



INTERNATIONAL
DISTRICT ENERGY
ASSOCIATION

Spotlighting
Industry
Growth

District Energy Space '05

More than 92 million
square feet reported

District Energy Space '05

A Feature to Spotlight Industry Growth

The publication District Energy Space has become an annual tradition for the International District Energy Association. The publication features a compilation of buildings that have committed or recommitted to district energy service in North America during the previous calendar year.

District Energy Space is available digitally by download from IDEA's Web site, <www.districtenergy.org/de_space.htm>. You may download the entire publication, specific building category sections or even past issues.

As represented here, customers totaling more than 30,857,726 sq ft of space committed to district energy service in 2005. An additional 137,500 sq ft of space also was reported that had not been submitted for 2003. That figure was added to IDEA's running total of square footage committed to district energy systems in North America since 1990, which is now 348,341,462 sq ft.

Once again, IDEA is pleased to be able to report system growth from beyond the bounds of North America. An additional 62,072,455 sq ft has been reported and is documented at the end of this publication.

Each year, IDEA asks all of its member systems – private, public, campus, municipal, etc. – to provide information on buildings that committed or recommitted to district energy service during the previous calendar year. For each building, District Energy Space highlights the

- building's name;
- service provider's name and location;
- building's square footage (where available); and
- services provided (heating, domestic hot water, laundry, brewing, cooling, etc.)

District Energy Space helps IDEA tabulate the types of growth experienced by its member systems – and can be a valuable marketing tool for your organization. Make plans now to photograph and enter all of those buildings that commit or recommit for your service in 2006!

The deadline for submittal of buildings for 2006 is **Mon., March 26, 2007**. All systems submitting entries will receive a certificate of appreciation. Also, during the 2007 annual conference in Scottsdale, Ariz., IDEA will congratulate and present awards to those systems submitting the greatest amount of total square footage and the greatest number of total buildings for 2006 for both North America and Beyond North America.

2005 Square Footage Reported

Commercial-Office	10,021,005
Commercial-Other	468,000
Commercial-Retail/Manufacturing	2,083,545
Entertainment, Cultural or Sporting Center	422,289
Government	6,463,556
Hotel	3,526,033
Other	323,238
Residential	3,706,620
School, Hospital or Institution	3,705,940
Total 2005 Reported in North America	30,720,226*
Total 2005 Reported Beyond North America	62,072,455
Total 2005 Reported in North America and Beyond	92,792,681
Other Additions Previously Unreported in North America	137,500**

* Buildings reported for 2005 are listed in color.

This year we're featuring one building that committed earlier was not been previously reported in District Energy Space. It is **not included in the tabulations for award issuance in 2005, but is included in the total square footage reported and added to the running total committed to district energy systems since 1990.

NOTE: *Renewal* = renewed/recommitted to a long-term service agreement (10 years <). If renewal is not indicated, the building is considered a new customer.

North America

Commercial-Office

111 West Monroe

Northwind Phoenix
Phoenix, Ariz.
251,000 sq ft – cooling

7 World Trade Company LLC

Con Edison Steam Business Unit
New York, N.Y.
1,700,000 sq ft – heating, domestic hot water,
humidification

701 Building (renewal)

NRG Energy Center Minneapolis
Minneapolis, Minn.
280,000 sq ft – heating, cooling

801 North Orange

Orlando Utilities Commission (OUC) Chilled Water Services
Orlando, Fla.
100,000 sq ft of 105,000 sq ft – cooling

Adelaide Place (2 buildings)

Enwave Energy Corporation
Toronto, Ont., Canada
655,030 sq ft – cooling



111 West Monroe

Campbell Mithun Building (renewal)

NRG Energy Center Minneapolis
Minneapolis, Minn.
850,000 sq ft – heating, cooling

Commerce Court (4 buildings)

Enwave Energy Corporation
Toronto, Ont., Canada
2,020,000 sq ft – cooling

Cornerstone

Orlando Utilities Commission (OUC) Chilled Water Services
Orlando, Fla.
95,500 sq ft of 136,500 sq ft – cooling

