

# Helping to Keep Power Plants Humming.

**Think Green.®**

**A**lthough Canada receives only about 12 percent of its total electricity from nuclear power, keeping its 22 nuclear power plants operating at peak efficiency is vital to this nation's economic health. Maintaining these plants requires not only the safe and efficient handling of its radioactive fuels, but also its many other wastes, some of which can be just as unusual.

In 2000, Waste Management was awarded the contract to serve the Pickering and Darlington nuclear power facilities outside of Toronto. Owned

and operated by Ontario Power Generation (OPG), both plants had special waste needs that required the expertise and capabilities of North America's solid waste services leader.

At the Pickering plant, where four CANDU-style reactors produce 4,120 megawatts — enough to serve the needs of two million people — Waste

Management was asked to manage a major recycling program that included paper, cardboard, glass, wood, plastic and organic wastes. Even more challenging was its directive to dispose of construction waste from ongoing facility overhauls. Because much of this waste was coming

from areas near the nuclear reactors, the waste had to be scanned for radioactive contamination and then sent to a special landfill selected by Waste Management only after a lengthy review and inspection process.

At Darlington, four CANDU reactors generate 3,424 megawatts, accounting for approximately 20 percent of Ontario's total power consumption. Being situated on the shores of Lake Ontario, the plant's water intake vents make an attractive home for zebra mussels, freshwater mollusks that can clog these crucial vents if not removed on a regular basis. Among Waste Management's duties is the disposal of the more than 230 tons of dead zebra mussels OPG removes annually from the Darlington plant, a job that — while not hazardous — does pose numerous containment, transportation and landfill disposal challenges, all of which Waste Management has handled with the kind of skill and expertise it brings to all its relationships.

By investing in modern nuclear power plants, Canada is taking one important step toward weaning itself from fossil fuels. And Waste Management is doing its part to make sure that investment — and the people who depend on nuclear power — are well protected.

**No company brings as much energy to the job of waste removal than Waste Management.**

*From everyday collection to environmental protection, Think Green. Think Waste Management.*

**INDUSTRIAL SERVICES**