

# District Energy Space 2014



**Spotlighting Industry Growth**

**More than 120 million square feet reported**



# District Energy Space 2014

## Industry Growth around the World

**Dedicated to the growth and utilization of district energy as a means to enhance energy efficiency, provide more sustainable and reliable energy infrastructure, and contribute to improving the global environment.**



Established in 1909, the International District Energy Association (IDEA) serves as a vital communications and information hub for the district energy industry, connecting industry professionals and advancing the technology around the world. With headquarters just outside of Boston, Mass., IDEA comprises over 2,000 district heating and cooling system executives, managers, engineers, consultants and equipment suppliers from 23 countries. IDEA supports the growth and utilization of district energy as a means to conserve fuel, increase energy efficiency and resilience, and reduce emissions.

The publication of ***District Energy Space*** has become an annual tradition for the International District Energy Association since 1990. Each year, IDEA asks all of its member systems in North America (compilation initiated in 1990) and beyond North America (compilation initiated in 2004) to provide information on the number of buildings and their area in square feet that committed or recommitted to district energy service during the previous calendar year.

This issue compiles growth that was reported for the calendar year 2014, or previously unreported for recent years. To qualify for consideration in ***District Energy Space***, a renewal would have to be a contracted building or space that had been scheduled to expire and was subject to renewal under a contract with a duration of 10 years or more. Year-to-year rollover—simple continuation of service to existing buildings—is not considered renewal.

For each building, District Energy Space provides the following information:

- Building name and/or type
- Service provider's name and location
- Building area served in square feet
- Services provided (heating, domestic hot water, laundry, cooling, ice-making, pool warming, etc.)

***District Energy Space*** not only enables IDEA to document the year-to-year growth experienced by our member systems, but also can be a valuable marketing asset for your organization. During the IDEA 106th Annual Conference in Boston, Massachusetts, June 28-July 1, 2015, IDEA will recognize and present awards to those systems submitting the greatest amount of total square footage and the greatest number of total buildings for 2014 for both North America and Beyond North America. All systems submitting growth data will receive an IDEA *Certificate of Participation*.

***District Energy Space 2014*** and previous issues are available in PDF format by downloading from IDEA's Web site, <http://www.districtenergy.org/district-energy-space>

## Summary for 2014

Our members reported that they committed or recommitted **169** customer buildings in North America totaling **44,746,126** square feet (sq ft) of building space to district energy service during 2014, or were previously unreported. That compares with 114 buildings and 30,666,772 sq ft during 2013.

The North America total of **44,746,126** sq ft added in 2014 to IDEA's running total of square footage of **615,428,328** sq ft committed to North American district energy systems since 1990, brings the current total for North America reported since 1990 to **660,174,454** sq ft.

IDEA is also pleased to be able to report strong system growth from beyond North America, which we have tracked since 2004. An additional **2,651** buildings and **75,459,748** sq ft were reported for 2014. That compares with 1,175 buildings and 57,848,702 sq ft during 2013.

The Beyond North America total of **75,459,748** sq ft added in 2014 to IDEA's running total of square footage of **1,142,865,530** since 2004, brings the total for Beyond North America reported since 2004 to **1,218,325,278** sq ft.

Thus, the total building area reported added during 2014 in North America and Beyond North America is **120,205,874** sq ft. The total building area added, as reported to District Energy Space since our tally began is  $660,174,454 + 1,218,325,278 = \mathbf{1,878,499,732}$  sq ft.

## Stand Up and Be Recognized for 2015

Make plans now to photograph and enter your customer buildings that commit or recommit for your district energy service during 2015! The deadline for submittal of buildings for 2015 is **Fri., April 15, 2016**.

Continuing our tradition, during the IDEA 107th annual conference in St. Paul, Minnesota, June 20-23, 2016, 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 2015 for both North America and Beyond North America. We look forward to seeing you there!

### 2014 New Square Footage Reported\*

Category	North America	Beyond North America
Commercial-Mixed Use	8,593,441	34,338,677
Commercial-Office	9,213,453	5,900,996
Commercial-Retail/Manufacturing	7,728,989	322,917
Commercial-Other	267,000	0
Entertainment, Cultural or Sporting Center	2,307,240	76,424
Government	2,275,548	0
Hotel	1,904,215	18,205,082
Residential	4,844,324	13,250,941
School, Hospital or Institution	6,068,316	3,123,998
Other	1,543,600	240,714
<b>Square Footage Reported 2014</b>	<b>44,746,126</b>	<b>75,459,748</b>

**2014 Total Reported in North America and Beyond North America 120,205,874**

\* All entries are newly signed, connected or renewed customers during calendar year 2014 (Renewal means contractually recommitted to a long-term service agreement of 10 years or greater.)

