

lonsdale
energycorp.

www.LonsdaleEnergy.ca



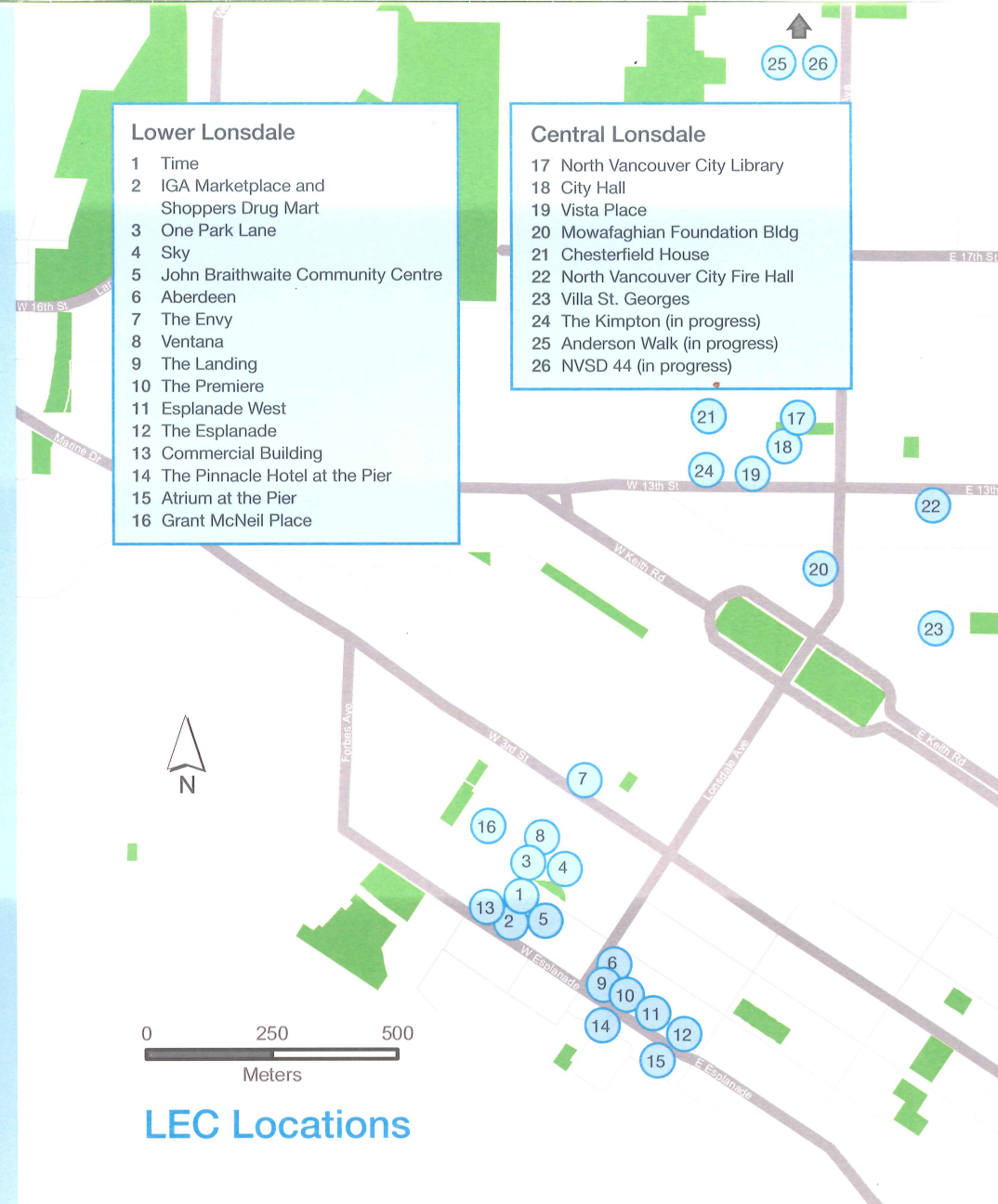
Investing in the Future

As one of the first municipalities in Canada to establish a district energy system, the community benefits from a highly efficient energy source that has a lower environmental impact, while providing competitive energy costs for homeowners. It's an innovative approach creating a more livable community.

LEC at Work

In Lower and Central Lonsdale, some new developments have high-efficiency boilers installed in their basements. The boilers heat water that is circulated through a network of underground pipes, providing heat and hot water to the buildings. Water is then returned back to the boilers, where the process of heating and distributing begins again.

Presently four underground energy plants provide heat to 23 buildings. By serving several buildings from such central locations, the LEC system provides greater efficiency, cost benefits, and dependability over traditional stand-alone in-building heating systems.



LEC Locations

A Flexible System

The ability to draw from sustainable energy sources is a key benefit of LEC. The district energy system primarily uses highly efficient natural gas boilers and is designed to transition to other renewable energy sources as more advanced technologies emerge. In Central Lonsdale, the LEC system is able to use energy from a series of solar panels installed on the roof of the City Library. Construction of a geothermal system is in progress under the Lonsdale school site and heat from this source will soon be available.

A Growing Network

LEC is now serving more than two million square feet of building area in the City of North Vancouver. In addition to new developments, older buildings are also connecting to LEC, becoming more sustainable and enjoying the green benefits of locally-produced district energy.



Green Power

In Lower Lonsdale, the LEC system has a measured annual efficiency of 83%. This represents an approximate 15% reduction in fuel consumption and greenhouse gas emissions when compared to traditional, stand-alone heating systems. Highly adaptable, the system can utilize various energy sources such as natural gas, hydrogen, geothermal, waste heat, biomass and solar energy. Looking ahead, LEC's goal is to use emissions-free, renewable energy sources when available, producing green energy throughout the community.

Purchasing Power

LEC makes fuel purchase decisions based on the best rates available, enabling LEC to offer premium energy services at a reasonable price. As more buildings connect to the system, LEC can make higher volume gas purchases that translate into additional savings for customers.



Established in 2004, Lonsdale Energy Corporation (LEC) has been providing dependable, clean, competitively priced energy to residential buildings in Lower and Central Lonsdale. This district energy system heats our community naturally, significantly reduces the demand for electricity, and supports local climate action efforts.

Advantages of LEC

Cost Effective. LEC customers receive the best-negotiated gas purchase rates available.

Clean. Nitrous oxide emissions are reduced by 64%; carbon dioxide emissions by 21%.

Adaptable. LEC is designed to use a variety of fuels. As new technologies emerge, the system can adapt to benefit from the most efficient, cost effective and sustainable energy sources available.

Dependable. LEC can switch between heating sources located throughout the community to ensure energy is always available.

Efficient. By serving several buildings from the most appropriate source of energy whenever it is available, LEC provides a higher level of efficiency over stand-alone heating systems.

Convenient. Building owners have access to hydronic heat while LEC takes care of boiler maintenance or replacement issues.

Invisible. LEC systems suit urban environments where land is scarce. They are contained within buildings which eliminates the need for large energy plants.

Smart. Smart energy management is an essential part of creating a compact, accessible, complete community.

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