

GREEN BUILDING POLICY COMPLIANCE & REPORTING CHECKLIST

Commercial buildings (including municipal, mixed-use, and 5+ unit multifamily residential)

At the end of each phase submit to the city appropriate documentation verifying the completion of each applicable Green Building Policy requirement.

PRE-DESIGN (due within 30 days of coordination meeting)		Date Complete:
<input type="checkbox"/>	Read the Green Building Policy	
<input type="checkbox"/>	Participate in a coordination meeting with city staff and consultants to review the requirements. At a minimum, project team participants should include the owner, architect & general contractor (if known).	
<input type="checkbox"/>	Identify a policy compliance lead for the development team: Name _____ Email _____ Phone _____	
<input type="checkbox"/>	Indicate proposed third-party rating path: <input type="checkbox"/> LEED Building Design and Construction (LEED BD+C) or LEED Residential BD+C Multifamily <input type="checkbox"/> B3 Guidelines <input type="checkbox"/> Enterprise Green Communities (EGCC) <input type="checkbox"/> Minnesota Overlay to EGCC <input type="checkbox"/> an approved alternative _____	
<input type="checkbox"/>	Fill in and submit pre-design LCOE calculator documenting solar PV evaluated for meeting two percent of annual energy (kBTU) use.	
<input type="checkbox"/>	Fill in and submit pre-design response in the Electric Vehicle Service Equipment (EVSE) worksheet.	
<input type="checkbox"/>	Hire a commissioning agent for design and construction commissioning services. Commissioning agent must be independent from the project designer. Submit an agreement between the owner and the commissioning agent that documents the scope of commissioning services.	

PRE-CONSTRUCTION (due at Building Permit Application)		Date Complete:
<input type="checkbox"/>	Submit a checklist of credits likely to be achieved under the third-party rating system chosen. Note: certification under LEED BD+C must include a minimum of 13 points within the <i>Energy and Atmosphere: Optimize Energy Performance</i> credit.	
<input type="checkbox"/> or <input type="checkbox"/> or <input type="checkbox"/>	Project is pursuing State of Minnesota B3 Guidelines certification. Renovation project requesting exemption from solar PV requirement with staff approval. Fill in and submit pre-construction LCOE calculator documenting solar PV evaluated for supplying at least two percent of annual energy use using lowest cost contractor bid as inputs. Attach 3 solar PV bids, including capacity and yearly energy production. Note: If the design phase analysis determines that solar is not feasible, the project will be required to subscribe to a utility green power subscription program or power purchase agreement for a minimum of one year.	

