

Synchronous Condenser Market by Cooling Type (Hydrogen-Cooled, Air-Cooled, Water-Cooled), Type (New & Refurbished), Starting Method (Static Frequency Converter, Pony Motor), End-User, Reactive Power Rating and Region - Global Forecast to 2030

<https://marketpublishers.com/r/S3DE7A69F63EN.html>

Date: July 2022

Pages: 226

Price: US\$ 4,950.00 (Single User License)

ID: S3DE7A69F63EN

Abstracts

The global synchronous condenser market is projected to grow from USD 661 million in 2022 to USD 811 million by 2030, registering a CAGR of 2.6% during the review period. The developments in the power transmission and distribution networks to maintain grid operations and the increasing investments in expanding the renewable energy capacities are the key factors driving the growth of the synchronous condenser market.

“New Synchronous Condenser: is expected to be the largest segment synchronous condenser market, by type“

The type segment is categorized as New Synchronous Condenser and refurbished synchronous condenser. A new synchronous condenser is constructed with 2 or 4 poles (2-pole pair), which can be cooled with hydrogen, air, and water. With the globally expanding HVDC network, countries such as Canada, Brazil, and Italy have deployed new synchronous condensers for stabilizing and improving transmission systems' stability and strength. Besides, they are also being deployed to control voltage fluctuations and provide reactive power support.

“The hydrogen cooled synchronous condenser segment is expected to emerge as the fastest segment, by Cooling technology”

The Synchronous Condenser market has been segmented into hydrogen cooled synchronous condenser, Air cooled synchronous condenser and Water cooled synchronous condenser. The hydrogen-cooled synchronous condenser uses gaseous hydrogen as a coolant because of its superior cooling properties. It exhibits low density, high specific heat, and high thermal conductivity features. The hydrogen-cooled synchronous condenser has 1.5 times higher heat transfer capability and 1/14th the density than its air-cooled counterpart, resulting in fewer friction losses and faster cooling. Hydrogen-cooled synchronous condensers can be operated at a higher load with the same temperature rise, and the windage loss is lower than air-cooled synchronous condensers.

“North America is expected to account for the largest market size during the forecast period.”

North America is expected to be the largest market during the forecast period. North America has aging power infrastructures, which may increase the risk of blackouts. Therefore, governments of different countries in this region are actively focusing on upgrading and replacing aging infrastructures to improve grid reliability and resilience and develop smart electricity networks. The North American power sector is currently facing challenges such as meeting energy-efficiency targets, compliance with federal carbon policies, and integrating various distributed generation sources in the grid.

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- 65%, Tier 2- 24%, and Tier 3- 11%

By Designation: C-Level- 30%, Director Level- 25%, and Others- 45%

By Region: North America- 33%, Europe – 27%, South America-20 %,Asia Pacific- 12% Central America- 8%

Note: Others include product engineers, product specialists, and engineering leads.

Note: The tiers of the companies are defined based on their total revenues as of 2017. Tier 1: > USD 1 billion, Tier 2: From USD 500 million to USD 1 billion, and Tier 3: The Synchronous Condenser market is dominated by a few major players that have a wide regional presence. The leading players in the synchronous condenser market are ABB (Switzerland), Siemens (Germany), GE (US), Eaton (Ireland), Voith Group (Germany), Fuji Electric (Japan), and WEG (Brazil).

Research Coverage:

The report defines, describes, and forecasts the synchronous condenser market, Cooling Technology, Reactive Power Rating, Type, Starting Method, End User, and Region. It also offers a detailed qualitative and quantitative analysis of the market. The report provides a comprehensive review of the major market drivers, restraints, opportunities, and challenges. It also covers various important aspects of the market. These include an analysis of the competitive landscape, market dynamics, market estimates, in terms of value, and future trends in the synchronous condenser market.

Key Benefits of Buying the Report

1. The report identifies and addresses the key markets for synchronous condenser market, which would help cable manufacturers review the growth in demand.
2. The report helps system providers understand the pulse of the market and provides insights into drivers, restraints, opportunities, and challenges.
3. The report will help key players understand the strategies of their competitors better and help them in making better strategic decisions.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 INCLUSIONS AND EXCLUSIONS

