LEED Green Associate

Activity #3 -Location and Transportation (LT)

Before completing this Activity Read: GA02 - Pgs. 55-57 & GA09 - Pgs. 12-30 (see lorisweb.com)

Note the following abbreviations are used in this activity:

NC LEED BD+C: New Construction and Major Renovation

CS LEED BD+C: Core and Shell Development

S LEED BD+C: Schools

R LEED BD+C: Retail
DC LEED BD+C: Data Centers

WDC LEED BD+C: Warehouses and Distribution Centers

HOS LEED BD+C: Hospitality
HC LEED BD+C: Healthcare

Although the LEED BD+C reference guide does not number the LEED prerequisites and credits, for this exercise they have been numbered in the order presented in the credit category.

Fill-In, Multiple Choice, Matching

 Test your knowledge of how well you know the names of the credits for the Location and Transportation (LT) credit category:

Credit	Name
C1	LEFD for Neighborhood Development Location
C2	Sensitive Land Protection
C3	High Priority Site
C4	Surrounding Density and Diverse Uses
C5	Access to Quality Transit
C6	Bicycle Facilities
C7	Reduced Parking Footprint
C8	Green Vehicles

2. Match the intent shown below to the prerequisite or credit:

Credit	ANS
LT - C1	D
LT - C2	A
LT - C3	F
LT - C4	В
LT - C5	1+
LT - C6	C
LT - C7	E
LT - C8	G

	INTENT
Α	To avoid the development of environmentally sensitive lands and reduce the environmental impact from the location of a building on a site.
В	To conserve land and protect farmland and wildlife habitat by encouraging development in areas with existing infrastructure. To promote walkability, and transportation efficiency and reduce vehicle distance traveled. To improve public health by encouraging daily physical activity.
С	To promote bicycling and transportation efficiency and reduce vehicle distance traveled. To improve public health by encouraging utilitarian and recreational physical activity.
D	To avoid development on inappropriate sites. To reduce vehicle distance traveled. To enhance livability and improve human health by encouraging daily physical activity.
E	To minimize the environmental harms associated with parking facilities, including automobile dependence, land consumption, and rainwater runoff.
F	To encourage project location in areas with development constraints and promote the health of the surrounding area.
G	To reduce pollution by promoting alternatives to conventionally fueled automobiles.
Н	To encourage development in locations shown to have multimodal transportation choices or otherwise reduced motor vehicle use, thereby reducing greenhouse gas emissions, air pollution, and other environmental and public health harms associated with motor vehicle use.

- 3. List examples of existing infrastructure that well-located buildings could take advantage of:
 - 1. public transit
 - 2. Street networks
 - 3. pedestrian paths
 - 4. bicycle networks
 - 5. Services and amenities
 - 6. existing utilities electricity, water, gas, and sewage
- 4. List alternatives to private automobile use encouraged by the Location and transportation (LT) credit category:
 - 1. Walking

 - 2. biking 3. Vehicle shares
 - 4. public transit
- 5. Reusing <u>previously</u> developed land, cleaning up <u>brown field</u> sites, and investing in disadvantaged areas conserve <u>undeveloped</u> land and ensure efficient delivery of services and infrastructure.
- 6. Measuring walking and bicycling distances by how far a pedestrian and bicyclist would travel from a point of origin to a destination is known as the Shortest path analysis
- 7. List examples of infrastructure that makes a walking path safe and comfortable for pedestrians:
 - 1. Sidewalks
 - 2. all-weather-surfaces footpaths
 - 3. crosswalks
 - 4. equivalent pedestrian facilities

3. streets with low target vehicle speeds 9. When determining total parking capacity, include all the off-street spaces available to the project building's users. This may include spaces both inside and outside the project boundary. 10. List the parking spaces that must be included when determining a projects total parking capacity: 1. New and existing surface parking spaces 2. New and existing garage or multilevel parking spaces 3. Any off-street parking spaces outside the project boundary that are available to the building's users. 11. List the parking spaces that should not be included when determining a projects total parking capacity: 1. On-street (parallel or pull-in) parking spaces on public rights of way 2. Parking spaces for fleet and inventory vehicles, unless these vehicles are regularly used by employees for commuting as well as business purposes. 3. Motorbike or bicycle spaces 12. Preferred parking spaces have the shortest walking distance to the <u>Main</u> entrance of the project, exclusive of spaces designated for <u>People</u> with <u>disabilities</u>. 13. Although not encouraged, preferred parking areas and signage for carpool and vanpool vehicles and green vehicles may be combined if 10% of total parking capacity is reserved with this signage and both Reduced Parking Footprint and Green Vehicles credits are achieved. 14. LT Credit LEED for Neighborhood Development Location Requirements Locate the project within the boundary of a development certified under LEED for Neighborhood Development (Stage 2 or Stage 3 under the Pilot or 2009 rating systems, Certified Plan or Certified Project under the LEED v4 rating system). Projects attempting this credit are not eligible to earn points under other Location and Transportation credits. 15. Complete Table 1. Points for LEED ND location: Table 1. Points for LEED ND location Points BD+C Points BD+C Points BD+C Points BD+C Certification Level (NC, R, DC, WDC, HOS) (HC) (CS) (S)