<input type="checkbox"/> or <input type="checkbox"/>	<p>HVAC systems are planned to be all-electric.</p> <p>Submit the cost and feasibility of electric HVAC (e.g. ground-source heat pump, cold climate air-source heat pump, and/or variable refrigerant flow systems) compared with designed HVAC. (Installation optional.) See building electrification info sheet.</p>
<input type="checkbox"/>	<p>Fill in and submit a completed Electric Vehicle Service Equipment (EVSE) worksheet and attach site plan showing electric vehicle service equipment and designated parking.</p>
<input type="checkbox"/> or <input type="checkbox"/> or <input type="checkbox"/> or <input type="checkbox"/>	<p>Submit a material conservation plan that includes a plan to adaptively reuse an existing structure.</p> <p>For residential buildings constructed prior to 1956 or designated as a historic resource which are not being reused, submit a material conservation plan that includes full deconstruction of the building.</p> <p>For commercial structures and all other residential structures that are not being reused, submit a material conservation plan that includes skimming the building for salvage of any reusable architectural materials.</p> <p>No existing structures are being razed as part of this project.</p> <p>See MPCA Building Material Management Plan spreadsheet.</p>
<input type="checkbox"/> or <input type="checkbox"/>	<p>Project is pursuing State of Minnesota B3 Guidelines certification.</p> <p>Submit a construction waste management plan that specifies materials to be diverted from disposal by efficient usage, recycling, reuse, manufacturer's reclamation, or salvage for future use, donation or sale. State whether compliance with the waste diversion requirement will be met through either on-site separation of materials OR sending materials to an approved construction & demolition material recovery facility. See C&D material recovery info sheet. See MPCA Building Material Management Plan spreadsheet for template.</p>
<input type="checkbox"/>	<p>Submit Contract Documents showing where space has been designated for the collection and hauler servicing of organics (food scraps). Begin process for contracting with hauler to provide organics collection for a minimum of one year.</p>
<input type="checkbox"/> or <input type="checkbox"/> or <input type="checkbox"/>	<p>Project is pursuing State of Minnesota B3 Guidelines certification.</p> <p>Project has an area of site disturbance that is less than 5,000 square feet.</p> <p>Submit erosion and sediment control (ESC) permits.</p>
<input type="checkbox"/> or <input type="checkbox"/>	<p>Project is pursuing State of Minnesota B3 Guidelines certification.</p> <p>Submit Contract Documents specifying that the soil must have a minimum of 5.0% organic material by soil weight through the incorporation of US Compost Council STA-Certified Compost. See soil restoration info sheet and calculator.</p>
<input type="checkbox"/> or <input type="checkbox"/>	<p>Project is pursuing State of Minnesota B3 Guidelines certification.</p> <p>Submit site plans and a hydraulic report that indicates compliance with the Minnesota Pollution Control Agency Minimal Impact Design Standards (MIDS) for stormwater management.</p>
<input type="checkbox"/>	<p>Submit a one-page narrative of major strategies being designed to achieve Green Building Policy compliance.</p>

POST-CONSTRUCTION (due at Certificate of Occupancy)	Date Complete:
<input type="checkbox"/>	Submit an updated checklist of credits likely to be achieved under the third-party rating system chosen. Note: certification under LEED BD+C must include a minimum of 13 points within the <i>Energy and Atmosphere: Optimize Energy Performance</i> credit.
<input type="checkbox"/>	Submit documentation showing the purchase of EV chargers as calculated on the Electric Vehicle Service Equipment (EVSE) worksheet.
<input type="checkbox"/> or <input type="checkbox"/>	Project is pursuing State of Minnesota B3 Guidelines certification. Submit a waste management report documenting actual construction waste disposal and recycling rates of at least 75% diversion, including receipts or other documentation related to diversion through the course of construction.
<input type="checkbox"/>	Set up efficient building benchmarking by sending an email to the Sustainability division. Email must contain: Building name, address, square footage, date C of O issued, owner name, property manager name (if applicable), owner or property manager address, owner or property manager email, owner or property manager phone. If pursuing State of Minnesota B3 Guidelines certification, connect B3 Benchmarking to Energy Star Portfolio Manager.
<input type="checkbox"/>	Submit an executive summary of commissioning report which includes a list of systems commissioned (and by whom), a summary of issues corrected, and a list of major outstanding/unresolved issues.
<input type="checkbox"/>	Submit a summary report explaining strategies for meeting each requirement of the Green Building Policy.
<input type="checkbox"/>	Participate in a coordination meeting with City staff to review the post-occupancy Green Building Policy requirements.

POST-OCCUPANCY	Date Complete:
<input type="checkbox"/> or <input type="checkbox"/>	Within 12 months of occupancy, complete third-party rating system documentation. Submit documentation reporting the certification level and credits/guidelines achieved. Project is pursuing Minnesota Overlay to EGCC. Submit documentation of project approval by the Minnesota Housing Finance Authority.
<input type="checkbox"/> or <input type="checkbox"/>	Submit contract documents detailing installation of on-site solar. If on-site solar is not feasible, submit documents detailing subscription to a utility green power subscription program or power purchase agreement for a minimum of one year with RECs retained by the project.
<input type="checkbox"/>	Submit contract with hauler detailing organics collection for a minimum of one year.
<input type="checkbox"/>	Submit annual required reporting under Efficient Building Benchmarking ordinance.

Green Building Third-Party Rating Systems

Please note this table reflects systems in spring 2022. System requirements are subject to change.