1.3.1 SYNCHRONOUS CONDENSER MARKET, BY COOLING TECHNOLOGY:
INCLUSIONS AND EXCLUSIONS

1.3.2 SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING:
INCLUSIONS AND EXCLUSIONS

1.3.3 SYNCHRONOUS CONDENSER MARKET, BY END USER: INCLUSIONS AND
EXCLUSIONS

1.4 MARKET SCOPE

1.4.1 SYNCHRONOUS CONDENSER MARKET: SEGMENTATION

1.4.2 SYNCHRONOUS CONDENSER MARKET: REGIONAL SCOPE

1.5 YEARS CONSIDERED

1.6 CURRENCY CONSIDERED

1.7 LIMITATIONS

1.8 STAKEHOLDERS

1.9 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 1 SYNCHRONOUS CONDENSER MARKET: RESEARCH DESIGN

2.2 MARKET BREAKDOWN AND DATA TRIANGULATION

2.2.1 SECONDARY DATA

2.2.1.1 Key data from secondary sources

2.2.2 PRIMARY DATA

2.2.2.1 Key data from primary sources

2.2.2.2 Breakdown of primaries

2.3 SCOPE OF STUDY

2.4 DEMAND-SIDE ANALYSIS

FIGURE 2 PARAMETERS CONSIDERED WHILE ASSESSING DEMAND FOR
SYNCHRONOUS CONDENSERS

2.4.1 DEMAND-SIDE ANALYSIS: BOTTOM-UP APPROACH

FIGURE 3 SYNCHRONOUS CONDENSER MARKET: INDUSTRY AND
REGION-/COUNTRY-WISE ANALYSIS

2.4.1.1 Demand-side analysis of synchronous condenser market

2.4.1.2 Assumptions while calculating demand-side market size

2.4.2 SUPPLY-SIDE ANALYSIS

FIGURE 4 CALCULATION OF REVENUES OF MAJOR PLAYERS FROM SALES OF SYNCHRONOUS CONDENSERS TO IDENTIFY GLOBAL MARKET SIZE

2.4.2.1 Supply-side analysis of synchronous condenser market

FIGURE 5 KEY METRICS CONSIDERED FOR ASSESSING SUPPLY OF SYNCHRONOUS CONDENSERS

2.4.2.2 Assumptions while calculating supply-side market size

FIGURE 6 COMPANY REVENUE ANALYSIS, 2021

2.4.3 FORECAST

3 EXECUTIVE SUMMARY

TABLE 1 SYNCHRONOUS CONDENSER MARKET: SNAPSHOT

FIGURE 7 NORTH AMERICA DOMINATED SYNCHRONOUS CONDENSER MARKET IN 2021

FIGURE 8 HYDROGEN-COOLED SYNCHRONOUS CONDENSER SEGMENT TO DOMINATE MARKET, BY COOLING TECHNOLOGY, DURING FORECAST PERIOD

FIGURE 9 STATIC FREQUENCY CONVERTER TO BE FASTEST-GROWING SEGMENT OF SYNCHRONOUS CONDENSER MARKET, BY STARTING METHOD, DURING FORECAST PERIOD

FIGURE 10 ABOVE 200 MVAR SEGMENT TO DOMINATE SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING, DURING FORECAST PERIOD

FIGURE 11 ELECTRICAL UTILITIES SEGMENT TO DOMINATE SYNCHRONOUS CONDENSER MARKET, BY END USER, DURING FORECAST PERIOD

FIGURE 12 NEW SYNCHRONOUS CONDENSER SEGMENT TO LEAD MARKET, BY TYPE, DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN SYNCHRONOUS CONDENSER MARKET

FIGURE 13 RISING INVESTMENTS IN DEVELOPING POWER INFRASTRUCTURES AND INTEGRATION OF RENEWABLE SOURCES INTO GRIDS TO CREATE LUCRATIVE OPPORTUNITIES FOR MARKET PLAYERS DURING FORECAST PERIOD

4.2 SYNCHRONOUS CONDENSER MARKET, BY REGION

FIGURE 14 NORTH AMERICAN SYNCHRONOUS CONDENSER MARKET TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

4.3 NORTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY TYPE AND COUNTRY, 2021

FIGURE 15 REFURBISHED SYNCHRONOUS CONDENSER SEGMENT AND US HELD LARGER SHARES OF NORTH AMERICAN SYNCHRONOUS CONDENSER MARKET IN 2021

4.4 SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING

FIGURE 16 ABOVE 200 MVAR SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE

BY 2030

4.5 SYNCHRONOUS CONDENSER MARKET, BY STARTING METHOD

FIGURE 17 STATIC FREQUENCY CONVERTER SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE BY 2030

4.6 SYNCHRONOUS CONDENSER MARKET, BY COOLING TECHNOLOGY

FIGURE 18 HYDROGEN-COOLED SYNCHRONOUS CONDENSER SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE BY 2030

4.7 SYNCHRONOUS CONDENSER MARKET, BY TYPE

FIGURE 19 NEW SYNCHRONOUS CONDENSER SEGMENT TO DOMINATE MARKET

BY 2030

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 20 SYNCHRONOUS CONDENSER MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 Growing use of renewable and sustainable energy sources and increasing investments in capacity additions

FIGURE 21 RENEWABLE ELECTRICITY CAPACITY ADDITION, 2014–2021

FIGURE 22 INSTALLED RENEWABLE ELECTRICITY GENERATING CAPACITY, 2020–2050

5.2.1.2 Growing requirement for power factor correction (PFC) and increasing investments in developing transmission and distribution (T&D) infrastructures

FIGURE 23 INVESTMENTS IN ELECTRICITY NETWORKS, BY REGION (2015–2021)