## Commercial—Mixed Use

- **Commercial Mixed Use**  
New York, NY  
Consolidated Edison Company of New York  
750,000 sq ft—space heating, domestic hot water
- **Michigan Building**  
Detroit, MI  
Detroit Renewable Energy  
225,000 sq ft—space heating
- **1212 Griswold**  
Detroit, MI  
Detroit Renewable Energy  
100,000 sq ft—space heating
- **Bay Adelaide Center—**  
Toronto's first LEED® certified Core and Shell Gold high-rise office building  
Toronto, ON, Canada  
Enwave Toronto  
1,800,000 sq ft—space cooling



Bay Adelaide Center

- **1 York Street—LEED® Platinum**  
Toronto, ON, Canada  
Enwave Toronto  
800,000 sq ft—space cooling



1 York Street

- **88 Queens Quay—LEED® Gold**  
Toronto, ON, Canada  
Enwave Toronto  
886,026 sq ft—space cooling



88 Queens Quay

- **100 Adelaide Street—**  
LEED® Platinum  
Toronto, ON, Canada  
Enwave Toronto  
900,000 sq ft—space heating, space cooling, domestic hot water, humidification



100 Adelaide Street

- **120 Bremner Boulevard—**  
LEED® Gold  
Toronto, ON, Canada  
Enwave Toronto  
700,000 sq ft—space cooling



120 Bremner Boulevard

- **Downtown Markham Retail**  
Markham, ON, Canada  
Markham District Energy Inc.  
328,105 sq ft—space heating, space cooling, domestic hot water

- **IDS Center**  
Minneapolis, MN  
NRG Energy Center  
Minneapolis LLC  
1,600,000 sq ft—space heating, space cooling, domestic hot water



IDS Center two

- **The Tower at Midtown**  
Rochester, NY  
Rochester District Heating Cooperative, Inc.  
396,310 sq ft—space heating, domestic hot water, kitchen



The Tower at Midtown

- **Rochester Club**  
Rochester, NY  
Rochester District Heating Cooperative, Inc.  
37,000 sq ft—space heating



Rochester Club

## Commercial Office/Retail Building

- **Oklahoma City, OK**  
Veolia Energy North America  
141,000 sq ft—space heating, space cooling, domestic hot water

## Commercial—Office

- **Office Building**  
New York, NY  
Consolidated Edison Company of New York  
366,000 sq ft—space heating, domestic hot water, air conditioning (steam turbine-driven)
- **33 N. Dearborn**  
Chicago, IL  
Enwave Chicago  
450,000 sq ft—space cooling
- **330 N. Wabash**  
Chicago, IL  
Enwave Chicago  
1,200,000 sq ft—space cooling
- **150 N. Riverside**  
Chicago IL  
Enwave Chicago  
1,200,000 sq ft—space cooling
- **180 N. LaSalle**  
Chicago IL  
Enwave Chicago  
925,000 sq ft—space cooling
- **Fisher Studio Building**  
Seattle, WA  
Enwave Seattle  
67,500 sq ft—space heating, domestic hot water
- **Hartford Building**  
Seattle, WA  
Enwave Seattle  
13,000 sq ft—space heating, domestic hot water
- **Scientific Building**  
Seattle, WA  
Enwave Seattle  
21,000 sq ft—space heating, domestic hot water
- **Commercial Office Building**  
Baltimore, MD  
Veolia Energy North America  
20,000 sq ft—space cooling, refrigeration
- **Commercial Office Building**  
Veolia Energy North America  
Boston, MA  
250,000 sq ft—space heating



## Commercial—Office cont.

- **Commercial Office Building**  
Veolia Energy North America  
Boston, MA  
883,770 sq ft—space heating
- **Commercial Office Building**  
Veolia Energy North America  
Boston, MA  
70,999 sq ft—space heating
- **Commercial Office Building**  
Veolia Energy North America  
Boston, MA  
41,418 sq ft—space heating
- **Commercial Office Building**  
Veolia Energy North America  
Cincinnati, OH  
330,000 sq ft—space cooling
- **Commercial Office Building**  
Veolia Energy North America  
Cincinnati, OH  
566,509 sq ft—space cooling
- **Commercial Office Building**  
Veolia Energy North America  
Grand Rapids, MI  
280,257 sq ft—space heating,  
domestic hot water,  
humidification
- **Commercial Office Building**  
Veolia Energy North America  
Los Angeles, CA  
606,000 sq ft—space heating,  
space cooling, domestic hot  
water
- **Commercial Office Building**  
Veolia Energy North America  
Los Angeles, CA  
1,313,000 sq ft—space heating,  
space cooling, domestic hot  
water
- **Commercial Office Building**  
Veolia Energy North America  
Philadelphia, PA  
985,000 sq ft—space heating

## Commercial— Retail/Manufacturing

- **Office Building**  
New York, NY  
Consolidated Edison Company  
of New York  
525,000 sq ft—space heating,  
domestic hot water