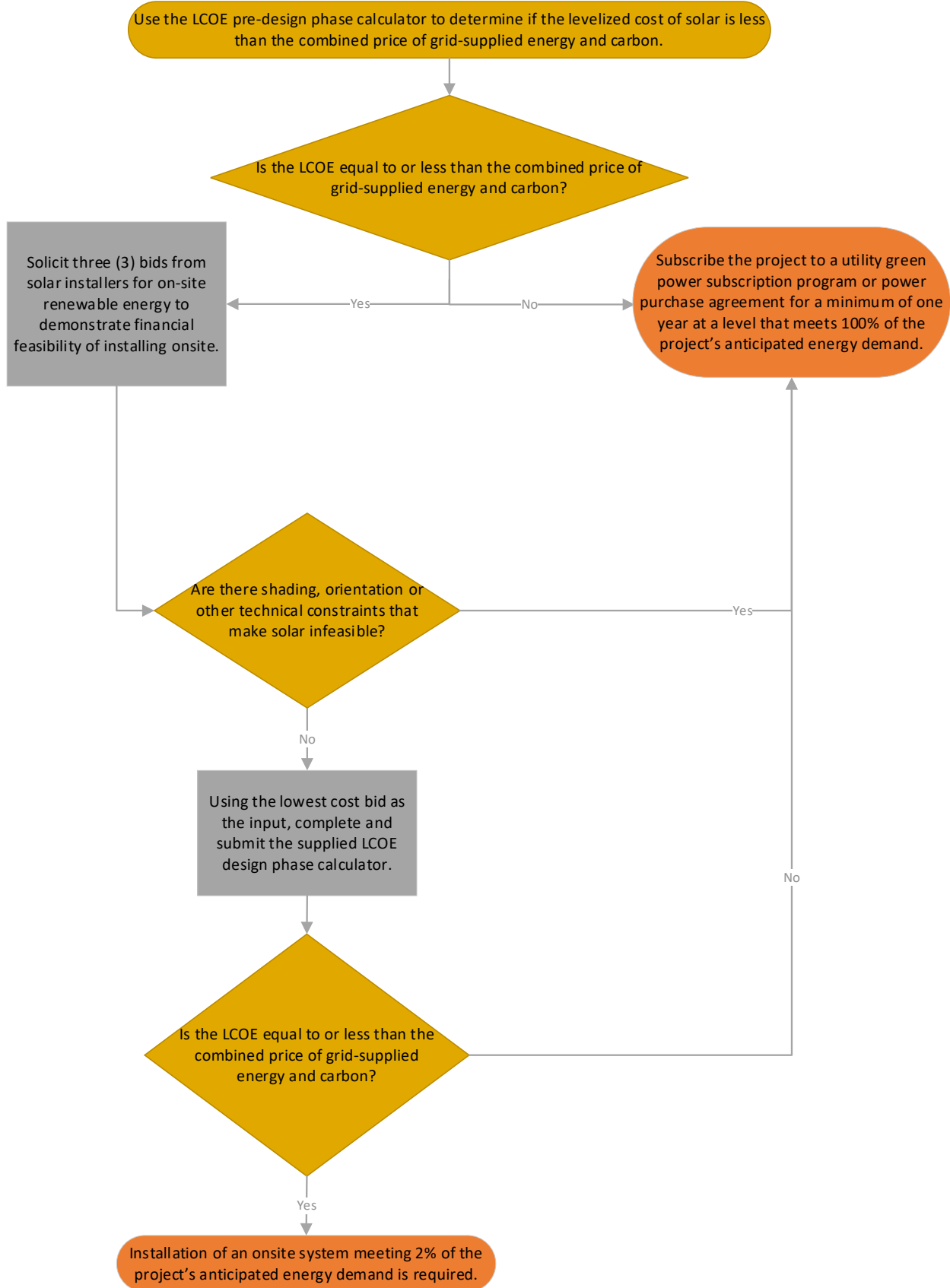
Certifying Body	Certification	Description	Approximate fees
U.S. Green Building Council	<p>LEED for Building Design and Construction or LEED Residential BD+C Multifamily: Silver, Gold or Platinum certification</p> <p>Note: For the purposes of the Green Building Policy, certification under LEED BD+C must include a minimum of 13 points within the <i>Energy and Atmosphere: Optimize Energy Performance</i> credit.</p>	LEED for Building Design and Construction (LEED BD+C) provides a framework for building a holistic green building. Project teams can customize how they pursue LEED by fulfilling credits and earning points that, once added together, determine a project’s certification level of Silver, Gold or Platinum.	<p>Project teams must pay:</p> <ul style="list-style-type: none"> • Registration fee: \$1,200 for members / \$1,500 for organizational or non-members • Certification review fee: fee is calculated on project’s rating system and size. For buildings less than 250,000 sq ft: \$0.057 per sq ft / \$2,850 minimum for members
Administered by the Minnesota Departments of Commerce and Administration, managed by the Center for Sustainable Building Research, University of Minnesota	B3 Guidelines compliant	Buildings, Benchmarks, and Beyond (B3) tools and programs are designed to make buildings more energy efficient and sustainable. B3 is required on state-funded projects in Minnesota but is easily applied to any project. By following the guidelines, projects will automatically be applying the Minnesota Sustainable Building 2030 Energy Standard (SB 2030).	<p>Fee schedule is linked at https://www.b3mn.org/guidelines/. Anticipate \$6,000-10,000 per project.</p>

