













Spotlighting Industry Growth







District Energy Space '07

More than 271 million square feet reported

he 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 and beyond 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, North American customers



totaling 33,868,495 sq ft of space committed to district energy service in 2007. That figure was added to IDEA's running total of square footage committed to North American district energy systems since 1990, bringing the current total to 422,714,867 sq ft.

Once again, IDEA is pleased to be able to report system growth from beyond the bounds of North America. An additional 237,183,645 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 2008!

The deadline for submittal of buildings for 2008 is **Fri., April 3, 2009**. All systems submitting entries will receive a certificate of appreciation. Also, during the 2009 annual conference in Washington, D.C., 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 2008 for both North America and Beyond North America.

2007 Square Footage Reported*

Category	North America	Beyond North America
Commercial-Mixed Use	8,533,947	90,016,800
Commercial-Office	5,704,807	122,568,820
Commercial-Retail/Manufacturing	107,500	642,000
Entertainment, Cultural or Sporting Center	3,781,684	373,965
Government	816,000	9,595,760
Hotel	1,684,000	-
Other	126,100	-
Residential	6,501,407	13,986,300
School, Hospital or Institution	6,613,050	-
2007 Square Footage Reported	33,868,495	237,183,645

Total 2007 Reported in North America and Beyond North America 271,052,140

^{*} All entries are newly signed or connected customers within 2007 unless specifically noted as renewals. *(renewal)* = renewed/recommitted to a long-term service agreement (10 years<).

North America

Commercial-Mixed Use

Broadbent Building Citizens Thermal Energy

Indianapolis, Ind. 56,000 sq ft – heating, cooling, domestic hot water, humidification

Circle Tower Building

Citizens Thermal Energy Indianapolis, Ind. 120,000 sq ft – heating, cooling, domestic hot water, humidification

Greenway Plaza (15 buildings, renewal)

Crescent Real Estate Equities Houston, Texas 5,000,000 sq ft – heating, cooling

Maple Leaf Square (3 buildings)

Enwave Energy Corporation Toronto, Ont., Canada 1,145,118 sq ft – cooling

One North Penn (renewal)

Citizens Thermal Energy Indianapolis, Ind. 102,000 sq ft – heating, cooling, domestic hot water, humidification

Parcel B

Trigen Inner Harbor East LLC Baltimore, Md. 810,829 sq ft of 1,087,000 sq ft – heating, cooling, domestic hot water, process

RBC Center (2 buildings)

Enwave Energy Corporation Toronto, Ont., Canada 1,300,000 sq ft – heating

Commercial-Office

1035 Market Street Office

NRG Energy Center San Francisco San Francisco, Calif. 100,000 sq ft – heating, domestic hot water

110 Sutter Street Office

NRG Energy Center San Francisco San Francisco, Calif. 200,000 sq ft – heating, domestic hot water

1101 Avenue of the Americas

Con Edison Steam Operations New York, N.Y. 2,100,000 sq ft

13-15 West 54th Street

Con Edison Steam Operations New York, N.Y. 15,000 sq ft

145 King Street

Enwave Energy Corporation Toronto, Ont., Canada 209,000 sq ft – cooling



Broadbent Building



Circle Tower Building



145 King Street

Commercial - Office continued

15 Central Park West

Con Edison Steam Operations New York, N.Y. 43,600 sq ft

20 Queen Street West

Enwave Energy Corporation Toronto, Ont., Canada 674,199 sq ft – heating

AT&T Office Building

NRG Energy Center San Francisco San Francisco, Calif. 250,000 sq ft – heating, domestic hot water

One Pennsylvania Plaza

Trigen-Philadelphia Energy Corporation Philadelphia, Pa. 1,200,000 sq ft – heating, cooling, domestic hot water, kitchen

St. Paul Pioneer Press

District Energy St. Paul St. Paul, Minn. 120,000 sq ft – cooling



St. Paul Pioneer Press Building



University Capital Center

University Capital Center (renewal)

The University of Iowa Iowa City, Iowa 181,008 sq ft – heating, cooling, humidification