TABLE 2 TRANSMISSION AND DISTRIBUTION (T&D) INFRASTRUCTURE EXPANSION PLANS

5.2.2 RESTRAINTS

5.2.2.1 High manufacturing and maintenance costs

5.2.3 OPPORTUNITIES

5.2.3.1 Conversion of synchronous generators into synchronous condensers

5.2.3.2 Rising adoption of high-voltage direct current (HVDC) systems

5.2.4 CHALLENGES

5.2.4.1 Availability of low-cost substitutes

TABLE 3 COMPARISON BETWEEN SYNCHRONOUS CONDENSER AND ITS SUBSTITUTES

5.2.4.2 Shortage of components/parts used in manufacturing of synchronous condensers due to COVID-19

TABLE 4 CHANGE IN PRICES OF COMMODITIES, 2019–2020

5.3 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

5.3.1 REVENUE SHIFT AND NEW REVENUE POCKETS FOR SYNCHRONOUS CONDENSER MANUFACTURERS

FIGURE 24 REVENUE SHIFT FOR SYNCHRONOUS CONDENSER MANUFACTURERS

5.4 MARKET MAP

FIGURE 25 SYNCHRONOUS CONDENSER MARKET: MARKET MAP

TABLE 5 SYNCHRONOUS CONDENSER MARKET: ROLE IN ECOSYSTEM

5.5 VALUE CHAIN ANALYSIS

FIGURE 26 SYNCHRONOUS CONDENSER MARKET: VALUE CHAIN ANALYSIS

5.5.1 RAW MATERIAL PROVIDERS/SUPPLIERS

5.5.2 COMPONENT MANUFACTURERS

5.5.3 SYNCHRONOUS CONDENSER MANUFACTURERS/ASSEMBLERS/SERVICE PROVIDERS

5.5.4 DISTRIBUTORS/END USERS

5.5.5 POST-SALES SERVICE PROVIDERS

5.6 CODES AND REGULATIONS RELATED TO SYNCHRONOUS CONDENSER MARKET

TABLE 6 SYNCHRONOUS CONDENSER MARKET: CODES AND REGULATIONS

5.7 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 7 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 8 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 9 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 10 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 11 GLOBAL: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.8 INNOVATIONS AND PATENT REGISTRATIONS

TABLE 12 SYNCHRONOUS CONDENSER MARKET: INNOVATIONS AND PATENT REGISTRATIONS, FEBRUARY 2016–NOVEMBER 2021

5.9 PORTER'S FIVE FORCES ANALYSIS

FIGURE 27 PORTER'S FIVE FORCES ANALYSIS

TABLE 13 SYNCHRONOUS CONDENSER MARKET: PORTER'S FIVE FORCES ANALYSIS

5.9.1 THREAT OF SUBSTITUTES

5.9.2 BARGAINING POWER OF SUPPLIERS

5.9.3 BARGAINING POWER OF BUYERS

5.9.4 THREAT OF NEW ENTRANTS

5.9.5 INTENSITY OF COMPETITIVE RIVALRY

5.10 CASE STUDY ANALYSIS

5.10.1 USE OF GE'S SYNCHRONOUS CONDENSERS IN NORTHWEST VERMONT RELIABILITY PROJECT

5.10.1.1 Problem statement

5.10.1.2 Solution

5.10.2 REFURBISHMENT OF SYNCHRONOUS GENERATORS TO SYNCHRONOUS CONDENSERS

5.10.2.1 Problem statement

5.10.2.2 Solution

5.10.3 USE OF TERNA'S SYNCHRONOUS CONDENSERS TO STABILIZE GRID IN SARDINIA REGION

5.10.3.1 Problem statement

5.10.3.2 Solution

5.11 PRICING ANALYSIS

TABLE 14 AVERAGE SELLING PRICE OF SYNCHRONOUS CONDENSERS

5.12 TECHNOLOGY ANALYSIS

5.12.1 HIGH-TEMPERATURE SUPERCONDUCTOR (HTS) DYNAMIC SYNCHRONOUS CONDENSER

5.12.2 MODE OF OPERATION (APPLICATION)

5.12.2.1 Standalone synchronous condenser

5.12.2.2 Power plants with synchronous condensing capacity

5.12.2.3 Retrofitting of existing and decommissioned power plants

5.13 KEY STAKEHOLDERS AND BUYING CRITERIA

5.13.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 28 INFLUENCE OF STAKEHOLDERS IN BUYING PROCESS, BY END USER

TABLE 15 INFLUENCE OF STAKEHOLDERS IN BUYING PROCESS, BY END USER (%)

5.13.2 BUYING CRITERIA

FIGURE 29 KEY BUYING CRITERIA FOR END USERS

TABLE 16 KEY BUYING CRITERIA, BY END USER

5.14 KEY CONFERENCES AND EVENTS, 2022–2024

TABLE 17 SYNCHRONOUS CONDENSER MARKET: DETAILED LIST OF CONFERENCES AND EVENTS

6 SYNCHRONOUS CONDENSER MARKET, BY TYPE

6.1 INTRODUCTION

FIGURE 30 NEW SYNCHRONOUS CONDENSER SEGMENT ACCOUNTED FOR LARGER MARKET SHARE IN 2021

TABLE 18 SYNCHRONOUS CONDENSER MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 19 SYNCHRONOUS CONDENSER MARKET, BY TYPE, 2022–2030 (USD MILLION)

6.2 NEW SYNCHRONOUS CONDENSER

6.2.1 EXPANSION OF HVDC NETWORKS TO INCREASE INSTALLATION OF NEW SYNCHRONOUS CONDENSERS

TABLE 20 NEW SYNCHRONOUS CONDENSER: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 21 NEW SYNCHRONOUS CONDENSER: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2022–2030 (USD MILLION)

