

EL: 303-384-8097

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<u>Sustainability-Nonresidential or Multi-family</u> Standards, Guidelines and Menu Requirements for Permit/Plan Submission

Address:	Permit/Case Number:
• • • • • • • • • • • • • • • • • • • •	additions equaling over 25% of the original structure's oility is only required for that portion of the building.
Photovoltaic energy generation system What is structure's modeled electric cor	
	osed photovoltaic energy system(kWh):
Total offset (percentage):	_
How many points are being requested?	
Building Envelope Efficiency	
What is the building's total energy effic Use Intensity)?:	iency based on the adopted building code (% EUI-Energy
How many points are being requested?	



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Section I. Standards-Section 18.40.340 (All applicable standards must be met)

Standard	Applicable	Explanation of compliance,	Staff
Staridard	Yes/No	including reference to document	Comments
	163/110		Comments
		showing compliance	
1. Install a photovoltaic energy			
generation system on-site that			
offsets ten percent (10%) of the			
structure(s) modeled electrical			
consumption on an annual basis.			
2. Provide and install a			
programmable thermostat for			
each individual commercial			
building, tenant-occupied space in			
a commercial building, or			
multifamily dwelling unit.			
3. Provide and install separate			
electricity meters for each			
individual multifamily dwelling unit			
or tenant-occupied space in a			
commercial building. For natural			
gas, must provide and install			
separate meters for commercial			
tenant spaces 10,000 square feet			
or more.			
4. Demonstrate through energy			
modeling software that the			
multifamily or commercial project			
exceeds the minimum applicable			
International Energy Conservation			
Code standards adopted by the			
city by at least four percent.			
5. Integrate in any trash enclosure			
an equal-sized space and access			
for recycling receptacles adjacent			
to any trash receptacles.			
6. Provide and install one level 2			
electric car (EV) charging station			
per 15 required parking spaces for			
the project and EV ready conduit			
for 15 percent of the total			
required parking spaces on-site.			
This requirement shall only apply			
once the total minimum required			
parking spaces for the project			
reaches 15, using rounding for any			
subsequent charging station			
requirements.			



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Standard	Applicable Yes/No	Explanation of compliance, including reference to document showing compliance	Staff Comments
7. All fenestrations must achieve u-values of .25 or below.			
8. Use EPA Water Sense certified water conservation measures for fixtures including flush urinals, dual flush toilets, faucets and showerheads, drip irrigation with rain sensors and industrial conservation measures.			
9. Provide an amount of bicycle parking on site equivalent to ten percent of the minimum vehicle parking requirement.			
10. Install an all-season bus shelter if the property abuts ROW that is within an existing transit route and a stop is adjacent to the property boundary.			
11. Install heat reflective roof materials. Minimum 29 SRI (solar reflective index) materials qualify.			



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Section II. Guideline-Section 18.40.341 (50% of applicable guidelines must be met)

Guideline	Applicable	Explanation of compliance,	Staff
	Yes/No	including reference to document	Comments
	103/140		Comments
4.5		showing compliance	
1. Provide community garden			
plots, fruit trees, or other means			
of food production on site for a			
minimum of 15 percent of residential units to foster local			
food production. Plots must be a			
minimum of 20 square feet each.			
2. Plant at least 20 percent additional trees than otherwise			
required to maximize shade over			
paved or covered areas in summer (deciduous east, west, south),			
provide a wind break in winter			
(evergreens to north) and reduce			
the urban heat island effect in			
parking areas and throughout the			
site.			
3. Install building automation			
system for advanced monitoring,			
which can include networked			
controls of multiple building			
systems, such as heating and			
cooling, ventilation, daylighting and			
lighting.			
4. Install energy or heat recovery			
ventilation (E/HRVs) for energy			
efficiency and balanced			
ventilation.			
5. Daylighting or passive lighting			
for at least 20 percent of internal			
spaces. Skylights, solar tubes and			
lumen sensors are examples.			
6. Install a green roof in			
accordance with applicable			
stormwater standards and			
building codes.			



