












COVANTA

Powering Today. Protecting Tomorrow.

The Case for Energy-from-Waste

Reduce | Reuse | Recycle | Recover Energy-from-Waste

	EfW	Landfill
<p>Sustainable Waste Management Energy-from-Waste (EfW) securely managed municipal solid waste (MSW) in a one hour period, recovering energy and using advanced air pollution control equipment. MSW degrades in landfills for 100 years or more with uncontrolled emissions, presenting a long-term environmental liability that we leave future generations.</p>	 <p>1 Hr.</p>	<p>100-150 YEARS</p>
<p>Energy Generated from 1 Ton of Waste EfW facilities are much more efficient at turning waste into energy, generating nearly 10x more electricity from one ton of waste than landfill-gas-to-energy plants. Less than half of all waste buried in landfills is even used to generate energy.</p>	 <p>550 KWh (Enough to power the average home for 2 weeks)</p>	 <p>65 KWh (Enough to power the average home for 2 days)</p>
<p>Greenhouse Gases For every 1 ton of MSW managed at an EfW facility, we offset approximately 1 ton of greenhouse gas (GHG) emissions. In over 25 years of operation, the total GHG mitigation of our facilities has exceeded 350 million tons—the equivalent of planting 8 billion trees. Landfills are a leading source of the powerful GHG methane, 86x stronger than CO2 over a 20 year period.</p>	 <p>350 Million Tons of GHG Avoided is the equivalent of planting... 8 Billion Tree Seedlings</p>	 <p>Landfills are a leading source of methane, a GHG up to... 86x Stronger than CO2</p>
<p>Air Emissions Covanta's EfW facilities typically operate at 60-80% better than permitted emission limits. Landfills are subject to minimal regulation of air emissions, despite emission of over 170 air pollutants and 46 air toxins, including 4 known and 13 probable carcinogens.</p>	 <p>Highly regulated. Advanced air pollution control.</p>	 <p>170 air pollutants / 46 air toxins</p> <p>Minimally regulated. Minimal air pollution control.</p>
<p>Recycling / Metals Recovery On average, communities with EfW facilities boast higher recycling rates than the national average. Additionally, the EfW process recovers 50 lbs. of metal for recycling for each ton of MSW processed. Annually, Covanta EfW facilities recover more than 490,000 tons of metals for recycling that otherwise would have been landfilled and lost. Landfills do not recover metals for recycling.</p>	 <p>50 lbs (Amount of metals recovered from 1 ton of MSW processed)</p>	 <p>Metals are buried and lost at the landfill.</p>
<p>Transportation EfW provides a local solution to sustainable waste management. MSW is typically transported only a few miles before it is converted into clean, renewable energy. Conversely, when MSW is landfilled, waste is frequently trucked hundreds of miles before it is buried in the ground, exacerbating the already negative environmental impact of landfills.</p>	 <p>A Local Solution</p>	 <p>A Long-Distance Dilemma</p>