

# **District Cooling Market by Production Technique (Free Cooling, Absorption Cooling, Electric chillers), Application (Commercial, Residential, and Industrial) and Region (North America, Europe, APAC, MEA, South America) - Global Forecast to 2026**

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## **Abstracts**

The global district cooling market is projected to reach USD 1,177 million by 2026 from an estimated market size of USD 931 million in 2021, at a CAGR of 3.4% during the forecast period. The district cooling market is primarily driven by the Surging need for efficient cooling in regions with hot climates. Rapid urbanization will put tremendous pressure on urban infrastructure. With the increasing number of people moving to cities, the demand for cooling residential and commercial spaces is also expected to increase in the coming years.

“The Commercial meters segment, by Application, is expected to be the fastest-growing market from 2021 to 2026”

The Application segment is categorized as commercial, residential, and industrial. The commercial district cooling market is projected to grow at a CAGR of 3.5% during the forecast period. Middle east and Africa, with a share of 73.7% in 2021, dominated the district cooling commercial market. The demand for district cooling in the commercial segment is driven by concerns regarding the impact on the environment and rising energy prices have made the use of energy-efficient district cooling systems a favorable solution for cooling in commercial spaces.

“The electric chillers segment, by Production technique, is expected to be the largest market from 2021 to 2026”

The electric chillers segment accounted for the largest share of the district cooling market, by application, in 2021. The demand for electric chillers from the production technique sector is driven by the relatively higher coefficient of performance (COP) in comparison with that of residential and commercial air conditioning units. Even Linking electric chillers with cold storage on a network helps reduce peak electricity demand for cooling in a city by shifting production to other periods of the day.

“The Middle East and Africa: The largest growing region in the district cooling market.”

The Middle East and Africa are expected to dominate the district cooling market during the forecast period due to shift in the electricity demand and supply balance in the Middle East & Africa and Asia Pacific regions have resulted in the wider use of district cooling, which has enabled utilities and developers to balance power supply and effectively manage its usage. District cooling is being promoted as a way of addressing energy shortages, energy demand, and global warming in the Middle East & Africa, and Asia Pacific

Breakdown of Primaries:

In-depth interviews have been conducted with various key industry participants, subject-matter experts, C-level executives of key market players, and industry consultants, among other experts, to obtain and verify critical qualitative and quantitative information, as well as to assess future market prospects. The distribution of primary interviews is as follows:

By Company Type: Tier 1- 45%, Tier 2- 30%, and Tier 3- 25%

By Designation: C-Level- 35%, D-Level- 25%, and Others- 40%

By Region: North America- 27%, Europe- 20%, Asia Pacific- 33%,– 4%, and South America-8%, Middle East & Africa- 12%

Note: “Others” include sales managers, engineers, and regional managers

The tiers of the companies are defined based on their total revenue as of 2019: Tier 1: >USD 1 billion, Tier 2: USD 500 million–1 billion, and Tier 3:

## Contents

### 1 INTRODUCTION

#### 1.1 STUDY OBJECTIVES

#### 1.2 DEFINITION

#### 1.3 MARKET SEGMENTATION

##### 1.3.1 BY PRODUCTION TECHNIQUE

TABLE 1 DISTRICT COOLING MARKET, BY PRODUCTION TECHNIQUE

##### 1.3.2 BY APPLICATION

TABLE 2 DISTRICT COOLING MARKET, BY APPLICATION

TABLE 3 DISTRICT COOLING MARKET, BY COMMERCIAL APPLICATION

#### 1.4 MARKET SCOPE

##### 1.4.1 MARKETS COVERED

#### 1.5 REGIONAL SCOPE

#### 1.6 YEARS CONSIDERED FOR THE STUDY

#### 1.7 CURRENCY

#### 1.8 PACKAGE SIZE

#### 1.9 STAKEHOLDERS

#### 1.10 SUMMARY OF CHANGES

### 2 RESEARCH METHODOLOGY

#### 2.1 RESEARCH DATA

FIGURE 1 DISTRICT COOLING MARKET: RESEARCH DESIGN

##### 2.1.1 SECONDARY DATA

2.1.1.1 Key data from secondary sources

##### 2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary sources

2.1.2.2 Breakdown of primaries

#### 2.2 IMPACT OF COVID-19

#### 2.3 MARKET SIZE ESTIMATION

##### 2.3.1 BOTTOM-UP APPROACH

FIGURE 2 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

##### 2.3.2 TOP-DOWN APPROACH

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

#### 2.4 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 4 DATA TRIANGULATION METHODOLOGY

##### 2.4.1 DEMAND-SIDE ANALYSIS

- 2.4.1.1 Regional analysis
- 2.4.1.2 Country analysis
- 2.4.1.3 Assumptions for demand side
- 2.4.1.4 Calculation for demand side