Enterprise Green Communities	Enterprise Green Communities Certification or Certification Plus	Enterprise Green Communities Certification is available to all buildings that contain at least one affordable housing unit (at or below 60% AMI for rental projects). This certification aligns affordable housing investment strategies with sustainable building practices. Two levels are available: certification and certification plus. The “plus” level recognizes significant achievement for projects that have invested in deep levels of energy efficiency.	<p>\$1,550</p> <p>*Projects with a total construction cost of \$500,000 or less or construction cost of \$20,000 per unit or less may request that certification fees be waived.</p>
<p>Minnesota Housing Finance Agency</p> <p>*For affordable housing projects that are funded or have tax credits through Minnesota Housing</p>	Enterprise Green Community Criteria Certified as Enhanced Sustainability: Tier 1 or higher <p>Note: For the purposes of the Green Building Policy, compliance with the MN Overlay (but not certification) is required.</p>	The Enterprise Green Community Guidelines also serve as the basis for Minnesota Housing’s sustainable housing policy. MN Housing has adapted the guidelines to meet the needs of Minnesotans through the MN Overlay. All projects receiving a Housing Tax Credit or other capital improvement funding from MN Housing must meet all requirements of the 2020 criteria as amended by the MN Overlay and Guide. The criteria include water conservation, energy efficiency, materials, healthy living and more.	Not applicable.

Renewable Energy (RE) requirement

Complete an analysis of onsite solar sufficient to offset two percent of predicted energy use.

- a. Use the supplied Levelized Cost of Energy (LCOE) **pre-design phase calculator** to determine if the levelized cost of solar is less than the combined price of grid and/or fossil fuel supplied energy and carbon.
- b. If the pre-design phase calculator determines that the LCOE from a proposed system is equal to or less than the combined price of grid and/or fossil fuel-supplied energy and carbon, then project teams must advance to step c., soliciting bids.
 - i. If the pre-design phase calculator determines that the LCOE is greater than the combined price of grid and/or fossil fuel-supplied energy and carbon, the developer is required to subscribe the project to a utility green power subscription program or power purchase agreement for a minimum of one year at a level that meets 100 percent of the project's anticipated energy use and the RE requirement is considered met.
- c. **Solicit three (3) bids from solar installers** for on-site renewable energy to demonstrate financial feasibility of installing onsite. Bids must be submitted to city staff during pre-construction phase. See page 3 of this handout for a list of commercial solar installers. Bids cannot include the cost of any structural upgrades required.
- d. Using the lowest cost bid as the input, complete and submit the supplied LCOE **design phase calculator**.
- e. If the design phase calculator determines that the LCOE from a proposed system is equal to or less than the combined price of grid and/or fossil fuel-supplied energy and carbon, installation of an onsite system meeting two percent of the project's anticipated energy use is required.
 - i. If the design phase analysis determines that solar is not technically feasible due to shading, orientation or other technical constraints, the developer is required to subscribe the project to a utility green power subscription program or power purchase agreement for a minimum of one year at a level that meets 100 percent of the project's anticipated energy use and the RE requirement is considered met.
 - ii. If the design phase calculator determines that the LCOE is greater than the combined price of grid and/or fossil fuel-supplied energy and carbon, the developer is required to subscribe the project to a utility green power subscription program or power purchase agreement for a minimum of one year at a level that meets 100 percent of the project's anticipated energy use and the RE requirement is considered met.