6.3 REFURBISHED SYNCHRONOUS CONDENSER

6.3.1 LOW COST OF REFURBISHED SYNCHRONOUS CONDENSERS TO FUEL DEMAND

TABLE 22 REFURBISHED SYNCHRONOUS CONDENSER: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 23 REFURBISHED SYNCHRONOUS CONDENSER: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2022–2030 (USD MILLION)

7 SYNCHRONOUS CONDENSER MARKET, BY COOLING TECHNOLOGY

7.1 INTRODUCTION

FIGURE 31 HYDROGEN-COOLED SYNCHRONOUS CONDENSER SEGMENT ACCOUNTED FOR LARGEST MARKET SHARE IN 2021

TABLE 24 SYNCHRONOUS CONDENSER MARKET, BY COOLING TECHNOLOGY, 2018–2021 (USD MILLION)

TABLE 25 SYNCHRONOUS CONDENSER MARKET, BY COOLING TECHNOLOGY, 2022–2030 (USD MILLION)

7.2 HYDROGEN-COOLED SYNCHRONOUS CONDENSER

7.2.1 LOW WINDAGE LOSS AND HIGH THERMAL CONDUCTIVITY FEATURES OF HYDROGEN-COOLED SYNCHRONOUS CONDENSERS TO FUEL DEMAND

TABLE 26 HYDROGEN-COOLED SYNCHRONOUS CONDENSER: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 27 HYDROGEN-COOLED SYNCHRONOUS CONDENSER: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2022–2030 (USD MILLION)

7.3 AIR-COOLED SYNCHRONOUS CONDENSER

7.3.1 EXCELLENT COOLING FEATURE OF AIR-COOLED SYNCHRONOUS CONDENSERS TO PROPEL DEMAND

TABLE 28 AIR-COOLED SYNCHRONOUS CONDENSER: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 29 AIR-COOLED SYNCHRONOUS CONDENSER: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2022–2030 (USD MILLION)

7.4 WATER-COOLED SYNCHRONOUS CONDENSER

7.4.1 HIGHER EFFICIENCY OF WATER-COOLED SYNCHRONOUS CONDENSERS COMPARED TO HYDROGEN-COOLED CONDENSERS TO FUEL DEMAND

TABLE 30 WATER-COOLED SYNCHRONOUS CONDENSER: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 31 WATER-COOLED SYNCHRONOUS CONDENSER: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2022–2030 (USD MILLION)

8 SYNCHRONOUS CONDENSER MARKET, BY STARTING METHOD

8.1 INTRODUCTION

FIGURE 32 STATIC FREQUENCY CONVERTER SEGMENT ACCOUNTED FOR LARGEST MARKET SHARE IN 2021

TABLE 32 SYNCHRONOUS CONDENSER MARKET, BY STARTING METHOD, 2018–2021 (USD MILLION)

TABLE 33 SYNCHRONOUS CONDENSER MARKET, BY STARTING METHOD, 2022–2030 (USD MILLION)

8.2 STATIC FREQUENCY CONVERTER

8.2.1 LOW INSTALLATION COST OF STATIC FREQUENCY CONVERTER TO

FUEL DEMAND

TABLE 34 STATIC FREQUENCY CONVERTER: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 35 STATIC FREQUENCY CONVERTER: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2022–2030 (USD MILLION)

8.3 PONY MOTOR

8.3.1 LOW COST AND ABILITY TO START LOW-CAPACITY SYNCHRONOUS CONDENSERS (BELOW 50 MVAR) TO FUEL DEMAND FOR PONY MOTORS

TABLE 36 PONY MOTOR: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 37 PONY MOTOR: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2022–2030 (USD MILLION)

8.4 OTHERS

TABLE 38 OTHERS: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 39 OTHERS: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2022–2030 (USD MILLION)

9 SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING

9.1 INTRODUCTION

FIGURE 33 ABOVE 200 MVAR SEGMENT ACCOUNTED FOR LARGEST MARKET SHARE IN 2021

TABLE 40 SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING, 2018–2021 (USD MILLION)

TABLE 41 SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING, 2022–2030 (USD MILLION)

9.2 UP TO 100 MVAR

9.2.1 RISING USE OF AIR- AND WATER-COOLED SYNCHRONOUS CONDENSERS

TO FUEL MARKET GROWTH

TABLE 42 UP TO 100 MVAR: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 43 UP TO 100 MVAR: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2022–2030 (USD MILLION)

9.3 101–200 MVAR

9.3.1 GROWING NEED TO ENSURE STABILITY OF TRANSMISSION GRIDS TO FUEL DEMAND FOR 101–200 MVAR SYNCHRONOUS CONDENSERS

TABLE 44 101–200 MVAR: SYNCHRONOUS CONDENSER MARKET, BY REGION,

2018–2021 (USD MILLION)

TABLE 45 101–200 MVAR: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2022–2030 (USD MILLION)

9.4 ABOVE 200 MVAR

9.4.1 RISING ADOPTION OF LARGE-SIZED HYDROGEN-COOLED SYNCHRONOUS CONDENSERS TO DRIVE MARKET GROWTH

TABLE 46 ABOVE 200 MVAR: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 47 ABOVE 200 MVAR: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2022–2030 (USD MILLION)

