



# Welcome

Going for **GOLD** LEED Certification

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LEED Gold

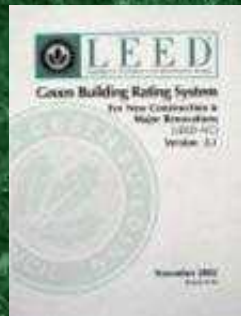
# What is LEED?



- LEED is quality control system
- LEED is performance above Building Code
- 3<sup>rd</sup> party certification (Canada Green Building Council)
- 4 performance levels (Certified, Silver, Gold, Platinum)

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# What is LEED Rating?



- Green Building Rating System
- Based on Energy & Environmental Performance
- National & International Standards

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# LEED

## Achieving Built Environment



- **Healthier**
- **Economical**
- **More productive**
- **Less environmental impact**
- **Sustainable**

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# Cambridge City Hall Design Objectives



- **LEED**
- **Emergency Operations**
- **Public Participation**
- **Heritage**

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# Sustainable Sites



- **Redevelopment of Contaminated Site**
- **Alternative Transportation**
- **Reduced Site Disturbance**
- **Light Pollution Reduction**

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# Water Efficiency



- Water efficient landscaping
- Innovative wastewater technologies
- Water use reduction
- Grey water system

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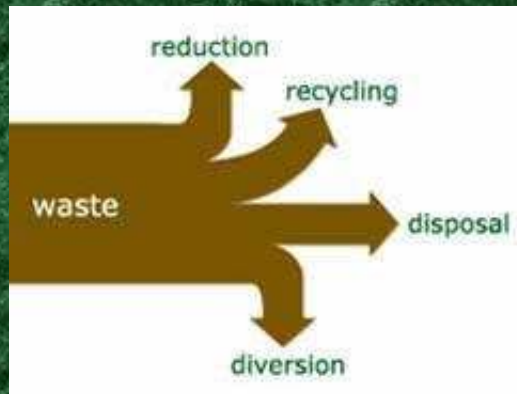
# Energy & Atmosphere



- Energy Efficient
- Optimize Energy Performance
- Renewable Energy
- Measurement & Verification
- Green Power

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# Materials & Resources



- **Storage and collection of recyclables**
- **Building reuse**
- **Construction waste management**
- **Resource reuse**

# Materials & Resources cont.



- **Recycled content**
- **Regional materials**
- **Rapidly renewable materials**
- **Certified wood**
- **Durable building**

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# Indoor Environmental Quality



- Minimum IAQ performance
- Environmental tobacco smoke control
- Carbon dioxide monitoring
- Ventilation effectiveness
- Construction IAQ management plan

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# Indoor Environmental Quality – cont.

- **Low-emitting materials**
- **Indoor chemical & pollutant source control**
- **Controllability of systems**
- **Thermal comfort**
- **Daylight and views**

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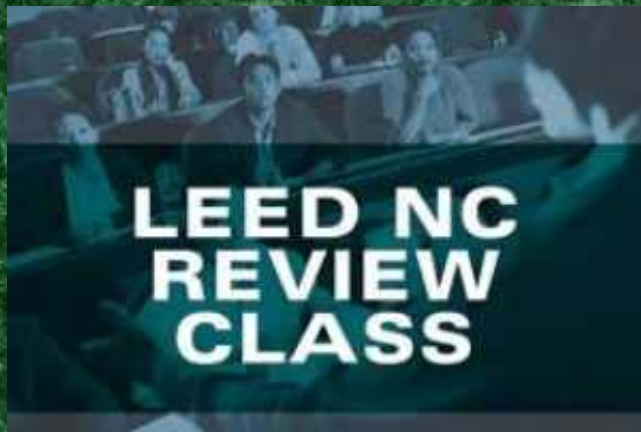
# LEED innovation credits



- Green roof
- Vegetated green wall
- Green Housekeeping
- Exceptional water use reduction
- Education kiosk

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# LEED accredited professional