620 Eighth Avenue

Con Edison Steam Operations New York, N.Y. 612,000 sq ft

Commercial— Retail/Manufacturing

49 West 33rd Street (additional)

Con Edison Steam Operations New York, N.Y. 107,500 sq ft

Entertainment, Cultural or **Sporting Center**

Butler North Education Building

Youngstown Thermal LLC Youngstown, Ohio 35,000 sq ft - heating

Lucas Oil Stadium (new) & Indiana Convention Center (renewal)

Citizens Thermal Energy Indianapolis, Ind. 3,500,000 sq ft – heating, cooling, domestic hot water, humidification



Butler North Education Building



Lucas Oil Stadium

Entertainment, Cultural or Sporting Center continued

Minnesota Boat Club

District Energy St. Paul St. Paul, Minn. 5,675 sq ft – heating, domestic hot water

Ruth and Raymond G. Perelman Building

Trigen-Philadelphia Energy Corporation Philadelphia, Pa. 180,000 sq ft – heating, domestic hot water, humidification

Youngstown State University Wellness Center

Youngstown Thermal LLC Youngstown, Ohio 61,009 sq ft – heating, domestic hot water

Government

New City Hall (3 buildings)

Enwave Energy Corporation Toronto, Ont., Canada 816,000 sq ft – cooling



Minnesota Boat Club



Youngstown State University Wellness Center

Hotel

19 West 58th Street (768 5th Ave.)

Con Edison Steam Operations New York, N.Y. 494,000 sq ft

Arctic Building

Seattle Steam Company Seattle, Wash. 200,000 sq ft – heating, domestic hot water, kitchen

Ritz Carlton Hotel & Residences

Enwave Energy Corporation Toronto, Ont., Canada 990,000 sq ft – cooling

Other

Austin Music Hall

Austin Energy Austin, Texas 39,500 sq ft of 43,000 sq ft – cooling

Ballet Austin

Austin Energy Austin, Texas 34,600 sq ft – cooling

Southwest Educational Development Laboratory

Austin Energy Austin, Texas 52,000 sq ft – cooling



New City Hall

Residential

11 East 29th Street

Con Edison Steam Operations New York, N.Y. 266,133 sq ft

110 Third Avenue

Con Edison Steam Operations New York, N.Y. 117,250 sq ft

15 Central Park West

Con Edison Steam Operations New York, N.Y. 651,000 sq ft

19 West 58th Street (768 5th Ave.)

Con Edison Steam Operations New York, N.Y. 424,250 sq ft

20 Pine Street (additional)

Con Edison Steam Operations New York, N.Y. 750,000 sq ft

240 Park Avenue South

Con Edison Steam Operations New York, N.Y. 110,000 sq ft

340 East 23rd Street

Con Edison Steam Operations New York, N.Y. 240,400 sq ft

40-44 East 66th Street (additional)

Con Edison Steam Operations New York, N.Y. 114,380 sq ft

55 John Street (additional)

Con Edison Steam Operations New York, N.Y. 77,900 sq ft

74 New Montgomery

NRG Energy Center San Francisco San Francisco, Calif. 116,000 sq ft – heating, domestic hot water

95 Wall Street

Con Edison Steam Operations New York, N.Y. 500,000 sq ft

995 Fifth Avenue

Con Edison Steam Operations New York, N.Y. 175,000 sq ft

Aria Condominiums

Trigen-Philadelphia Energy Corporation Philadelphia, Pa. 250,000 sq ft – heating, domestic hot water

Austonian/200 Congress

Austin Energy Austin, Texas 395,820 sq ft of 650,900 sq ft – cooling

Four Seasons Residence

Austin Energy Austin, Texas 300,647 sq ft of 408,618 sq ft – cooling

Murano Condominium

Trigen-Philadelphia Energy Corporation Philadelphia, Pa. 440,000 sq ft – heating, domestic hot water

Residential - continued

Ritz-Carlton Residences (2 buildings)

NRG Energy Center San Francisco San Francisco, Calif. 300,000 sq ft – heating, domestic hot water

Ronald McDonald House

Austin Energy Austin, Texas 30,627 sq ft of 31,334 sq ft – cooling

Symphony House Condominium

Trigen-Philadelphia Energy Corporation Philadelphia, Pa. 642,000 sq ft – heating, domestic hot water