#### 2.4.2 SUPPLY-SIDE ANALYSIS

FIGURE 5 KEY STEPS CONSIDERED FOR ASSESSING SUPPLY OF DISTRICT COOLING SYSTEMS

FIGURE 6 DISTRICT COOLING MARKET: SUPPLY-SIDE ANALYSIS

- 2.4.2.1 Supply-side calculation
- 2.4.2.2 Assumptions for supply side

FIGURE 7 COMPANY REVENUE ANALYSIS, 2020

#### 2.4.3 FORECAST

### 3 EXECUTIVE SUMMARY

TABLE 4 SNAPSHOT OF DISTRICT COOLING MARKET

FIGURE 8 COMMERCIAL APPLICATION TO BE DOMINANT SEGMENT OF DISTRICT COOLING MARKET BY 2026

FIGURE 9 UAE TO BE DOMINANT DISTRICT COOLING MARKET IN MIDDLE EAST & AFRICA IN 2026

FIGURE 10 DEVELOPING COUNTRIES TO BE FASTEST GROWING MARKETS FOR DISTRICT COOLING BETWEEN 2021 AND 2026

FIGURE 11 MIDDLE EAST & AFRICA DOMINATED DISTRICT COOLING MARKET IN 2021

### 4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES IN DISTRICT COOLING MARKET

FIGURE 12 RISING DEMAND FOR DISTRICT COOLING IN MIDDLE EAST AND ASIA PACIFIC TO DRIVE DISTRICT COOLING MARKET FROM 2021 TO 2026

4.2 DISTRICT COOLING MARKET IN MIDDLE EAST & AFRICA, BY APPLICATION AND COUNTRY

FIGURE 13 UAE TO LEAD MIDDLE EAST DISTRICT COOLING MARKET IN 2020

4.3 DISTRICT COOLING MARKET, BY REGION

FIGURE 14 MIDDLE EAST & AFRICA TO BE FASTEST-GROWING MARKET, IN TERMS OF VALUE, BETWEEN 2021 AND 2026

4.4 DISTRICT COOLING MARKET, BY APPLICATION

FIGURE 15 COMMERCIAL SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE, IN TERMS OF VALUE, IN 2026

4.5 DISTRICT COOLING MARKET, BY PRODUCTION TECHNIQUE  
FIGURE 16 ELECTRIC CHILLERS SEGMENT TO ACCOUNT FOR LARGEST  
MARKET SHARE, IN TERMS OF VALUE, IN 2026