Minnesota Commercial Solar Contractor Directories

Use the solar directories below to find qualified commercial solar installers.

Clean Energy Resource Teams Solar (CERTs)

www.cleanenergyresourceteams.org/directory

Energy Sage

<https://www.energysage.com/>

Minnesota Department of Commerce

<https://mn.gov/commerce/industries/energy/solar/solar-business-directory.jsp>

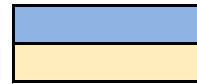
Minnesota Solar Energy Industries Association (MNSEIA)

<https://www.mnseia.org/find-installer>

Levelized Cost of Energy Calculator, Pre-design Phase - PV

Contact city staff for a fillable form

KEY:



Blue highlighted areas show constants or outputs calculated by the spreadsheet
 Yellow highlighted areas show required inputs

Renewable Energy Cost

Service Life of Equipment (Years)	25	Default 25 years
Required Yearly Energy Production (kWh)*	58617	See calculator to the right
Lifetime Production (MWh)	1,465	Calculated
Total Installation Cost	\$117,849	Calculated
Installation Cost per MWh (over lifetime)	\$80	Default value calculated according to array size
Financing Costs per MWh (over lifetime)	\$0	
Fuel Costs per MWh (over lifetime)	\$0	Usually \$0 for renewable project
Maintenance Costs per MWh (over lifetime)	\$11.08	Default value, average from Lazard's LCOE Analysis v.14, 2020
Total Cost/kWh	\$0.091	

Utility-delivered Energy Cost

Cost of kWh	\$0.100	Yearly average price from the utility
Fees, Demand Charges and Surcharges/kWh	\$0.030	
Cost of Carbon/kWh	\$0.016	Based on carbon pricing of \$37/metric ton of carbon and MN emission rate of 0.937 lbs CO2/k
Total Cost/kWh	\$0.146	

Results

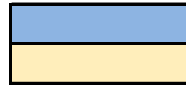
Technology is likely cost effective (yes or no)	Yes
---	-----

Credit: B3 Guidelines

Levelized Cost of Energy Calculator, Design Phase - PV

Contact city staff for a fillable form

KEY:



Blue highlighted areas show constants or outputs calculated by the spreadsheet
 Yellow highlighted areas show required inputs

Renewable Energy Cost

Service Life of Equipment (Years)	25	Default 25 years
Yearly Estimated Production (kWh)	60,000	(should be >= 2% of total building energy use, see calculator to right)*
Lifetime Production (MWh)	1,500	MWh (calculated)
Total Installation Cost	\$161,000	Include design, equipment and installation cost
Installation Cost per MWh (over lifetime)	\$107	Calculated
Financing Costs per MWh	\$0	
Fuel Costs per MWh	\$0	Usually \$0 for renewable project
Maintenance Costs per MWh (over lifetime)	\$11.40	Use contractor estimate if available; otherwise use default value
Total Cost/kWh	\$0.119	

Utility-delivered Energy Cost

Cost of kWh	\$0.095	Yearly average price from the utility
Fees, Demand Charges and Surcharges/kWh	\$0.030	All other fees and surcharges based on kWh use
Cost of Carbon/kWh	\$0.016	Based on carbon pricing of \$37/metric ton of carbon
Total Cost/kWh	\$0.141	