Ernst & Young Tower - TD Centre

Enwave Energy Corporation
Toronto, Ont., Canada
482,363 sq ft – cooling

Fifth At 42nd LLC

Con Edison Steam Business Unit
New York, N.Y.
356,500 sq ft – heating



Oxford Properties Group

Adelaide Place
(2 buildings)

Commercial – Office continued

Hearst Corporation - 959 8th Avenue

Con Edison Steam Business Unit
New York, N.Y.
856,000 sq ft – heating

Kite Washington (renewal)

Citizens Thermal Energy
Indianapolis, Ind.
310,000 sq ft – heating, cooling

Lockheed Martin

Orlando Utilities Commission (OUC) Chilled Water Services
Orlando, Fla.
240,000 sq ft of 250,000 sq ft – cooling

Medical Arts Building (renewal)

NRG Energy Center Minneapolis
Minneapolis, Minn.
430,000 sq ft – heating, cooling

**New York City Department of Citywide
Administrative Services**

Con Edison Steam Business Unit
New York, N.Y.
54,000 sq ft – heating, domestic hot water

TD Waterhouse Tower - TD Centre

Enwave Energy Corporation
Toronto, Ont., Canada
655,612 sq ft – cooling

Thrivent for Lutherans

NRG Energy Center Minneapolis
Minneapolis, Minn.
535,000 sq ft – heating

Young Quinlan Building (renewal)

NRG Energy Center Minneapolis
Minneapolis, Minn.
150,000 sq ft – heating, cooling

Commercial–Other

Bay West Inc. (renewal)

District Energy St. Paul
St. Paul, Minn.
18,000 sq ft – heating

Clarian Consolidated Laboratory

Citizens Thermal Energy
Indianapolis, Ind.
180,000 sq ft of 320,000 sq ft – heating, cooling, process

Eli Lilly Building 87

Citizens Thermal Energy
Indianapolis, Ind.
270,000 sq ft – heating



Kite Washington



Bay West Inc.



Clarian Consolidated Laboratory

Commercial

Commercial-Retail/Manufacturing

Amlı Retail - Block 2

Austin Energy
Austin, Texas
24,900 sq ft – cooling

Amlı Retail - Block 4

Austin Energy
Austin, Texas
31,610 sq ft – cooling

DeMama Restaurant

Con Edison Steam Business Unit
New York, N.Y.
6,000 sq ft – heating, domestic hot water

Houlihan's

Austin Energy
Austin, Texas
15,000 sq ft – cooling

Hudson's Bay Company (2 buildings, new cooling, renewal heating)

Enwave Energy Corporation
Toronto, Ont., Canada
1,302,520 sq ft – heating, cooling

Simon Mall-Domain-Urban Development

Austin Energy
Austin, Texas
703,515 sq ft of 706,237 sq ft – heating, cooling, domestic hot water, process

Entertainment, Cultural or Sporting Center

Four Seasons Centre for the Performing Arts

Enwave Energy Corporation
Toronto, Ont., Canada
250,000 sq ft – heating

The Pierpont Morgan Library

Con Edison Steam Business Unit
New York, N.Y.
155,000 sq ft – heating, domestic hot water, humidification

St. Lawrence Centre for the Arts (renewal)

Enwave Energy Corporation
Toronto, Ont., Canada
17,289 sq ft – heating



Four Seasons Centre for the Performing Arts

Government

Elmer L. Andersen Building

District Energy St. Paul
St. Paul, Minn.
360,000 sq ft – heating, cooling, data center



Elmer L. Andersen Building

Government continued

Fire Station No. 8

District Energy St. Paul
St. Paul, Minn.
20,760 sq ft – heating, cooling, domestic hot water

Indiana Historical Society (renewal)

Citizens Thermal Energy
Indianapolis, Ind.
170,000 sq ft – heating, cooling



Fire Station No. 8



Indiana Historical Society



Indiana State Capitol Building

Indiana State Capitol Building

Citizens Thermal Energy
Indianapolis, Ind.
214,000 sq ft – cooling

Indiana State Library

Citizens Thermal Energy
Indianapolis, Ind.
207,000 sq ft – cooling

Indiana WorkForce Development (renewal)

Citizens Thermal Energy
Indianapolis, Ind.
110,000 sq ft – heating, cooling



Indiana State Library



Indiana WorkForce Development

Government

Government continued

**Justice A.A. Birch Building/Ben West Building
(new/renewal)**

Metro Nashville District Energy System
Nashville, Tenn.

