

NREL SOLAR TREE™

SYSTEM SIZE:

3 kW AC CEC
3.5 kW DC

SYSTEM CONFIGURATION:

Utility Configuration: Grid Connected
Solar Modules: 16 KC-200GT
4 KC-88CGS
Inverters: Aurora 3600W
Outdoor Outlets: (2) 120V
(1) 240V

UTILITY DISTRICT:

Xcel Energy

NUMBER OF PARKING SPACES:

2

YEARLY POWER PRODUCTION:

1,520 kWh

DATE COMPLETED:

December 2007

AVOIDED EMISSIONS:

(annually, in pounds)
Carbon Dioxide: 3,373
Nitrogen Oxides: 5
Sulfur Dioxide: 3

POUNDS OF COAL DISPLACED:

1,996 annually



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The Solar Tree™ at the National Renewable Energy Laboratory (NREL) in Golden, Colorado, is the prototype of the future. Covering just two parking spaces, it is a pilot project that includes two integrated AC outlets for charging hybrid electric vehicles that NREL has converted into plug-in hybrid electric vehicles (PHEV). NREL researchers can use the array to charge their vehicles using the power of the sun, demonstrating how we can begin to reduce our nation's dependence on foreign fuel sources in an environmentally friendly way using existing technology.