8. List examples of infrastructure that makes bicycling safe and comfortable for bicyclists:

2. off-street bicycle paths or trails

1. on-street bicycle lanes

Certified

Silver

Gold

Platinum

8

10

12

16

8

12

16

20

8

10

12

15

5

6

9

16. L1 Credit Sensitive Land Protection requirements:
OPTION 1. Locate the development <u>footprint</u> on land that has been <u>previously</u> developed
Cocate the development
Or
OPTION 2. Locate the development footprint on land that has been <u>previously</u> developed
or that does not meet the following criteria for sensitive land:
1. Prime Farmland
2. Flood Plains
3. Habitat
4. Water bodies (100 feet)
5. Wetlands (50 feet)
Minor improvements within the <u>Wetland</u> and <u>Water</u> body buffers may be undertaken to enhance appreciation of them, provided such facilities are open to <u>all building users</u> .
Only the following improvements are considered minor:
Bicycle and pedestrian pathways no more than 12 feet wide (3.5 meters), of which no more than
8 feet (2.5 meters) may be impervious;
Activities to maintain or restore <u>native</u> natural communities and/or natural <u>hydrology</u>
One single-story structure per 300 linear feet (90 linear meters) on average, not exceeding 500 Square feet (45 square meters);
Grade changes necessary to ensurepublic access;
Clearings, limited to one per 300 linear feet (90 linear meters) on average, not exceeding 500 Square feet (45 square meters) each;
Removal of the following tree types:
Hazardous trees, up to 75% of dead trees
Trees less than inches (150 millimeters) diameter at breast height
Up to $\frac{20\%}{20\%}$ of trees more than $\frac{6}{20\%}$ inches (150 millimeters) diameter at breast height with a condition rating of $\frac{40\%}{20}$ or higher.
Trees under 40% condition rating The condition rating must be based on an assessment by an arborist certified by the International Society of Arboriculture (ISA) using ISA standard measures, or 10cal equivalent projects outside the U.S.
Brown field remediation activities.
17. One strategy for lessening the environmental consequences of a building is to select a site that has <u>previously</u> been <u>developed</u> and then to limit the building's <u>footprint</u> to the <u>previously</u> developed area.
18. List the options for LT Credit High Priority Site and complete the requirements: OPTION 1. HIStoric District
Locate the project on an location in a his toric district.