## **5 MARKET OVERVIEW**

### 5.1 INTRODUCTION

### 5.2 EVOLUTION OF DISTRICT COOLING

5.2.1 FIRST DISTRICT COOLING SYSTEM WAS INTRODUCED IN 1930

### 5.3 DISTRICT COOLING SYSTEMS

#### 5.3.1 COMPONENTS OF DISTRICT COOLING SYSTEMS

5.3.1.1 Central chiller plant

5.3.1.2 Distribution network

5.3.1.3 User station

#### 5.3.2 DISTRICT COOLING BENEFITS

5.3.2.1 Reduction in environmental degradation

5.3.2.2 Economy of scale

5.3.2.3 Enhanced reliability

5.3.2.4 Efficient use of energy

5.3.2.5 Reduced strain on power grid

### 5.4 FUNCTIONING OF DISTRICT COOLING SYSTEM

#### FIGURE 17 DISTRICT COOLING OPERATION CYCLE

### 5.5 DISTRICT COOLING PROJECT

#### 5.5.1 SELECTION CRITERIA FOR DISTRICT COOLING PROJECT

#### 5.5.2 PHASES IN ESTABLISHMENT OF A DISTRICT COOLING PROJECT

#### FIGURE 18 PHASES IN ESTABLISHMENT OF A DISTRICT COOLING PROJECT

5.5.2.1 Business case roadmap

5.5.2.2 Feasibility study

5.5.2.3 Project development

5.5.2.4 Project execution

5.5.2.5 Operation

### 5.6 MARKET DYNAMICS

#### FIGURE 19 DISTRICT COOLING MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

#### 5.6.1 IMPACT ANALYSIS

#### FIGURE 20 IMPACT ANALYSIS OF DRIVERS, OPPORTUNITIES, RESTRAINTS, AND CHALLENGES

#### 5.6.2 DRIVERS

5.6.2.1 Increasing global population and rapid urbanization

**FIGURE 21 URBAN POPULATION, 2018 VS. 2050**

5.6.2.2 Surging need for efficient cooling in regions with hot climate

**FIGURE 22 PERCENTAGE OF POPULATION LIVING IN HOT CLIMATES AND AIR CONDITIONER OWNERSHIP, BY REGION, 2020**

5.6.2.3 Growing investments in infrastructure projects in developing economies

**5.6.3 RESTRAINTS**

5.6.3.1 High capital cost and long payback period

5.6.3.2 Reduced effectiveness in small cooling loads and space constraints for distribution grid

**5.6.4 OPPORTUNITIES**

5.6.4.1 Rising demand for energy-efficient and sustainable cooling technologies

5.6.4.2 Use of treated sewage effluent (TSE) in district cooling system

5.6.4.2.1 Increased use of TSE in GCC countries

**5.6.5 CHALLENGES**

5.6.5.1 Difficulties faced during implementation of district cooling systems

5.6.5.1.1 Site planning and interfacing issues

5.6.5.1.2 Commercial challenges

5.6.5.1.3 Engineering challenges

5.6.5.1.4 Procurement challenges

5.6.5.1.5 Construction challenges

5.6.5.1.6 Operational challenges

5.6.5.2 Difficulty in load prediction and utilization of thermal energy storage systems

**6 INDUSTRY TRENDS****6.1 INTRODUCTION****6.2 VALUE CHAIN ANALYSIS**

**FIGURE 23 VALUE CHAIN ANALYSIS OF DISTRICT COOLING MARKET**

**6.3 PORTER'S FIVE FORCES ANALYSIS**

**TABLE 5 DISTRICT COOLING SYSTEM MARKET: PORTER'S FIVE FORCES ANALYSIS**

**FIGURE 24 PORTER'S FIVE FORCES ANALYSIS**

6.3.1 THREAT OF NEW ENTRANTS

6.3.2 THREAT OF SUBSTITUTES

6.3.3 BARGAINING POWER OF BUYERS

6.3.4 BARGAINING POWER OF SUPPLIERS

6.3.5 INTENSITY OF COMPETITIVE RIVALRY

**6.4 MACROECONOMIC INDICATORS**

#### 6.4.1 FORECAST OF GDP GROWTH RATE OF MAJOR ECONOMIES

TABLE 6 FORECAST OF GDP GROWTH RATE, BY COUNTRY, 2018–2026

#### 6.4.2 RESIDENTIAL CONSTRUCTION INDUSTRY

6.4.3 INFRASTRUCTURE ACTIVITIES IN NONRESIDENTIAL CONSTRUCTION INDUSTRY

FIGURE 25 AIR CONDITIONING UNITS IN OPERATION, BY COUNTRY, 2020 (BILLION UNITS)

### **7 DISTRICT COOLING MARKET, BY PRODUCTION TECHNIQUE**

#### 7.1 INTRODUCTION

FIGURE 26 DISTRICT COOLING MARKET, BY PRODUCTION TECHNIQUE

#### 7.2 MARKET SIZE AND PROJECTION, BY PRODUCTION TECHNIQUE

TABLE 7 DISTRICT COOLING MARKET SIZE, BY PRODUCTION TECHNIQUE, 2019–2026 (USD MILLION)

#### 7.3 FREE COOLING

##### 7.3.1 MARKET SIZE AND PROJECTION, BY REGION

TABLE 8 FREE COOLING MARKET SIZE, BY REGION, 2019–2026 (USD MILLION)

#### 7.4 ABSORPTION COOLING

##### 7.4.1 MARKET SIZE AND PROJECTION, BY REGION

TABLE 9 ABSORPTION COOLING MARKET SIZE, BY REGION, 2019–2026 (USD MILLION)

#### 7.5 ELECTRIC CHILLERS

##### 7.5.1 MARKET SIZE AND PROJECTION, BY REGION

TABLE 10 ELECTRIC CHILLERS MARKET SIZE, BY REGION, 2019–2026 (USD MILLION)

### **8 DISTRICT COOLING MARKET, BY APPLICATION**

#### 8.1 INTRODUCTION

FIGURE 27 RESIDENTIAL SEGMENT IS PROJECTED TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

#### 8.2 MARKET SIZE AND PROJECTION, BY APPLICATION

TABLE 11 DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (THOUSAND RT)

TABLE 12 DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

#### 8.3 COMMERCIAL

##### 8.3.1 MARKET SIZE AND PROJECTION, BY REGION

TABLE 13 DISTRICT COOLING MARKET SIZE IN COMMERCIAL APPLICATION, BY REGION, 2019–2026 (THOUSAND KRT)

