

PROJECT facts

U.S. DEPARTMENT OF ENERGY
OFFICE OF FOSSIL ENERGY
NATIONAL ENERGY TECHNOLOGY LABORATORY



CLIMATE CHANGE FUEL CELL "BUY-DOWN" PROGRAM

New Program Boosts Fuel Cell Industry

PROJECT PARTNERS

U.S. Department of Defense
Washington, DC

U.S. Department of Energy
Morgantown, West Virginia

**U.S. Department of Army
Armament Research,
Development and Engineering
Center**

Picatinny Arsenal, New Jersey

Description

The objective of the Climate Change Fuel Cell Program is to simultaneously stimulate commercialization of stationary fuel cell power plants to reduce greenhouse gas emissions through the efficient use of fossil fuels. Successful offerers will demonstrate, through their applications, a commitment to purchase, install, operate, and maintain fuel cell power plant(s) with a combined capacity rated between 3 and 3,000 kW. No power plants purchased before the publication of the congressional language authorizing this program (September 1998) are eligible for this grant program. This project will culminate with a summary report after 1 year of power plant operation. Grants will be awarded consistent with the amounts defined in the funding availability section of this document.

COST SHARING

FY 2001 Grants

DoD 2,010,000
Grantees 14,846,291

FY 2000 Grants

DoD 2,304,815
Grantees 27,266,221

FY 1999-2 Grants

DoD 2,378,000
Grantees 30,456,031

FY 1999-1 Grants

DoD 1,800,000
Grantees 5,976,065

FY 1998 Grants

DoD 2,400,000+
Grantees TBD

FY 1996 Grants

DoD 8,400,000
Grantees 45,151,145



Fuel Cell Installation at Anchorage, AK Post Office

The Climate Change Fuel Cell Program is a joint effort of the U.S. Departments of Defense (DoD), Army (DOA), and Energy (DOE). DoD supplied the funding for all five solicitations providing financial assistance to buyers of fuel cells who are energy-service providers, utilities, or end users. DOE CERL began the program in FY 1995. In 1996, the DOE National Energy Technology Laboratory (NETL) implemented and is managing the solicitations and resulting awards. DOA (Picatinny) did the same for FY 1997. NETL has implemented and is managing the solicitations and resulting awards done in FY 1999, FY 2000 and FY 2001.



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CUSTOMER SERVICE

800-553-7681

STRATEGIC CENTER FOR NATURAL GAS WEBSITE

www.netl.doe.gov/scng

DoD CLIMATE CHANGE REBATE PROGRAM WEBSITE

www.dodfuelcell.com/climate/

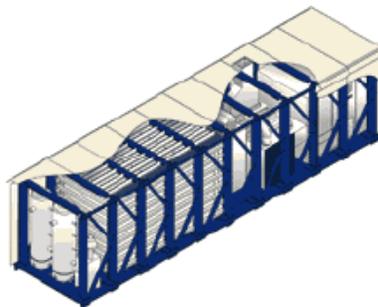
Goal

Multiple awards have been made to utility, end user, and energy service providers for utility, commercial, or industrial user of fuel cells in the U.S. and abroad. The program has selected a group of projects representing diverse sizes, applications, fuels, locations, and fuel cell types.

The program is a key element of the Federal Administration’s Climate Change Action Plan which is an effort to curb emissions of greenhouse gases in part through the development of environmentally clean energy technologies. The intent of the program is to satisfy DoD goals for the environment, readiness, and economy through activities that would stimulate end-user applications. This would simulate a major expansion of fuel cell manufacturing capability in the U.S. and in turn, bring mass produced fuel cells into a cost range that is competitive with more tradition sources.



Molten Carbonate



Solid Oxide



Proton Exchange