Locate the project on	one of the following: National P	Priorities 115	£	
a site listed by the EPA	mpowerment	Zoine	> 1	_; sito:
2 Federal E	in Levarise (community		site; site;
a Federal 1	Enterprise (Renewal Cor	nmunity		site; site;
a Department of the 7	reasury Communi	tu Developme	nt Financial	
			rkets Tax Credit Progra	
a site in a U.S. Departi	ment of Housing and U	Irban Development's	Qualified Cer	nsus Tract (QCT)
a <u>local</u> equiv	valent program admini	stered at the Feo	leva level for proje	cts outside the U.S.
OR OPTION 3. Brow Locate on a brow	nfield Rem	ediation soil or g	roundwater c	_ contamination has
been identified, and w	here the local, state, o	or național authority	(whichever has jurisdic satisfaction of that aut	ction) requires its
OPTION 1 – Surroundi Locate on a site whose	e surrounding existing	density within a <u>//</u>	Mile (400-meter	r) radius of the
Locate on a site whose project boundary mee densities" or the "com	e surrounding existing ets the values in Table abined density" values oints for average density within Separate Res	1. Use either the "se ity within 1/4 mile of 1/4 mile of project (sidential and	parate residential and project (imperial units imperial units) Points BD+C (except Core and	nonresidential s) Points BD+C
Locate on a site whose project boundary mee densities" or the "com Complete Table 1A. Po Table 1A. Points for a Combined Density Square feet per acre	e surrounding existing ets the values in Table abined density" values oints for average density within Separate Res Nonresident Residential Density	1. Use either the "se ity within 1/4 mile of 1/4 mile of project (sidential and ial Densities Nonresidential	parate residential and project (imperial units imperial units) Points BD+C	nonresidential
Locate on a site whose project boundary mee densities" or the "com Complete Table 1A. Po Table 1A. Points for a Combined Density	e surrounding existing ets the values in Table abined density" values oints for average density within Separate Res	1. Use either the "se ty within 1/4 mile of 1/4 mile of project (sidential and ial Densities	parate residential and project (imperial units imperial units) Points BD+C (except Core and	nonresidential s) Points BD+C
Locate on a site whose project boundary mee densities" or the "come Complete Table 1A. Po Table 1A. Points for a Combined Density Square feet per acre of buildable land	e surrounding existing ets the values in Table abined density" values oints for average density within Separate Res Nonresident Residential Density	1. Use either the "se ity within 1/4 mile of 1/4 mile of project (sidential and ial Densities Nonresidential Density (FAR)	parate residential and project (imperial units imperial units) Points BD+C (except Core and Shell)	Points BD+C (Core and Shell)

The following restrictions apply.
A use counts as only <u>One</u> type (e.g., a retail store may be counted only once even if it sells products in several categories).
No more than <u>+wo</u> uses in each use type may be counted (e.g. if five restaurants are within walking distance, only two may be counted).
The counted uses must represent at least <u>three</u> of the <u>five</u> categories, exclusive of the building's primary use.
Warehouses and Distribution Centers OPTION 1. Development and Adjacency Construct or renovate the project on a <u>previously</u> developed site that was used for <u>undustrial</u> or <u>commercial</u> purposes (2 points).
OR
Construct or renovate the project on a site that is both a <u>previously</u> developed and an site. The adjacent sites must be currently used for <u>Industrial</u> or <u>purposes</u> (3 points).
AND/OR
OPTION 2. Transportation Resources Construct or renovate the project on a site that has or
The site is within a <u>lo-mile</u> (16 kilometer) driving distance of a main logistics hub, defined as an airport, seaport, intermodal facility, or freight village with intermodal transportation.
The site is within a (1 600-meter) driving distance of an on-off ramp to a highway.
The site is within a (1 600-meter) driving distance of an access point to an active freight rail line.
The site is served by an active frieght rail Spur.
In all cases, a planned transportation resource must be sited, funded, and under construction by the date of the <u>certificate</u> of <u>occupancy</u> and complete within <u>months</u> of that date.
Healthcare OPTION 1. Surrounding Density Locate on a site whose surrounding existing density within a

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O	ווא	UN	1.	Diverse	USES

Construct or renovate a building on a site such that the building's main entrance is within a 1/2 mile (800-meter) walking distance of the main entrance of at least 5even operational and publicly accessible uses (listed in Appendix 1).

The following restrictions apply.

A use counts as only <u>One</u> type (e.g., a retail store may be counted only once even if it sells products in several categories).

No more than wo uses in each use type may be counted (e.g. if five restaurants are within walking distance, only two may be counted).

The counted uses must represent at least <u>twee</u> of the <u>five</u> categories, exclusive of the building's primary use.

20. List the categories for uses types:

- 1. Food retail
- 2. community serving retail
- 3. Services
- 4. Civic and community facilities
- 5. Community anchor Use (BD+c and ID+c only)
- 21. To be considered a previously developed site, the land area must be $\frac{75 \%}{}$ previously developed
- 22. LT Credit Access to Quality Transit requirements:

NC, CS, DC, WDC, HOS

Locate any functional entry of the project within a //www.nc.en.ne.com/yes/400-meter) walking distance of existing or planned //www.nc.en.ne.com/yes/400-meter) walking distance of existing or commuter //www.nc.e

light or heavy <u>rail</u> stations, <u>commuter rail</u> stations, or commuter <u>ferry</u> terminals. The transit service at those stops and stations in aggregate must meet the minimums listed in Tables 1 and 2. Planned stops and stations may count if they are <u>sited</u>, <u>funded</u>, and <u>under</u> construction by the date of the <u>certificate</u> of <u>occupancy</u> and are complete within 24 months of that date.