Results

Requirement to Install Renewable Energy	Yes
---	-----

Credit: B3 Guidelines

Building Electrification Info Sheet

Examine the cost and feasibility of ground-source heat pumps, cold climate air-source heat pumps and/or variable refrigerant flow systems to provide heating and cooling to the building. *Installation is optional.*

Sources for information on electric HVAC systems:

Energy Design Assistance

Projects are strongly encouraged to utilize Xcel Energy and CenterPoint Energy’s Energy Design Assistance (EDA) and design review programs (if eligible) to receive free consultations or customized modeling that predicts energy usage, suggests potential energy saving strategies and estimates energy cost savings. This process ensures that the building owner is informed about what energy-cost savings options exist to fully evaluate the life cycle costs of various building components. These programs may also provide equipment rebates to help bring down the capital cost of the project.

Projects should [apply](#) to EDA in the **early SD** phase of design, once the project scope and design team have been determined. Projects should request evaluation of an all-electric HVAC system alternative as part of the analysis. This will provide an estimate of the incremental cost for the system as well as potential energy savings.

Product representatives for Electrical HVAC systems

Many product reps will be able to provide a rough estimate of the costs of their system compared to a designed HVAC system. They can also provide input on the feasibility and comparable projects that have installed the system.

Some product reps can be found here:

[Minnesota Geothermal Heat Pump Association](#)

[Air Source Heat Pump Collaborative](#)

Search “VRF product rep mn” for a list of VRF providers.

Electric Vehicle Service Equipment (EVSE) requirement

The intent of this requirement is to facilitate and encourage the use of electric vehicles; to expedite the establishment of convenient, cost-effective electric vehicle infrastructure; and establish minimum requirements for such infrastructure to serve both short and long-term parking needs.

See following pages for definitions and requirement details.

Pre-design Submittal

Question	Answer
Is on-site parking planned for this project?	

All other phases (provide site plan)

Question	Answer
Is on-site parking planned for this project?	
Does the parking serve residential or non-residential land uses?	
Number of required on-site parking spaces	
Number of ADA accessible parking spaces	
Number of parking spaces served simultaneously by Level 1 EV chargers	
Number of parking spaces served simultaneously by Level 2 or higher EV chargers	
Number of "EV ready" parking spaces with conduit and panel capacity for Level 2 or higher charging	
Number of ADA accessible parking spaces served by Level 2 EVCS	

At closeout, submit documentation showing the purchase of EV chargers and include in as-builts.

A summary of required quantities:

	0-14 parking spaces	15-49 parking spaces		>50 parking spaces	
		Multifamily	Non-residential	Multifamily	Non-residential
Installed EVCS	No req	10%	Qty 2	10%	5%
- Installed Level 2	No req	5%	Qty 2	10%	5% (or DC)
- Accessible EVCS	No req	Qty 1	Qty 1	Qty 1	Qty 1
EV Ready	No req	50%	50%	50%	50%

1. Definitions.

- a. **Electric vehicle charging stations (EVCS):** a public or private parking space that is served by battery charging equipment that has as its primary purpose the transfer of electric energy (by conductive or inductive means) to a battery or other energy storage device in an electric vehicle, including battery electric vehicles and plug-in hybrid vehicles.
- b. **Charging levels:** the standardized indicators of electrical force, or voltage, at which an electric vehicle's battery is recharged. The most common charging levels are:
 - i. Level 1: slow charging with 120v outlets.
 - ii. Level 2: medium charging with 240v outlets, charging head and cord hard-wired to the circuit.
 - iii. DC: fast or rapid charging. Voltage is greater than 240.
- c. **Accessible electric vehicle charging station:** an electric vehicle charging station where the battery charging equipment is located within accessible reach of a barrier-free access aisle and the electric vehicle. It is not necessary to designate the EVCS exclusively for the use of vehicles parked in the accessible space.
- d. **Private restricted use EVCS:**
 - i. Privately owned and restricted access (e.g., single-family home, executive parking, designated employee parking, assigned parking at multi-family residential buildings); or
 - ii. Publicly owned and restricted (e.g., fleet parking with no access to the general public).
- e. **Public use EVCS:**
 - i. Publicly owned and publicly available (e.g., Park & Ride parking, public library parking lot, on-street parking); or
 - ii. Privately owned and available to visitors of the use (e.g., shopping center parking).
- f. **"Electrical capacity" or "EV ready"** shall mean, at minimum:
 - i. Panel capacity to accommodate a dedicated branch circuit and service capacity to install a 208/240V (Level 2) minimum outlet per charger; and
 - ii. Conduit from an electric panel to future EVCS location(s).

