

District Energy Space 2017



Spotlighting Industry Growth

2017: More than 109 million square feet reported
Over 2.2 billion square feet reported since 1990

District Energy Space 2017

Industry Growth around the World

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



The publication of ***District Energy Space*** has become an annual tradition for the International District Energy Association since 1990. Compilations beyond North America were initiated in 2004. This issue features a compilation of data provided by our members including the number of buildings and their area in square feet that have been committed or recommitted to district energy service in North America during calendar year 2017, or previously unreported for recent years.

Each year, IDEA asks all of its member systems to provide information on buildings that committed or recommitted to district energy service during the previous calendar year. To qualify for consideration in ***District Energy Space***, a renewal must be a contracted building or space that had been scheduled to expire during the calendar year and was renewed 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.

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 2,200 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.

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 (space heating, domestic hot water, laundry, space 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 109th Annual Conference in Vancouver, BC, Canada, June 11-14, 2018, 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 2017 for both North America and Beyond North America. All systems submitting growth data will receive an IDEA *Certificate of Participation*.

District Energy Space 2017 and previous issues are available in PDF format by downloading from IDEA's Web site, <http://www.districtenergy.org/district-energy-space>

North America

Our members reported that they committed or recommitted **190** customer buildings in North America totaling **50,028,785** square feet (sq ft) of building space to district energy service during 2017, or were previously unreported. That compares with 350 buildings and **57,810,954** sq ft during 2016.

The North America total of **50,028,785** sq ft added in 2017 to IDEA's running total of square footage of **751,664,024** sq ft committed to North American district energy systems since 1990, brings the current total for North America reported since 1990 to **801,692,809** sq ft.

Beyond North America

IDEA is also pleased to be able to report strong system growth from beyond North America, which we have tracked since 2004. An additional **243** buildings and **59,058,273** sq ft were reported for 2017. That compares with **425** buildings and **105,331,989** sq ft during 2016.

The Beyond North America total of **59,058,273** sq ft added in 2017 to IDEA's running total of square footage of **1,366,513,294**

Beyond North America since 2004, brings the Beyond North America total reported since 2004 to **1,425,571,567** sq ft.

Totals: North America and Beyond North America

The combined building area reported added during 2017 in North America and Beyond North America is **108,318,059** sq ft. The total building area added, as reported to *District Energy Space* by our members since our tally began is **109,087,059** + **2,118,177,318** = **2,227,264,377** sq feet.

Stand Up and Be Recognized for 2018

Make plans now to photograph and enter your customer buildings that commit or recommit for your district energy service during calendar year 2018! The deadline for submittal of buildings for 2018 is **Fri., April 5, 2019**.

Continuing our tradition, during the IDEA 110th annual conference in Pittsburgh, Pennsylvania, June 24-27, 2019, IDEA will congratulate and present awards to those systems reporting the largest growth for calendar 2018 for both North America and Beyond North America. We look forward to seeing you there!

2017 New Square Footage Reported*

Category	North America	Beyond North America
Commercial-Mixed Use	17,223,208	2,514,903
Commercial-Office	13,199,737	4,205,726
Commercial-Retail/Manufacturing	127,050	211,665
Commercial-Other	951,490	561,273
Entertainment, Cultural or Sporting Center	1,429,252	860,650
Government	951,490	1,627,865
Hotel	2,001,736	417,127
Residential	5,526,985	44,841,549
School, Hospital or Institution	7,843,840	2,163,376
Other	870,425	1,654,140
Square Footage Reported 2017	50,028,785	59,058,273

2017 Total Reported in North America and Beyond North America

109,087,059

* All entries are newly signed, connected or renewed customers during calendar year 2017 (*Renewal* means contractually recommitted to a long-term service agreement of 10 years or greater.)

Commercial—Mixed Use

- **Texas Mutual Insurance**
Austin, TX
Austin Energy
283,000 sq ft—space cooling

- **Gilbert Building**
St. Paul, MN
District Energy St. Paul
35,000 sq ft—space heating



District Energy St. Paul—Gilbert Building

- **Treasure Island Center**
St. Paul, MN
District Energy St. Paul
390,000 sq ft—space heating



District Energy St. Paul—Treasure Island Center

- **Wells Fargo Place**
St. Paul, MN
District Energy St. Paul
620,000 sq ft—space heating, space cooling



District Energy St. Paul—Wells Fargo Place

- **428 Minnesota Street**
St. Paul, MN
District Energy St. Paul
47,080 sq ft—space heating, space cooling



District Energy St. Paul—428 Minnesota Street

- **600 W. Chicago Avenue**
Chicago, IL
Enwave Chicago
1,621,745 sq ft—space cooling

- **404 W. Harrison Street**
Chicago, IL
Enwave Chicago
2,700,000 sq ft—space cooling



Enwave Chicago—404 W. Harrison

- **200 World Trade Center (Merchandise Mart)**
Chicago, IL
Enwave Chicago
3,460,000 sq ft—space cooling

- **Office Building**
Toronto, ON, Canada
Enwave Energy Corporation
1,407,099 sq ft—space cooling

- **Retail Building**
Toronto, ON, Canada
Enwave Energy Corporation
851,000 sq ft—space heating, space cooling, domestic hot water