10 SYNCHRONOUS CONDENSER MARKET, BY END USER

10.1 INTRODUCTION

FIGURE 34 ELECTRICAL UTILITIES SEGMENT ACCOUNTED FOR LARGER MARKET

SHARE IN 2021

TABLE 48 SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 49 SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

10.2 ELECTRICAL UTILITIES

10.2.1 RISING NEED TO IMPROVE GRID STABILITY TO BOOST MARKET GROWTH

TABLE 50 ELECTRICAL UTILITIES: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 51 ELECTRICAL UTILITIES: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2022–2030 (USD MILLION)

10.3 INDUSTRIAL SECTOR

10.3.1 INCREASING NEED TO PERFORM POWER FACTOR CORRECTION OF INDUSTRIAL LOADS TO FUEL DEMAND FOR SYNCHRONOUS CONDENSERS

TABLE 52 INDUSTRIAL SECTOR: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 53 INDUSTRIAL SECTOR: SYNCHRONOUS CONDENSER MARKET, BY REGION, 2022–2030 (USD MILLION)

11 SYNCHRONOUS CONDENSER MARKET, BY REGION

11.1 INTRODUCTION

FIGURE 35 SYNCHRONOUS CONDENSER MARKET: REGIONAL SNAPSHOT

FIGURE 36 REGIONAL ANALYSIS OF SYNCHRONOUS CONDENSER MARKET, 2021

TABLE 54 SYNCHRONOUS CONDENSER MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 55 SYNCHRONOUS CONDENSER MARKET, BY REGION, 2022–2030 (USD MILLION)

TABLE 56 SYNCHRONOUS CONDENSER MARKET, BY REGION, 2018–2021 (UNITS)

TABLE 57 SYNCHRONOUS CONDENSER MARKET, BY REGION, 2022–2030 (UNITS)

11.2 NORTH AMERICA

FIGURE 37 NORTH AMERICA: SYNCHRONOUS CONDENSER MARKET SNAPSHOT

11.2.1 BY TYPE

TABLE 58 NORTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 59 NORTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY TYPE, 2022–2030 (USD MILLION)

11.2.2 BY COOLING TECHNOLOGY

TABLE 60 NORTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY COOLING TECHNOLOGY, 2018–2021 (USD MILLION)

TABLE 61 NORTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY COOLING TECHNOLOGY, 2022–2030 (USD MILLION)

11.2.3 BY STARTING METHOD

TABLE 62 NORTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY STARTING METHOD, 2018–2021 (USD MILLION)

TABLE 63 NORTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY STARTING METHOD, 2022–2030 (USD MILLION)

11.2.4 BY REACTIVE POWER RATING

TABLE 64 NORTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING, 2018–2021 (USD MILLION)

TABLE 65 NORTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING, 2022–2030 (USD MILLION)

11.2.5 BY END USER

TABLE 66 NORTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 67 NORTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.2.6 BY COUNTRY

TABLE 68 NORTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 69 NORTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY COUNTRY, 2022–2030 (USD MILLION)

11.2.6.1 US

11.2.6.1.1 Government-led initiatives to upgrade legacy power infrastructures and phase out coal-based power plants to fuel demand for synchronous condensers

FIGURE 38 PLANNED RETIREMENTS OF UTILITY-SCALE ELECTRICITY-GENERATING CAPACITIES IN US, 2022–2030

TABLE 70 US: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 71 US: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.2.6.2 Canada

11.2.6.2.1 Rising investments in renewable energy generation to propel market growth

TABLE 72 CANADA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 73 CANADA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.3 EUROPE

FIGURE 39 EUROPE: SYNCHRONOUS CONDENSER MARKET SNAPSHOT

11.3.1 BY TYPE

TABLE 74 EUROPE: SYNCHRONOUS CONDENSER MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 75 EUROPE: SYNCHRONOUS CONDENSER MARKET, BY TYPE, 2022–2030 (USD MILLION)

11.3.2 BY COOLING TECHNOLOGY

TABLE 76 EUROPE: SYNCHRONOUS CONDENSER MARKET, BY COOLING TECHNOLOGY, 2018–2021 (USD MILLION)

TABLE 77 EUROPE: SYNCHRONOUS CONDENSER MARKET, BY COOLING TECHNOLOGY, 2022–2030 (USD MILLION)

11.3.3 BY STARTING METHOD

TABLE 78 EUROPE: SYNCHRONOUS CONDENSER MARKET, BY STARTING METHOD, 2018–2021 (USD MILLION)

TABLE 79 EUROPE: SYNCHRONOUS CONDENSER MARKET, BY STARTING METHOD, 2022–2030 (USD MILLION)

11.3.4 BY REACTIVE POWER RATING

TABLE 80 EUROPE: SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING, 2018–2021 (USD MILLION)

TABLE 81 EUROPE: SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING, 2022–2030 (USD MILLION)

11.3.5 BY END USER

TABLE 82 EUROPE: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 83 EUROPE: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.3.6 BY COUNTRY

TABLE 84 EUROPE: SYNCHRONOUS CONDENSER MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 85 EUROPE: SYNCHRONOUS CONDENSER MARKET, BY COUNTRY, 2022–2030 (USD MILLION)

11.3.6.1 Denmark

11.3.6.1.1 Growing need to stabilize grid transmission to fuel demand for synchronous condensers

TABLE 86 DENMARK: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 87 DENMARK: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.3.6.2 Italy

