

Global ISO 50001 Achievements:

Reducing costs, energy use, and CO₂ emissions around the world



2020 ENERGY MANAGEMENT LEADERSHIP AWARDS



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In 2020, 46 organizations received global recognition.

This booklet highlights their successes using the ISO 50001 energy management system standard.

The **Clean Energy Ministerial's Energy Management Working Group (EMWG)** has been driving the global dialogue on quality ISO 50001 implementation since 2010.

To showcase leading organizations and share their ISO 50001 energy management successes, the EMWG organizes the Energy Management Leadership Awards.

To qualify for these awards, organizations prepare case studies to share a high-quality and replicable description of their ISO 50001 implementation and certification, resulting business benefits, and useful advice on lessons learned and keys to success.

An independent panel of international energy management experts select the winners.

Four organizations receive the top honor, the Award of Excellence in Energy Management, at the eleventh Clean Energy Ministerial (CEM11):

- CTBC Financial Holding Co., Ltd.,
- JK Tyre & Industries Ltd.,
- PT Indofood CBP Sukses Makmur Tbk. Noodle Division, and
- Tipperary Co-Operative Creamery Limited.

Another 42 organizations received Energy Management Insight Awards for helping to build global insight on the benefits of energy management systems.

This booklet highlights the business benefits achieved by the awardees through use of ISO 50001 (currency for cost savings are listed in United States dollars). All awardees are listed on page 5, and at the end of the booklet, awardees are listed by country and by sector.

Clean Energy Ministerial

The Clean Energy Ministerial (CEM) is a high-level international forum that promotes policies and programs to advance clean energy.

Through the EMWG, government officials worldwide share best practices and leverage their collective expertise to accelerate the use of EnMS in industry and commercial buildings.

Governments participating in the EMWG include Argentina, Australia, Canada, Chile, China, Denmark, the European Commission, Germany, India, Indonesia, Japan, Mexico, Republic of Korea, Saudi Arabia, South Africa, United Arab Emirates, and the United States. The EMWG was launched in 2010 by the CEM and International Partnership for Energy Efficiency Cooperation.

ISO 50001 is a framework to help organizations of all sizes and in diverse sectors continually improve their energy performance and reduce emissions.

Why ISO 50001?

Countries and organizations are looking for strategies to reduce energy and carbon emissions. A strategic approach to energy management has demonstrated value. Energy efficiency is the least expensive, most quickly deployable, and cleanest of all energy resources.

ISO 50001 Energy management systems – Requirements with guidance for use (or simply “ISO 50001”) is the international energy management standard that represents the efforts of over 50 countries from around the world to develop an international best practice to help organizations better manage energy.

Leading organizations around the world are achieving their energy and carbon reduction goals using the global ISO 50001 standard for energy management systems. These organizations are proving the business value of ISO 50001 and paving the way for its broad implementation.

The CEM Energy Management Leadership Awards highlight the clear energy, environmental, and business benefits achieved by the diverse types of organizations that invest in energy efficiency.

More than 75 percent of the 2020 class of awardees are in the industrial sector, 17 percent are in the commercial sector, and the remainder are in the public sector (municipality, airport, and school). The majority of the 2020 awardees represent a single facility, but 28 percent have leveraged their energy management expertise across multiple facilities to multiply their savings.

Collectively, all 46 of the 2020 winners (representing 368 facilities in 14 countries) report annual energy cost savings of up to USD 37 million and emissions reductions of up to 452,000 metric tons of carbon dioxide—the equivalent of taking 95,000 passenger vehicles off the road.

CEM 2020 AWARDS OF EXCELLENCE IN ENERGY MANAGEMENT

CTBC Financial Holding Co., Ltd.
Taiwan, China (194 sites)

JK Tyre & Industries Ltd.
India: Mysuru

PT Indofood CBP Sukses Makmur Tbk. Noodle Division
Indonesia: Bandung; Pasuruan; Semarang

Tipperary Co-Operative Creamery Limited
Ireland: Tipperary

CEM 2020 ENERGY MANAGEMENT INSIGHT AWARDS

Anqiu Shanshui Cement Co., Ltd.
China: Weifang City

Astarta-Kyiv
Ukraine: Novovorzhyske

Audi México S.A. de C.V.
Mexico: San Jose Chiapa

CAP Acero Compañía Siderúrgica Huachipato S.A.
Chile: Talcahuano

Chery Automobile Co., Ltd.
China (5 sites): Dalian; Ordos; Wuhu (3)