- **Retail Store**  
New York, NY  
Consolidated Edison Company  
of New York  
51,273 sq ft—space heating
- **Retail Store**  
New York, NY  
Consolidated Edison Company  
of New York  
78,716 sq ft—space heating
- **Retail Store**  
New York, NY  
Consolidated Edison Company  
of New York  
14,000 sq ft—space heating
- **General Motors Hamtramck  
Assembly Plant**  
Detroit, MI  
Detroit Renewable Energy  
5,500,000 sq ft—space heating,  
space cooling, domestic hot  
water, humidification, process
- **The Bon Marche**  
Toronto, ON, Canada  
Enwave Toronto  
640,000 sq ft—space heating,  
domestic hot water
- **Commercial-Retail/  
Manufacturing Buildings (2)**  
Veolia Energy North America  
Boston, MA  
920,000 sq ft—space heating,  
domestic hot water, process

## Commercial—Other

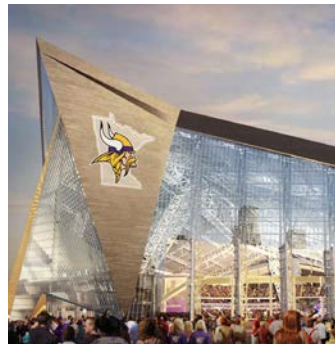
- **YMCA**  
NRG Energy Center  
Minneapolis LLC  
Minneapolis, MN  
117,000 sq ft—space cooling
- **The Minneapolis Club**  
NRG Energy Center  
Minneapolis LLC  
Minneapolis, MN  
150,000 sq ft—space heating,  
space cooling, domestic hot  
water, kitchen



The Minneapolis Club

## Entertainment, Cultural or Sporting Center

- **New Minnesota Stadium**  
(Minnesota Vikings venue)  
NRG Energy Center Minneapo-  
lis LLC  
1,700,000 sq ft—space heating,  
space cooling, domestic hot  
water



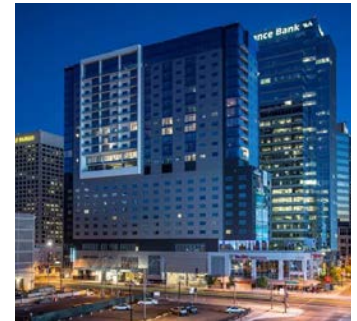
Norseman-New Minnesota Stadium  
(Minnesota Vikings venue)

- **Theatre**  
Veolia North America  
Boston, MA  
45,540 sq ft—space heating,  
space cooling, domestic hot  
water
- **Washington State  
Convention Center**  
Seattle, WA  
Enwave Seattle  
414,000 sq ft—space heating,  
domestic hot water
- **Markham Pan Am Centre**  
Markham, ON, Canada  
Markham District Energy Inc.  
147,700 sq ft—space heating,  
space cooling, domestic hot  
water



Markham Pan Am Centre

- **CityScape Residences**  
Phoenix, AZ  
NRG Energy Center Phoenix  
LLC  
165,000 sq ft—space cooling



CityScape Residences

## Government

- **Maricopa County Sheriff's  
Office & 911 Call Center**  
NRG Energy Center Phoenix  
LLC  
Phoenix, AZ  
171,548 sq ft—space cooling



Maricopa County Sheriff's Office & 911 Call  
Center

- **Judicial Council of  
California - Administrative  
Office of the Courts**  
NRG Energy Center San Diego  
LLC  
San Diego, CA  
704,000 sq ft—space cooling



San Diego Administrative Office of the Courts

## Government cont.

- **Monroe County Civic Center**  
Rochester District Heating Cooperative, Inc.  
Rochester, NY  
1,191,000 sq ft—space heating, domestic hot water, kitchen



Monroe County Civic Center

- **Monroe County Office Building**  
Rochester District Heating Cooperative, Inc.  
Rochester, NY  
117,000 sq ft—space heating



Monroe County Office Building

- **Rundel Library**  
Rochester District Heating Cooperative, Inc.  
Rochester, NY  
92,000 sq ft—space heating



Rundel Library

## Hotel

- **Hotel**  
New York, NY  
Consolidated Edison Company of New York  
257,915 sq ft—space heating, domestic hot water
- **203 N. Wabash**  
Enwave Chicago  
Chicago, IL  
175,000 sq ft—space cooling
- **71 E. Wacker**  
Enwave Chicago  
Chicago, IL  
150,000 sq ft—space cooling
- **Hotel**  
Boston, MA  
Veolia Energy North America  
510,300 sq ft—space heating, space cooling, domestic hot water, process, kitchen
- **Hotel**  
Philadelphia, PA  
Veolia Energy North America  
780,000 sq ft—space heating, domestic hot water, other

- **Inn on Broadway**  
Rochester District Heating Cooperative, Inc.  
Rochester, NY  
31,000 sq ft—space heating



