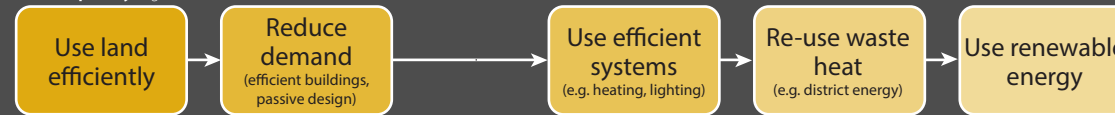




Order of priority (highest to lowest)



Now



Why it Matters:

- Green buildings use less energy and water and cost less to operate.
- Green buildings support healthy ecosystems.
- Buildings can last a long time, so it's important to make smart choices.
- Green building knowledge and technologies are an important part of the green economy.

Now:

Burnaby already has many green residential, office, school and city buildings.

Did you know?

- UniverCity, Burnaby's award-winning sustainable community, is home to over 4,000 people. It has green buildings (energy efficient and water efficient), and a district energy system.
- UniverCity Childcare Centre is a "regenerative" building that produces all its own energy, treats its own waste water and uses only the safest materials.
- New City facilities like the Edmonds Aquatic and Community Centre and the Tommy Douglas Library have green features that help to reduce operating costs and protect the environment.

Living in Harmony with Nature

Harmony House is a "net-zero energy" house in south Burnaby designed to produce more energy than it uses - including charging the family's electric car!

Future



Goal

Buildings and infrastructure that have a positive impact on the environment.

Control: Medium level of City control and influence.



Actions by City:



C3.1 Meet updated BC Building Code energy efficiency requirements for new buildings.

Suggested Actions:

- Explore ways to improve the skills and knowledge of professionals about energy efficiency requirements in the BC Building Code, for example supporting and promoting programs through BCIT, the Province, BC Hydro and APEGBC.



Review issues and possible opportunities to improve compliance, such as with requirements for review of development proposals by an energy professional.



C3.2 Improve building design and construction to meet higher standards of environmental performance.

Suggested Actions:

- Consider policy approaches to encourage higher levels of energy

efficiency than required in the BC Building Code, and reduced GHG emissions, in new larger (Part 3 BCBC) buildings, including:

- alignment with provincial Building Act and Step Code;
- integration with existing City development application policy;
- incentives such as grants for innovative projects.



Develop policy recommendations for encouraging higher performing buildings through the City's development application process, based upon provincial Step Code or other appropriate performance-based criteria.

- Encourage policy approaches to encourage higher levels of energy efficiency than required in the BC Building Code, and reduced GHG emissions, in new houses and smaller buildings (Part 9 BCBC), including consideration for:
 - alignment with provincial Building Act and Step Code;
 - integration with existing City development application policy;

C3.3 Develop policies and programs to measure and communicate how much energy a building uses, for example using energy audits and EnerGuide labels and/or building benchmarking.

Suggested Actions:

- Explore requiring energy audits and reporting, for example EnerGuide labels, as part of the permitting process for new houses and smaller buildings (Part 9 BCBC).
- Explore requiring energy audits and reporting, for example EnerGuide labels, as part of the permitting process for significant renovations of houses and smaller buildings (Part 9 BCBC).
- Consider developing policy to encourage energy benchmarking (measuring and comparing energy performance) for new and existing commercial and institutional buildings.

C3.4 Develop programs and incentives to encourage residents, businesses and building owners to improve energy efficiency of existing buildings.

Suggested Actions:

- Consider ways to promote and communicate about programs, grants and incentives available for energy efficiency and other 'green' home improvements.



Provide information to encourage energy efficiency, for example a website/ phone number with information about opportunities for energy efficiency upgrades and grants for homes (new build and renovations).

- Consider providing incentives for building energy retrofits, such as a Revitalization Tax Exemption, and financing mechanisms.
- Consider ways to engage citizens, raise awareness and celebrate champions in reducing energy use and GHG emissions, such as with information campaigns, workshops and a community energy challenge.

- Consider additional ways to encourage energy efficiency upgrades during residential and commercial renovations.

C3.5 Investigate district and energy sharing opportunities and encourage their development in appropriate locations.

Suggested Actions:

- Explore developing policies to encourage or require investigation and development, where appropriate, of District Energy systems in new developments.
- Explore opportunities to use existing waste heat sources for District Energy systems.
- Consider policy approaches to require or encourage heating/cooling systems in new developments that allow for connection with an existing or future approved District Energy system.

C3.6 Encourage using renewable energy in buildings, like solar power/heat, geo-exchange (heat from the ground), and re-using waste heat from nearby sources.

Suggested Actions:

- Consider developing policies and incentives, and supporting research, to encourage renewable energy.
- Encourage and support leading practices in buildings, like Living Building Challenge, passive house and net zero energy.

Actions by Others:



Regulations

- Improve energy performance in the National Energy Code and BC Building Code
- Develop an energy efficiency "Step Code"
- Require home energy EnerGuide labels when houses are sold
- Improve heating and hot water efficiency standards/regulations
- Enhance appliance efficiency standards/regulations
- Improve lighting standards/regulations



Programs

- Provide utility programs to help commercial customers reduce energy use
- Enable national benchmarking programs (e.g. Portfolio Manager)



Incentives

- Provide a comprehensive rebate program for home energy upgrades
- Provide incentives for EnergyStar new homes
- Provide financing for energy efficient construction and retrofits

Actions by You:

Want **more info** on how to **get started?** Please go to page 28 or www.burnaby.ca/ess+you