TABLE 14 DISTRICT COOLING MARKET SIZE IN COMMERCIAL APPLICATION, BY REGION, 2019–2026 (USD MILLION)

8.3.2 HEALTHCARE

8.3.3 EDUCATION

8.3.4 GOVERNMENT

8.3.5 OFFICE

8.3.6 AIRPORT

8.3.7 RETAIL

8.4 RESIDENTIAL

8.4.1 MARKET SIZE AND PROJECTION, BY REGION

TABLE 15 DISTRICT COOLING MARKET SIZE IN RESIDENTIAL APPLICATION, BY REGION, 2019–2026 (THOUSAND KRT)

TABLE 16 DISTRICT COOLING MARKET SIZE IN RESIDENTIAL APPLICATION, BY REGION, 2019–2026 (USD MILLION)

8.5 INDUSTRIAL

8.5.1 MARKET SIZE AND PROJECTION, BY REGION

TABLE 17 DISTRICT COOLING MARKET SIZE IN INDUSTRIAL APPLICATION, BY REGION, 2019–2026 (KRT)

TABLE 18 DISTRICT COOLING MARKET SIZE IN INDUSTRIAL APPLICATION, BY REGION, 2019–2026 (USD MILLION)

## **9 GEOGRAPHIC ANALYSIS**

9.1 INTRODUCTION

FIGURE 28 DISTRICT COOLING MARKET TO REGISTER HIGHEST CAGR IN MIDDLE EAST & AFRICA DURING FORECAST PERI

9.1.1 MARKET SIZE AND PROJECTION, BY REGION

TABLE 19 DISTRICT COOLING MARKET SIZE, BY REGION, 2019–2026 (KRT)

TABLE 20 DISTRICT COOLING MARKET SIZE, BY REGION, 2019–2026 (USD MILLION)

9.2 MIDDLE EAST & AFRICA

9.2.1 INTRODUCTION

FIGURE 29 MIDDLE EAST & AFRICA MARKET SNAPSHOT: UAE TO DOMINATE MARKET BETWEEN 2019 AND 2026

9.2.2 MARKET SIZE AND PROJECTION, BY COUNTRY

TABLE 21 MIDDLE EAST & AFRICA: DISTRICT COOLING MARKET SIZE, BY COUNTRY, 2019–2026 (USD MILLION)



### 9.2.3 MARKET SIZE AND PROJECTION, BY APPLICATION AND BY PRODUCTION TECHNIQUE

TABLE 22 MIDDLE EAST & AFRICA: DISTRICT COOLING MARKET SIZE, BY PRODUCTION TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 23 MIDDLE EAST & AFRICA: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 24 MIDDLE EAST & AFRICA: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (KRT)

TABLE 25 MIDDLE EAST & AFRICA: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (KRT)

#### 9.2.4 SAUDI ARABIA

9.2.4.1 Market size and projection, by application

TABLE 26 SAUDI ARABIA: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 27 SAUDI ARABIA: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.2.5 UAE

9.2.5.1 Market size and projection, by application

TABLE 28 UAE: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 29 UAE: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.2.6 QATAR

9.2.6.1 Market size and projection, by application

TABLE 30 QATAR: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 31 QATAR: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.2.7 BAHRAIN

9.2.7.1 Market size and projection, by application

TABLE 32 BAHRAIN: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 33 BAHRAIN: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.2.8 OMAN

9.2.8.1 Market size and projection, by application

TABLE 34 OMAN: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 35 OMAN: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL

**APPLICATION, 2019–2026 (USD MILLION)****9.2.9 KUWAIT**

## 9.2.9.1 Market size and projection, by application

**TABLE 36 KUWAIT: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)****TABLE 37 KUWAIT: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)****9.2.10 EGYPT**

## 9.2.10.1 Market size and projection, by application

**TABLE 38 EGYPT: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)****TABLE 39 EGYPT: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)****9.2.11 REST OF MIDDLE EAST & AFRICA**

## 9.2.11.1 Market size and projection, by application

**TABLE 40 REST OF MIDDLE EAST & AFRICA: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)****TABLE 41 REST OF MIDDLE EAST & AFRICA: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)****9.3 ASIA PACIFIC****9.3.1 INTRODUCTION****FIGURE 30 ASIA PACIFIC MARKET SNAPSHOT: CHINA ACCOUNTED FOR LARGEST SHARE****9.3.2 MARKET SIZE AND PROJECTION, BY COUNTRY****TABLE 42 ASIA PACIFIC: DISTRICT COOLING MARKET SIZE, BY COUNTRY, 2019–2026 (USD MILLION)****9.3.3 MARKET SIZE AND PROJECTION, BY APPLICATION AND BY PRODUCTION TECHNIQUE****TABLE 43 ASIA PACIFIC: DISTRICT COOLING MARKET SIZE, BY PRODUCTION TECHNIQUE, 2019–2026 (USD MILLION)****TABLE 44 ASIA PACIFIC: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)****TABLE 45 ASIA PACIFIC: DISTRICT COOLING MARKET SIZE, BY APPLICATION****2019–2026 (KRT)****TABLE 46 ASIA PACIFIC: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (KRT)****9.3.4 CHINA**

