

LEED-ND CHECKLIST

LEED ND is a standardized guide to Neighbourhood Development that encourages environmental, social and economic responsibilities to be upheld.

LEED for Neighbourhood Development Project Checklist

Column Descriptions

Yes = Y if prereq is achievable, # of points earned for credits
 ?DT = maybe, design team possibility
 ?O/D = maybe, owner/developer possibility
 No = 1 if not achievable

Central Green
 Kelowna, BC

| Yes | ?DT | ?O/D | No | | Option | 30 Points | Comments & Follow Up |
|-----|-----|------|----|---|--------|-----------|----------------------|
| 14 | 13 | 0 | 2 | Smart Location And Linkage (SLL) | | | |

| | | | | | | | | |
|---|---|--|--|-----------|--|-----|----------|---|
| Y | | | | Prereq 1 | Smart Location | 1 | Required | Project is located on an infill site |
| Y | | | | Prereq 2 | Proximity to Water and Wastewater Infrastructure | 1 | Required | Project is serviced |
| Y | | | | Prereq 3 | Imperiled Species and Ecological Communities | ? | Required | Dependent on whether city has a habitat conservation plan |
| Y | | | | Prereq 4 | Wetland and Water Body Conservation | 1 | Required | Project site has no waterbodies, wetlands or riparian areas |
| Y | | | | Prereq 5 | Farmland Conservation | 1 | Required | Site does not compromise any prime soils - double check this |
| Y | | | | Prereq 6 | Floodplain Avoidance | 1 | Required | Double check on floodplain areas - go with option 2 if within the floodplain |
| | | | | Credit 1 | Brownfield Redevelopment | - | 2 | Double check on past site uses |
| | | | | Credit 2 | High Priority Brownfields Redevelopment | - | 1 | Site is not a high priority federal development site |
| 6 | 4 | | | Credit 3 | Preferred Location | - | 10 | Dependent on street density calculation |
| 2 | 6 | | | Credit 4 | Reduced Automobile Dependence | 1&3 | 8 | Dependent on transit frequency (5 points) & carshare allocation (1 point) |
| 1 | | | | Credit 5 | Bicycle Network | - | 1 | The proposed bike network along the creek is close by; bring a bike route into the site as well. |
| 3 | | | | Credit 6 | Housing and Jobs Proximity | 1 | 3 | Dependent on # of jobs within 1/2 mile being 50% # residential units |
| | | | | Credit 7 | School Proximity | - | 1 | Dependent on what counts as a school |
| 1 | | | | Credit 8 | Steep Slope Protection | 1 | 1 | Site has no steep slopes |
| 1 | | | | Credit 9 | Site Design for Habitat or Wetland Conservation | 2 | 1 | Use 90% native species vegetation and no invasive species |
| | | | | Credit 10 | Restoration of Habitat or Wetlands | - | 1 | Dependent on determination of historical presence of habitat and wetlands |
| | | | | Credit 11 | Conservation Management of Habitat or Wetlands | - | 1 | There is currently no habitat or wetlands on site. If we create some, perhaps we can investigate this credit. |

| Yes | ?DT | ?O/D | No | | Option | 39 Points | Comments & Follow Up |
|-----|-----|------|----|---|--------|-----------|----------------------|
| 23 | 10 | 3 | 2 | Neighbourhood Pattern and Design (NPD) | | | |

| | | | | | | | | |
|---|---|--|--|-----------|------------------------------------|----------|----------|--|
| Y | | | | Prereq 1 | Open Community | - | Required | Project will be non-gated, publically accessible |
| Y | | | | Prereq 2 | Compact Development Required | - | Required | Ensure project has > 7 units/acre & > 0.5 FAR for non-residential development |
| 3 | 4 | | | Credit 1 | Compact Development | - | 7 | Based on 1.5 > FAR ≥ 2. Double check site boundary. May vary for different concepts |
| 4 | | | | Credit 2 | Diversity of Uses | - | 4 | Ensure residential units are within 1/2 mile walk of 10 amenities |
| 1 | 2 | | | Credit 3 | Diversity of Housing Types | - | 3 | Dependent on # of units & # of housing types. May vary for different concepts |
| | | | | Credit 4 | Affordable Rental Housing | - | 2 | Dependent on rental allocation |
| | | | | Credit 5 | Affordable For-Sale Housing | - | 2 | Dependent on affordable sale allocation |
| 2 | | | | Credit 6 | Reduced Parking Footprint | - | 2 | Most parking will be underground |
| 8 | | | | Credit 7 | Walkable Streets | multiple | 8 | Dependent on what project boundaries are. Double check amenity proximity, speed limits, options within credit |
| | | | | Credit 8 | Street Network | ? | 2 | Dependent on street grid density nearby or onsite & project boundary |
| | | | | Credit 9 | Transit Facilities | - | 1 | Dependent on project boundaries |
| | | | | Credit 10 | Transportation Demand Management | ? | 2 | Up to owner/operator |
| 1 | | | | Credit 11 | Access to Surrounding Vicinity | - | 1 | Double check that there is 1 entry road every 800' on project boundary. May vary for different concepts. |
| 1 | | | | Credit 12 | Access to Public Spaces | - | 1 | Half the site is (or is near) a park |
| 1 | | | | Credit 13 | Access to Active Public Spaces | 1 | 1 | Half the site is (or is near) a park |
| | | | | Credit 14 | Universal Accessibility | - | 1 | Up to the developer and owner/operator to ensure |
| 1 | | | | Credit 15 | Community Outreach and Involvement | - | 1 | We're doing this with the forums. Ensure that communication means is established between community and developer |
| 1 | | | | Credit 16 | Local Food Production | 1,2 or 3 | 1 | Choose best-suited option. May vary for different concepts |