Both weekday and weekend trip minimums must be met.

Qualifying transit routes must have <u>paired</u> route service (service in opposite directions).

For each qualifying transit route, only trips in <u>One</u> direction are counted towards the threshold.

If a qualifying transit route has multiple stops within the required walking distance, only trips from ONC stop are counted towards the threshold.

Complete Table 1. Minimum daily transit service for projects with multiple transit types (bus, streetcar, rail, or ferry)

Weekday Trips	Weekend Trips	Points BD+C (except Core and Shell)	Points BD+C (Core and Shell)
72	40	1	1
144	108	3	3
360	216	5	6

Complete Table 2. Minimum daily transit service for projects with commuter rail or ferry service only

Weekday Trips	Weekend Trips	Points (All Projects)
24	6	1
40	8	2_
60	12	3

Projects served by $\pm wo$ or more transit routes such that no one route provides more than 60% of the documented levels may earn $ext{one}$ additional point, up to the maximum number of points.

If existing transit service is temporarily rerouted outside the required distances for less than <u>two</u> years, the project may meet the requirements, provided the local transit agency has committed to restoring the routes with service at or above the prior level.

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SC	noo	IS

OPTION 1. Transit-Served Location (1-4 points)
Locate any functional entry of the project within a 1/4 mile (400-meter) walking distance of existing or
planned bys , streetcar , or <u>Videshare</u> stops, or within a 1/2 mile (800-meter)
walking distance of existing or planned by rapid transit Stops
light or heavy rail stations, commuter rail stations, or commuter
ferry terminals. The transit service at those stops and stations in aggregate must meet the
minimums listed in Tables 1 and 2. Planned stops and stations may count if they are <u>Sited</u> , <u>tunded</u> ,
and under construction by the date of the certificate of occupancy and
are complete within <u>24</u> months of that date.
Qualifying transit routes must have Paired route service (service in opposite directions).

For each qualifying transit route, only trips in One direction are counted towards the threshold.

If a qualifying transit route has multiple stops within the required walking distance, only trips from $\underline{\text{ONC}}$ stop are counted towards the threshold.

Complete Table 1. Minimum daily transit service for projects with multiple transit types (bus, streetcar, rail, or ferry)

Table 1. Minimum daily transit serv transit types (bus, streetcar, rail, or	
Weekday Trips	Points
72	1
144	2
360	4

Complete Table 2. Minimum daily transit service for projects with commuter rail or ferry service only

Weekday Trips	Points
24	1
40	2
60	3

Table 2. Minimum daily transit service for projects with commuter

Projects served by <u>two</u> or more transit routes such that no one route provides more than 60% of the prescribed levels may earn one additional point, up to the maximum number of points. If existing transit service is temporarily rerouted outside the required distances for less than two years. the project may meet the requirements, provided the local transit agency has committed to restoring the routes with service at or above the prior level. OR **OPTION 2. Pedestrian Access** Show that the project has an attendance boundary such that the specified percentages of students live within no more than a 3/4-mile (1200-meter) walking distance (for grades 8 and below, or ages 14 and below), and 1/2 mile (2400-meter) walking distance (for grades 9 and above or ages 15 and above) of a functional entry of a school building. Points are awarded according to Table 3. Complete Table 3. Points for student population within walking distance Table 3. Points for student population within walking distance **Percentage of Students** 50% 60% 70% or more In addition, locate the project on a site that allows <u>Pedestrian</u> access to the site from residential neighborhoods that house the planned student population. Healthcare Locate any functional entry of the project within a 14 mile (400-meter) walking distance of existing or planned bus, Streetcar, or rideshare stops, or within a 1/2 mile (800-meter) walking distance of existing or planned bus rapid transit Stops light or heavy rail stations, commuter rail stations, or commuter terminals. The transit service at those stops and stations in aggregate must meet the minimums listed in Tables 1 and 2. Planned stops and stations may count if they are Sited, funded, and under construction by the date of the cert hicate of occupancy are complete within $\frac{\lambda}{4}$ months of that date. Both Weekday and Weekend trip minimums must be met. Qualifying transit routes must have <u>paired</u> route service (service in opposite directions).

For each qualifying transit route, only trips in <u>one</u> direction are counted towards the threshold.

If a qualifying transit route has multiple stops within the required walking distance, only trips from ONC stop are counted towards the threshold.