CITIC Heavy Industries Co., Ltd.
China: Henan Province

Clínica Santa María SpA.
Chile: Providencia

Coca-Cola European Partners Portugal Unipessoal Lda
Portugal: Setubal

Dubai Municipality
United Arab Emirates (3 sites): Dubai (3)

ENOC Retail LLC
United Arab Emirates (22 sites): Dubai (22)

Far East Composite Technology Co., Ltd.
China: Yixing City



Far EasTone Telecommunications Co., Ltd.
Taiwan, China (11 sites): Kaohsiung City (2); New Taipei City (3); Taichung City; Taipei City (5)

FCA Automobiles Argentina S.A.
Argentina: Ferreyra

General Motors - Omnibus BB del Ecuador
Ecuador (6 sites): Quito (6)

Grupo Liguria/Quimica Rhenium
Chile: Santiago

Guangzhou Baiyun International Airport co. Ltd.
China: Guangzhou

Hainan Airlines Holding Co., Ltd.
China (2 sites): Haikou (2)

Hindalco Industries Limited
India: Sambalpur

Hospital Israelita Albert Einstein - Unidade Morumbi
Brazil: São Paulo

Huixian Shanshui Cement Limited Company
China: Huixian City

JSW Steel Coated Products Limited
India (2 sites): Tarapur; Vasind

Linqu Shanshui Cement Co., Ltd.
China: Weifang

Mall Plaza
Chile (2 sites): Región de Arica y Parinotoca; Región Metropolitana

Mastellone Hnos S.A.
Argentina (4 sites): General Rodríguez (2); Salliqueló; Trenque Lauquen

MOPCO - Misr Fertilizers Production Company
Egypt: Damietta

National Central Cooling Company (Tabreed)
United Arab Emirates (65 sites): Abu Dhabi (33); Ajman (2); Al Ain (8); Dubai (18); Fujairah City; Ras Al Khaimah; Sharjah (2)

Ningbo Hangzhou Bay New Zone Xiangyuan Energy Supply Co., Ltd.
China: Ningbo

PJSC Magnitogorsk Iron and Steel Works
Russia: Magnitogorsk City

PT Petrokimia Gresik
Indonesia: Gresik

PT Pembangkitan Jawa Bali Unit Bisnis Jasa Operation & Maintenance PLTU Indramayu
Indonesia: Indramayu

Raymond Limited
India: Chhindwara

Raymond Limited
India: Jalgaon



CEM 2020 ENERGY MANAGEMENT INSIGHT AWARDS
(CONTINUED)

Sichuan Lutianhua Co., Ltd.

China: Luzhou City

Sinopec Zhenhai Refining & Chemical Company

China: Ningbo

Southseas Oils & Fats Industrial (Chiwan) Co., Ltd.

China: Shenzhen

Suez Medioambiente Chile S.A.

Chile: Alhue

Tecnológico Nacional de México

Mexico (16 sites): Arandas; Chihuahua II; Conkal; Matamoros; Huichapan; Ixtapaluca; Lagos de Moreno; Lázaro Cárdenas; Valle de Morelia; Ciudad Guzmán; Nuevo Laredo; Orizaba; Pabellón de Arteaga; Santiago Papasquiaro; Tehuacán; Tierra Blanca

Tianjin Guodian Jinneng Co-generation Co., Ltd.

China: Tianjin

Verallia Argentina - Rayen Cura SAIC

Argentina: Guaymallén

YPF Energía Eléctrica S.A. (YPF LUZ)

Argentina (3 sites): Añelo; El Bracho; Ensenada

YPF Tecnología S.A.

Argentina: Berisso

Zaozhuang Chuangxin Shanshui Cement Co., Ltd.

China: Zaozhuang City

CEM Energy Management Leadership Awards

Congratulations to the 2020 Award Recipients!