#### 9.3.4.1 Market size and projection, by application

TABLE 47 CHINA: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 48 CHINA: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.3.5 JAPAN

TABLE 49 JAPAN: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 50 JAPAN: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.3.6 SOUTH KOREA

TABLE 51 SOUTH KOREA: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 52 SOUTH KOREA: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.3.7 SINGAPORE

TABLE 53 SINGAPORE: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 54 SINGAPORE: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.3.8 MALAYSIA

TABLE 55 MALAYSIA: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 56 MALAYSIA: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.3.9 REST OF ASIA PACIFIC

TABLE 57 REST OF ASIA PACIFIC: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 58 REST OF ASIA PACIFIC: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

### 9.4 NORTH AMERICA

#### 9.4.1 INTRODUCTION

FIGURE 31 NORTH AMERICA MARKET SNAPSHOT: US COMMANDS LARGEST SHARE

#### 9.4.2 MARKET SIZE AND PROJECTION, BY COUNTRY

TABLE 59 NORTH AMERICA: DISTRICT COOLING MARKET SIZE, BY COUNTRY, 2019–2026 (USD MILLION)

9.4.3 MARKET SIZE AND PROJECTION, BY APPLICATION AND BY PRODUCTION TECHNIQUE

TABLE 60 NORTH AMERICA: DISTRICT COOLING MARKET SIZE, BY PRODUCTION TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 61 NORTH AMERICA: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 62 NORTH AMERICA: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (KRT)

TABLE 63 NORTH AMERICA: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (KRT)

#### 9.4.4 US

9.4.4.1 Market size and projection, by application

TABLE 64 US: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 65 US: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.4.5 CANADA

9.4.5.1 Market size and projection, by application

TABLE 66 CANADA: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 67 CANADA: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

### 9.5 EUROPE

#### 9.5.1 INTRODUCTION

FIGURE 32 EUROPE MARKET SNAPSHOT: SWEDEN TO LEAD DISTRICT COOLING MARKET DURING FORECAST PERIOD

#### 9.5.2 MARKET SIZE AND PROJECTION, BY COUNTRY

TABLE 68 EUROPE: DISTRICT COOLING MARKET SIZE, BY COUNTRY, 2019–2026 (USD MILLION)

9.5.3 MARKET SIZE AND PROJECTION, BY APPLICATION AND BY PRODUCTION TECHNIQUE

TABLE 69 EUROPE: DISTRICT COOLING MARKET SIZE, BY PRODUCTION TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 70 EUROPE: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 71 EUROPE: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (KRT)

TABLE 72 EUROPE: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (KRT)

#### 9.5.4 SWEDEN

9.5.4.1 Market size and projection, by application

TABLE 73 SWEDEN: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 74 SWEDEN: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.5.5 FRANCE

TABLE 75 FRANCE: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 76 FRANCE: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.5.6 GERMANY

9.5.6.1 Market size and projection, by application

TABLE 77 GERMANY: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 78 GERMANY: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.5.7 FINLAND

9.5.7.1 Market size and projection, by application

TABLE 79 FINLAND: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 80 FINLAND: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.5.8 NORWAY

9.5.8.1 Market size and projection, by application

TABLE 81 NORWAY: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 82 NORWAY: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.5.9 ITALY

9.5.9.1 Market size and projection, by application

TABLE 83 ITALY: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 84 ITALY: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

#### 9.5.10 REST OF EUROPE

TABLE 85 REST OF EUROPE: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 86 REST OF EUROPE: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

### 9.6 SOUTH AMERICA

### 9.6.1 INTRODUCTION

#### 9.6.2 MARKET SIZE AND PROJECTION, BY COUNTRY

TABLE 87 SOUTH AMERICA: DISTRICT COOLING MARKET SIZE, BY COUNTRY, 2019–2026 (USD MILLION)

#### 9.6.3 MARKET SIZE AND PROJECTION, BY APPLICATION AND BY PRODUCTION TECHNIQUE

TABLE 88 SOUTH AMERICA: DISTRICT COOLING MARKET SIZE, BY PRODUCTION TECHNIQUE, 2019–2026 (USD MILLION)