Complete Table 1. Minimum daily transit service for projects with multiple transit types (bus, streetcar, rail, or ferry)

Weekday Trips	Weekend Trips	Points
72	40	l
144	18	2

Complete Table 2. Minimum daily transit service for projects with commuter rail or ferry service only

Veekday Trips	Weekend Trips	Points
24	6	1
40	8	7

Projects served by $\frac{+\omega o}{}$ or more transit routes such that no one route provides more than $\frac{60\%}{}$ of the documented levels may earn $\frac{ove}{}$ additional point, up to the maximum number of points.

	If existing transit service is temporarily rerouted outside the required distances for less than <u>hwo</u> years, the project may meet the requirements, provided the local transit agency has committed to restoring the routes with service at or above the prior level.
23.	LT Credit Bicycle Facilities requirements: NC, CS, DC, WDC, HOS
	Bicycle Network
	Design or locate the project such that a functional entry and/or bicycle storage is within a 200 - y and
	(180-meter) walking distance or bicycling distance from a bicycle network that connects to at
	least one of the following:
	at least 10 diverse uses (see Appendix 1);
	a School or employment center, if the project total floor area is 50% or more
	residential; or
	residential; or a bus rapid transit stop , light or heavy rail station, <u>Commuter rail</u> station or <u>ferry</u> terminal.
	or <u>terry</u> terminal.
	All destinations must be within a 3-mile (4800-meter) bicycling distance of the project boundary.
	Planned bicycle trails or lanes may be counted if they are <u>fully</u> funded by the date of the certificate of occupancy and are scheduled for completion within <u>one year</u> of that date.
	Discusso Starger and Chauser Dooms
	Bicycle Storage and Shower Rooms Case 1. Commercial or Institutional Projects
	Provide Short-term bicycle storage for at least 2.5% of all peak visitors, but no fewer
	than four storage spaces per building.
	Provide long-term bicycle storage for at least 5 % of all regular building occupants, but
	no fewer than four storage spaces per building in addition to the short-term bicycle storage spaces.
	Provide at least <u>one</u> on-site shower with changing facility for the first <u>ioo</u> regular building occupants and <u>one</u> additional shower for every <u>i50</u> regular building occupants thereafter.
	Casa 2 Pasidential Projects
	Case 2. Residential Projects Provide <u>Short-term</u> bicycle storage for at least <u>2.5 %</u> of all <u>peak</u> visitors but no fewer
	than <u>four</u> storage spaces per building.
	than 4000 storage spaces per building.
	Provide <u>long-term</u> bicycle storage for at least <u>30%</u> of all regular building occupants, but no less than <u>one</u> storage space per residential unit.
	no less than <u>one</u> storage space per residential unit.
	C - 2 AV - I W- Projects
	Case 3. Mixed-Use Projects Meet the Case 1 and Case 2 storage requirements for the NONVE SIdentia and
	wieer the case 1 and case 2 storage requirements for the 1110/11 60 10/01/11/11 did

_____ portions of the project, respectively.

For all Projects Short-term bicycle storage must be within 100-feet (30 meters) walking distance of any Main
entrance. Long-term bicycle storage must be within 100 feet (30 meters) walking distance of any functional entry.
Bicycle storage capacity may not be <u>double</u> -counted: storage that is fully allocated to the occupants of nonproject facilities cannot also serve project occupants.
Core and Shell projects should refer to Appendix 2, Default Occupancy Counts, for occupancy count requirements and guidance.
Schools
Bicycle Network
Design or locate the project such that a functional entry and/or bicycle storage is within a 200-yard (180-meter) walking distance or bicycling distance of a bicycle network that connects to at least of the following:
at least diverse uses (see Appendix 1); or a bus rapid transit stop, light or heavy rail station, Commuter rail station, orferry terminal
All destinations must be within a $3-m/e$ (4800-meter) bicycling distance of the project boundary.
Provide <u>dedicated</u> bicycle lanes that extend at least to the <u>end</u> of the school property with no barriers (e.g., fences) on school property.
Planned bicycle trails or lanes may be counted if they are <u>folly</u> funded by the date of the certificate of occupancy and are scheduled for completion within <u>one year</u> of that date.
Bicycle Storage and Shower Rooms Provide long-term bicycle storage for at least 5% of all regular building occupants (excluding students grade 3 and younger), but no fewer than four storage spaces per building.
Provide at least <u>one</u> on-site shower with changing facility for the first <u>100</u> regular building occupants (excluding students) and <u>one</u> additional shower for every <u>150</u> regular building occupants (excluding students) thereafter.
Long-term storage spaces must be easily accessible to occupants and be within
Retail
Bicycle Network
Design or locate the project such that a functional entry and/or bicycle storage is within a 200-yard
(180-meter) <u>walking</u> distance or <u>bicycling</u> distance from a bicycle network that connects to at least <u>one</u> of the following:
at least 10 diverse uses (see Appendix 1);
a bus rapid transit stop, light or heavyrail station, commuter rail station, or ferry terminal.
All destinations must be within a $3-mi/c$ (4800-meter) bicycling distance of the project boundary.
Planned bicycle trails or lanes may be counted if they are <u>fully</u> funded by the date of the certificate of occupancy and are scheduled for completion within <u>one year</u> of that date.
certificate of occupancy and are scheduled for completion within one year of that date.
Bicycle Storage and Shower Rooms
Provide at least <u>+wo</u> short-term bicycle storage spaces for every <u>5,000</u> square feet (465 square
meters), but no fewer than $+\omega =$ storage spaces per building.