CTBC BANK



Indofood CBP



中国石化
SINOPEC

wilmar

suez



FCA
FIAT CHRYSLER AUTOMOBILES

mallplaza

Clínica Santa María
Especialistas en ti

Coca-Cola
EUROPEAN PARTNERS

CAP

verallia



ASTARTA-KYIV
agri-industrial holding

山水集团
SUNNSY SUNNSY GROUP

远东复合技术有限公司
Far East Composite Technology Co., Ltd.



FET

بلدية دبي
DUBAI MUNICIPALITY

INVERSIONES Y ASESORÍAS
LIGURIA S.A.
FABRICACIÓN DE PRODUCTOS QUÍMICOS

اينوك
ENOC

تبريد
tabreed

GM OBB
DEL ECUADOR

JSW

TECNM
TECNOLOGICO NACIONAL DE
MEXICO

BAIYUNPORT
白云国际机场股份

海南航空
HAINAN AIRLINES

ADITYA BIRLA
HINDALCO

HOSPITAL ISRAELITA
ALBERT EINSTEIN

国家能源集团
CHN ENERGY

MAGNITOGORSK
IRON & STEEL
WORKS



上汽大众
SAIC VOLKSWAGEN



PJB

Y-TEC
YPF TECNOLOGÍA

Audi

Raymond

YPF
LUZ

泸天化股份
LUTIANHUA SHARE



In 2020, the Clean Energy Ministerial honored four organizations with the Award of Excellence in Energy Management:

CTBC Financial Holding Co., Ltd.

CTBC Financial Holding Co. Ltd. pursued ISO 50001 and other ISO standards at its CTBC Bank headquarters in 2012, then certified 152 bank branches. Galvanized by the energy and environmental benefits achieved by CTBC Bank, other CTBC subsidiaries followed suit, with 194 sites eventually certified to ISO 50001. Over seven years, CTBC Holdings increased energy performance 16 percent and cut carbon emissions by 5,316 metric tons.

JK Tyre & Industries Ltd.

JK Tyre & Industries Ltd. adopted ISO 50001 at its Vikrant Tyre Plant in 2013 to help shrink its carbon footprint from fossil fuel use 70% by 2023—while increasing production. Over the past seven years, the plant has cut its emissions (CO2 equivalent) by more than 71 tons and reduced its energy costs by US \$1,888,262. The EnMS helped the plant establish strong internal and external communications and clearly define criteria for efficiently operating and maintaining all significant energy-using equipment to maintain and grow its savings.

PT Indofood CBP Sukses Makmur Tbk. Noodle Division

PT Indofood CBP (ICBP) Sukses Makmur Tbk. is a leading maker of instant noodles and the first such manufacturer in Southeast Asia to earn ISO 50001 certification. The ICBP Noodle Division's three certified facilities collectively reduced their energy use by 10.7% over three years—cutting energy costs by US \$830,400 and emissions by 25,526 metric tons (carbon dioxide equivalent). Leveraging a central approach to implementation, the company now plans to extend its EnMS to all 17 facilities in its Noodle Division.

Tipperary Co-Operative Creamery Limited

Tipperary Co-Operative Creamery Limited began setting up an EnMS in 2017 as part of its plan to become carbon neutral by 2030 and comply with Ireland's Energy Efficiency Directive. Over the two-year performance period, the company cut its energy costs by \$562,342 and its carbon-equivalent emissions by 2,918 metric tons. The company now sells the verified energy credits from these savings and reinvests the funds into more energy projects.

CTBC Financial Holding Co., Ltd.



ISO 50001 Certified:

194 sites in Taiwan, China

Cost savings: \$997,361 over 7 years

CO₂ reduction: 5,316 metric tons

JK Tyre & Industries Ltd.

ISO 50001 Certified:

Vikrant Tyre Plant

Cost savings: \$1,888,262 over 7 years

CO₂ reduction: 71,147 metric tons



PT Indofood CBP Sukses Makmur Tbk. Noodle Division



ISO 50001 Certified:

East Java Branch, West Java Branch,
& Central Java Branch

Cost savings: \$830,400 over 3 years
CO₂ reduction: 25,526 metric tons

Tipperary Co-Operative Creamery Limited

ISO 50001 Certified:

Tipperary Co-Operative Creamery
Limited

Cost savings: \$562,342 over 2 years

CO₂ reduction: 2,918 metric tons





In addition, 42 organizations received Energy Management Insight Awards in 2020 for helping to build global insight on the benefits of energy management systems in industrial, commercial, and public-sector facilities.