Inn on Broadway

## Residential

- **Omega**  
City of Richmond, BC, Canada  
City of Richmond  
222,331 sq ft—space heating, space cooling, domestic hot water
- **Residential**  
New York, NY  
Consolidated Edison Company of New York  
17,310 sq ft—space heating, domestic hot water

- **Residential**  
New York, NY  
Consolidated Edison Company of New York  
245,000 sq ft—space heating, domestic hot water
- **Detroit Tower Apartments**  
Detroit MI  
Detroit Renewable Energy  
200,000 sq ft—space heating, domestic hot water
- **20-28 E. Jackson**  
Chicago, IL  
Enwave Chicago  
180,000 sq ft—space cooling
- **30 Nelson Street**  
Toronto, ON, Canada  
Enwave Toronto  
347,803 sq ft—Space heating, domestic hot water, humidification
- **199 Richmond Street**  
Toronto, ON, Canada  
Enwave Toronto  
272,326 sq ft—Space heating, domestic hot water, humidification



199 Richmond Street

- **295 Adelaide Street**  
Toronto, ON, Canada  
Enwave Toronto  
466,000 sq ft—Space heating, domestic hot water, humidification, process



295 Adelaide Street

- **Orizon**  
North Vancouver, BC, Canada  
Lonsdale Energy Corp.  
95,687 sq ft—space heating, domestic hot water
- **Capstone**  
North Vancouver, BC, Canada  
Lonsdale Energy Corp.  
66,494 sq ft—space heating, domestic hot water
- **Solitude**  
North Vancouver, BC, Canada  
Lonsdale Energy Corp.  
10,800 sq ft—space heating, domestic hot water
- **15 West**  
North Vancouver, BC, Canada  
Lonsdale Energy Corp.  
126,027 sq ft—space heating, domestic hot water
- **Remix**  
North Vancouver, BC, Canada  
Lonsdale Energy Corp.  
47,430 sq ft—space heating, domestic hot water
- **Shore**  
North Vancouver, BC, Canada  
Lonsdale Energy Corp.  
171,578 sq ft—space heating, domestic hot water
- **Haywood on the Park**  
North Vancouver, BC, Canada  
Lonsdale Energy Corp.  
61,914 sq ft—space heating, domestic hot water
- **Marleigh Retirement Residence**  
Markham, ON, Canada  
Markham District Energy, Inc.  
117,811 sq ft—space heating, space cooling, domestic hot water



Marleigh Retirement Residence



## Residential cont.

- **Nexus North and South**  
Markham, ON, Canada  
Markham District Energy, Inc.  
388,202 sq ft—space heating,  
space cooling, domestic hot  
water



Nexus

- **Uptown Markham River Park**  
Markham, ON, Canada  
Markham District Energy, Inc.  
388,202 sq ft—space heating,  
space cooling, domestic hot  
water



Uptown Markham River Park

- **Uptown Markham River Walk**  
Markham, ON, Canada  
Markham District Energy, Inc.  
460,893 sq ft—space heating,  
space cooling, domestic hot  
water
- **The Benchmark Town  
Manors**  
Markham, ON, Canada  
Markham District Energy, Inc.  
87,000 sq ft—space heating,  
space cooling, domestic hot  
water

## School, Hospital, Institution

- **Indiana University-Pursue  
University Indianapolis  
Campus**  
Indianapolis, IN  
Citizens Thermal  
261,000 sq ft—space heating,  
space cooling

- **Eskenazi Hospital**  
Indianapolis, IN  
Citizens Thermal  
1,376,000 sq ft—space heating,  
space cooling

- **Wayne State Applebaum  
School of Pharmacy**  
Detroit, MI  
Detroit Renewable Energy  
300,000 sq ft—Space heating,  
domestic hot water

- **Detroit Medical Center**  
Detroit, MI  
Detroit Renewable Energy  
350,000 sq ft—Space heating,  
domestic hot water,  
humidification

- **GEMS School**  
Chicago, IL  
Enwave Chicago  
320,000 sq ft—space cooling

- **Pioneer Human Services  
(Bishop Lewis House)**  
Seattle, WA  
Enwave Seattle  
5,000 sq ft—space heating,  
domestic hot water

- **Arnold Medical Pavilion**  
Seattle, WA  
Enwave Seattle  
216,636 sq ft—space heating,  
domestic hot water

- **Puget Sound Blood Center**  
Seattle, WA  
Enwave Seattle  
45,000 sq ft—space heating,  
domestic hot water

- **Engineered Biosystems  
Building**  
Fulton, GA  
Georgia Institute of Technology  
218,000 sq ft—space cooling  
Georgia Tech-extview1-Engi-  
neered Biosystems Building

- **Hope Centre**  
North Vancouver, BC, Canada  
Lonsdale Energy Corp.  
95,377 sq ft—space heating,  
domestic hot water