Provide long-term bicycle storage for at least $\frac{5\%}{}$ of regular building occupants, but no fewer than storage spaces per building in addition to the short-term bicycle storage spaces.
Provide at least <u>one</u> on-site shower with changing facility for the first <u>ioo</u> regular building occupants and <u>one</u> additional shower for every <u>i50</u> regular building occupants thereafter.
Short-term bicycle storage must be within 100-feet (30 meters) walking distance of any Main entrance.
Long-term bicycle storage must be within 100-feet (30 meters) walking distance of any functional entry.
Bicycle storage capacity may not be doublecounted: storage that is fully allocated to the occupants of nonproject facilities cannot also serve project occupants.
Provide a bicycle <u>Main Lenance</u> program for employees or bicycle for employees and customers.
Route assistance must be provided in a manner easily accessible to both <u>employees</u> and customers.
For projects that are part of a <u>multilenant</u> complex only: If bicycle storage spaces have been provided in the complex in which the project is located, determine the number of spaces that may be attributed to the project by dividing the project's <u>flov</u> area by the <u>formal</u> floor area of the development (buildings only) and multiplying the percentage result by the total number of spaces. If this number does not meet the credit requirement, the project must provide additional bicycle storage.
Healthcare Bicycle Network Design or locate the project such that a functional entry and/or bicycle storage is within a 200-y and (180-meter) walking distance or bicycling distance from a bicycle network that connects to at least one of the following:
at least <u>IO</u> diverse uses (see Appendix 1);
a bus rapid transit Stop, light or heavy rail station, Commuter rail station, or ferry terminal.
All destinations must be within a $3-mile$ (4800-meter) bicycling distance of the project boundary.
Planned bicycle trails or lanes may be counted if they are <u>folly</u> funded by the date of the certificate of occupancy and are scheduled for completion within <u>one</u> <u>year</u> of that date.
Bicycle Storage and Shower Rooms Case 1. Commercial or Institutional Projects Provide short-term bicycle storage for at least 2,5% of all peak visitors, but no fewer than four storage spaces per building.
Provide long-term bicycle storage for at least 5% of regular building occupants (excluding patients), but no fewer than 5% storage spaces per building in addition to the short-term bicycle storage spaces.
Provide at least <u>One</u> on-site shower with changing facility for the first <u>100</u> regular building occupants (excluding patients) and <u>One</u> additional shower for every <u>150</u> regular building occupants thereafter.
Case 2. Residential Projects Provide <u>Secure</u> , <u>enclosed</u> bicycle storage for at least <u>30 %</u> of all regular building occupants (excluding patients) measured at <u>peak</u> periods, but no less than <u>one</u> storage space per residential unit.