TABLE 89 SOUTH AMERICA: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 90 SOUTH AMERICA: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (KRT)

TABLE 91 SOUTH AMERICA: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (KRT)

### 9.6.4 BRAZIL

#### 9.6.4.1 Market size and projection, by application

TABLE 92 BRAZIL: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 93 BRAZIL: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

### 9.6.5 ARGENTINA

#### 9.6.5.1 Market size and projection, by application

TABLE 94 ARGENTINA: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 95 ARGENTINA: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

### 9.6.6 REST OF SOUTH AMERICA

#### 9.6.6.1 Market size and projection, by application

TABLE 96 REST OF SOUTH AMERICA: DISTRICT COOLING MARKET SIZE, BY APPLICATION, 2019–2026 (USD MILLION)

TABLE 97 REST OF SOUTH AMERICA: DISTRICT COOLING MARKET SIZE, BY COMMERCIAL APPLICATION, 2019–2026 (USD MILLION)

## 10 COMPETITIVE LANDSCAPE

### 10.1 KEY PLAYER STRATEGIES/RIGHT TO WIN

TABLE 98 OVERVIEW OF STRATEGIES ADOPTED BY TOP PLAYERS, JANUARY 2017–MARCH 2021

### 10.2 MARKET SHARE ANALYSIS

TABLE 99 DISTRICT COOLING MARKET: DEGREE OF COMPETITION

FIGURE 33 LEADING PLAYERS IN DISTRICT COOLING MARKET

10.3 MARKET EVALUATION FRAMEWORK

TABLE 100 MARKET EVALUATION FRAMEWORK

10.4 COMPETITIVE SCENARIO

TABLE 101 DISTRICT COOLING MARKET: PRODUCT LAUNCHES, JANUARY 2017–  
AUGUST 2021

TABLE 102 DISTRICT COOLING MARKET: DEALS, JUNE 2017–AUGUST 2021

TABLE 103 DISTRICT COOLING MARKET: OTHERS, JULY 2017–JUNE 2021

10.5 COMPANY EVALUATION QUADRANT

10.5.1 STAR

10.5.2 EMERGING LEADER

10.5.3 PERVASIVE

10.5.4 PARTICIPANT

FIGURE 34 COMPANY EVALUATION QUADRANT: DISTRICT COOLING MARKET,  
2020

10.5.5 COMPETITIVE BENCHMARKING

TABLE 104 COMPANY PRODUCT FOOTPRINT

TABLE 105 COMPANY PRODUCTION TECHNIQUE FOOTPRINT

TABLE 106 COMPANY APPLICATION FOOTPRINT

TABLE 107 COMPANY REGIONAL FOOTPRINT

## **11 COMPANY PROFILES**

### **11.1 MAJOR PLAYERS**

(Business overview, District cooling projects, Recent Developments, Emirates central cooling system corporation (empower): Emirates central cooling systems: others, deals, MNM view)\*

11.1.1 EMIRATES CENTRAL COOLING SYSTEM CORPORATION (EMPOWER)

TABLE 108 EMPOWER: BUSINESS OVERVIEW

TABLE 109 EMIRATES CENTRAL COOLING SYSTEM CORPORATION (EMPOWER):  
DISTRICT COOLING PROJECTS (CURRENT)

TABLE 110 EMIRATES CENTRAL COOLING SYSTEM CORPORATION (EMPOWER):  
DISTRICT COOLING PROJECTS (IN PIPELINE)

TABLE 111 EMIRATES CENTRAL COOLING SYSTEM CORPORATION (EMPOWER):  
PRODUCT LAUNCHES

11.1.2 NATIONAL CENTRAL COOLING COMPANY PJSC (TABREED)

TABLE 112 TABREED: BUSINESS OVERVIEW

FIGURE 35 NATIONAL CENTRAL COOLING COMPANY PJSC (TABREED):

## COMPANY SNAPSHOT

TABLE 113 NATIONAL CENTRAL COOLING COMPANY PJSC (TABREED):  
DISTRICT COOLING PROJECTS (CURRENT)

TABLE 114 NATIONAL CENTRAL COOLING COMPANY PJSC (TABREED):  
PRODUCT LAUNCHES

TABLE 115 NATIONAL CENTRAL COOLING COMPANY PJSC (TABREED): DEALS  
11.1.3 EMIRATES DISTRICT COOLING (EMICOOL), LLC

TABLE 116 EMIRATES DISTRICT COOLING (EMICOOL), LLC: BUSINESS  
OVERVIEW

TABLE 117 EMIRATES DISTRICT COOLING (EMICOOL), LLC: DISTRICT COOLING  
PROJECTS (CURRENT)