- **Case Western Reserve  
University Tinkham Veale  
University Center**  
Cleveland, OH  
The Medical Center Co.  
84,204 sq ft—space heating,  
space cooling, kitchen



Case Western Reserve Tinkham Veale  
University Center

- **Case Western Reserve  
University Bolwell Health  
Center Building**  
Cleveland, OH  
The Medical Center Co.  
246,000 sq ft—space cooling



Case Western Reserve Bolwell Health Center  
Building

- **Mayo Clinic Square**  
Minneapolis, MN  
NRG Energy Center  
Minneapolis  
282,000 sq ft—space cooling



Mayo Clinic Square

- **University of Arizona  
Cancer Center**  
Phoenix, AZ  
NRG Energy Center Phoenix  
622,295 sq ft—space cooling



University of Arizona Cancer Center

- **Pegula Ice Arena**  
University Park, PA  
Pennsylvania State University  
240,979 sq ft—space heating,  
space cooling, domestic hot  
water



Pennsylvania State University-Pegula Ice Arena

- **BioBehavioral Building**  
University Park, PA  
Pennsylvania State University  
93,035 sq ft—space heating,  
space cooling, domestic hot  
water



Pennsylvania State University-BioBehavioral  
Building

## School, Hospital, Institution cont.

- **Chace Hall**  
University Park, PA  
Pennsylvania State University  
48,643 sq ft—space heating,  
space cooling, domestic hot  
water



Chace Hall

- **Intermural Building (Addition)**  
University Park, PA  
Pennsylvania State University  
107,291 sq ft—space heating,  
space cooling, domestic hot  
water
- **HUB (Addition)**  
University Park, PA  
Pennsylvania State University  
64,000 sq ft—space heating,  
space cooling, domestic hot  
water
- **Health & Human Development (Addition)**  
University Park, PA  
Pennsylvania State University  
57,404 sq ft—space heating,  
space cooling, domestic hot  
water
- **South Halls**  
University Park, PA  
Pennsylvania State University  
319,688 sq ft—space cooling

- **Ford Building**  
University Park, PA  
Pennsylvania State University  
68,152 sq ft—space cooling

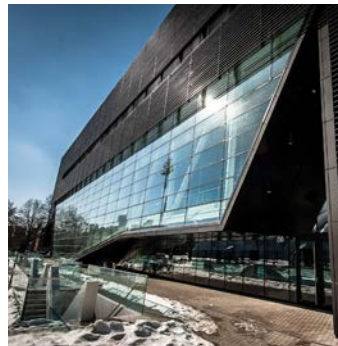
- **Henderson Building**  
University Park, PA  
Pennsylvania State University  
54,216 sq ft—space cooling

- **Amundson Hall Addition**  
Minneapolis, MN  
University of Minnesota  
41,441 sq ft—space heating,  
space cooling, domestic hot  
water, humidification, process



University of Minnesota Amundson Hall Addition

- **Goldring Centre for High Performance Sport**  
Toronto, ON, Canada  
University of Toronto  
144,238 sq ft—space heating,  
domestic hot water,  
humidification



University of Toronto Goldring Centre

- **FM Landscape Shop**  
Charlottesville, VA  
University of Virginia  
10,000 sq ft—space heating,  
space cooling, domestic hot  
water, humidification



University of Virginia FM Landscape Shop

- **Lacy Hall—LEED® Certified**  
Charlottesville, VA  
University of Virginia  
19,628 sq ft—space heating,  
space cooling, domestic hot  
water, humidification

- **Drama Education Building Addition—LEED® Silver**  
Charlottesville, VA  
University of Virginia  
20,540 sq ft—space heating,  
space cooling, domestic hot  
water, humidification

- **Lile-Maupin House—LEED® Silver**  
Charlottesville, VA  
University of Virginia  
58,041 sq ft—space heating,  
space cooling, domestic hot  
water, humidification

- **Tuttle-Dunnington House—LEED® Silver**  
Charlottesville, VA  
University of Virginia  
57,274 sq ft—space heating,  
space cooling, domestic hot  
water, humidification



University of Virginia Tuttle-Dunnington House

- **Shannon House—LEED® Gold**  
Charlottesville, VA  
University of Virginia  
66,794 sq ft—space heating,  
space cooling, domestic hot  
water, humidification

- **George Welsh Indoor Practice Facility—LEED® Certified**  
Charlottesville, VA  
University of Virginia  
84,688 sq ft—space heating,  
space cooling, humidification

- **Battle Building at the UVA Children's Hospital—LEED® Gold**  
Charlottesville, VA  
University of Virginia  
200,000 sq ft—space heating,  
space cooling, domestic hot  
water, humidification



University of Virginia Battle Building

## Other

- **Restaurant**  
New York, NY  
Consolidated Edison Company  
of New York  
21,600 sq ft—space heating,  
domestic hot water

