
**Table GHG-7 Potable Water Supply, Conveyance, Treatment, and
Distribution GHG Emissions**

**Highland Estates
Evaluation of Global Climate Change Impacts**

**Table GHG-7
Potable Water Supply, Conveyance, Treatment, and Distribution GHG Emissions**

Land Use	Action	Net Potable Water Needs Estimate ¹ (MG/yr)	Electrical Demand Factor ^{2,3} (kW-hr/MG)	Annual Electrical Demand (10 ⁹ kW-hr/year)	CO ₂ E Emission Factor ⁴ (MT CO ₂ E/10 ⁶ kW-hr)	Annual CO ₂ E Emissions (MT CO ₂ E/yr)
Net Project	Supply & Conveyance	3.30	2,117	0.007	290	2.03
Net Project	Treatment	3.30	111	0.000	290	0.11
Net Project	Distribution	3.30	1,272	0.004	290	1.22
Total						3.35

Sources:

1. Section IV.M.1, Water. Values converted to million gallons per year.
2. California Energy Commission, *California's Water-Energy Relationship, Final Staff Report (CEC-700-2005-011-SF)*, (2005) 26.
3. California Energy Commission, *Refining Estimates of Water-Related Energy Use in California, PIER Final Project Report (CEC-500-2006-118)*, (2006) 22. Prepared by Navigant Consulting, Inc.
4. California Climate Action Registry, "Reporting Online Tool, Public Annual Entity Emissions," *Southern California Edison, PUP Report*, (2006), <http://www.climateregistry.org/CARROT/public/Reports.aspx>.

Where:

CO ₂ E	Carbon dioxide equivalent
GWP	Global warming potential
kW-hr	Kilowatt-hour
lbs	Pounds
MG	Million gallons
MT	Metric ton
N ₂ O	Nitrous oxide
yr	Year