TABLE 118 EMIRATES DISTRICT COOLING (EMICOOL), LLC: DEALS  
11.1.4 EMIRATES DISTRICT COOLING (EMICOOL), LLC: OTHERS

11.1.5 SHINRYO CORPORATION

TABLE 119 SHINRYO CORPORATION: BUSINESS OVERVIEW

TABLE 120 SHINRYO CORPORATION: DISTRICT COOLING PROJECTS

TABLE 121 SHINRYO CORPORATION: DEALS

11.1.6 ADC ENERGY SYSTEMS LLC

TABLE 122 ADC ENERGY SYSTEMS LLC: BUSINESS OVERVIEW

TABLE 123 ADC ENERGY SYSTEMS LLC: DISTRICT COOLING PROJECTS

11.1.7 KEPPEL DHCS PTE LTD

TABLE 124 KEPPEL DHCS PTE LTD: BUSINESS OVERVIEW

FIGURE 36 KEPPEL DHCS PTE LTD.: COMPANY SNAPSHOT

TABLE 125 KEPPEL DHCS PTE LTD.: DISTRICT COOLING PROJECTS

TABLE 126 KEPPEL DHCS PTE: OTHERS

11.1.8 LOGSTOR A/S

TABLE 127 LOGSTOR A/S: BUSINESS OVERVIEW

FIGURE 37 LOGSTOR A/S: COMPANY SNAPSHOT

TABLE 128 LOGSTOR A/S: DISTRICT COOLING PROJECTS (CURRENT)

TABLE 129 LOGSTOR A/S: DISTRICT COOLING PIPE NETWORK

TABLE 130 LOGSTOR A/S: DISTRICT COOLING PRODUCTS

TABLE 131 LOGSTOR A/S: DEALS

11.1.9 RAMBOLL GROUP A/S

TABLE 132 RAMBOLL GROUP A/S: BUSINESS OVERVIEW

FIGURE 38 RAMBOLL GROUP A/S: COMPANY SNAPSHOT

TABLE 133 RAMBOLL GROUP A/S: DISTRICT COOLING PROJECTS

TABLE 134 CONSULTING SERVICES

TABLE 135 RAMBOLL GROUP A/S: OTHERS

11.1.10 SIEMENS AG



TABLE 136 SIEMENS AG: BUSINESS OVERVIEW

FIGURE 39 SIEMENS AG: COMPANY SNAPSHOT

11.1.11 STELLAR ENERGY

TABLE 137 STELLAR ENERGY: BUSINESS OVERVIEW

TABLE 138 STELLAR ENERGY: DISTRICT COOLING PROJECTS

11.1.12 DISTRICT COOLING COMPANY (DCC) LLC

TABLE 139 DISTRICT COOLING COMPANY (DCC) LLC: BUSINESS OVERVIEW

11.1.13 DANFOSS A/S

TABLE 140 DANFOSS A/S: BUSINESS OVERVIEW

FIGURE 40 DANFOSS A/S: COMPANY SNAPSHOT

11.1.14 VEOLIA ENVIRONMENT S.A

TABLE 141 VEOLIA ENVIRONMENT S.A: BUSINESS OVERVIEW

FIGURE 41 VEOLIA ENVIRONMENT S.A: COMPANY SNAPSHOT

11.1.15 SNC-LAVALIN

TABLE 142 SNC-LAVALIN: BUSINESS OVERVIEW

FIGURE 42 SNC-LAVALIN: COMPANY SNAPSHOT

TABLE 143 SNC-LAVALIN: DEALS

11.1.16 FORTUM

TABLE 144 FORTUM: BUSINESS OVERVIEW

FIGURE 43 FORTUM: COMPANY SNAPSHOT

11.2 OTHER PLAYERS

11.2.1 PAL COOLING HOLDING (PCH)

TABLE 145 PAL COOLING HOLDING: BUSINESS OVERVIEW

11.2.2 QATAR DISTRICT COOLING COMPANY (QATAR COOL)

TABLE 146 QATAR DISTRICT COOLING COMPANY (QATAR COOL): BUSINESS OVERVIEW

11.2.3 DC PRO ENGINEERING

TABLE 147 DC PRO ENGINEERING: BUSINESS OVERVIEW

11.2.4 MARAFEQ QATAR

TABLE 148 MARAFEQ QATAR: BUSINESS OVERVIEW

11.2.5 GAS DISTRICT COOLING (M) SDN BHD

TABLE 149 GAS DISTRICT COOLING (M) SDN BHD: BUSINESS OVERVIEW

\*Details on Business overview, District cooling projects, Recent Developments, Emirates central cooling system corporation (empower): Emirates central cooling systems: others, deals, MNM view might not be captured in case of unlisted companies.