Anqiu Shanshui Cement Co., Ltd.

ISO 50001 Certified:

Anqiu Shanshui Cement Co., Ltd.

Cost savings: \$3,163,325.87 over 5 years

CO₂ reduction: 910,947.69 metric tons



Astarta-Kyiv



ISO 50001 Certified:

Novoorzhytskyi Sugar Plant LLC

Cost savings: \$258,621 over 4 years

CO₂ reduction: 1,727.87 metric tons

Audi México S.A. de C.V.

ISO 50001 Certified:

Audi México S.A. de C.V.

Cost savings: \$534,684.45 over 1 year

CO₂ reduction: 4,967.41 metric tons



CAP Acero Compañía Siderúrgica Huachipato S.A.



ISO 50001 Certified:

Huachipato

Cost savings: \$1,540,547 over 2.5 years

CO₂ reduction: 2,855 metric tons

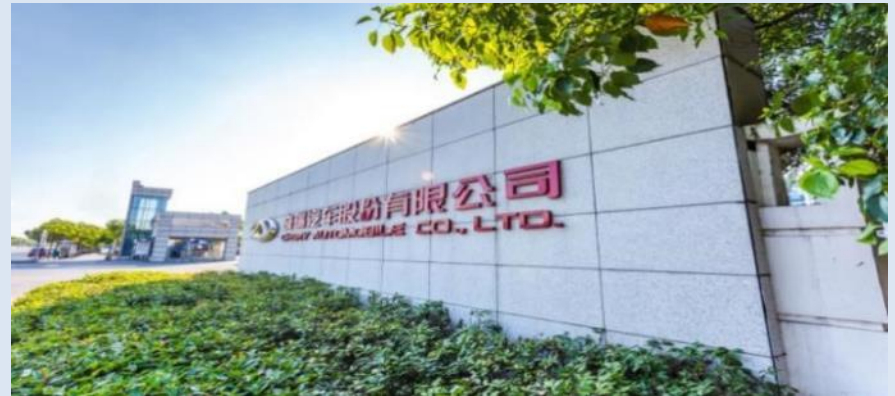
Chery Automobile Co., Ltd.

ISO 50001 Certified:

5 sites in China

Cost savings: \$1,455,000 over 1 year

CO₂ reduction: 3,700.33 metric tons



CITIC Heavy Industries Co., Ltd.



ISO 50001 Certified:

CITIC Heavy Industries Co., Ltd.

Cost savings: \$4.446 million over 1 year
CO₂ reduction: 18,395.7 metric tons

Clínica Santa María SpA.

ISO 50001 Certified:

Clínica Santa María

Cost savings: \$127,455 over 1 year

CO₂ reduction: 540 metric tons



Coca-Cola European Partners Portugal Unipessoal Lda



ISO 50001 Certified:

Coca-Cola European Partners
Portugal (portuguese plant)

Cost savings: \$2,873,000 over 6 years

CO₂ reduction: 13,909 metric tons

Dubai Municipality

ISO 50001 Certified:

Al Towar Centre, Manara Centre, &
Kiffaf Centre

Cost savings: \$599,413 over 8 years

CO₂ reduction: 2,954 metric tons



ENOC Retail LLC



ISO 50001 Certified:

22 sites in United Arab Emirates

Cost savings: \$522,055 over 3 years

CO₂ reduction: 2,216 metric tons

Far East Composite Technology Co., Ltd.

ISO 50001 Certified:

Far East Composite Technology Co., Ltd.

Cost Savings: \$6,900,000 over 6 years

CO₂ Reduction: 12,025 metric tons



Far EasTone Telecommunications Co., Ltd.



ISO 50001 Certified:

11 sites in Taiwan, China

Cost savings: \$2,700,000 over 9 years

CO₂ reduction: 6,900 metric tons

FCA Automobiles Argentina S.A.

ISO 50001 Certified:

FCA Automobiles Argentina S.A.