2. Number of Required Electric Vehicle Charging Stations.
 - a. Charging stations are counted by the number of parking spaces that can be served simultaneously, even if one EVCS can reach multiple parking spaces.
 - b. All new or reconstructed parking structures or lots with 14 or fewer parking spaces shall be allowed, but not required, to install EVCS.
 - c. All new or reconstructed parking structures or lots with at least 15 but no more than 49 spaces, or expanded parking structures or lots that result in 15 to 49 parking spaces, shall install EVCS as required below.
 - i. Multiple-family residential land uses shall have 10% of required parking served by EVCSs with at least 5% as Level 2 stations. At least one EVCS is ADA accessible.
 - ii. Non-residential land uses with parking spaces shall have two Level 2 stations. At least one EVCS is ADA accessible.
 - d. All new or reconstructed parking structures or lots with at least 50 parking spaces, or expanded parking structures or lots that result in 50 or more parking spaces, shall install EVCS as required below.
 - i. Multiple-family residential land uses shall have 10% of required residential parking as Level 2 stations. At least one EVCS is accessible.
 - ii. Non-residential land uses with parking spaces available for use by the general public shall have at least 5% of required parking as Level 2 stations, with at least one station adjacent to an accessible parking space. In non-residential zoned districts, DC charging stations may be installed to satisfy the EVCS requirements described above on a one-for-one basis.
 - e. In addition to the number of required EVCSs, the following accommodations shall be required for the anticipated future growth in market demand for electric vehicles:
 - i. Multiple-Family Residential Land Uses: all new, expanded and reconstructed parking areas shall provide the electrical capacity necessary to accommodate the future hardwire installation of Level 2 EVCSs for a minimum of 50% of required parking spaces.
 - ii. Non-Residential Land Uses: all new, expanded and reconstructed parking areas shall provide the electrical capacity necessary to accommodate the future hardwire installation of Level 2 or higher EVCSs for a minimum of 50% of required parking spaces.
 - f. These requirements may be revised upward or downward by the City Council as part of an application for a conditional use permit or planned unit development based on verifiable information pertaining to parking.

	0-14 parking spaces	15-49 parking spaces		>50 parking spaces	
		Multifamily	Non-residential	Multifamily	Non-residential
Installed EVCS	No req	10%	Qty 2	10%	5%
- Level 2 EVCS	No req	5%	Qty 2	10%	5% (or DC)
- Accessible EVCS	No req	Qty 1	Qty 1	Qty 1	Qty 1
EV Ready	No req	50%	50%	50%	50%