## 12 APPENDIX

### 12.1 INSIGHTS OF INDUSTRY EXPERTS

12.2 DISCUSSION GUIDE

12.3 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

12.4 AVAILABLE CUSTOMIZATIONS

12.5 RELATED REPORTS

12.6 AUTHOR DETAILS

## About

The report "District Cooling Market by Production Technique (Free Cooling, Absorption Cooling, Electric Chillers), Application (Commercial, Residential & Institutional), Region - Global Forecast to 2021", The market for district cooling is projected to grow from USD 5.14 Billion in 2016 to USD 9.54 Billion by 2021, at a CAGR of 13.19% from 2016 to 2021.

**The various companies supplying district cooling and related products are as follows:**

Emirates Central Cooling System Corporation (UAE)

National Central Cooling Company PJSC (UAE)

Emirates District Cooling LLC (UAE)

Shinryo Corporation (Japan)

ADC Energy Systems LLC (UAE)

Keppel DCHS PTE LTD (Singapore)

LOGSTOTR A/S (Denmark)

Ramboll Group A/S (Denmark)

SIEMENS AG (Germany)

Stellar Energy (U.S.)

District Cooling Company LLC (UAE) among others.

These companies are adopting strategies such as expansions, contracts, and acquisitions to strengthen their market position, increase their production capacity, and widen their customer base. For instance, acquisition of Palm Utilities and Palm District Cooling by Emirates Central Cooling Systems Corporation, the largest acquisition in the

district cooling industry.

This report segments the market for district cooling into production technique, application, and region, and provides the estimations for the overall value of the market and the subsegments across various regions. A detailed analysis of the key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, expansions, contracts & agreements, mergers & acquisitions, partnerships, agreements, joint ventures, and recent developments associated with the market for district cooling.

### **Breakdown of primaries:**

Primary interviews were conducted with a number of industry experts in order to collect data related to different aspects of district cooling market. The distribution of primary interviews is as follows:

By Company: Tier 1 - 54%, Tier 2 - 33%, and Tier 3 - 13%

By Designation: Director level - 40%, C level - 47%, and Others - 13%

By Region: Middle East & Africa- 33%, North America – 25%, Europe- 17%, and Latin America - 8%

Emirates Central Cooling Systems Corporation (Empower), the leading district cooling company, adopted various strategies such as contracts & agreements and expansions to increase its production capacity. For instance, in January 2014, EMPOWER acquired Palm Utilities (Dubai, UAE) worth USD 500 million which enabled it to increase its production capacity and strengthen its market presence. . The company also underwent strategic expansions, by expanding its production capacities in Business Bay (Dubai, UAE). The company is strengthening its market, hold, and brand portfolio across UAE and is also expanding its operations to other nations such as the GCC countries.

National Central Cooling Company PJSC (Tabreed) is expanding its production capacity in GCC countries. The company is currently deepening its roots in GCC countries to exploit the potential of the district cooling market. For instance, National Central Cooling Company PJSC (Tabreed) signed a contract with Qatar Cool for the construction of a fourth district cooling plant in the State of Qatar in May 2014. This contract enable the company to expand its market and strengthen its foothold in GCC. In the coming years,

the company plans to expand its reach to other geographies with its experienced business units and rich brand portfolio.

### **The absorption cooling segment to be the fastest growing production technique in the district cooling market**

The absorption cooling segment is estimated to be the most widely used production technique for meeting cooling demand as it utilizes waste energy. The absorption cooling segment accounted for the largest share in 2015 and is projected to grow at the highest rate during the forecast period. Absorption cooling is an environment-friendly means of cooling. It helps reduce the use of electrically driven cooling in the energy system and also reduces carbon dioxide emissions.

### **The commercial segment to account for the largest share of the district cooling market**

The commercial segment accounted for the largest market share in 2015, owing to increasing demand for energy efficient cooling technologies for commercial buildings. Concerns over impact on the environment and rising energy prices has made the use of energy-efficient district cooling system a favorable solution for cooling in commercial spaces.

### **The Middle East & Africa region to play a key role in the growth of the market for district cooling**

On the basis of region, the district cooling market is segmented into the Americas, Europe, Asia-Pacific, and the Middle East & Africa. The Middle East & Africa is a key market for district cooling. Development in the economies and the investment on infrastructure projects in this region have led to the high growth of this market. Growing affluent population, hot weather, and climate change concerns are some of the factors driving the district cooling market in the region.

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