- **Office, Retail and Residential Building**
Toronto, ON, Canada
Enwave Energy Corporation
3,017,118 sq ft—space heating, space cooling, domestic hot water

- **Retail Building**
Toronto, ON, Canada
Enwave Energy Corporation
1,736,408 sq ft—space cooling

- **Office Building**
Toronto, ON, Canada
Enwave Energy Corporation
758,528 sq ft—space cooling

- **3 Civic Plaza**
Surrey, BC, Canada
Surrey City Energy
169,740 sq ft—space heating, domestic hot water, process, kitchen

- **Wayne Densch Center for Student Athlete Leadership (LEED® Gold)**
Orlando, FL
University of Central Florida
21,420 sq ft—space heating, space cooling, domestic hot water, kitchen



University of Central Florida—Wayne Densch Center for Student Athlete Leadership

- **Resource Management Warehouse**
Orlando, FL
University of Central Florida
9,992 sq ft—space heating, space cooling, domestic hot water, kitchen

- **Engineering II**
Orlando, FL
University of Central Florida
108,078 sq ft—space heating, space cooling, domestic hot water, kitchen

- **WTC Tower 3**
New York City, NY
Con Edison Co. of New York
2,167,000 sq ft—space heating, domestic hot water, kitchen

Commercial—Office

- **112 Properties**
St. Paul, MN
District Energy St. Paul
7,800 sq ft—space heating

- **Osborne Properties**
St. Paul, MN
District Energy St. Paul
278,388—space heating, space cooling

- **Exchange Building**
St. Paul, MN
District Energy St. Paul
60,775—space cooling



District Energy St. Paul—Exchange Building

- **350 N. Orleans Street**
Chicago, IL
Enwave Chicago
1,243,000 sq ft—space cooling

- **200 E. Randolph Street**
Chicago, IL
Enwave Chicago
2,529,269 sq ft—space cooling

- **120 S. LaSalle Street**
Chicago, IL
Enwave Chicago
1,108,680 sq ft—space cooling

- **33 N. LaSalle Street**
Chicago, IL
Enwave Chicago
405,000 sq ft—space cooling

- **325 N. Wells Street**
Chicago, IL
Enwave Chicago
154,112 sq ft—space cooling

- **221 N. LaSalle Street**
Chicago, IL
Enwave Chicago
416,224 sq ft—space cooling

Commercial—Office cont.

- **Office Building**
Toronto, ON, Canada
Enwave Energy Corporation
957,902 sq ft—space cooling
- **Office Building**
Toronto, ON, Canada
Enwave Energy Corporation
961,557 sq ft—space cooling
- **Office Building**
Toronto, ON, Canada
Enwave Energy Corporation
204,217 sq ft—space heating
- **Office Building**
Toronto, ON, Canada
Enwave Energy Corporation
152,000 sq ft—space heating, domestic hot water
- **Office Building**
Toronto, ON, Canada
Enwave Energy Corporation
319,449 sq ft—space heating, space cooling, domestic hot water
- **Office Building**
Toronto, ON, Canada
Enwave Energy Corporation
716,432 sq ft—space cooling
- **Office Building**
Toronto, ON, Canada
Enwave Energy Corporation
368,023 sq ft—space cooling
- **Office Building**
Toronto, ON, Canada
Enwave Energy Corporation
763,000 sq ft—space heating, space cooling
- **Plaza 7 Complex, 45 South 7th Street**
Minneapolis, MN
NRG Minneapolis
315,000 sq ft—space heating, space cooling, kitchen



NRG Minneapolis—Plaza 7 Complex, 45 South 7th Street

- **Traitel Building**
Santa Clara, CA
Stanford University
49,176 sq ft—space heating, space cooling, domestic hot water, humidification, kitchen, refrigeration



Stanford University—Traitel Building

- **Kingscote Gardens**
Santa Clara, CA
Stanford University
19,839 sq ft—space heating, space cooling, domestic hot water, humidification, kitchen, refrigeration



Stanford University—Kingscote Gardens

- **Facilities Support Building—Print Shop**
Orlando, FL
University of Central Florida
1,869 sq ft—space heating, space cooling, domestic hot water, kitchen
- **Biological Sciences—Room 309**
Orlando, FL
University of Central Florida
1,025 sq ft—space heating, space cooling, domestic hot water, kitchen

Commercial—Retail/Manufacturing

- **Burger Study**
Indianapolis, IN
Citizens Thermal Energy
30,000 sq ft—space cooling
- **Molex Copper Flex Products**
St. Paul, MN
District Energy St. Paul
53,500 sq ft—space heating, space cooling
- **Pollo Tropical**
Orlando, FL
University of Central Florida
3,550 sq ft—district heating, district cooling, domestic hot water, kitchen
- **Target Store**
New York City, NY
Con Edison Co. of New York
40,600 sq ft—space heating, domestic hot water
- **Target Store**
New York City, NY
Con Edison Co. of New York
42,000 sq ft—space heating, domestic hot water

Commercial—Other

- **Office Building (Data Center)**
Toronto, ON, Canada
Enwave Energy Corporation
275,000 sq ft—space cooling
- **Office Building (Data Center)**
Toronto, ON, Canada
Enwave Energy Corporation
225,000 sq ft—space cooling
- **Frontier Communications**
Rochester, NY
Rochester District Heating
92,433 sq ft—space heating



