> Do not permanently install any carpet in the building.				●
	<b>Access to Operable Windows</b> In schools and office spaces, provide at least 50% of permanent building occupants windows within 30 feet of permanent stations.			●	
	<b>Low-Emitting Furniture</b> 75% of furniture by cost must be GREENGUARD Indoor Air Quality Certified for furnishings.	●			
	<b>Occupant Lighting Control</b> Provide occupant lighting control to at least 90% of office occupants and 100% of multi-occupant spaces.			●	
	<b>Acoustic Performance</b> Wall assemblies must meet a Sound Transmission Class (STC) Rating of 55. In multistory buildings, ceiling/floor assembly must meet an STC of 55 as well.			●	
	<b>Vinyl Reduction Plan</b> Put in place a preferential purchasing policy that reduces the amount of vinyl (PVC) installed on site.	●			

Additional Health Measures

# Materials

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Level	Measure	Material Targets			
		Env. Preferable Materials	Material Min. & Durability	Waste Reduction	Other
Silver	<b>Silver Environmentally Preferable Materials</b> Environmentally preferable materials plan & select four local products with substantial components and implement in a meaningful way. — OR — Choose two strategies and implement in a meaningful way: Local — 2 products; Salvaged — 2 products; Recycled — 4 products; Rapidly Renewable — 2 products.	●			
	<b>Silver Construction Waste Management</b> Define and implement a construction waste management plan, and recycle wood or metal (depending on construction type) and cardboard. Comingled recycling allowed.		●	●	
	<b>Built-in Recycling Center</b> Research locally available recycling for the building during operation. Install area for separation of waste from recycling by tenant unit.			●	
Gold	<b>Gold Environmentally Preferable Materials</b> Environmentally preferable materials plan & select six local products with substantial components and implement in a meaningful way. — OR — Choose two strategies and implement in a meaningful way: Local — 3 products; Salvaged — 3 products; Recycled — 5 products; Rapidly Renewable — 3 products.	●			
	<b>Gold Build for Durability and Minimize Material Use</b> Develop a 3 step durability management plan addressing medium and major risk areas for the building.		●		
	<b>Gold Construction Waste Management</b> Define and implement a construction waste management plan, and recycle wood AND metal (depending on construction type) and cardboard. Comingled recycling not-allowed.			●	
Platinum	<b>Platinum Environmentally Preferable Materials</b> Environmentally preferable materials plan & choose two strategies and implement in a meaningful way: Local — 6 products; Salvaged — 4 products; Recycled — 6 products; Rapidly Renewable — 4 products.	●			
	<b>Platinum Construction Waste Management</b> Ensure that at least 75% of waste by volume is diverted from landfill.			●	
	<b>Maintain existing structures: 70%</b> In a major renovation project, maintain 70% existing walls, floors & roof.		●	●	
	<b>Maintain existing structures: 85%</b> In a major renovation project, maintain 85% existing walls, floors & roof.		●	●	
	<b>Preferable or No Refrigerants</b> Do not use and HCFC refrigerants — AND — Ensure all fire suppressants are halon free.	●			
	<b>Sustainable Timber 35%</b> Use a minimum of 35% of non-excluded wood-based materials by cost, which are certified in accordance with FSC, and or Healthy Forest Healthy Communities Initiative.	●			
	<b>Sustainable Timber 70%</b> Use a minimum of 70% of non-excluded wood-based materials by cost, which are certified in accordance with FSC, and or Healthy Forest Healthy Communities Initiative.	●			
	<b>Sustainable Timber 85%</b> Use a minimum of 85% of non-excluded wood-based materials by cost, which are certified in accordance with FSC, and or Healthy Forest Healthy Communities Initiative.	●			
	<b>Organic Waste Collection or Compost Facilities</b> Supply a container onsite for storage and composting food waste and/or yard trimmings generated by the building's users and operation.			●	

Additional Materials Measures

Land

**Instructions** Complete all required measures for desired certification level plus those for the preceding certification level(s). In addition, achieve one additional measure for Silver Certification, two additional for Gold Certification, and three for Platinum Certification.



Level	Measure	Land Targets			
		Site Ecology	Transport	Connectivity & Place Making	Other
Silver	<b>Silver Native and Adaptive Plants</b> Plant at least 25% of common areas and general landscape areas from an approved local or local plant list that identifies native and low-water (xeriscape) plant materials. No invasives may be planted.	●			
	<b>Stockpile Topsoil (Greenfield sites)</b> Stockpile disturbed topsoil during construction and re-use on the site after construction.	●			
	<b>Minimum Bike Storage</b> Install at minimum levels of bike parking as designated by space type		●		
	<b>NOTE:</b> EAI to provide participant with Walk Score™.			●	
Gold	<b>Gold Native and Adaptive Plants</b> Plant at least 75% of common areas and general landscape areas from an approved local or local plant list that identifies native and low-water (xeriscape) plant materials. No invasives may be planted.	●			
	<b>Transportation Plan with Survey/Commuter Information</b> Install a dedicated space within the building for the provision of public transportation information, carpool sign-up information, car share, cycling paths and walking paths.		●		
	<b>Gold Minimum Walk Score™ — OR — Show Score Improvement</b> Must meet minimum Walk Score of 50, or show that the project will improve community connectivity and place making by bringing needed services to a community.			●	
	<b>NOTE:</b> EAI to provide participant expected commuter carbon footprint.				●
Platinum	<b>Enhanced Site Ecology</b> Preserve and restore native wildlife habitat, encourage relevant biodiversity.	●			
	<b>Bicycle Shower and Changing Facilities</b> Provide covered, secure bicycle parking for 10% of permanent building occupants and provide shower and changing facilities.		●		
	<b>Enhanced Placemaking</b> Must meet minimum walk score of 68, or show that the project will improve community connectivity and place making by bringing needed services to a community.			●	
	<b>Heat Island: Roofs</b> Install a roof that meets the ENERGY STAR reflective roof requirement or Cool Roof Rating Council Requirements. If 50% of total roof area is covered in Vegetated Roof, the requirement is also met.	●			●
Additional Land Measures	<b>Vehicle Sharing/Program-Employee Incentive</b> Enter into a contract with a vehicle sharing program to provide at least one shared vehicle within 1/4 mile of building entrance. — OR — Provide a carpooling incentive program to employees such that carpoolers are rewarded for participating in carpool.		●		
	<b>Dark Sky</b> Eliminate unprotected uplighting on walls and features. Lighting that is not fully under the cover of a roof, awning or overhang must be dark sky compliant labeled or meet luminous intensity requirements.	●			
	<b>Preserve Existing Trees</b> Develop a comprehensive tree protection plan that identifies how all mature trees are to be protected to the extent practicable during construction. Mature trees must be present to qualify.	●			
	<b>Open Space for Social Interaction</b> Provide an interior or exterior area of usable size for building occupants to gather that is accessible, private and not susceptible to disturbance.			●	

Land Targets

Level	Measure	Land Targets			
		Site Ecology	Transport	Connectivity & Place Making	Other
Additional Land Measures	<b>Heat Island, Surface Parking</b> Shade at least 50% of surface parking with structural parking reflective shade structures, solar panels, vegetated structures or trees.			●	
	<b>Site Conditions: Greyfield Site</b> Redevelop a grayfield site with at least 50% impervious area.		●	●	
	<b>Site Analysis &amp; Assessment</b> Conduct an accurate and detailed assessment of existing site conditions prior to design to inform decisions and guide the design, construction, operation, and maintenance phases.				●
	<b>Site Condition: Brownfield</b> Remediate and build on a contaminated site designated as a brownfield.	●			