	Short-term bicycle storage must be within 100-feet (30 meters) walking distance of any main entrance. Long-term bicycle storage must be within 100 feet (30 meters) walking distance of any functional entry.
	Bicycle storage capacity may not becounted: storage that is fully allocated to the occupants of nonproject facilities cannot also serve project occupants.
24.	LT Credit Reduced Parking Footprint requirements: Do not exceed the local code requirements for parking capacity.
	Provide parking capacity that is a percentage reduction below the <u>base</u> ratios recommended by the Parking Consultants Council, as shown in the <u>Institute of Transportation Engineers' Transportation Planning</u> Handbook, 3rd edition, Tables 18-2 through 18-4.
	Case 1. Baseline Location Projects that have not earned points under LT Credit Surrounding Density and Diverse USES or LT Credit Access to Quality Transit must achieve a 20% reduction from the base ratios.
	Case 2. Dense and/or Transit-Served Location Projects earning or more points under either LT Credit Surrounding Density and Diverse Uses or LT Credit Access to Quality Transit must achieve a reduction from the base ratios.
	For All Projects The credit calculations must include all <u>existing</u> and <u>new</u> off-street parking spaces that are leased or owned by the project, including parking that is <u>outside</u> the project boundary but is used by the project. On-street parking in public rights-of-way is <u>excluded</u> from these calculations.
	For projects that use <u>pooled</u> parking, calculate compliance using the project's share of the pooled parking. Provide preferred parking for carpools for <u>5 %</u> of the total parking spaces after reductions are made from the base ratios. Preferred parking is not required if no <u>off-Street</u> parking is provided.
	Mixed-use projects should determine the percentage reduction by first <u>aggregating</u> the parking amount of each use (as specified by the base ratios) and then determining the percentage reduction from the aggregated parking amount.
	Do not count parking spaces for <u>fleet</u> and <u>inventory</u> vehicles unless these vehicles are regularly used by employees for <u>commuting</u> as well as <u>business</u> purposes.
	LT Credit Reduced Parking Footprint Exemplary Performance Case 1. Achieve a 60% parking reduction from the base ratios. Case 2. Achieve a 80% parking reduction from the base ratios.
	LT Credit Green Vehicles Requirements: NC, CS, DC, HOS, R, HC Designate 5% of all parking spaces used by the project as preferred parking for green vehicles. Clearly identify and enforce for sole use by green vehicles. Distribute preferred parking spaces proportionally among various parking sections (e.g. between short-term and long-term spaces).
	Green vehicles must achieve a minimum green score of <u>45</u> on the American Council for an Energy Efficient Economy (ACEEE) annual vehicle rating guide (or local equivalent for projects outside the U.S.).

For all Projects

A discounted parking rate of at least
In addition to preferred parking for green vehicles, meet one of the following two options for alternative-fuel fueling stations:
Option 1. Electric Vehicle Charging Install electrical vehicle supply equipment (EVSE) in
The EVSE must: Provide a Level charging capacity (208 – 240 volts) or greater.
Comply with the relevant <u>regional</u> or <u>local</u> standard for electrical connectors, such as SAE Surface Vehicle Recommended Practice J1772, SAE Electric Vehicle Conductive Charge Coupler or IEC 62196 of the International Electrotechnical Commission for projects outside the U.S.
Be <u>networked</u> or internet addressable and be capable of participating in a <u>demand</u> -respons program or <u>time-of-use</u> pricing to encourage <u>off-peak</u> charging
OR
Option 2. Liquid, gas, or battery facilities Install <u>liquid</u> or <u>gas</u> alternative fuel fueling facilities or a battery switching station capable of refueling a number of vehicles per day equal to at least <u>gas</u> of all parking spaces.
Option 1. Green passenger vehicles Designate 5% of all parking spaces used by the project as preferred parking for green vehicles. Clearly identify and enforce for sole use by green vehicles. Distribute preferred parking spaces proportionally among various parking sections (e.g. between short-term and long-term spaces).
Green vehicles must achieve a minimum green score of <u>45</u> on the American Council for an Energy Efficient Economy (ACEEE) annual vehicle rating guide (or local equivalent for projects outside the U.S.)
A discounted parking rate of at least 20% for green vehicles is an acceptable substitute for preferred parking spaces. The discounted rate must be publicly posted at the entrance of the parking area and permanently available to all qualifying vehicle.
In addition to preferred parking for green vehicles, meet one of the following two options for alternative-fuel fueling stations:
Path 1. Electric Vehicle Charging Install electrical vehicle supply equipment (EVSE) in 2% of all parking spaces used by the project. Clearly identify and Veserve these spaces for the sole use by plug-in electric vehicles. EVSE parking Spaces for green vehicles.
The EVSE must: Provide a Level charging capacity (208 – 240 volts) or greater. Comply with the relevant regional or loca / standard for electrical connectors, such as SAE Surface Vehicle Recommended Practice J1772, SAE Electric Vehicle Conductive Charge Coupler or IEC 62196 of the International Electrotechnical Commission for projects outside the U.S.