Rochester District Heating—Frontier Communications

- **Joslyn Museum**
Omaha, NE
NRG Omaha
107,000 sq ft—space heating, space cooling
- **Kiewitt University**
Omaha, NE
NRG Omaha
60,000 sq ft—space heating, space cooling
- **District Energy Plant IV (LEED® Gold)**
Orlando, FL
University of Central Florida
9,830 sq ft—space heating, space cooling, domestic hot water, kitchen
- **Ferrell Commons**
Orlando, FL
University of Central Florida
3,200 sq ft—space heating, space cooling, domestic hot water, kitchen

Entertainment, Cultural or Sporting Center

- **Helen Hayes Theater**
New York City, NY
Con Edison Co. of New York
23,000 sq ft—space heating
- **Saint Paul RiverCentre (LEED® EB)**
St. Paul, MN
District Energy St. Paul
312,000 sq ft—space heating, space cooling



District Energy St. Paul—Saint Paul RiverCentre

- **Xcel Energy Center (LEED® EB)**
St. Paul, MN
District Energy St. Paul
650,000 sq ft—space heating, space cooling

Entertainment, Cultural or Sporting Center cont.

- **Office Building**
Toronto, ON, Canada
Enwave Energy Corporation
54,000 sq ft—space heating
- **Century Square—Retail**
College Station, TX
Texas A&M University
348,460 sq ft—electricity
- **Women's Softball Stadium (LEED® Gold)**
Columbia, MO
University of Missouri
27,112 sq ft—space heating, space cooling



University of Missouri—Women's Softball Stadium

- **Arena Auditorium Addition Phase II**
Laramie, WY
University of Wyoming
14,680 sq ft—space heating, domestic hot water, kitchen, refrigeration



University of Wyoming—Arena Auditorium Addition Phase II

Government

- **Warren Burger Federal Building**
St. Paul, MN
District Energy St. Paul
450,000 sq ft—space heating, space cooling



District Energy St. Paul—Warren Burger Federal Building

- **Golden Rule Building**
St. Paul, MN
District Energy St. Paul
334,490 sq ft—space heating, space cooling



District Energy St. Paul—Golden Rule Building

- **Legend Technical Services**
St. Paul, MN
District Energy St. Paul
12,000 sq ft—space heating

- **Public Safety Building**
Rochester, NY
Rochester District Heating
155,000 sq ft—space heating



Rochester District Heating—Public Safety Building

Hotel

- **Downtown Austin Marriott**
Austin, TX
Austin Energy
499,000 Sq ft—space cooling
- **Plaza 7 Complex, 45 South 7th Street**
Minneapolis, MN
NRG Minneapolis
555,000 sq ft—space heating, space cooling, kitchen
- **168 N. Michigan Avenue**
Chicago, IL
Enwave Chicago
104,000 sq ft—space cooling
- **171 W. Randolph Street**
Chicago, IL
Enwave Chicago
315,000 sq ft—space cooling
- **Marriott Hotel**
Omaha, NE
NRG Omaha
304,000 sq ft—space heating, space cooling, kitchen
- **Century Square Hotel**
College Station, TX
Texas A&M University
224,736 sq ft—electricity

Residential

- **520 Park Avenue**
New York City, NY
Con Edison Co. of New York
240,000 sq ft—space heating, domestic hot water
- **Woolworth Building**
New York City, NY
Con Edison Co. of New York
161,000 sq ft—space heating, domestic hot water
- **Lowertown Commons**
St. Paul, MN
District Energy St. Paul
118,530 sq ft—space heating, space cooling
- **Heritage House**
St. Paul, MN
District Energy St. Paul
65,000 sq ft—space heating
- **Pioneer Apartments**
St. Paul, MN
District Energy St. Paul
166,367 sq ft—space heating, space cooling
- **333 W. Hubbard Street**
Chicago, IL
Enwave Chicago
375,000 sq ft—district cooling
- **630 N. State Street**
Chicago, IL
Enwave Chicago
393,488 sq ft—district cooling
- **Office and Residential Building**
Toronto, ON, Canada
Enwave Energy Corporation
32,000 q ft—space heating, domestic hot water
- **Office Building**
Toronto, ON, Canada
Enwave Energy Corporation
220,000 sq ft—space heating, domestic hot water
- **Onni-Riva 3**
Richmond, BC, Canada
Lulu Island Energy Company
155,829 sq ft—space heating, domestic hot water