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Guideline	Applicable Yes/No	Explanation of compliance, including reference to document showing compliance	Staff Comments
7. Employ stormwater runoff reduction strategies to slow runoff and promote infiltration by routing stormwater through bioswales, rain gardens and/or permeable pavement designed in accordance with the City of Golden Stormwater Standards Manual.			
8. Provide compost bin location on the property with contract for pick-up service.			
9. Provide a bike repair station and secure and enclosed parking (e.g. lockers, storage room) for at least 50 percent of the bike parking required.			
10. Provide number of shower units for a minimum of two percent of all full time equivalent employees.			



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Section III. Menu-Section 18.40.350 (20 points must be achieved). If adding high-energy use, additional points may be required.

	Menu Item	Points	Documentation Required	Explanation of Compliance and Points Requested
Ene	ergy Efficiency			
1.	Sustainability menu requirements and associated point system shall be waived if project achieves LEED Gold or the Passive House Standard.	20	For LEED Gold, provide proof of registration accepted by USGBC and completed LEED checklist for site plan review. Construction drawings and LEED templates required for building permit. For Passive House Standard, project must be certified by the Passive House Institute (PHI) or PHI U.S.	
2.	Increase energy efficiency of structure over the energy efficiency standards set forth in section 18.40.340. Points are awarded on a sliding scale with one point for every two percent increase in energy efficiency, up to 20 points. Points may be awarded for efficiency gains in specific systems, such as lighting or mechanical, but more points may be awarded for an integrated design approach.	1 - 20	Using data from an energy model of each building, complete REScheck or COMcheck Compliance Certificate for interior and exterior lighting, building envelope, and mechanical equipment, and provide proof of energy modeling for structures and/or additions greater than 10,000 square feet in size, with a defined performance target that demonstrates projected energy efficiency in Energy Use Intensity (EUI) units. HERS rating may be used for attached residential units, with one unit serving as the model for all units if identical construction methods are used.	
4.	Offset traditional energy usage with renewable energy production on site beyond the solar requirement standard set forth in section 18.40.340. There will be one point awarded for every four percent reduction in energy use, ending with 20 points for a net zero building that produces as much power as it consumes over the course of a calendar year. The cash in lieu provision outlined in Section 18.40.340 (1) is applicable for site specific conditions as described in this section.	1 - 20	Applicant must demonstrate the projected energy usage of the structure and calculate the percentage of that power that will reliably be produced on site. Building department staff will verify the model and projected renewable energy component.	



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	Menu Item	Points	Documentation Required	Explanation of Compliance and Points Requested
5.	Install additional level 2 or higher electric plug-in stations for hybrid and electric vehicles on-site over the minimum applicable standard set forth in section 18.40.340 for one to five points over the minimum applicable standard set forth in section 18.40.340 for one point for every two spaces.	1 - 5 total	Site plan must demonstrate location and number of station locations, and applicant must provide product specification sheets.	
Con	nmunity Preservation and Revita	lization		
1.	Preserve an existing structure when increasing square footage or creating additional structures. To receive points, all structures must also be brought into compliance with currently adopted IECC Code. Points awarded on a sliding scale with one point for the first 1,000 square feet and then one for every 1,000 square feet thereafter, up to a maximum of five points.	1-5	Site plan and building plans shall both reflect the building square footage being preserved on site.	
2.	If preserving a historically designated structure, applicant may be awarded five additional points for improving energy efficiency while maintaining both the character and structural integrity of the building.	5	Provide elevation drawings with site plan submittal that demonstrate preservation efforts, as well as achieve energy efficiency points per the "Energy Efficiency" category of this menu.	
3.	Add affordable dwelling units (as defined in chapter 18.04) to a project. Points awarded on a sliding scale, with two points awarded for every affordable dwelling unit created up to a maximum of ten points.	2 - 10	Demonstrate at site plan review and at building permit review with details on size and price points of units. Deed restriction is required, and proof shall be provided in order to get c/o.	



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For projects involving the installation of certain high-resource use features, the minimum number of points increases according to the following schedule:

High Energy-Use Feature	Additional Sustainability Points Required	Provided on Plan Yes/No
Gas fire pits exceeding 40,000 BTU	5	
Indoor heated swimming pool	5	
Outdoor heated swimming pool	10	
Hot tub or spa	5	
Snow and ice melt system	5	

Applicant Summary of Menu Points			
Menu Point Items	Points Requested		
Total Points:			