Trinity Plaza Apartments

NRG Energy Center San Francisco San Francisco, Calif. 600,000 sq ft – heating, domestic hot water



Trinity Plaza Apartments

College of Education

School, Hospital, Institution

College of Education (2 buildings)

University of Idaho Moscow, Idaho 62,600 sq ft – cooling

Dan Abrahams Healthy Living Center/Mayo Clinic

Franklin Heating Station Rochester, Minn. 124,483 sq ft – heating, cooling, domestic hot water, humidification

Dorrance H. Hamilton Building – Thomas Jefferson University

Trigen-Philadelphia Energy Corporation Philadelphia, Pa. 125,000 sq ft – heating, domestic hot water

Indiana University Health Information and Translational Sciences Building

Citizens Thermal Energy Indianapolis, Ind. 166,000 sq ft – heating, cooling, domestic hot water, humidification



Indiana University Health Information and Translational Sciences Building

School, Hospital, Institution - continued

IUPUI Campus Center

Citizens Thermal Energy Indianapolis, Ind. 261,000 sq ft – heating, cooling, domestic hot water, humidification

Lab Building Addition

University of Regina Regina, Sask., Canada 150,000 sq ft – heating, cooling, domestic hot water

Mount Sinai Hospital

Enwave Energy Corporation Toronto, Ont., Canada 1,200,000 sq ft – cooling

Opus/Mayo Clinic

Franklin Heating Station Rochester, Minn. 39,267 sq ft – heating, cooling, domestic hot water, humidification

Perelman Center for the Advancement of Medicine (CAM) Phase 1 – University of Pennsylvania

Trigen-Philadelphia Energy Corporation Philadelphia, Pa. 360,000 sq ft – heating, domestic hot water, humidification, process, kitchen

Ryerson University (10 buildings, renewal)

Enwave Energy Corporation Toronto, Ont., Canada 2,459,700 sq ft – heating

Ryerson University (4 buildings)

Enwave Energy Corporation Toronto, Ont., Canada (sq ft included above) – heating

Thomas Jefferson University (6 buildings)

Trigen-Philadelphia Energy Corporation Philadelphia, Pa. 1,415,000 sq ft – cooling

Toronto Rehabilitation Center

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



IUPUI Campus Center



George Vari Engineering and Computing Centre, Ryerson University

Beyond North America

Commercial-Office

Al Khawair Project

Tabreed – National Central Cooling Company Oman 1,070,000 sq ft – cooling

Bahrain Financial Harbour

Tabreed – National Central Cooling Company Bahrain 10,272,000 sq ft – cooling

BMW Building

Tabreed – National Central Cooling Company Abu Dhabi, United Arab Emirates 607,760 sq ft – cooling

Business Village

Emirates Central Cooling Systems Corporation "Empower" Dubai, United Arab Emirates 896,600 sq ft – cooling

Global Village (19 buildings)

Emirates Central Cooling Systems Corporation "Empower" Dubai, United Arab Emirates 17,400,000 sq ft – cooling



International Media Production Zone "iMPZ"

International Media Production Zone "iMPZ" (377 buildings)

Emirates Central Cooling Systems Corporation "Empower" Dubai, United Arab Emirates 48,685,000 sq ft – cooling

Khalid Al Attar

Tabreed – National Central Cooling Company Dubai, United Arab Emirates 449,400 sq ft – cooling

Rolex Tower

Tabreed – National Central Cooling Company Dubai, United Arab Emirates 556,400 sq ft – cooling

Studio City - Phase 1 (145 buildings)

Emirates Central Cooling Systems Corporation "Empower" Dubai, United Arab Emirates 15,918,300 sq ft – cooling

TECOM - Site A & B (46 buildings)

Emirates Central Cooling Systems Corporation "Empower" Dubai, United Arab Emirates 4,423,560 sq ft – cooling

TECOM - Site C (85 buildings)

Emirates Central Cooling Systems Corporation "Empower" Dubai, United Arab Emirates 4,741,800 sq ft – cooling