275,796 sq ft – heating, cooling, domestic hot water

Metro Hall

Enwave Energy Corporation
Toronto, Ont., Canada
741,000 sq ft – cooling



Metro Hall

Minneapolis Central Library

NRG Energy Center Minneapolis
Minneapolis, Minn.

350,000 sq ft – heating, humidification

**Queen's Park Complex (13 buildings, new cooling,
renewal heating)**

Enwave Energy Corporation
Toronto, Ont., Canada

4,000,000 sq ft – heating, cooling

Soldiers and Sailors Monument

Citizens Thermal Energy
Indianapolis, Ind.

15,000 sq ft – cooling



Queen's Park Complex



Soldiers and Sailors
Monument



Justice A.A. Birch Building



Ben West Building

Hotel

50 Gramercy Park North (Morgan's Hotel Group)

Con Edison Steam Business Unit
New York, N.Y.

60,000 sq ft – heating, domestic hot water

Chambers Hotel

NRG Energy Center Minneapolis
Minneapolis, Minn.

130,000 sq ft – heating, cooling

Conrad Indianapolis

Citizens Thermal Energy
Indianapolis, Ind.

382,000 sq ft – heating, cooling, domestic hot water

Embassy Suites Hotel

NRG Energy Center Minneapolis
Minneapolis, Minn.

240,000 sq ft – heating, cooling

Morgans Hotel Group - 2 Lexington Avenue

Con Edison Steam Business Unit
New York, N.Y.

216,200 sq ft – heating, domestic hot water, kitchen

Residence Inn Marriott Toronto

Enwave Energy Corporation
Toronto, Ont., Canada

197,833 sq ft – cooling

Sheraton Centre Hotel (renewal)

Enwave Energy Corporation
Toronto, Ont., Canada

1,500,000 sq ft – heating

Sheraton Hotel

Northwind Phoenix
Phoenix, Ariz.

800,000 sq ft – cooling



Conrad Indianapolis



Residence Inn Marriott Toronto



Sheraton Centre Hotel

Starwood Hotels and Resorts



Sheraton Hotel

Other

Downtown Phoenix Technology Exchange

Northwind Phoenix
Phoenix, Ariz.
300,000 sq ft – cooling

SPI Litigation

Austin Energy
Austin, Texas
23,238 sq ft – cooling, steam, compressed air



Downtown Phoenix Technology Exchange

Residential

15 Broad Street LLC

Con Edison Steam Business Unit
New York, N.Y.
300,000 sq ft – heating, domestic hot water

178 Summit

District Energy St. Paul
St. Paul, Minn.
40,000 sq ft – heating, domestic hot water

205-209 East 57th Street (Clarett Group)

Con Edison Steam Business Unit
New York, N.Y.
80,000 sq ft – heating, domestic hot water

426 West 58th Street LLC

Con Edison Steam Business Unit
New York, N.Y.
55,200 sq ft – heating, domestic hot water

55 West

Orlando Utilities Commission (OUC) Chilled Water Services
Orlando, Fla.
750,000 sq ft of 800,000 sq ft – cooling

Anball Enterprises

Con Edison Steam Business Unit
New York, N.Y.
220,600 sq ft – heating, domestic hot water



178 Summit



Dunedin Hi-Rise

Dunedin Hi-Rise

District Energy St. Paul
St. Paul, Minn.
105,000 sq ft – heating, domestic hot water

Element Condominium

Enwave Energy Corporation
Toronto, Ont., Canada
330,720 sq ft – cooling

Loring Green East Condominiums

NRG Energy Center Minneapolis
Minneapolis, Minn.
360,000 sq ft – heating

Residential continued

Metropolitan at Lake Eola (2003)