11.3.6.2.1 Rising integration of renewable sources into grids to propel demand for synchronous condensers

TABLE 88 ITALY: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 89 ITALY: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.3.6.3 Germany

11.3.6.3.1 Government-led initiatives to replace fossil fuels with renewable sources in power generation mix to drive market growth

TABLE 90 GERMANY: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 91 GERMANY: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.3.6.4 Norway

11.3.6.4.1 Rising investments in expansion of HVDC networks to fuel demand for synchronous condensers

TABLE 92 NORWAY: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 93 NORWAY: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.3.6.5 Rest of Europe

TABLE 94 REST OF EUROPE: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 95 REST OF EUROPE: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.4 SOUTH AMERICA

11.4.1 BY TYPE

TABLE 96 SOUTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 97 SOUTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY TYPE, 2022–2030 (USD MILLION)

11.4.2 BY COOLING TECHNOLOGY

TABLE 98 SOUTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY COOLING TECHNOLOGY, 2018–2021 (USD MILLION)

TABLE 99 SOUTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY COOLING TECHNOLOGY, 2022–2030 (USD MILLION)

11.4.3 BY STARTING METHOD

TABLE 100 SOUTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 101 SOUTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY STARTING METHOD, 2022–2030 (USD MILLION)

11.4.4 BY REACTIVE POWER RATING

TABLE 102 SOUTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING, 2018–2021 (USD MILLION)

TABLE 103 SOUTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING, 2022–2030 (USD MILLION)

11.4.5 BY END USER

TABLE 104 SOUTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 105 SOUTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.4.6 BY COUNTRY

TABLE 106 SOUTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 107 SOUTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY

COUNTRY, 2022–2030 (USD MILLION)**11.4.6.1 Brazil**

11.4.6.1.1 Government-led initiatives to develop power infrastructures to fuel demand for synchronous condensers

TABLE 108 BRAZIL: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 109 BRAZIL: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.4.6.2 Rest of South America

TABLE 110 REST OF SOUTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 111 REST OF SOUTH AMERICA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.5 ASIA PACIFIC

FIGURE 40 ASIA PACIFIC: SYNCHRONOUS CONDENSER MARKET SNAPSHOT

11.5.1 BY TYPE

TABLE 112 ASIA PACIFIC: SYNCHRONOUS CONDENSER MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 113 ASIA PACIFIC: SYNCHRONOUS CONDENSER MARKET, BY TYPE, 2022–2030 (USD MILLION)

11.5.2 BY COOLING TECHNOLOGY

TABLE 114 ASIA PACIFIC: SYNCHRONOUS CONDENSER MARKET, BY COOLING TECHNOLOGY, 2018–2021 (USD MILLION)

TABLE 115 ASIA PACIFIC: SYNCHRONOUS CONDENSER MARKET, BY COOLING TECHNOLOGY, 2022–2030 (USD MILLION)

11.5.3 BY STARTING METHOD

TABLE 116 ASIA PACIFIC: SYNCHRONOUS CONDENSER MARKET, BY STARTING METHOD, 2018–2021 (USD MILLION)

TABLE 117 ASIA PACIFIC: SYNCHRONOUS CONDENSER MARKET, BY STARTING METHOD, 2022–2030 (USD MILLION)

11.5.4 BY REACTIVE POWER RATING

TABLE 118 ASIA PACIFIC: SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING, 2018–2021 (USD MILLION)

TABLE 119 ASIA PACIFIC: SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING, 2022–2030 (USD MILLION)

11.5.5 BY END USER

TABLE 120 ASIA PACIFIC: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 121 ASIA PACIFIC: SYNCHRONOUS CONDENSER MARKET, BY END

USER, 2022–2030 (USD MILLION)

11.5.6 BY COUNTRY

TABLE 122 ASIA PACIFIC: SYNCHRONOUS CONDENSER MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 123 ASIA PACIFIC: SYNCHRONOUS CONDENSER MARKET, BY COUNTRY, 2022–2030 (USD MILLION)

11.5.6.1 China

11.5.6.1.1 Growing need to improve power reliability to fuel demand for synchronous condensers

TABLE 124 CHINA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 125 CHINA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.5.6.2 Australia

11.5.6.2.1 Rising deployment of synchronous condensers in power infrastructures to drive market growth

TABLE 126 AUSTRALIA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 127 AUSTRALIA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.5.6.3 Rest of Asia Pacific

TABLE 128 REST OF ASIA PACIFIC: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 129 REST OF ASIA PACIFIC: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.6 MIDDLE EAST & AFRICA

11.6.1 BY TYPE

TABLE 130 MIDDLE EAST & AFRICA: SYNCHRONOUS CONDENSER MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 131 MIDDLE EAST & AFRICA: SYNCHRONOUS CONDENSER MARKET, BY TYPE, 2022–2030 (USD MILLION)

11.6.2 BY COOLING TECHNOLOGY

TABLE 132 MIDDLE EAST & AFRICA: SYNCHRONOUS CONDENSER MARKET, BY COOLING TECHNOLOGY, 2018–2021 (USD MILLION)

TABLE 133 MIDDLE EAST & AFRICA: SYNCHRONOUS CONDENSER MARKET, BY COOLING TECHNOLOGY, 2022–2030 (USD MILLION)