District Energy St. Paul—Heritage House

- **520 Park Avenue**
New York City, NY
Con Edison Co. of New York
240,000 sq ft—space heating, domestic hot water
- **Woolworth Building**
New York City, NY
Con Edison Co. of New York
161,000 sq ft—space heating, domestic hot water
- **Lowertown Commons**
St. Paul, MN
District Energy St. Paul
118,530 sq ft—space heating, space cooling
- **Heritage House**
St. Paul, MN
District Energy St. Paul
65,000 sq ft—space heating
- **Pioneer Apartments**
St. Paul, MN
District Energy St. Paul
166,367 sq ft—space heating, space cooling
- **333 W. Hubbard Street**
Chicago, IL
Enwave Chicago
375,000 sq ft—district cooling
- **630 N. State Street**
Chicago, IL
Enwave Chicago
393,488 sq ft—district cooling
- **Office and Residential Building**
Toronto, ON, Canada
Enwave Energy Corporation
32,000 q ft—space heating, domestic hot water
- **Office Building**
Toronto, ON, Canada
Enwave Energy Corporation
220,000 sq ft—space heating, domestic hot water
- **Onni-Riva 3**
Richmond, BC, Canada
Lulu Island Energy Company
155,829 sq ft—space heating, domestic hot water



Lulu Island Energy Company, Oval Village
District Energy Utility—Onni-Riva 3



District Energy St. Paul—Lowertown Commons

Residential cont.

- **Aspac, 2 River Green (Lot 9)**
Richmond, BC, Canada
Lulu Island Energy Company
323,111 sq ft—space heating,
domestic hot water



Lulu Island Energy Company—Oval Village
District Energy Utility—2 River Green



Lulu Island Energy Company—Oval Village
District Energy Utility—Energy Transfer Station

- **88 Elm Street**
Rochester, NY
Rochester District Heating
80,271 sq ft—space heating,
domestic hot water



Rochester District Heating—88 Elm Street

- **50 Chestnut Street**
Rochester, NY
Rochester District Heating
164,043 sq ft—space heating,
domestic hot water



Rochester District Heating—50 Chestnut Street

- **Alliance Building**
Rochester, NY
Rochester District Heating
167,000 sq ft—space heating,
domestic hot water



Rochester District Heating—Alliance Building

- **3 Civic Plaza**
Surrey, BC, Canada
Surrey City Energy
310,545 sq ft—space heating,
domestic hot water, process,
kitchen

- **Park Avenue, Phase 2**
Surrey, BC, Canada
Surrey City Energy
345,890 sq ft—space heating,
domestic hot water, process,
kitchen

- **Century Square-Apartment**
College Station, TX
Texas A&M University
240,000 sq ft—electricity

- **Park West**
College Station, TX
Texas A&M University
1,453,951 sq ft—electricity

- **Honors Hall**
Lubbock, TX
Texas Tech University—
Operations Division CHACP
50,389 sq ft—space heating,
space cooling, domestic hot
water, kitchen, refrigeration



Texas Tech University—Honors Hall

- **Peter Lougheed Hall**
Edmonton, AB, Canada
University of Alberta
87,414 sq ft—space heating,
space cooling, domestic hot
water, humidification, kitchen



University of Alberta—Peter Lougheed Hall

- **Brock Commons—Totem Infill (LEED® Gold)**
Vancouver, BC, Canada
University of British Columbia
101,303 sq ft—space heating,
domestic hot water



University of British Columbia—Totem Infill

- **Brock Commons—Tallwood House (LEED® Gold)**
Vancouver, BC, Canada
University of British Columbia
163,658 sq ft—space heating,
domestic hot water, kitchen



University of British Columbia—Tallwood
House

- **Central (University Boulevard Site B) (LEED® Gold)**
Vancouver, BC, Canada
University of British Columbia
98,886 sq ft—space heating,
domestic hot water, kitchen



University of British Columbia—Central
(University Boulevard Site B)

- **Bluford Residence Hall and Restaurants at Southwest**
Columbia, MO
University of Missouri
113,310 sq ft—space heating,
space cooling, humidification,
kitchen



University of Missouri—Bluford Residence
Hall and Restaurants at Southwest

School, Hospital, Institution

- **Riverside Center School**
New York City, NY
Con Edison Co. of New York
100,000 sq ft—space heating,
domestic hot water

- **222 East 41 Street—NYU Medical**
New York City, NY
Con Edison Co. of New York
390,973 sq ft—space heating,
domestic hot water, humidification, kitchen

- **John Nasseff Medical Center**
St. Paul, MN
District Energy St. Paul
34,700 sq ft—space heating



District Energy St. Paul — John Nasseff Medical Center

- **Gillette Children's Specialty Healthcare**
St. Paul, MN
District Energy St. Paul
79,000 sq ft—space heating

- **Bethesda Hospital**
St. Paul, MN
District Energy St. Paul
310,980 sq ft—space heating

- **St. Joseph's Hospital**
St. Paul, MN
District Energy St. Paul
422,285 sq ft—space heating



District Energy St. Paul — St. Joseph's Hospital

- **7 W. Madison Street**
Chicago, IL
Enwave Chicago
105,300 sq ft—space cooling

- **Office Building**
Toronto, ON, Canada
Enwave Energy Company
132,000 sq ft—space heating

- **Hospital**
Toronto, ON, Canada
Enwave Energy Company
2,100,000 sq ft—space cooling

- **Case Western Reserve University—Biomedical Research Building**
Cleveland, OH
Medical Center Company
265,533 sq ft—space heating,
space cooling

- **Harris County Forensic Science Building**
Houston, TX
Thermal Energy Corporation
200,000 sq ft—space heating,
space cooling

- **Houston Independent School District—DeBakey High School for Health Professionals**
Houston, TX
Thermal Energy Corporation
195,000 sq ft—space cooling

