

Cool Capital Challenge Data

	Activity	Factor	Total Number of Units	Equiv. CO2 Reduction/Year (tons)	Comments
1	CFI Supplemental Power Project	<i>Tons of CO2 released through combustion of diesel fuel, per MWh</i> 0.769	<i>Avoided MWhrs</i> 12,000	9,222	Project under feasibility study
2	Landfill Gas-to-Energy Projects I-95 Phase I (3MW)	<i>Tons of CO2 Equivalent (TCE) destroyed per cubic foot of methane combusted</i> 0.00045	<i>Landfill Gas Processed Daily In Cubic Feet</i> 1,656,000	134,739	
	I-95 Phase II (3MW)	<i>TCE destroyed per cubic foot of methane combusted</i> 0.00045	<i>Landfill Gas Processed Daily In Cubic Feet</i> 1,656,000	134,739	
	I-95 Phase III (direct use)	<i>TCE destroyed per cubic foot of methane combusted</i> 0.00045	<i>Landfill Gas Processed Daily In Cubic Feet</i> 1,100,000	89,500	
	I-95 Space Heat	<i>TCE destroyed per cubic foot of methane combusted</i> 0.00045	<i>Landfill Gas Processed Daily In Cubic Feet</i> 21,120	722	
	I-66 Space Heat	<i>TCE destroyed per cubic foot of methane combusted</i> 0.00045	<i>Landfill Gas Processed Daily In Cubic Feet</i> 213,760	7,305	Project under construction
	TOTAL FOR LFG PROJECTS			367,004	
3	CFI Over 80 OPS	<i>Tons of CO2 released from coal combustion per MWh</i> 0.582	<i>MWhrs per year (2 MW, 80% availability)</i> 14,016	8,157	Awaiting FERC and SCC approval
4	Hybrid Vehicles	<i>TCE avoided per 1000 miles driven</i> 0.377	<i>Hybrid Miles Driven/Year</i> 12,000	5	
5	Teleworkers	<i>TCE avoided per year</i> 0.52	<i>Number of Teleworkers</i> 11	6	
6	Recycling	<i>TCE avoided per ton of waste recycled</i> 0.871	<i>Tons recycled in CY2007</i> 498,139	433,793	
7	Transfer Station vs. Collection Vehicle Miles	<i>TCE Released per mile driven</i> 0.0021	<i>Miles Avoided Annually:</i> 2,417,854	5,071	
8	Energy / Resource Recovery versus Landfilling	<i>TCE avoided per ton of waste processed</i> 0.165	<i>Tons Processed Per Year:</i> 1,050,000	173,614	

GRAND TOTAL, TCE REDUCED/AVOIDED - ACTIVE PROJECTS ONLY

972,187

Emission Factor References:

- 1 Energy and Environmental Analysis, Inc. "Environmental Benefits of Distributed Generation"
- 2 Michigan Cogeneration Systems, www.landfillenergy.com
- 3 Energy Information Administration, "Updated State-Level Greenhouse Gas Emission Coefficients for Electricity Generation", April 2002
- 4 www.consumerenergycenter.org/transportation/hybrids/index.html
www.epa.gov/otaq/climate/420f05003.htm#vehicle
- 5 <http://www.teleworkexchange.com/teleworker-07-05.asp>
- 6 USEPA, "Solid Waste Management and Greenhouse Gases, 3rd ed., September 2006"
- 7 www.epa.gov/appdstar/pdf/brochure.pdf
www1.eere.energy.gov/vehiclesandfuels/pdfs/deer_2004/session6/2004_deer_kodjak.pdf
- 8 USEPA, "Solid Waste Management and Greenhouse Gases, 3rd ed., September 2006"