TECOM - Site A & B

Commercial - Office continued

West Bay (47 buildings)

Tabreed – National Central Cooling Company Qatar 15,622,000 sq ft – cooling

World Trade Center

Tabreed – National Central Cooling Company Bahrain 1,926,000 sq ft – cooling

Commercial— Mixed Use

Abdali Project (50 buildings)

Tabreed – National Central Cooling Company Jordan 17,000,000 sq ft – heating, cooling

Raha Beach (80 buildings)

Tabreed – National Central Cooling Company Abu Dhabi, United Arab Emirates 34,240,000 sq ft – cooling

Shams - Al Reem Island (45 buildings)

Tabreed – National Central Cooling Company Abu Dhabi, United Arab Emirates 12,840,000 sq ft – cooling

Town Centre

Tabreed – National Central Cooling Company Abu Dhabi, United Arab Emirates 4,536,800 sq ft – cooling

Yas Island (10 buildings)

Tabreed – National Central Cooling Company Abu Dhabi, United Arab Emirates 21,400,000 sq ft – cooling

Commercial— Retail/Manufacturing

Khaldiya Mall

Tabreed – National Central Cooling Company Abu Dhabi, United Arab Emirates 642,000 sq ft – cooling

Entertainment, Cultural or **Sporting Center**

Snodome (Marina Mall) (2 buildings)

Tabreed – National Central Cooling Company Abu Dhabi, United Arab Emirates 373,965 sq ft – cooling

Government

Al Minhad (8 buildings)

Tabreed – National Central Cooling Company Dubai, United Arab Emirates 428,000 sq ft – cooling

Dewan of Sheikh Mohammed (3 buildings, additional)

Tabreed – National Central Cooling Company Abu Dhabi, United Arab Emirates 372,360 sq ft – cooling

Fujairah Naval Base (28 buildings)

Tabreed – National Central Cooling Company Fujairah, United Arab Emirates 941,600 sq ft – cooling

Mahawi Camp (15 buildings)

Tabreed – National Central Cooling Company Abu Dhabi, United Arab Emirates 385,200 sq ft – cooling

Mina Costal Guard (16 buildings)

Tabreed – National Central Cooling Company Abu Dhabi, United Arab Emirates 428,000 sq ft – cooling

Police Guard Compound (additional)

Tabreed – National Central Cooling Company Abu Dhabi, United Arab Emirates 192,600 sq ft – cooling

Sharjah Military (55 buildings)

Tabreed – National Central Cooling Company Sharjah, United Arab Emirates 2,140,000 sq ft – cooling

Zayed Military City T7 (107 buildings)

Tabreed – National Central Cooling Company Abu Dhabi, United Arab Emirates 2,140,000 sq ft – cooling

Zayed Military City T8 (110 buildings)

Tabreed – National Central Cooling Company Abu Dhabi, United Arab Emirates 2,568,000 sq ft – cooling

Residential

Al Quoz (33 buildings)

Emirates Central Cooling Systems Corporation "Empower" Dubai, United Arab Emirates 9,038,000 sq ft – cooling

Merdif (59 buildings)

Emirates Central Cooling Systems Corporation "Empower" Dubai, United Arab Emirates 3,889,000 sq ft – cooling

Sheikh Hamdan Building W 10 -C71

Tabreed – National Central Cooling Company Abu Dhabi, United Arab Emirates 770,400 sq ft – cooling

Sheikha Fatima Building W 10 -C67

Tabreed – National Central Cooling Company Abu Dhabi, United Arab Emirates 288,900 sq ft – cooling

Submit your entries for 2008.

To enter your newly committed, recommitted or connected or customers from 2008, please download and complete the Excel template found at

www.districtenergy. org/08DESpace_entries.xls.

Submit the final document (all buildings listed within one document) to Monica Westerlund, executive editor of District Energy magazine, at mlw@westerlund.com by Fri., April 3, 2009. Please use the form exactly as provided and fill in all cells to expedite information compilation. Be sure to send as many building photographs as possible. Thank you.

To download District Energy Space 2007 or view past issues, visit www.districtenergy.org/de space.htm.



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