- **Houston Community College—HCC Coleman College for Health Sciences**
Houston, TX
Thermal Energy Corporation
246,000 sq ft—space heating,
space cooling

- **Houston Methodist Hospital North Campus Expansion**
Houston, TX
Thermal Energy Corporation
1,150,000 sq ft—space heating,
space cooling

- **Texas Children's Hospital—Pavilion for Women Expansion**
Houston, TX
Thermal Energy Corporation
646,000 sq ft—space heating,
space cooling

- **Texas A&M Veterinary Medical Diagnostic Laboratory (TVMDL)**
College Station, TX
Texas A&M University
94,936 sq ft—space heating

- **Human Clinical Research Building**
College Station, TX
Texas A&M University
22,052 sq ft—space heating,
space cooling

- **Wildlife, Fisheries & Ecological Sciences Building**
College Station, TX
Texas A&M University
79,000 sq ft—space heating,
space cooling

- **Aramark Student Training & Recreation Complex (ASTARC)**
Philadelphia, PA
Temple University
110,719 sq ft—space heating,
space cooling, domestic hot
water, humidification



Temple University—Aramark Student Training & Recreation Complex (ASTARC)

- **Biosciences Research Laboratory (BSRL)**
Tucson, AZ
University of Arizona
150,200 sq ft—space heating,
space cooling, domestic hot
water, humidification



University of Arizona—Biosciences Research Laboratory (BSRL)

- **C.A.T.S. (Commitment to an Athlete's Total Success) Academic Center**
Tucson, AZ
University of Arizona
17,587 sq ft—space heating,
space cooling, domestic hot
water



University of Arizona—C.A.T.S. Academic Center

- **CREOL (College of Optics and Photonics)—3rd Floor Fit-out**
Orlando, FL
University of Central Florida
2,746 sq ft—space heating,
space cooling, domestic hot
water, kitchen

- **Band Practice Facility**
Orlando, FL
University of Central Florida
4,055 sq ft—space heating,
space cooling, domestic hot
water, kitchen

- **Student Health Center Expansion**
Orlando, FL
University of Central Florida
19,845 sq ft—space heating,
space cooling, domestic hot
water, kitchen



University of Central Florida—Student Health Center

- **Education Building**
Orlando, FL
University of Central Florida
121,750 sq ft—space heating,
space cooling, domestic hot
water, kitchen

- **Integrated Bioprocessing Research Laboratory (IBRL) (LEED® Silver)**
Champaign, IL
University of Illinois
48,513 sq ft—space heating,
space cooling, domestic hot
water



University of Illinois—Integrated Bioprocessing Research Laboratory (IBRL)

School, Hospital, Institution cont.

- **Main Energy Plant**
Minneapolis, MN
University of Minnesota
64,555 sq ft—space heating, space cooling, domestic hot water, process



University of Minnesota—Main Energy Plant

- **Tate Laboratory of Physics**
Minneapolis, MN
University of Minnesota
28,880 sq ft—space heating, space cooling, domestic hot water, process



University of Minnesota—Tate Laboratory of Physics

- **Patient Centered Care Learning Center**
Columbia, MO
University of Missouri
97,567 sq ft—space heating, space cooling, humidification



University of Missouri—Patient Centered Care Learning Center

- **STEM Building Phase One (of Two)**
Burlington, VT
University of Vermont
117,690 sq ft—space heating, space cooling



University of Vermont—STEM Building Phase One

- **Central Campus Residence Hall East and West**
Burlington, VT
University of Vermont
210,904 sq ft—space heating, space cooling, kitchen



University of Vermont—Central Campus Residence Hall East and West

- **Central Chiller Plant Expansion**
Burlington, VT
University of Vermont
7,293 sq ft—space heating, space cooling, refrigeration



University of Vermont—Central Chiller Plant Expansion (courtesy J. Michael Worthington, Jr. Photography)

- **Dillard and Gooch Dormitories**
Charlottesville, VA
University of Virginia
135,669 sq ft—space cooling



University of Virginia—Dillard and Gooch Dormitories

- **Sprigg Lane Dormitories**
Charlottesville, VA
University of Virginia
61,151 sq ft—space cooling

- **Educational Resource Center**
Charlottesville, VA
University of Virginia
59,472 sq ft—space heating, space cooling, domestic hot water



University of Virginia—Educational Resource Center

- **Hotel B Washington Hall**
Charlottesville, VA
University of Virginia
3,140 sq ft—space heating



University of Virginia—Hotel B Washington Hall

- **Newcomb Road Chiller Plant**
Charlottesville, VA
University of Virginia
8,345 sq ft—space heating



University of Virginia—Newcomb Road Chiller Plant

Other

- **Office Building**
Toronto, ON, Canada
Enwave Energy Corporation
372,000 sq ft—space cooling
- **Cain Parking Garage**
College Station, TX
Texas A&M University
498,425 sq ft—electricity

Commercial—Mixed Use

- **Darwish Bin Ahmed & Sons Company LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
135,202 sq ft—space cooling



Emicool—Darwish Bin Ahmed & Sons Company LLC

- **Al Tawfeeq for Development LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
289,013 sq ft—space cooling