- **Restaurant**  
New York, NY  
Consolidated Edison Company  
of New York  
5,000 sq ft—space heating

- **Restaurant**  
New York, NY  
Consolidated Edison Company  
of New York  
4,000 sq ft—space heating,  
domestic hot water

- **St. James Cathedral**  
Seattle, WA  
Enwave Seattle  
110,000 sq ft—space heating,  
domestic hot water

- **Midtown Parking Garage**  
Rochester, NY  
Rochester District Heating  
Cooperative, Inc.  
783,000 sq ft—space heating

- **South Avenue Garage**  
Rochester, NY  
Rochester District Heating  
Cooperative, Inc.  
620,000 sq ft—space heating



## Commercial—Mixed Use

- **D3 (Dubai Design District)**  
Dubai, UAE  
Emirates Central Cooling Systems Corporation (Empower)  
24,680,000 sq ft—space cooling



D3 Project Master Plan

- **Al Mana Tower**  
Doha, Qatar  
Qatar Cool  
818,064 sq ft—space cooling
- **Sowaah Square Tower 1**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
651,210 sq ft—space cooling
- **Sowaah Square Tower 2**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
651,210 sq ft—space cooling
- **Sowaah Square Tower 3**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
802,884 sq ft—space cooling
- **Sowaah Square Tower 4**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
802,884 sq ft—space cooling
- **Sowaah Square (SSQ) Retail**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
489,866 sq ft—space cooling



Sowaah Square

- **ADX**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
231,424 sq ft—space cooling
- **Al Hilal Bank**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
470,383 sq ft—space cooling



Al Hilal Bank

- **Sorouh Sun & Sky Tower**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
2,583,338 sq ft—space cooling
- **Al Dar WTC Tower 4**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
275,825 sq ft—space cooling
- **Al Dar WTC Tower 1**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
1,142,320 sq ft—space cooling



Al Dar WTC Tower 1

- **Ajman Sports Club Tower**  
Ajman, UAE  
Tabreed Ajman  
12,013 sq ft—space cooling
- **10A, 10B, 10C**  
Al Ain, Abu Dhabi, UAE  
Tabreed Al Ain  
41,032 sq ft—space cooling

- **Palermo**  
Lusail City, Al Daayen, Qatar  
Marafeq Qatar  
79,750 sq ft—space cooling



Palermo

- **Florence**  
Lusail City, Al Daayen, Qatar  
Marafeq Qatar  
70,299 sq ft—space cooling



Florence

- **Treviso/Verona/Naples**  
Lusail City, Al Daayen, Qatar  
Marafeq Qatar  
149,166 sq ft—space cooling



Treviso/Verona/Naples

- **Milan/Rome/Venice**  
Lusail City, Al Daayen, Qatar  
Marafeq Qatar  
158,534 sq ft—space cooling



Milan/Rome/Venice

- **Marina COM 037**  
Lusail City, Al Daayen, Qatar  
Marafeq Qatar  
228,475 sq ft—space cooling



Marina COM 037

## Commercial—Office

- **Al Baraha Tower**  
Lusail City, Al Daayen, Qatar  
Marafeq Qatar  
225,590 sq ft—space cooling



Al Bahara Tower

- **Al Jaber Engineering Headquarters**  
Lusail City, Al Daayen, Qatar  
Marafeq Qatar  
71,702 sq ft—space cooling