- Receive the LEED certification process
- Staff-Accredited Professionals

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# Cambridge City Hall -Site



- Silt fence, storm water protection, dust control
- Not on ecol.sensitive land
- 3 oil underground tanks
- 8 buses stop within 400m, bicycle storage, showers
- Open green pavement, green roof

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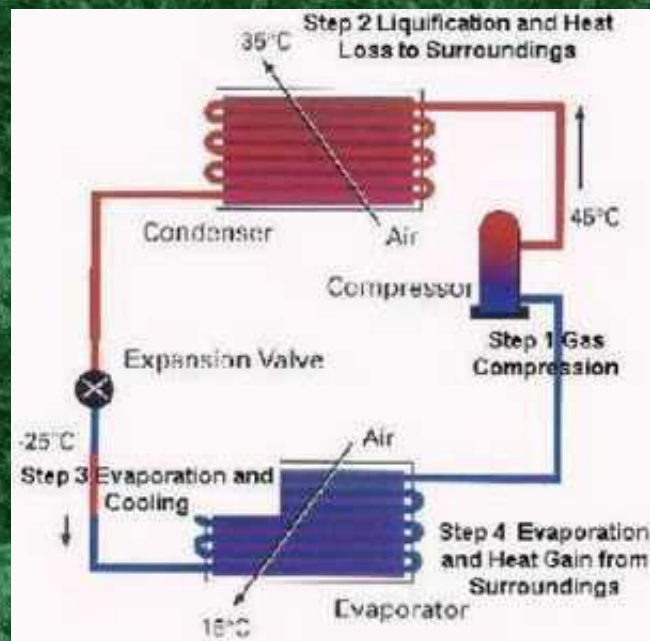
# Water Efficiency



- **Water efficient landscaping**
- **Innovative wastewater technologies**
- **Water use reduction**
- **No permanent irrigation system**
- **Grey Water System**

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# Energy & Atmosphere



- 3rd party design, commissioning plan
- Building meets energy performance
- Non-CFC refrigerants
- Reduce energy cost by 43%
- HFC refrigerants
- Purchase green power

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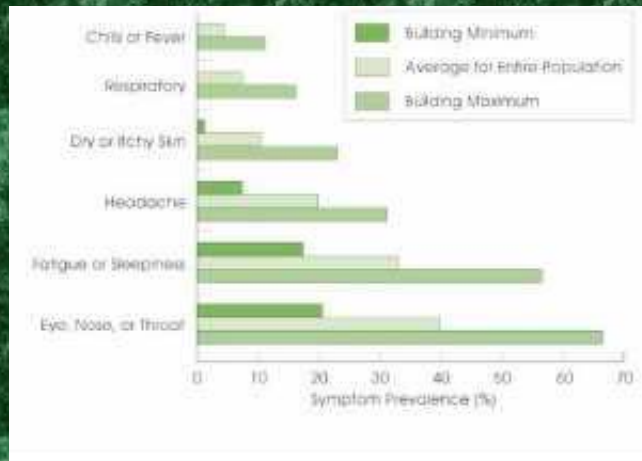
# Materials & Resources



- Permanent recycling area in the building
- Divert 80% of waste from landfill
- Materials with high recycled content
- Within 800km
- Design & implement a durable building

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# Indoor Environmental Quality



- **Smoking Policy**
- **CO2 sensors**
- **High performance ventilation**
- **IAQ testing**
- **VOC contents below limits**
- **Above ASHRAE Standard**
- **75% with natural light and 90% direct view**

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# LEED Levels

Levels	Points
Certified.....	26 – 32
Silver.....	33 – 38
Gold.....	39 – 51
Platinum.....	52 or more

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# LEED Process



1. Registration
2. Design Submittal
3. Construction Submittal & Award

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## **In Summary LEED was created to:**

- **DEFINE "Green Building" by establishing a common standard of measurement**
- **PROMOTE integrated, whole building design practices**
- **RECOGNIZE environmental leadership in the building industry**
- **RAISE consumer awareness of green building benefits**
- **TRANSFORM the building market**

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# THANK YOU

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