Emicool—Al Tawfeeq for Development LLC

- **Ahmad Suhail Butij Mohammad**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
86,928 sq ft—space cooling

- **Kai Tak Cruise Terminal**
Hong Kong, China
Hong Kong District Cooling Ltd
2,003,760 sq ft—space cooling



Hong Kong District Cooling Ltd—Kai Tak Cruise Terminal

Commercial—Office

- **Schon Investments Limited**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
638,395 sq ft—space cooling



Emicool—Schon Investments Limited

- **Innovation Hub**
Dubai, UAE
Empower- Emirates Central Cooling Systems Corporation
2,634,450 sq ft—space cooling



Empower—Innovation Hub

- **Additional Building at Tecom Site A**
Dubai, UAE
Empower—Emirates Central Cooling Systems Corporation
297,500 sq ft—space cooling

- **Additional Building at DIFC**
Dubai, UAE
Empower—Emirates Central Cooling Systems Corporation
351,750 sq ft—space cooling

- **Al Asmakh Tower**
Doha, Qatar
Qatar Cool
283,631 sq ft—space cooling



Qatar Cool—Al Asmakh Tower

Commercial—Retail/Manufacturing

- **UniGulf Air-Conditioning Industries LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
10,624 sq ft—space cooling



Emicool—UniGulf Air-Conditioning Industries LLC

- **Voltrans Transportation Systems**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
42,905 sq ft—space cooling

- **Abdulahim Ahmad Abdullah**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
454,408 sq ft—space cooling

- **Reliance Impex General Trading LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
3,540 sq ft—space cooling

- **Ching Long Shopping Centre**
Hong Kong, China
Hong Kong District Cooling Co Ltd
100,188 sq ft—space cooling



Hong Kong District Cooling Co Ltd—Ching Long Shopping Centre

Commercial—Other

- **Leader Sport Trading**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
81,776 sq ft—space cooling
- **Emirates Flight Catering Co. LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
41,222 sq ft—space cooling

- **Ummsaid Bakery Dubai Branch**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
24,789 sq ft—space cooling

- **Advanced Laundry LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
25,315 sq ft—space cooling

- **Uniestate Properties LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
98,813 sq ft—space cooling

- **Zabeel Catering Services LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
17,108—space cooling

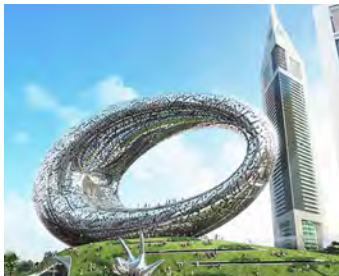
- **Kai Tak MTR Station**
Hong Kong District Cooling Co Ltd
272,250 sq ft—space cooling



Hong Kong District Cooling Co Ltd—Kai Tak MTR Station

Entertainment, Cultural or Sporting Center

- **Museum of the Future**
Dubai, UAE
Empower—Emirates Central Cooling Systems Corporation
860,650 sq ft—space cooling



Empower—Museum of the Future

Government

- **Islamic Affairs & Charitable Activities Department**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
7,482 sq ft—space cooling



Emirates District Cooling (Emicool) LLC—
Islamic Affairs & Charitable Activities
Department

- **Islamic Affairs & Charitable Activities Department**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
7,504 sq ft—space cooling

- **Islamic Affairs & Charitable Activities Department**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
14,989 sq ft—space cooling

- **Trade and Industry Tower (HKGBC BEAM Plus Platinum [provisional] and LEED® Platinum)**
Hong Kong, China
Hong Kong District Cooling Co Ltd
715,800 sq ft—space cooling



Hong Kong District Cooling Co Ltd—Trade and Industry Tower

- **Electrical and Mechanical Services Department Headquarters, HKSAR Government**
Hong Kong, China
Hong Kong District Cooling Co Ltd
882,090 sq ft—space cooling



Hong Kong District Cooling Co Ltd—Electrical and Mechanical Services Department Headquarters, HKSAR Government

Hotel

- **Plaza Rayhaan Tower**
Doha, Qatar
Qatar Cool
417,127 sq ft—space cooling

Residential

- **Sol Star Trading FZCO**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
121,113 sq ft—space cooling
- **Saleh Bin Lahej Real Estate**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
101,721 sq ft—space cooling



Emicool—Saleh Bin Lahej Real Estate

- **Royal Centurion Real Estate Dev. LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
233,414 sq ft—space cooling



Emicool—Royal Centurion Real Estate Dev. LLC

- **Properties Investments LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
741,189 sq ft—space cooling



Emicool—Properties Investments LLC

- **M.E. Development LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
247,097 sq ft—space cooling

- **Taif Al Madina Contracting LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
119,139 sq ft—space cooling

- **Range 3 Investments Ltd.**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
460,480 sq ft—space cooling



Emicool—Range 3 Investments Ltd.