Orlando Utilities Commission (OUC) Chilled Water Services
Orlando, Fla.
137,500 sq ft of 138,000 sq ft – cooling

New 19 West LLC

Con Edison Steam Business Unit
New York, N.Y.
254,300 sq ft – heating, domestic hot water

Solaire at the Plaza

Orlando Utilities Commission (OUC) Chilled Water Services
Orlando, Fla.
355,000 sq ft of 375,000 sq ft – cooling

Sutton Street LLC

Con Edison Steam Business Unit
New York, N.Y.
85,800 sq ft – heating, domestic hot water



Solaire at the Plaza



The Vue at Lake Eola

The Vue at Lake Eola

Orlando Utilities Commission (OUC) Chilled Water Services
Orlando, Fla.
530,000 sq ft of 550,000 sq ft – cooling

Y&T Holding Company

Con Edison Steam Business Unit
New York, N.Y.
240,000 sq ft – heating, domestic hot water

School, Hospital or Institution

411 Building - Arizona State University

Northwind Phoenix
Phoenix, Ariz.
280,000 sq ft – cooling

Aquatic & Fitness Center Addition

University of Virginia
Charlottesville, Va.
138,877 sq ft – heating, cooling, process



411 Building - Arizona State University

School, Hospital or Institution continued

Arizona Bioscience Center I

Northwind Phoenix
Phoenix, Ariz.
85,000 sq ft – cooling

Carver Biomedical Research Building

University of Iowa
Iowa City, Iowa
134,628 sq ft – heating, cooling, domestic hot water,
process, refrigeration

Claremont Prep (Met Schools)

Con Edison Steam Business Unit
New York, N.Y.
118,000 sq ft – heating, cooling, domestic hot water,
humidification

College of Medicine - Arizona State University

Northwind Phoenix
Phoenix, Ariz.
62,000 sq ft – cooling

Dell Children's Hospital

Austin Energy
Austin, Texas
440,000 sq ft of 480,000 sq ft – heating, cooling, domestic
hot water, humidification, kitchen, sterilization

Garrett Hall

University of Virginia
Charlottesville, Va.
23,481 sq ft – heating, cooling, process

Hospital Expansion

University of Virginia
Charlottesville, Va.
130,000 sq ft – heating, cooling, process

IUPUI Herron School of Art

Citizens Thermal Energy
Indianapolis, Ind.
155,000 sq ft – heating, cooling, domestic hot water



Arizona Bioscience Center I



Carver Biomedical Research Building



College of Medicine - Arizona State University



IUPUI Herron School of Art

School, Hospital or Institution continued

Life Science South

University of Idaho
Moscow, Idaho
65,000 sq ft – cooling, process

Nasseff Specialty Center

District Energy St. Paul
St. Paul, Minn.
140,000 sq ft – heating, domestic hot water, snowmelt



Life Science South

NYU School of Medicine (8 buildings)

Con Edison Steam Business Unit
New York, N.Y.
235,000 sq ft – heating, domestic hot water, sterilization

O'Hill Dining

University of Virginia
Charlottesville, Va.
61,889 sq ft – heating, cooling, process

**Philip D. Adler Journalism & Mass
Communication Building**

University of Iowa
Iowa City, Iowa
78,936 sq ft – heating, cooling, domestic hot water, process



Philip D. Adler Journalism & Mass
Communication Building



Nasseff Specialty Center

School, Hospital or Institution continued

Pomerantz Center

University of Iowa
Iowa City, Iowa
69,852 sq ft – heating, cooling, domestic hot water, process

Ryerson School of Business

Enwave Energy Corporation
Toronto, Ont., Canada
650,000 sq ft – heating, cooling



Pomerantz Center



Saint Paul College

Saint Paul College

District Energy St. Paul
St. Paul, Minn.
510,000 sq ft – heating, domestic hot water

Specialty Collections

University of Virginia
Charlottesville, Va.
73,277 sq ft – heating, cooling, process