Cost savings: \$821,000 over 4 years

CO₂ reduction: 556 metric tons



General Motors - Omnibus BB del Ecuador



ISO 50001 Certified:

6 sites in Ecuador

Cost savings: \$302,839 over 1 year

CO₂ reduction: 1,698.4 metric tons

Grupo Liguria/Quimica Rhenium

ISO 50001 Certified:

Grupo Liguria/Quimica Rhenium

Cost savings: \$216,715 over 2 years

CO₂ reduction: 1,689 metric tons



Guangzhou Baiyun International Airport Co. Ltd.



ISO 50001 Certified:

Guangzhou Baiyun International
Airport Co. Ltd.

Cost savings: \$1,321,214.92 over 2 years
CO₂ reduction: 4,789.42 metric tons

Hainan Airlines Holding Co., Ltd.

ISO 50001 Certified:

HNA Plaza & Hainan Airlines Base

Cost savings: \$220 million over 6 years

CO₂ reduction: 926,000 metric tons



Hindalco Industries Limited



ISO 50001 Certified:

Hirakud Complex

Cost savings: \$14,882,056 over 4 years

CO₂ reduction: 240,873 metric tons

Hospital Israelita Albert Einstein

ISO 50001 Certified:

Unit Morumbi

Cost savings: \$395,896.6 over 1 year

CO₂ reduction: 159.6 metric tons



Huixian Shanshui Cement Limited Company



ISO 50001 Certified:

Huixian Shanshui Cement Limited
Company

Cost savings: \$726,086 over 3 years

CO₂ reduction: 222,207 metric tons

JSW Steel Coated Products Limited

ISO 50001 Certified:

Tarapur & Vasind

Cost savings: \$1,816,271 over 3 years
(Tarapur); \$1,808,571 over 3 years
(Vasind)

CO₂ reduction: 15,440 metric tons
(Tarapur); 7,978 metric tons (Vasind)



Linqu Shanshui Cement Co., Ltd.



ISO 50001 Certified:

Linqu Shanshui Cement Co., Ltd.

Cost savings: \$1,702,746 over 2 years

CO₂ reduction: 109,153.39 metric tons

Mall Plaza

ISO 50001 Certified:

Mall Plaza Arica & Mall Plaza Los Dominicos

Cost savings: \$201,092 over 1 year

CO₂ reduction: 1,331 metric tons



Mastellone Hnos. S.A.



ISO 50001 Certified:

4 sites in Argentina

Cost savings: \$550,000 over 3 years

CO₂ reduction: 4,677 metric tons

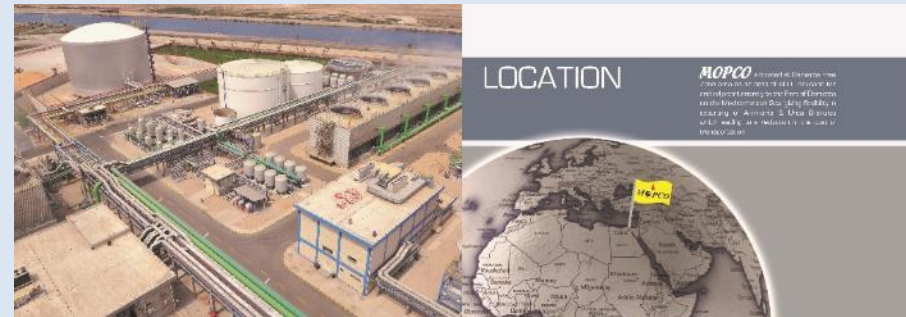
Misr Fertilizers Production Company

ISO 50001 Certified:

MOPCO

Cost savings: \$3.9 million over 4 years

CO₂ reduction: 212,614 metric tons



National Central Cooling Company (Tabreed)



ISO 50001 Certified:

65 sites in United Arab Emirates

Cost savings: \$1.1 million over 1 year

CO₂ reduction: 6,000 metric tons

Ningbo Hangzhou Bay New Zone Xiangyuan Energy Supply Co., Ltd.