| Yes | ?DT | ?O/D | No | | Option | 31 Points | Comments & Follow Up |
|-----|-----|------|----|--|--------|-----------|----------------------|
| 11 | 2 | 15 | 2 | Green Construction and Technology (GCT) | | | |

| | | | | | | | | |
|---|--|--|--|-----------|--|--------|----------|---|
| Y | | | | Prereq 1 | Construction Activity Pollution Prevention | - | Required | Program to be used by developer |
| | | | | Credit 1 | LEED Certified Green Buildings | ? | 3 | May vary for different concepts |
| | | | | Credit 2 | Energy Efficiency in Buildings | ? | 3 | Dependent on developer's plans |
| 1 | | | | Credit 3 | Reduced Water Use | - | 3 | 1 point for landscaping |
| | | | | Credit 4 | Building Reuse and Adaptive Reuse | - | 2 | Dependent on intent to maintain the on-site building |
| | | | | Credit 5 | Reuse of Historic Buildings | - | 1 | No historic buildings on site |
| 1 | | | | Credit 6 | Minimize Site Disturbance through Site Design | 1 | 1 | Project is on a 100% previously developed site |
| 1 | | | | Credit 7 | Minimize Site Disturbance during Construction | 3 | 1 | Preserve trees on site |
| | | | | Credit 8 | Contaminant Reduction in Brownfields Remediation | - | 1 | Dependent on earning SLL 1 and treating soil, if contaminated |
| 5 | | | | Credit 9 | Stormwater Management | - | 5 | Dependent on project boundary |
| 1 | | | | Credit 10 | Heat Island Reduction | 1 | 1 | Can design to use impervious surfaces, shading, open grid pavement system and underground parking |
| 1 | | | | Credit 11 | Solar Orientation | 1 or 2 | 1 | May vary for different concepts |
| | | | | Credit 12 | On-Site Energy Generation | ? | 1 | Developer decision |
| | | | | Credit 13 | On-Site Renewable Energy Sources | ? | 1 | Site is prime for geothermal energy systems |
| | | | | Credit 14 | District Heating & Cooling | - | 1 | Unlikely that this will be developed on site |
| 1 | | | | Credit 15 | Infrastructure Energy Efficiency | - | 1 | Dependent on developer purchasing, but likely |
| | | | | Credit 16 | Wastewater Management | - | 1 | Developer decision |
| | | | | Credit 17 | Recycled Content for Infrastructure | - | 1 | Developer decision |
| | | | | Credit 18 | Construction Waste Management | - | 1 | Developer decision |
| | | | | Credit 19 | Comprehensive Waste Management | - | 1 | Developer decision |
| | | | | Credit 20 | Light Pollution Reduction | - | 1 | Developer decision |

| Yes | ?DT | ?O/D | No | | Option | 6 Points | Comments & Follow Up |
|-----|-----|------|----|--------------------------------------|--------|----------|----------------------|
| 1 | 4 | 1 | 0 | Innovation and Design Process | | | |

| | | | | | | | | |
|--|--|--|--|------------|------------------------------|---|---|---|
| | | | | Credit 1.1 | Innovation in Design | 1 | 1 | Can we think of something here? |
| | | | | Credit 1.2 | Innovation in Design | 1 | 1 | Can we think of something here? |
| | | | | Credit 1.3 | Innovation in Design | 1 | 1 | Can we think of something here? |
| | | | | Credit 1.4 | Innovation in Design | 1 | 1 | Can we think of something here? |
| | | | | Credit 1.5 | Innovation in Design | 1 | 1 | Developer/owner/operator to think of something here |
| | | | | Credit 2 | LEED Accredited Professional | 1 | 1 | |

| | | | | | | | |
|----|----|----|---|---|--|-------------------|--|
| 49 | 29 | 19 | 6 | Project Totals (pre-certification estimates) | | 106 Points | |
|----|----|----|---|---|--|-------------------|--|

Certified: 40-49 Silver: 50-59 Gold: 60-79 Platinum: 80-106

General Sustainable Elements

- LEED ND certification; LEED NC certifications; LEED Homes certifications
- Ambitious minimum energy performance standard set
- Max GHG emissions standard set (no more than 10% of energy from fossil fuels)
- 100% on-site storage, infiltration and/or treatment of stormwater
- On-site grey water treatment
- On-site energy production (geoexchange; solar thermal; cogeneration plant)
- Meet most LEED NC and ND requirements/credits for open space and site
- Minimized surface parking to maximize other land uses
- Optimize passive solar gains through orientation to south
- IDP is utilized throughout development, is clearly mapped out by development teams, and continues to involve City and community stakeholders at key points throughout
- Special attention to way finding
- Recognition of cultural history of site
- Pedestrian / Cycling connections to trail networks, surrounding neighbourhoods and lake
- Focus on cultural and public art pieces
- Agricultural production on-site (community gardens)