- **National Properties**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
245,686 sq ft—space cooling



Emicool—National Properties

- **Jumeirah Village Triangle**
Dubai, UAE
Empower—Emirates Central Cooling Systems Corporation
297,500 sq ft—space cooling



Empower—Jumeirah Village Triangle Master Plan

- **Additional Building at Dubitech**
Dubai, UAE
Empower—Emirates Central Cooling Systems Corporation
1,772,050 sq ft—space cooling

- **Additional Building at Dubai Land Residence Complex**
Dubai, UAE
Empower—Emirates Central Cooling Systems Corporation
3,651,200 sq ft—space cooling

- **Additional Building at JBR—One JBR**
Dubai, UAE
Empower—Emirates Central Cooling Systems Corporation
297,500 sq ft—space cooling



Empower—One JBR

Residential cont.

- **Additional Building at Jumeirah Lake Tower**
Dubai, UAE
Empower—Emirates Central Cooling Systems Corporation
3,953,950 sq ft—space cooling

- **Additional Building at Palm Jumeirah Crescent**
Dubai, UAE
Empower—Emirates Central Cooling Systems Corporation
175,000 sq ft—space cooling



Empower—Palm Jumeirah Crescent

- **Additional Building at Palm Jumeirah Trunk**
Dubai, UAE
Empower—Emirates Central Cooling Systems Corporation
185,000 sq ft—space cooling



Empower—Palm Jumeirah Trunk

- **Additional Building at Sheikh Zayed Road—Aykon Towers**
Dubai, UAE
Empower—Emirates Central Cooling Systems Corporation
4,326,700 sq ft—space cooling



Empower—Aykon Damac Tower

- **Additional Building at Tecom Site C**
Dubai, UAE
Empower—Emirates Central Cooling Systems Corporation
687,750 sq ft—space cooling

- **Al Nour Tower**
Doha, Qatar
Qatar Cool
275,558 sq feet—space cooling



Qatar Cool—Al Nour Tower

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



Qatar Cool—Al Thuraya Tower

- **Parcel 10B**
Doha, Qatar
Qatar Cool
423,714 sq feet—space cooling



Qatar Cool—Parcel 10B

- **Parcel 14B**
Doha, Qatar
Qatar Cool
426,620 sq feet—space cooling



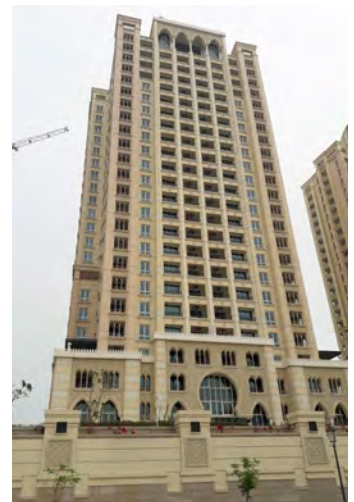
Qatar Cool—Parcel 14B

- **Parcel 16A**
Doha, Qatar
Qatar Cool
423,380 sq feet—space cooling



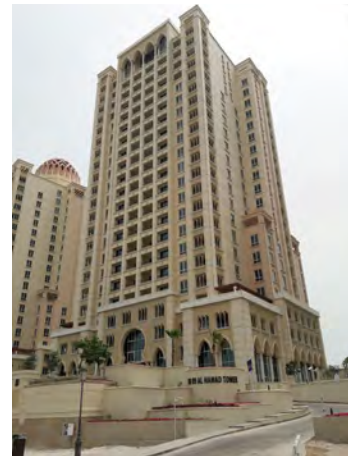
Qatar Cool—Parcel 16A

- **Viva Bahriya-07**
Doha, Qatar
Qatar Cool
339,830 sq feet—space cooling



Qatar Cool—Viva Bahriya-07

- **Viva Bahriya-09**
Doha, Qatar
Qatar Cool
317,904 sq feet—space cooling



Qatar Cool—Viva Bahriya-09

- **La Plage Villa West**
Doha, Qatar
Qatar Cool
16,598 sq feet—space cooling



Qatar Cool—La Plage Villa West-39

Residential cont.

- **Qatar Cool—La Plage Villa West-40**
La Plage Villa Centrale
Doha, Qatar
Qatar Cool
43,874 sq feet—space cooling



Qatar Cool—La Plage Villa Centrale 10



Qatar Cool—La Plage Villa Centrale 11



Qatar Cool—La Plage Villa Centrale 16



Qatar Cool—La Plage Villa Centrale 18



Qatar Cool—La Plage Villa Centrale 36



Qatar Cool—La Plage Villa Centrale 37

- **La Plage Villa East**
Doha, Qatar
Qatar Cool
15,134 sq feet—space cooling



Qatar Cool—La Plage Villa East 10



Qatar Cool—La Plage Villa East 17

- **Bahri Villa North**
Doha, Qatar
Qatar Cool
32,038 sq feet—space cooling



Qatar Cool—Bahri Villa North 24



Qatar Cool—Bahri Villa North 37



Qatar Cool—Bahri Villa North 40



Qatar Cool—Bahri Villa North 55-60

- **Bahri Villa South**
Doha, Qatar
Qatar Cool
8,138 sq feet—space cooling



Qatar Cool—Bahri Villa South 43

- **Viva Bahriya-12**
Doha, Qatar
Qatar Cool
242,696 sq feet—space cooling

- **Viva Bahriya-13**
Doha, Qatar
Qatar Cool
242,696 sq feet—space cooling

- **Viva Bahriya-14**
Doha, Qatar
Qatar Cool
227,508 sq feet—space cooling

- **Viva Bahriya-15**
Doha, Qatar
Qatar Cool
228,584 sq feet—space cooling

- **Abraj Quartier-07**
Doha, Qatar
Qatar Cool
567,037 sq feet—space cooling

- **Fanar Fayrouz-12**
Doha, Qatar
Qatar Cool
11,659 sq feet—space cooling

School, Hospital, Institution

- **Emirates REIT (CEIC) Limited**
Dubai, UAE
Emirates District Cooling
(Emicool) LLC
140,209 sq ft—space cooling