ISO 50001 Certified:

SAIC Volkswagen Ningbo Branch
Energy Center

Cost savings: \$856,295 over 3 years

CO₂ reduction: 8,635 metric tons



PJSC Magnitogorsk Iron and Steel Works



ISO 50001 Certified:

MMK

Cost savings: \$40,410,460 over 4 years

CO₂ reduction: 1,809,205 metric tons

PT Pembangkitan Jawa Bali

ISO 50001 Certified:

Indramayu Coal Fired Power Plant

Cost savings: \$46,110,418.91 over 5 years

CO₂ reduction: 474,016.62 metric tons



PT Petrokimia Gresik



ISO 50001 Certified:

Plant 1A

Cost savings: \$3,261,914 over 1 year

CO₂ reduction: 46,583 metric tons

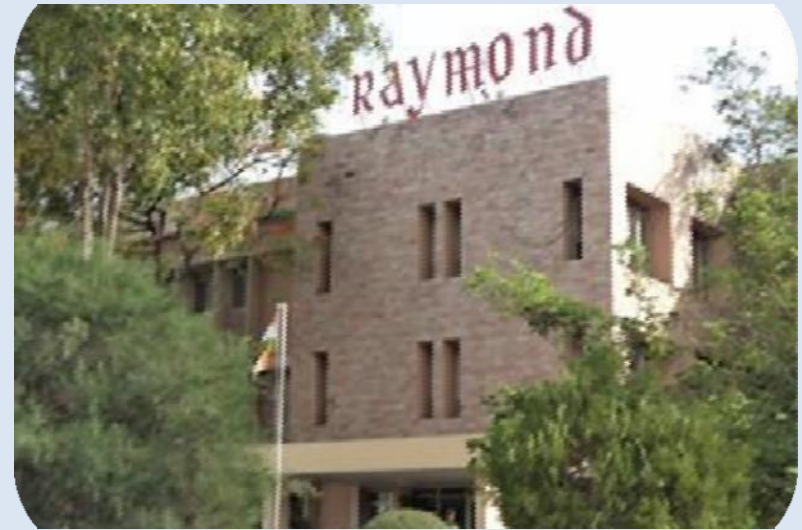
Raymond Limited

ISO 50001 Certified:

Chhindwara

Cost savings: \$312,274 over 3 years

CO₂ reduction: 4,788.69 metric tons



Raymond Limited



ISO 50001 Certified:

Jalgaon

Cost savings: \$392,194 over 4 years

CO₂ reduction: 3,159.75 metric tons

Sichuan Lutianhua Co., Ltd.

ISO 50001 Certified:

Sichuan Lutianhua Co., Ltd.

Cost savings: \$9,200,000 over 4 years

CO₂ reduction: 107,948 metric tons



Sinopec Zhenhai Refining & Chemical Company



ISO 50001 Certified:

Sinopec Zhenhai Refining &
Chemical Company

Cost savings: \$10,300,000 over 4 years

CO₂ reduction: 220,400 metric tons

Southseas Oils & Fats Industrial (Chiwan) Co., Ltd.

ISO 50001 Certified:

Southseas Oils & Fats Industrial
(Chiwan) Co., Ltd.

Cost savings: \$9,150,000 over 7 years

CO₂ reduction: 20,242.34 metric tons



Suez Medioambiente Chile S.A.



ISO 50001 Certified:

Planta de Abatimiento de Molibdeno
(PAMo)

Cost savings: \$4,931 over 1 year
CO₂ reduction: 13.2 metric tons

Tecnológico Nacional de México

ISO 50001 Certified:

16 sites in Mexico

Cost savings: \$22,410.35 over 2 years

CO₂ reduction: 1,815.71 metric tons



Tianjin Guodian Jinneng Co-generation Co., Ltd.



ISO 50001 Certified:

Tianjin Guodian Jinneng Co-generation Co., Ltd.

Cost savings: \$685,714 over 2 years
CO₂ reduction: 7,850.18 metric tons

Verallia Argentina - Rayen Cura SAIC

ISO 50001 Certified:

Verallia Argentina - Rayen Cura SAIC

Cost savings: \$319,489 over 3 years

CO₂ reduction: 1,027 metric tons



YPF Energía Eléctrica S.A. (YPF LUZ)



ISO 50001 Certified:

La Plata Cogeneración

Cost savings: \$6,837 over 1 year

CO₂ reduction: 1,407.83 metric tons

YPF Tecnología S.A.

ISO 50001 Certified:

Y-TEC

Cost savings: \$5,847.56 over 3 years

CO₂ reduction: .593 metric tons



Zaozhuang Chuangxin Shanshui Cement Co., Ltd.



ISO 50001 Certified:

Zaozhuang Chuangxin Shanshui
Cement Co., Ltd.