3. General Requirements for EVSE
 - a. Public use EVCS shall be subject to the following requirements:
 - i. The EVCSs shall be located in a manner that will be easily seen by the public for informational and security purposes.
 - ii. The EVCS must be operational during the normal business hours of the use(s) that it serves. EVCS may be de-energized or otherwise restricted after normal business hours of the use(s) it serves.
 - b. Lighting. Site lighting shall be provided where EVCS is installed unless charging is for daytime purposes only.
 - c. Equipment Design Standards.
 - i. EVCS outlets and connector devices shall be mounted to comply with state code and must comply with all relevant Americans with Disabilities Act (ADA) requirements. Equipment mounted on pedestals, lighting posts, bollards, or other devices shall be designed and located as to not impede pedestrian travel or create trip hazards on sidewalks.
 - ii. Electric vehicle charging devices may be located adjacent to designated parking spaces in a garage or parking lot provided the devices do not encroach into the required dimensions of the parking space (length, width, and height clearances).
 - iii. The design should be appropriate to the location and use. Facilities should be able to be readily identified by electric vehicle users and blend into the surrounding landscape/architecture for compatibility with the character and use of the site.
 - iv. EVCS pedestals shall be designed to minimize potential damage by accidents, vandalism and to be safe for use in inclement weather.
 - d. Usage Fees. The property owner may collect a service fee for the use of EVCS.
 - e. Maintenance. EVCS shall be maintained in all respects, including the functioning of the equipment. A phone number or other contact information shall be provided on the equipment for reporting problems with the equipment or access to it.

Construction & Demolition Material Recovery Facilities

The facilities below can sort and process mixed C&D waste materials such as metals, concrete, cardboard, carpet, asphalt, shingles, ceiling tile, vinyl, aluminum siding and wood. Unlike source separation at the job site, a higher frequency of contamination may exist at these facilities. However, they commonly recover 50 to 75% of all materials by weight.

Note that any waste used as alternative daily cover or in waste-to-energy incineration will not be counted as diverted material.

[Atomic Recycling](#)

807 Broadway St NE
Minneapolis, MN 55413
612.623.8888

[Dem-Con Recovery & Recycling](#)

13020 Dem-Con Drive
Shakopee, MN 55379
952.445.5755

[SKB Environmental](#)

13425 Courthouse Blvd
Rosemount, MN 55068
651.438.1500



[Veit Como Recycling & Transfer](#)



1025 33rd Ave SE
Minneapolis, MN 55414
763.428.2242

Soil restoration calculator

Contact city staff for a fillable form

In-site landscaped areas soil should be amended to mimic the physical and biological capabilities of natural and agricultural soils. Organic matter content should achieve a minimum of 5.0% by weight through the incorporation (using a V-ripper or Paraplow) of US Compost Council STA-Certified Compost into site soils to a minimum depth of 6 inches.

KEY:  Blue highlighted areas show constants or outputs calculated by the spreadsheet
 Yellow highlighted areas show required inputs

Area of site to be vegetated	 10,000	sf
Unit weight of topsoil (lbs/cf)	 80	use 80 lbs/cf unless existing soil is tested
Weight of soil to 6" depth to be amended (tons)	 200	tons
Existing percent of organics (tested)	 1.00%	use 1% if existing topsoil is not tested
Weight of compost needed (tons)	 8.50	tons

Healthy Soils requirement

In-site landscaped areas soil should be amended to mimic the physical and biological capabilities of natural and agricultural soils. Organic matter content should achieve a minimum of 5.0% by weight through the incorporation (using a V-ripper or Paraplow) of US Compost Council STA-Certified Compost into site soils to a minimum depth of 6 inches.

A soil amendment calculator is available to calculate US Compost Council STA-Certified Compost required by weight based on the weight of the soil to be amended.

On-site soils may be tested to determine existing organic matter to reduce the amount of US Compost Council STA-Certified Compost required. An existing organic matter content of 1.0% can be assumed if the on-site soils are not tested.

For the purposes of the Healthy Soils Requirement, in-site landscaped areas are all disturbed areas that will be vegetated post-construction.

Establish setbacks and do not rip soils in the following locations:

1. Areas within drip line of existing tree
2. Over buried utilities
3. Where compaction is required for structural reasons (footings, foundations, or inslopes)
4. Inaccessible slopes
5. Stormwater management features (unless required by construction documents)

USCC STA Certified Compost Suppliers

The facilities below are United States Composting Council (USCC) Seal of Test Assurance (STA) Certified. These are facilities who participate in rigorous USCC testing standards. Participants are required to give customers their STA Certified Compost test results upon request. The map and list are also updated on a daily basis on the [USCC website](#).