BEECHWOOD ROAD ENVIRONMENTAL CENTRE

A NEW, ENVIRONMENTALLY ENGINEERED LANDFILL

The Beechwood Road Environmental Centre will include a new, state-of-the-art, environmentally engineered landfill that will receive materials that cannot be diverted towards re-use, recovery or recycling.

The new landfill will be constructed on a new area on the current site, using the latest technology and processes to ensure the highest available standards of safety and efficacy. This will include a liner system, leachate collection and monitoring system to continuously protect ground and surface water. A gas collection system to capture the landfill gas will also be included.

The new landfill will accept up to 400,000 tonnes of waste per year for 20 years. The new landfill will be lower in height than the current landfill and will have limited visual impact on surrounding areas and local residents.

When the Beechwood Road Environmental Centre begins operations, the existing landfill will be closed, capped with natural grasses and monitored. The community will be consulted on possible future uses for the closed facility.

Clean, Renewable Energy from Landfill Gas

The facility will also include a state-of-the-art landfill gas to energy facility that will collect landfill gas and convert it into green, renewable energy. The facility will be able to generate six megawatts of electricity, enough energy to power 6,000 homes for a year.

Further, this same technology will be used at the old, closed landfill site to create enough energy to power a greenhouse that will be constructed for community use.

Landfill gas is created naturally through the decomposition of waste in landfills. Like wind and solar power, landfill gas is a natural resource that can be harnessed to produce clean energy. It is a readily available, renewable, reliable, and economical form of energy that reduces our use of fossil fuels and reduces greenhouse gas emissions.