Cost savings: \$7 million over 1 year
CO₂ reduction: 247,267 metric tons

2020 Participating Organizations, by Sector

Airline

- Hainan Airlines Holding Co., Ltd.

Airport

- Guangzhou Baiyun International Airport Co. Ltd.

Aluminum Manufacturing

- Hindalco Industries Limited

Automotive & Parts Manufacturing

- Audi México S.A. de C.V.
- CITIC Heavy Industries Co., Ltd.
- FCA Automobiles Argentina S.A.
- General Motors - Omnibus BB del Ecuador

Cement Manufacturing

- Anqiu Shanshui Cement Co., Ltd.
- Linq Shanshui Cement Co., Ltd.
- Zaozhuang Chuangxin Shanshui Cement Co., Ltd.

Chemicals Manufacturing

- Grupo Liguria/Química Rhenium
- Sichuan Lutianhua Co., Ltd.

Commercial Cement

- Huixian Shanshui Cement Limited Company

District Cooling

- National Central Cooling Company (Tabreed)

Education

- Tecnológico Nacional de México

Fertilizer Manufacturing

- MOPCO - Misr Fertilizers Production Company
- PT Petrokimia Gresik

Financial Services

- CTBC Financial Holding Co., Ltd.

Food and Beverage Manufacturing

- Astarta-Kyiv
- Coca-Cola European Partners Portugal Unipessoal Lda
- Mastellone Hnos. S.A.
- PT Indofood CBP Sukses Makmur Tbk. Noodle Division
- Southseas Oils & Fats Industrial (Chiwan) Co., Ltd.
- Tipperary Co-Operative Creamery Limited

Glass Manufacturing

- Verallia Argentina - Rayen Cura SAIC

Healthcare

- Clínica Santa María SpA.
- Hospital Israelita Albert Einstein - Unidade Morumbi

Iron Steel and Fabricated Metals Manufacturing

- CAP Acero Compañía Siderúrgica Huachipato S.A.
- JSW Steel Coated Products Limited
- PJSC Magnitogorsk Iron and Steel Works

Machinery Manufacturing

- Chery Automobile Co., Ltd.

Mining and Minerals

- Suez Medioambiente Chile S.A.

Municipality

- Dubai Municipality

Oil & Gas

- ENOC Retail LLC

Petrochemical

- Sinopec Zhenhai Refining & Chemical Company

Power Generation

- Ningbo Hangzhou Bay New Zone Xiangyuan Energy Supply Co., Ltd.
- PT Pembangkitan Jawa Bali Unit Bisnis Jasa Operation & Maintenance PLTU Indramayu
- Tianjin Guodian Jinneng Co-generation Co., Ltd.
- YPF Energía Eléctrica S.A. (YPF LUZ)

Retail

- Mall Plaza

Rubber Manufacturing

- JK Tyre & Industries Ltd.

Technology Manufacturing

- Far East Composite Technology Co., Ltd.
- YPF Tecnología S.A.

Telecommunications

- Far EasTone Telecommunications Co., Ltd.

Textile Manufacturing

- Raymond Limited, Chhindwara
- Raymond Limited, Jalgaon

2020 Participating Organizations, by Country/Region

Argentina

FCA Automobiles Argentina S.A., Ferreyra, Cordoba Province

Mastellone Hnos. S.A., General Rodríguez, Buenos Aires; Salliqueló, Buenos Aires; Trenque Lauquen, Buenos Aires

Verallia Argentina - Rayen Cura SAIC, Guaymallén, Mendoza Province

YPF Energía Eléctrica S.A. (YPF LUZ), Añelo, Neuquén; El Bracho, Tucumán; Ensenada, Buenos Aires

YPF Tecnología S.A., Berisso, Buenos Aires

Brazil

Hospital Israelita Albert Einstein - Unidade Morumbi, São Paulo, São Paulo

Chile

CAP Acero Compañía Siderúrgica Huachipato S.A., Talcahuano, Biobío Region

Clínica Santa María SpA., Providencia, Santiago

Grupo Liguria/Química Rhenium, Santiago, Santiago Province

Mall Plaza, Arica, Región de Arica y Parinotoca; Las Condes, Región Metropolitana

