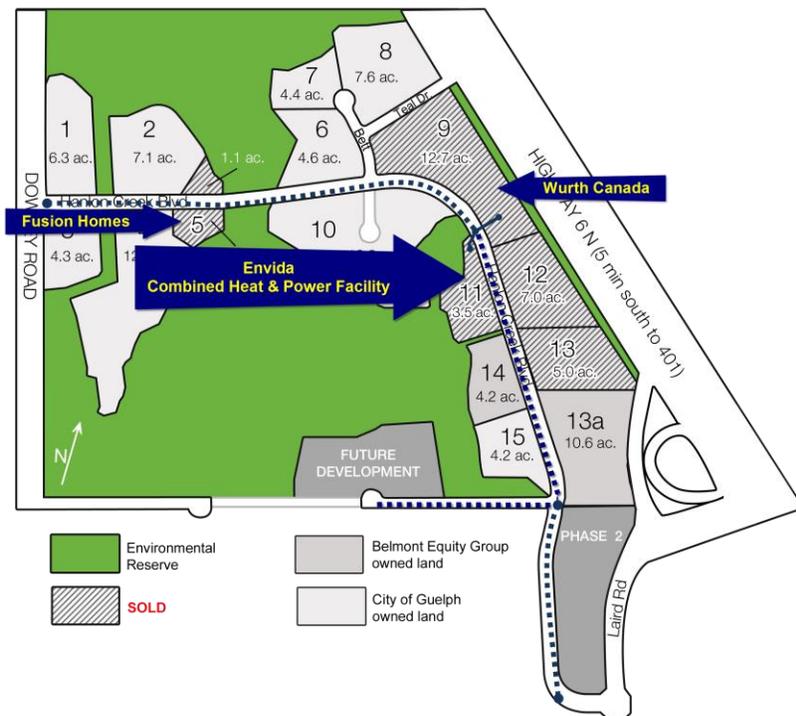


# Envida Combined Heat and Power Facility Hanlon Creek Business Park

- Envida Community Energy Inc., a subsidiary of Guelph Hydro Inc., will be constructing a highly efficient, combined heat and power (CHP or cogeneration) facility in Hanlon Creek Business Park that will:
  - Improve the City’s ability to attract new businesses and jobs to the Guelph community
  - Support the energy and environmental goals set out in Guelph’s Community Energy Initiative
    - Consume less energy per capita by 2031
    - Produce less greenhouse gases per capita by 2031
  - Reduce energy costs for customers of the district energy system
  - Improve the resiliency and reliability of the local electricity supply

- The natural-gas fired combined heat and power plant will generate 10.2 megawatts of electricity that will be fed into the Ontario grid under a 20-year contract with the Ontario Power Authority, granted under Ontario’s Combined Heat and Power Standard Offer Program (CHPSOP).

- Waste heat from the generation of electricity will be captured instead of being released into the atmosphere and serve as a heat source for the production of thermal energy—hot or chilled water—for Envida Community Energy’s district energy facility. A district energy system consisting of a network of insulated, underground pipes will transport the hot and chilled water or steam to customers’ neighbouring buildings where it will be used for space heating and cooling, hot water heating or industrial processes.



- By using a single fuel source (natural gas) to produce both electricity and heat, more useful energy is extracted from each unit of fuel input, resulting in efficiencies of up to or greater than 80 per cent. This makes combined heat and power one of the most efficient methods of generating electricity.
- Since less fuel is used to produce electricity and heat, greenhouse gases and other air emissions are reduced by as much as 50 per cent.

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- The new combined heat and power facility will be about the size of a 20,000-square foot commercial building. It will contain the equipment necessary for generating electricity for the Ontario grid and producing thermal energy for district energy customers of Envida Community Energy. Buildings connected to the district energy system will be equipped with a heat exchanger that will transfer the thermal energy from the thermal distribution system to the internal piping system in the buildings.
  - Envida Community Energy Inc. is currently operating temporary district energy systems in the Hanlon Creek Business Park to provide heating and cooling to the buildings owned by Fusion Homes and Wurth Canada Limited. Once Envida's combined heat and power facility is operational, these current Envida customers as well as new customers will be supplied from the new facility.
  - The combined heat and power facility will be fuelled by natural gas.
  - The district energy system is a closed loop system containing water treated with a water softener. It will consume minimal water resources and produce effectively zero effluents.
  - Prior to being constructed, the facility will obtain all mandatory environmental, safety and municipal approvals and permits including an Authority Permit from the Grand River Conservation Authority and an Environmental Compliance Approval for Air Quality and Noise from the Ontario Ministry of the Environment
  - The combined heat and power facility in the Hanlon Creek Business Park will be owned and operated by Envida Community Energy Inc., a subsidiary of Guelph Hydro Inc.

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