St. Joseph Hospital Addition

District Energy St. Paul
St. Paul, Minn.
178,000 sq ft – heating, cooling, domestic hot water

Teaching and Learning Center

University of Idaho
Moscow, Idaho
77,000 sq ft – cooling



St. Joseph Hospital Addition



Teaching and Learning Center

Beyond North America

Dubai Health Care City (47 buildings)

Emirates Central Cooling Systems Corporation (Empower)
Dubai, UAE
School, Hospital or Institution
12,218,677 sq ft – cooling

City of Arabia (45 buildings)

Emirates Central Cooling Systems Corporation (Empower)
Dubai, UAE
Residential
41,552,076 sq ft – cooling



Dubai Health Care City

Business Bay Executive Towers (23 buildings)

Emirates Central Cooling Systems Corporation (Empower)
Dubai, UAE
Residential
6,911,701 sq ft of 8,326,326 sq ft – cooling

World Trade Centre Residence (2 buildings)

Emirates Central Cooling Systems Corporation (Empower)
Dubai, UAE
Residential
1,390,000 sq ft – cooling



Business Bay Executive Towers



City of Arabia



World Trade Centre
Residence

2006 District Energy Space Submission

To have your new or renewed customer buildings included in IDEA's District Energy Space 2006, please fill out the form below, one for each building, OR use new Excel file (new this year) to enter all buildings in one worksheet. Then email the completed forms, worksheet and/or color photo images of each building to mlw@westerlund.com, Westerlund Communications Inc., 16303 Blenheim Way, Minnetonka, MN 55345 (952) 935-4904; fax (952) 935-4945. Questions may also be directed to IDEA's headquarters at (508) 366-9339, idea@districtenergy.org.

This form is available online at www.districtenergy.org/pdfs/06DESpaceform.pdf as an interactive pdf and may be completed and saved for each building (use building name in file name). The Excel file is available at www.districtenergy.org/06DESpace_entries.xls. Please save the Excel file using your company name before submitting.

Please submit your entries no later than **Mon., March 26, 2007**.

IMPORTANT – Check one:

- New service agreement **or** service during 2006.
- Renewed long-term (>10 years) agreement during 2006.

Official Name of Building/Complex _____

If complex, number of buildings _____

Your Organization's Name _____

Your City/State/Province/Country _____

Category (select just one) if the building is a mixed-use facility, mark the category that describes the primary/dominant use.

- | | |
|---------------------------------------------------------------------|----------------------------------------------------------|
| <input type="checkbox"/> Commercial – Office | <input type="checkbox"/> Hotel |
| <input type="checkbox"/> Commercial – Retail/Manufacturing | <input type="checkbox"/> Residential |
| <input type="checkbox"/> Commercial – Other | <input type="checkbox"/> School, Hospital or Institution |
| <input type="checkbox"/> Entertainment, Cultural or Sporting Center | <input type="checkbox"/> Other (please specify) _____ |
| <input type="checkbox"/> Government | |

Building Description

Total Square Footage Served _____ Total Square Footage of Building _____

Service to be provided for (**check all that apply**):

- | | |
|----------------------------------------|---------------------------------------------|
| <input type="checkbox"/> space heating | <input type="checkbox"/> domestic hot water |
| <input type="checkbox"/> space cooling | <input type="checkbox"/> refrigeration |
| <input type="checkbox"/> process use | <input type="checkbox"/> other _____ |

You may submit your color images as electronic files. Electronic images should be individual jpg, tif or eps files with a **minimum** 72 DPI resolution, minimum physical size 2.5" x 3.5" (Smaller sizes **not** accepted and will **not** be used). Files may be submitted on a CD and mailed - or emailed to mlw@westerlund.com. Please include the building's name in the filename. Embedded photo images in Word or PowerPoint files will **not** be accepted.

IMPORTANT-

Is a photo print or electronic file included for this building? Yes: Filename, if applicable: _____ No

Information Submitted by

Name _____

Contact Email _____

Contact Phone Number _____

Carefully label any CDs with your company name and building name(s). IDEA and its agents assume no liability for image reproduction quality or errors.