- **Rami Mohammed / Read Mohd**
Dubai, UAE
Emirates District Cooling
(Emicool) LLC
24,518 sq ft—space cooling



Emicool—Rami Mohammed / Read Mohd

- **P.L.K. Stanley Ho Sau Nan Primary School**
Hong Kong, China
Hong Kong District Cooling Ltd
121,431 sq ft—space cooling



Hong Kong District Cooling Ltd—P.L.K. Stanley Ho Sau Nan Primary School

- **SKH Holy Cross Primary School**
Hong Kong, China
Hong Kong District Cooling Ltd
121,431 sq ft—space cooling



Hong Kong District Cooling Ltd—SKH Holy Cross Primary School

School, Hospital, Institution cont.

- **Hong Kong Children's Hospital**
Hong Kong, China
Hong Kong District Cooling Ltd
1,796,850 sq ft—space cooling



Hong Kong District Cooling Ltd—Hong Kong Children's Hospital (photo courtesy Wikipedia user Prosperity Horizons [CC BY-SA 4.0 license]).

Other (Labor Accommodations)

- **Hot Pack Packaging Industries**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
36,568 sq ft—space cooling



Emicool—Hot Pack Packaging Industries

- **Loyal Building Contracting**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
29,569 sq ft—space cooling
- **Group of Companies & Elect. of Abdulgalil**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
49,349 sq ft—space cooling

- **Apparel LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
55,514 sq ft—space cooling
- **Blue Rhine Gen. Trading LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
39,634 sq ft—space cooling
- **Ahmad Hamad Ahmad Binsanad**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
68,330 sq ft—space cooling
- **Integrated Tubulars & Oilfield Supplies FZCO**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
79,384 sq ft—space cooling

- **Al Wali Trading Co. LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
39,489 sq ft—space cooling
- **Zest Interior Decoration LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
42,959 sq ft—space cooling
- **Al Avon Contracting LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
42,997 sq ft—space cooling

- **Pioneer Star Cleaning Services LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
40,565 sq ft—space cooling
- **Sol Fire Trading FZCO**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
70,006 sq ft—space cooling

- **Shaika Hessa Maktoum Juma Al Maktoum**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
76,003 sq ft—space cooling

- **Al Itihad Air Ducts Pipes Fab LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
106,469 sq ft—space cooling

- **Terrazo Dubai Co. LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
81,143 sq ft—space cooling

- **Royal Mega Interior Decoration**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
79,215 sq ft—space cooling

- **North Ocean Contracting LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
41,114 sq ft—space cooling

- **Galadari Investments LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
47,327 sq ft—space cooling

- **Al Marfa Pearl for Development & Investment LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
107,116 sq ft—space cooling

- **Khaled Mohammad Ali**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
105,303 sq ft—space cooling

- **JS Lootah Properties LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
57,332 sq ft—space cooling

- **Voltrans Transportation Systems**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
55,825 sq ft—space cooling

- **Wonder Bus Tours LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
80,031 sq ft—space cooling

- **China State Construction Engineering**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
62,105 sq ft—space cooling

- **Raphael Khat Middle East FZ LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
53,889 sq ft—space cooling

- **Al Rakla General Contracting LLC**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
24,512 sq ft—space cooling

- **Mr. Jasem Mohammad Yousuf**
Dubai, UAE
Emirates District Cooling (Emicool) LLC
76,392 sq ft—space cooling

Plan to submit your calendar 2018 growth data.

Make plans now to photograph and enter your customer buildings that commit or recommit for your district energy service during 2018!

The deadline for submittal of system growth data for calendar 2018 is Fri., April 5, 2019.

Continuing our tradition, during the IDEA 110th Annual Conference in Pittsburgh, Pennsylvania, June 24-27, 2019, IDEA will congratulate and present awards to those systems reporting the largest growth for calendar 2018 for both North America and Beyond North America. We look forward to seeing you there!

To enter data for newly committed, recommitted or connected customers for calendar 2018, please download and complete the appropriate **North America** or **Beyond North America** Excel® template found at:

- **Submission Form – North America**
<https://tinyurl.com/2018-DESpace-NA>
- **Submission Form – Beyond North America**
<https://tinyurl.com/2018-DESpace-BNA>

Please use the form as provided and fill in all appropriate cells to facilitate our compilation of the data.

Submit the final document to Len Phillips at len.idea@districtenergy.org. We encourage you to send as many building photographs as possible, and label them clearly with your company name and identifying title such as: “My Organization Name-Smith Office Building”.

For more information and to access past issues of *District Energy Space*, visit: <https://www.districtenergy.org/resources/publications/district-energy-space>



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