

University of Texas at Austin  
Conservation Projects  
Greenhouse Gas Emission Reductions

Category	Annual Energy Savings kWh/year	Equivalent houses electricity use	Annual Water Savings million gal/yr	Equivalent houses water use	Annual Emissions Savings (based on Hal C. Weaver EF) lbs CO2e/year	vehicles	acres pine trees	houses
Lighting	28,000,000	2,333			23,939,914	1,989	2,468	1,506
Water - Domestic & Process	288,000	24	60	831	246,239	20	25	15
Steam	6,881,884	573			5,883,990	489	607	706
	<b>35,169,884</b>	<b>2,931</b>	<b>60</b>	<b>831</b>	<b>30,070,143</b>	<b>2,498</b>	<b>3,100</b>	<b>2,228</b>

gallons monthly water use of typical house (per Water Mgmt Inc.) = 6,000  
 kWhr monthly elec use per Austin house (per Austin Energy website) = 1,000  
 annual lbs CO2 per vehicle\* = 12,037  
 annual lbs CO2 per acre pine trees\* = 9,700  
 lbs CO2 per kilowatt delivered\* = 1.32935  
 annual lbs CO2 generated per yr per house (electricity use)\* = 15,895  
 annual lbs CO2 generated per yr per house (natural gas, LP and fuel oil use)\* = 8,333

← (use 10,000 since some houses have elec heat & water heat)

\*source: <http://www.epa.gov/cleanenergy/energy-resources/refs.html>