Suez Medioambiente Chile S.A., Alhue, Región Metropolitana

China

Anqiu Shanshui Cement Co., Ltd., Weifang City, Shandong Province

Chery Automobile Co., Ltd., Dalian, Liaoning; Ordos, Inner Mongolia; Wuhu, Anhui

CITIC Heavy Industries Co., Ltd., Luoyang City, Henan Province

Far East Composite Technology Co., Ltd., Yixing City, Jiangsu Province

Guangzhou Baiyun International Airport Co. Ltd., Guangzhou, Guangdong

Hainan Airlines Holding Co., Ltd., Haikou, Hainan

Huixian Shanshui Cement Limited Company, Huixian City, Henan Province

Linqu Shanshui Cement Co., Ltd., Weifang, Shandong Province

Ningbo Hangzhou Bay New Zone Xiangyuan Energy Supply Co., Ltd., Ningbo, Zhejiang

Sichuan Lutianhua Co., Ltd., Luzhou City, Sichuan Province

Sinopec Zhenhai Refining & Chemical Company, Ningbo, Zhejiang

Southseas Oils & Fats Industrial (Chiwan) Co., Ltd., Shenzhen, Guangdong

Tianjin Guodian Jinneng Co-generation Co., Ltd., Tianjin, Hebei Province

Zaozhuang Chuangxin Shanshui Cement Co., Ltd., Zaozhuang City, Shandong Province

Ecuador

General Motors - Omnibus BB del Ecuador, Quito, Pichincha

Egypt

MOPCO - Misr Fertilizers Production Company, Damietta, Damietta Governorate

India

Hindalco Industries Limited, Sambalpur, Odisha

JK Tyre & Industries Ltd., Mysuru, Karnataka

JSW Steel Coated Products Limited, Vasind, Maharashtra; Tarapur, Maharashtra

Raymond Limited, Chhindwara, Chhindwara, Madhya Pradesh

Raymond Limited, Jalgaon, Jalgaon, Maharashtra

Indonesia

PT Indofood CBP Sukses Makmur Tbk. Noodle Division, Bandung, West Java; Pasuruan, East Java; Semarang, Central Java

PT Pembangunan Jawa Bali Unit Bisnis Jasa Operation & Maintenance PLTU Indramayu, Indramayu, West Java

PT Petrokimia Gresik, Gresik, East Java

Ireland

Tipperary Co-Operative Creamery Limited, Tipperary, Munster

Mexico

Audi México S.A. de C.V., San Jose Chiapa, Puebla

Tecnológico Nacional de México, Arandas, Jalisco; Chihuahua II, Chihuahua; Conkal, Yucatán; Matamoros, Tamaulipas; Huichapan, Hidalgo; Ixtapaluca, Estado de México; Lagos de Moreno, Jalisco; Lázaro Cárdenas, Michoacán; Valle de Morelia, Michoacán; Ciudad Guzmán, Jalisco; Nuevo Laredo, Tamaulipas; Orizaba, Veracruz; Pabellón de Arteaga, Aguascalientes; Santiago Papasquiaro, Durango; Tehuacán, Puebla; Tierra Blanca, Veracruz

Portugal

Coca-Cola European Partners Portugal Unipessoal Lda, Setúbal, Lisboa

Russia

PJSC Magnitogorsk Iron and Steel Works, Magnitogorsk, Chelyabinsk Oblast

Taiwan, China

CTBC Financial Holding Co., Ltd.*, 194 sites

Far EasTone Telecommunications Co., Ltd., Kaohsiung City; New Taipei City; Taichung City; Taipei City

United Arab Emirates

Dubai Municipality, Dubai, Emirate of Dubai

ENOC Retail LLC, Dubai, Emirate of Dubai

National Central Cooling Company (Tabreed), Abu Dhabi, Emirate of Abu Dhabi; Ajman, Emirate of Ajman; Al Ain, Emirate of Abu Dhabi; Dubai, Emirate of Dubai; Fujairah City, Emirate of Fujairah; Ras Al Khaimah, Emirate of Ras Al Khaimah; Sharjah, Emirate of Sharjah

Ukraine

Astarta-Kyiv, Novovorzhyske, Orzhysky District

Clean Energy Ministerial

Energy Management Working Group (EMWG)

www.cleanenergyministerial.org/EnergyManagement