11.6.3 BY STARTING METHOD

TABLE 134 MIDDLE EAST & AFRICA: SYNCHRONOUS CONDENSER MARKET, BY STARTING METHOD, 2018–2021 (USD MILLION)

TABLE 135 MIDDLE EAST & AFRICA: SYNCHRONOUS CONDENSER MARKET, BY STARTING METHOD, 2022–2030 (USD MILLION)

11.6.4 BY REACTIVE POWER RATING

TABLE 136 MIDDLE EAST & AFRICA: SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING, 2018–2021 (USD MILLION)

TABLE 137 MIDDLE EAST & AFRICA: SYNCHRONOUS CONDENSER MARKET, BY REACTIVE POWER RATING, 2022–2030 (USD MILLION)

11.6.5 BY END USER

TABLE 138 MIDDLE EAST & AFRICA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 139 MIDDLE EAST & AFRICA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.6.6 BY COUNTRY

TABLE 140 REST OF THE MIDDLE EAST & AFRICA: SYNCHRONOUS CONDENSER MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 141 REST OF THE MIDDLE EAST & AFRICA: SYNCHRONOUS CONDENSER MARKET, BY COUNTRY, 2022–2030 (USD MILLION)

11.6.6.1 Kenya

11.6.6.1.1 Increasing number of power generation projects to drive market growth

TABLE 142 KENYA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 143 KENYA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

11.6.6.2 Rest of Middle East & Africa

TABLE 144 REST OF MIDDLE EAST & AFRICA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2018–2021 (USD MILLION)

TABLE 145 REST OF MIDDLE EAST & AFRICA: SYNCHRONOUS CONDENSER MARKET, BY END USER, 2022–2030 (USD MILLION)

12 COMPETITIVE LANDSCAPE

12.1 KEY PLAYER STRATEGIES

TABLE 146 OVERVIEW OF KEY STRATEGIES ADOPTED BY TOP MARKET PLAYERS, JANUARY 2017–JUNE 2022

12.2 MARKET SHARE ANALYSIS

TABLE 147 SYNCHRONOUS CONDENSER MARKET: DEGREE OF COMPETITION

FIGURE 41 SYNCHRONOUS CONDENSER MARKET SHARE ANALYSIS, 2021

12.3 REVENUE SHARE ANALYSIS OF TOP 5 MARKET PLAYERS

FIGURE 42 TOP 5 PLAYERS DOMINATED SYNCHRONOUS CONDENSER MARKET

FROM 2017 TO 2021

12.4 COMPANY EVALUATION QUADRANT

12.4.1 STARS

12.4.2 EMERGING LEADERS

12.4.3 PERVASIVE PLAYERS

12.4.4 PARTICIPANTS

FIGURE 43 COMPETITIVE LEADERSHIP MAPPING: SYNCHRONOUS CONDENSER MARKET, 2021

12.5 SYNCHRONOUS CONDENSER MARKET: COMPANY FOOTPRINT

TABLE 148 TYPE: COMPANY FOOTPRINT

TABLE 149 REACTIVE POWER RATING: COMPANY FOOTPRINT

TABLE 150 REGION: COMPANY FOOTPRINT

TABLE 151 OVERALL COMPANY FOOTPRINT

12.6 COMPETITIVE SCENARIO

TABLE 152 SYNCHRONOUS CONDENSER MARKET: PRODUCT LAUNCHES, JANUARY 2017–SEPTEMBER 2021

TABLE 153 SYNCHRONOUS CONDENSER MARKET: DEALS, JANUARY 2017–SEPTEMBER 2021

13 COMPANY PROFILES

13.1 KEY PLAYERS

(Business overview, Products/Solutions/Services offered, Recent Developments, MNM view)*

13.1.1 ABB

TABLE 154 ABB: BUSINESS OVERVIEW

FIGURE 44 ABB: COMPANY SNAPSHOT, 2021

TABLE 155 ABB: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 156 ABB: PRODUCT LAUNCHES

TABLE 157 ABB: DEALS

TABLE 158 ABB: OTHERS

13.1.2 SIEMENS ENERGY

TABLE 159 SIEMENS ENERGY: BUSINESS OVERVIEW

FIGURE 45 SIEMENS ENERGY: COMPANY SNAPSHOT, 2021

TABLE 160 SIEMENS ENERGY: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 161 SIEMENS ENERGY: OTHERS

13.1.3 GE

TABLE 162 GE: BUSINESS OVERVIEW

FIGURE 46 GE: COMPANY SNAPSHOT, 2021

TABLE 163 GE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 164 GE: OTHERS

13.1.4 WEG

TABLE 165 WEG: BUSINESS OVERVIEW

FIGURE 47 WEG: COMPANY SNAPSHOT, 2021

TABLE 166 WEG: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 167 WEG: DEALS

TABLE 168 WEG: OTHERS

13.1.5 EATON

TABLE 169 EATON: BUSINESS OVERVIEW

FIGURE 48 EATON: COMPANY SNAPSHOT, 2021

TABLE 170 EATON: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.1.6 ANDRITZ GROUP

