

## Regent Park District Energy System Renewable Energy Integration



Image: Toronto Community Housing

The Regent Park Neighbourhood in Toronto has undergone significant redevelopment in recent years. A new district energy system commenced operation in 2009 as a joint venture between Corix Utilities and Toronto Community Housing to supply heating and cooling to all new buildings in the revitalization plan. The DES is a traditional campus style configuration with central boiler and chiller plants delivering high temperature and chilled water to energy transfer stations within each building.

JDQ Engineering Limited was engaged by Corix to evaluate the feasibility of integrating geexchange and combined heat and power electrical generation into future phases of expansion. Ambient temperature and mid-grade temperature distribution options were considered to maximize the potential contribution from renewable energy sources. A conceptual design was developed based on the guiding principles of promoting future flexibility and adaptability and maximizing waste heat recovery. This work will help inform the decision making process when the next phase of DES capacity is required as build-out continues.

### Project Type

Feasibility and Conceptual Design

### Owner

Toronto Community Housing Corporation

### Location

Toronto, Ontario

### Year

2009 – 2010

### Client

Corix Utilities

### Reference

Travis Hickford-Kulak  
Manager  
Energy Western Canada  
Corix Utilities