Al Jaber Engineering Headquarters

### Commercial—Office cont.

#### ■ Al Jasra Towers

Lusail City, Al Daayen, Qatar  
Marafeq Qatar  
291,175 sq ft—space cooling



Al Jasra Towers

#### ■ Marina COM 050

Lusail City, Al Daayen, Qatar  
Marafeq Qatar  
202,426 sq ft—space cooling



Marina COM 050

#### ■ Marina MIX 009 B

Lusail City, Al Daayen, Qatar  
Marafeq Qatar  
313,359 sq ft—space cooling



Marina MIX 009 B

#### ■ Marina COM 011

Lusail City, Al Daayen, Qatar  
Marafeq Qatar  
365,908 sq ft—space cooling



Marina COM 011

#### ■ Al Jassimiyah Tower

Doha, Qatar  
Qatar Cool  
385,599 sq ft—space cooling



Al Jassimiyah Tower

#### ■ Al Baker Towers

Doha, Qatar  
Qatar Cool  
678,003 sq ft—space cooling



Al Baker Towers

#### ■ Al Majed Tower

Doha, Qatar  
Qatar Cool  
385,599 sq ft—space cooling



Al Majed Tower

#### ■ Al Asmakh Tower

Doha, Qatar  
Qatar Cool  
283,631 sq ft—space cooling

#### ■ Abraj Quartier-01

Doha, Qatar  
Qatar Cool  
655,248 sq ft—space cooling

#### ■ Abraj Quartier-02

Doha, Qatar  
Qatar Cool  
646,916 sq ft—space cooling

#### ■ Al Noor Etihad Airways Building

Abu Dhabi, UAE  
Tabreed Abu Dhabi  
322,917 sq ft—space cooling

#### ■ Al Hikma Tower

Dubai, UAE  
Tabreed Dubai  
807,293 sq ft—space cooling



Al Hikma Tower

### Commercial—Retail/Manufacturing

#### ■ Podium

Abu Dhabi, UAE  
Tabreed Abu Dhabi  
322,917 sq ft—space cooling

### Entertainment, Cultural or Sporting Center

#### ■ Yas Marina Yacht Club

Abu Dhabi, UAE  
Tabreed Abu Dhabi  
76,424 sq ft—space cooling



Yas Marina Yacht Club

### Hotel

#### ■ Jumeirah Emirates Towers

Dubai, UAE  
Emirates Central Cooling Systems Corporation (Empower)  
2,400,000 sq ft—space cooling



Jumeirah Emirates Towers



## Hotel cont.

- **Jumeirah Beach Hotel**  
Dubai, UAE  
Emirates Central Cooling Systems Corporation (Empower)  
3,100,000 sq ft—space cooling



Jumeirah Beach Hotel

- **Burj Al Arab**  
Dubai, UAE  
Emirates Central Cooling Systems Corporation (Empower)  
1,750,000 sq ft—space cooling



Madinat Jumeirah

- **Madinat Jumeirah 1,2,3**  
Dubai, UAE  
Emirates Central Cooling Systems Corporation (Empower)  
4,200,000 sq ft—space cooling



Madinat Jumeirah 4

- **Bin Samikh Tower**  
Doha, Qatar  
Qatar Cool  
419,796 sq ft—space cooling



Bin Samikh Tower

- **Commercial Twin Towers-Hotel**  
Doha, Qatar  
Qatar Cool  
575,874 sq ft—space cooling



Commercial Twin Towers Hotel

- **Waldorf Astoria Hotel**  
Doha, Qatar  
Qatar Cool  
742,716 sq ft—space cooling

- **Marsa Malaz**  
Doha, Qatar  
Qatar Cool  
556,499 sq ft—space cooling



Marsa Malaz

- **JW Marriott Hotel**  
Doha, Qatar  
Qatar Cool  
740,563 sq ft—space cooling

- **Rosewood**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
1,068,243 sq ft—space cooling



Rosewood

- **Four Seasons**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
1,076,391 sq ft—space cooling

## Residential

- **Bungalows (56)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
235,200 sq ft—space cooling



Bungalow

- **Dar Kinda Shop #1**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
4,355 sq ft—space cooling

- **Dar Kinda Shop #2**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
1,304 sq ft—space cooling

- **Dar Kinda (23)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
25,503 sq ft—space cooling



Dar Kinda

- **Detroit (150)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
173,969 sq ft—space cooling

- **Detroit Shops (9)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
13,863 sq ft—space cooling

## Residential cont.

- **Dunes Village (111 units)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
63,510 sq ft—space cooling



Dunes Village 2

- **Elite 5 (348 units, corridor, lockers, electric room, female and male gyms, GSM room, machine room, service room)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
134,625 sq ft—space cooling



Elite 1

- **Elite 7 (128 units)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
78,850 sq ft—space cooling  
Emicool-Elite 2
- **Ewan (12 units, common area and female gym )**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
11,255 sq ft—space cooling



Ewan Residence 2

- **European (82 units)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
85,237 sq ft—space cooling
- **Fox Hill (86 units, lift, lobby, electric room, lift machine room)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
179,305 sq ft—space cooling



Fox Hill 1-7

- **Luxury Villa (5 units and male gym)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
36,725 sq ft—space cooling



Luxury Villa

- **New Bridge Hill (100 units)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
188,268 sq ft—space cooling



New Bridge Hill 1, 2, 3

- **Plots (15)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
77,481 sq ft—space cooling

- **Ritaj A (344 units)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
169,086 sq ft—space cooling



Ritaj A

- **Ritaj C (139 units)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
115,429 sq ft—space cooling

- **Ritaj D (207 units)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
640,261 sq ft—space cooling

- **Ritaj E (175 units)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
195,979 sq ft—space cooling

- **Ritaj F (161 units)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
178,595 sq ft—space cooling



Ritaj F

- **Ritaj G (61 units)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
111,573 sq ft—space cooling



Ritaj G

- **Ritaj H (61 units)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
125,921 sq ft—space cooling



Ritaj H

- **Ritaj L (100 units and swimming pool service)**  
Dubai, UAE  
Emirates District Cooling (Emicool)  
51,377 sq ft—space cooling

- **Themaar (14 units)**  
Dubai, UAE  
23,080 sq ft—space cooling



Themaar

- **H.E. Juma Al Majed Building**  
Dubai  
Emirates Central Cooling Systems Corporation (Empower)  
538,000 sq ft—space cooling