TABLE 171 ANDRITZ GROUP: BUSINESS OVERVIEW

FIGURE 49 ANDRITZ GROUP: COMPANY SNAPSHOT, 2021

TABLE 172 ANDRITZ GROUP: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 173 ANDRITZ GROUP: OTHERS

13.1.7 ANSALDO ENERGIA

TABLE 174 ANSALDO ENERGIA: BUSINESS OVERVIEW

FIGURE 50 ANSALDO ENERGIA: COMPANY SNAPSHOT, 2021

TABLE 175 ANSALDO ENERGIA: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 176 ANSALDO ENERGIA: OTHERS

13.1.8 MITSUBISHI HEAVY INDUSTRIES

TABLE 177 MITSUBISHI HEAVY INDUSTRIES: BUSINESS OVERVIEW

FIGURE 51 MITSUBISHI HEAVY INDUSTRIES: COMPANY SNAPSHOT, 2020

TABLE 178 MITSUBISHI HEAVY INDUSTRIES: PRODUCTS/SOLUTIONS/
SERVICES OFFERED

TABLE 179 MITSUBISHI HEAVY INDUSTRIES: OTHERS

13.1.9 VOITH GROUP

TABLE 180 VOITH GROUP: BUSINESS OVERVIEW

FIGURE 52 VOITH GROUP: COMPANY SNAPSHOT, 2021

TABLE 181 VOITH GROUP: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 182 VOITH GROUP: OTHERS

13.1.10 FUJI ELECTRIC

TABLE 183 FUJI ELECTRIC: BUSINESS OVERVIEW

FIGURE 53 FUJI ELECTRIC: COMPANY SNAPSHOT, 2020

TABLE 184 FUJI ELECTRIC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.1.11 BHARAT HEAVY ELECTRICALS LIMITED (BHEL)

TABLE 185 BHARAT HEAVY ELECTRICALS LIMITED (BHEL): BUSINESS

OVERVIEW

FIGURE 54 BHARAT HEAVY ELECTRICALS LIMITED (BHEL): COMPANY SNAPSHOT, 2021

TABLE 186 BHARAT HEAVY ELECTRICALS LIMITED (BHEL): PRODUCTS/SOLUTIONS/ SERVICES OFFERED

13.1.12 IDEAL ELECTRIC POWER (HYUNDAI IDEAL ELECTRIC CO.)

TABLE 187 IDEAL ELECTRIC POWER: BUSINESS OVERVIEW

TABLE 188 IDEAL ELECTRIC POWER: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.1.13 POWER SYSTEMS & CONTROLS

TABLE 189 POWER SYSTEMS & CONTROLS (PS&C): BUSINESS OVERVIEW

TABLE 190 POWER SYSTEMS & CONTROLS (PS&C): PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.1.14 BRUSH GROUP

TABLE 191 BRUSH GROUP: BUSINESS OVERVIEW

TABLE 192 BRUSH GROUP: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.1.15 ELECTROMECHANICAL ENGINEERING ASSOCIATES

TABLE 193 ELECTROMECHANICAL ENGINEERING ASSOCIATES (EME): BUSINESS OVERVIEW

TABLE 194 ELECTROMECHANICAL ENGINEERING ASSOCIATES (EME): PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 195 ELECTROMECHANICAL ENGINEERING ASSOCIATES (EME): OTHERS

13.1.16 ANHUI ZHONGDIAN (ZDDQ) ELECTRIC CO., LTD.

TABLE 196 ANHUI ZHONGDIAN ELECTRIC CO., LTD.: BUSINESS OVERVIEW

TABLE 197 ANHUI ZHONGDIAN ELECTRIC CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.1.17 SHANGHAI ELECTRIC

TABLE 198 SHANGHAI ELECTRIC: BUSINESS OVERVIEW

TABLE 199 SHANGHAI ELECTRIC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.1.18 INGETEAM

TABLE 200 INGETEAM: BUSINESS OVERVIEW

TABLE 201 INGETEAM: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.1.19 DOOSAN SKODA POWER

TABLE 202 DOOSAN SKODA POWER: BUSINESS OVERVIEW

TABLE 203 DOOSAN SKODA POWER: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.1.20 HANGZHOU JINGCHENG ELECTRICAL EQUIPMENT CO., LTD.

TABLE 204 HANGZHOU JINGCHENG ELECTRICAL EQUIPMENT CO., LTD.: BUSINESS OVERVIEW

TABLE 205 HANGZHOU JINGCHENG ELECTRICAL EQUIPMENT CO., LTD.:
PRODUCTS/SOLUTIONS/SERVICES OFFERED

*Details on Business overview, Products/Solutions/Services offered, Recent Developments, MNM view might not be captured in case of unlisted companies.

14 APPENDIX

14.1 INSIGHTS FROM INDUSTRY EXPERTS

14.2 DISCUSSION GUIDE

14.3 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

14.4 CUSTOMIZATION OPTIONS

14.5 RELATED REPORTS

14.6 AUTHOR DETAILS

I would like to order

Product name: Synchronous Condenser Market by Cooling Type (Hydrogen-Cooler, Air-Cooled, Water-Cooled), Type (New & Refurbished), Starting Method (Static Frequency Converter, Pony Motor), End-User, Reactive Power Rating and Region - Global Forecast to 2030

Product link: <https://marketpublishers.com/r/S3DE7A69F63EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S3DE7A69F63EN.html>