

DOCKET NO. 171 - An application of the Connecticut } Connecticut  
Light and Power Company for a Certificate of }  
Environmental Compatibility and Public need for a 200 } Siting  
kW landfill gas fuel cell facility at the Groton Landfill, }  
in the Town of Groton, Connecticut. } Council

January 23, 1996

**DECISION AND ORDER**

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a 200 kW landfill gas fuel cell facility within the Groton landfill in the Town of Groton, Connecticut, including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to the Connecticut Light and Power Company (CL&P) for the construction, operation, and maintenance of a landfill gas fuel cell within the Groton landfill in the Town of Groton, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter and subject to the following conditions:

1. The Certificate holder shall provide to the Council notification of the following events:
  - a. commencement of fuel cell installation,
  - b. commencement of operation;
  - c. termination of operation.
  
2. The Certificate holder shall provide the following to the Council:
  - a. A report, to be submitted to the Council within three months after the conclusion of the first year of operation, to include:
    1. Availability factor;
    2. Reliability factor;
    3. Efficiency of facility (in percentage);
    4. Electrical generation (in kWh),
    5. Estimated busbar cost of electricity (in cents per kilowatt hour);
    6. Final installed cost of facility,
    7. Operation and maintenance costs;
    8. Start-up time (in hours);
    9. Air emissions (lbs/kWh) of:
      - a. nitrogen oxides;
      - b. sulfur oxides;
      - c. carbon dioxide;
      - d. carbon monoxide;

10. Availability and volume of methane at the Groton landfill,
  11. Percentage of methane present in landfill gas;
  12. Condition and estimated life expectancy of individual cells (i.e. matrix and electrode layers of the fuel cell stack);
  13. Noise level at the nearest site boundary;
  14. Availability, reliability, and efficiency of the fuel cell at temperature and humidity extremes.
3. Council approval for continued operation and expansion of the facility to accommodate the full amount of methane produced by the Groton landfill beyond the 18-month test period.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and that notice of issuance shall be published in the New London Day.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors of this proceeding are:

**PARTY**  
Connecticut Light and Power Company

**ITS REPRESENTATIVE**  
Daniel P. Venora, Esq.  
Senior Counsel  
Northeast Utilities Service Company  
P.O. Box 270  
Hartford, CT 06141-0270  
(860) 665-3395

Mr. Ronald G. Chevalier  
Vice President  
Northeast Utilities Service Company  
P.O. Box 270  
Hartford, CT 06141-0270  
(860) 665-5315

**PARTY**  
Town of Groton

**ITS REPRESENTATIVE**  
Michael J. Murphy, AICP  
Senior Planner  
Town of Groton, Planning Department  
45 Fort Hill Road  
Groton, CT 06340-4394  
(203) 441-6610

**CERTIFICATION**

The undersigned members of the Connecticut Siting Council (Council) hereby certify that they have heard this case, or read the record thereof, in DOCKET NO. 171 - An application of the Connecticut Light and Power Company for a Certificate of Environmental Compatibility and Public need for a 200 kW landfill gas fuel cell facility at the Groton Landfill, in the Town of Groton, Connecticut, and voted as follows to approve the proposed facility:

**Council Members**

**Vote Cast**

\_\_\_\_\_  
Mortimer A. Gelston, Chairman

Absent



\_\_\_\_\_  
Commissioner Reginald J. Smith  
Designee: Gerald J. Heffernan

Yes



\_\_\_\_\_  
Commissioner Sidney J. Holbrook  
Designee: Brian J. Emerick

Yes



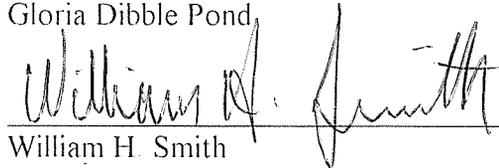
\_\_\_\_\_  
William J. Huber

Yes



\_\_\_\_\_  
Gloria Dibble Pond

Yes



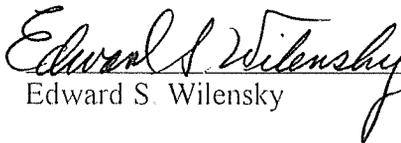
\_\_\_\_\_  
William H. Smith

Yes



\_\_\_\_\_  
Colin C. Tait

Yes



\_\_\_\_\_  
Edward S. Wilensky

Yes

\_\_\_\_\_  
Dana J. Wright

Absent

Dated at New Britain, Connecticut January 23, 1996

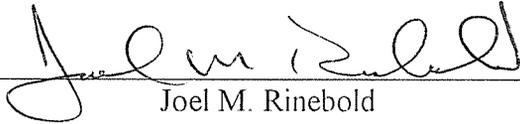
STATE OF CONNECTICUT    )

ss. New Britain, Connecticut    :

COUNTY OF HARTFORD    )

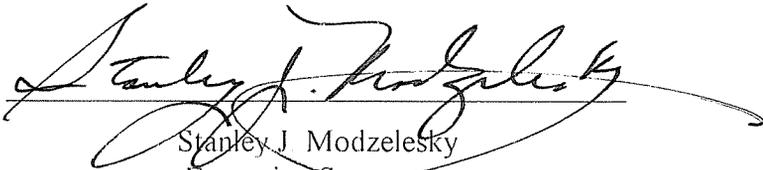
I hereby certify that the foregoing is a true and correct copy of the Findings of Fact, Opinion, and Decision and Order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:

  
\_\_\_\_\_  
Joel M. Rinebold  
Executive Director  
Connecticut Siting Council

I certify that a copy of the Findings of Fact, Opinion, and Decision and Order in Docket No. 171 have been forwarded by Certified First Class Return Receipt Requested mail on January 29, 1996, to all parties and intervenors of record as listed on the attached service list, dated October 24, 1995.

ATTEST:

  
\_\_\_\_\_  
Stanley J. Modzelesky  
Executive Secretary  
Connecticut Siting Council

Date: October 24, 1995

Docket No. 171

Page 1 of 1

LIST OF PARTIES AND INTERVENORS - SERVICE LIST

Status Granted	Status Holder (name, address, & phone number)	Representative (name, address, & phone number)
Party <input checked="" type="checkbox"/>  Intervenor <input type="checkbox"/>	Connecticut Light and Power Company	Daniel P. Venora, Esq. Senior Counsel Northeast Utilities Service Company P.O. Box 270 Hartford, CT 06141-0270 (860) 665-3395  Mr. Ronald G. Chevalier Vice President Northeast Utilities Service Company P.O. Box 270 Hartford, CT 06141-0270 (860) 665-5315
Party <input checked="" type="checkbox"/>  Intervenor <input type="checkbox"/>	Town of Groton	Michael J. Murphy, AICP Senior Planner Town of Groton, Planning Dept. 45 Fort Hill Road Groton, CT 06340-4394 (203) 441-6610
Party <input type="checkbox"/>  Intervenor <input type="checkbox"/>		