## Residential cont.

- **Town House (41 units)**  
Dubai, UAE  
15,908 sq ft—space cooling



Town House

- **Union Residences (7 units)**  
Dubai, UAE  
4,824 sq ft—space cooling



Union Residence A

- **Catania**  
Lusail City, Al Daayen Municipality, Qatar  
Marafeq Qatar  
41,559 sq ft—space cooling



Catania

- **Fox Hills Residences C/D/L/P/N (22 buildings)**  
Lusail City, Al Daayen Municipality, Qatar  
Marafeq Qatar  
914,286 sq ft—space cooling



Fox Hills Residence D53

- **Fox Hills Residences K01/02/07 (3 buildings)**  
Lusail City, Al Daayen Municipality, Qatar  
Marafeq Qatar  
251,189 sq ft—space cooling

- **Viva Bahiyya-02**  
Doha, Qatar  
Qatar Cool  
192,159 sq ft—space cooling



Viva Bahiyya-02

- **Viva Bahiyya-06**  
Doha, Qatar  
Qatar Cool  
380,583 sq ft—space cooling

- **Viva Bahiyya-07**  
Doha, Qatar  
Qatar Cool  
380,583 sq ft—space cooling

- **Viva Bahiyya-19**  
Doha, Qatar  
Qatar Cool  
380,583 sq ft—space cooling

- **Viva Bahiyya-26**  
Doha, Qatar  
Qatar Cool  
380,583 sq ft—space cooling

- **LPVC-03, 04, 19, 45, 46, 49, 50**  
Doha, Qatar  
Qatar Cool  
42,647 sq ft—space cooling

- **LPVE-11, 16, 26, 45**  
Doha, Qatar  
Qatar Cool  
28,886 sq ft—space cooling

- **LPVW-17**  
Doha, Qatar  
Qatar Cool  
6,552 sq ft—space cooling

- **Al Darwish Tower**  
Doha, Qatar  
Qatar Cool  
33,684 sq ft—space cooling

- **Al Thuraya Tower**  
Doha, Qatar  
Qatar Cool  
499,450 sq ft—space cooling

- **BVN-8, 35, 36, 42, 43, 46, 49, 53, 54, 61, 62**  
Doha, Qatar  
Qatar Cool  
90,965 sq ft—space cooling



BVN-54

- **BVS-25, 28, 33, 34, 48, 54, 56, 59-68**  
Doha, Qatar  
Qatar Cool  
124,203 sq ft—space cooling

- **BVN-8, 35, 42, 46, 53, 54, 61, 62**  
Doha, Qatar  
Qatar Cool  
68,102 sq ft—space cooling

- **Mangrove Place**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
430,556 sq ft—space cooling

- **Beach Towers**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
693,465 sq ft—space cooling

- **ADNIC Building**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
193,212 sq ft—space cooling

- **Reem Diamonds**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
53,820 sq ft—space cooling

- **Sorouh Gate Towers-3**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
1,049,481 sq ft—space cooling

- **Sorouh Gate Towers-4**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
1,076,391 sq ft—space cooling

- **Sorouh Gate Towers-5**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
1,049,481 sq ft—space cooling

- **Sorouh Gate Towers-7**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
1,076,391 sq ft—space cooling

## School, Hospital, Institution

- **Emirates Academy of Hospitality Management**  
Dubai, UAE  
Emirates Central Cooling Systems Corporation (Empower)  
300,000 sq ft—space cooling

- **Cleveland Clinic Abu Dhabi**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
2,823,998 sq ft—space cooling



Cleveland Clinic

## Other

- **Fire Station**  
Doha, Qatar  
Qatar Cool  
21,130 sq ft—space cooling



Fire Station

- **South Car Park**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
107,639 sq ft—space cooling

- **North Car Park**  
Abu Dhabi, UAE  
Tabreed Abu Dhabi  
111,945 sq ft—space cooling

## Plan to submit your data for 2015

Make plans now to photograph and enter your customer buildings that commit or recommit for your district energy service during 2015! The deadline for submittal is **Fri., April 15, 2016.**

To enter your newly committed, recommitted or connected customers for 2015, please download and complete the Excel® template found at <http://www.districtenergy.org/assets/pdfs/DESpace15/2015DESpaceblankform.xls>

Please use the form exactly as provided and fill in all appropriate cells to facilitate our compilation of the data. Submit the final document (list all buildings within one document) to Len Phillips at [len.idea@districtenergy.org](mailto:len.idea@districtenergy.org).

Please send as many building photographs as possible, and label each photo with a file name that clearly identifies your company and the building name, such as: **"My Energy Company-Smith Office Building"**.

Thank you.

To access past issues of *District Energy Space*, visit <http://www.districtenergy.org/district-energy-space-2>



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