



Global ISO 50001 Achievements:

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

2018 ENERGY MANAGEMENT LEADERSHIP AWARDS



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In 2018, 50 organizations across 103 countries/economies 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 experts select the winners.

In 2018, 50 organizations across 103 countries received global recognition.

In late May, three organizations will receive the top honor, the Award of Excellence in Energy Management, at the ninth Clean Energy Ministerial (CEM9) in Copenhagen, Denmark:

- An Garda Síochána (Ireland)
- PJSC "Magnitogorsk Iron & Steel Works" (Russia), and
- PT PJB Gresik Power Plant (Indonesia).

Another 47 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. All awardees are listed on the next page, 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, Finland, Germany, India, Indonesia, Japan, Mexico, the Republic of Korea, Saudi Arabia, South Africa, Sweden, United Arab Emirates, and the United States. The EMWG was launched in 2010 by the CEM and International Partnership for Energy Efficiency Cooperation.

www.cleanenergyministerial.org/initiative-clean-energy-ministerial/energy-management-working-group

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 was published in June 2011, and represents the effort 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 early adopters are proving the business value of ISO 50001 and paving the way for its broad implementation.

The CEM Energy Management Leadership Awards highlight the strong business benefits realized when organizations of all sizes and in diverse sectors invest in energy efficiency. The 2018 class of awardees represents several sectors new to the competition, such as clay building material and refractories manufacturing, defense, educational services, electricity regulation, hospitality, information technology, machinery manufacturing, public transportation, and shipping ports.

This expansion reflects the growing use of the global ISO 50001 energy management system standard, across sectors and around the globe.

Collectively, the 2018 award recipients reported energy cost savings of up to USD \$383 million and annual greenhouse gas emission reductions of up to 4.3 million metric tons of CO₂, which is equivalent to taking 919,000 passenger vehicles off the road per year.

CEM 2018 AWARDS OF EXCELLENCE IN ENERGY MANAGEMENT

An Garda Síochána

Ireland (3 sites): Dublin (2); Tipperary

PJSC "Magnitogorsk Iron & Steel Works" (MMK)

Russia: Magnitogorsk

PT PJB Gresik Power Plant

Indonesia (3 sites): Gresik (3)

CEM 2018 ENERGY MANAGEMENT INSIGHT AWARDS

ABB S.A.

Argentina: Valentín Alsina

Abu Dhabi City Municipality

United Arab Emirates: Abu Dhabi

Aguas Andinas

Chile (2 sites): Santiago (2)

Allied Irish Bank

Ireland (5 sites): Dublin (5)

Banco de Crédito e Inversiones

Chile: Santiago

Beijing Capital International Airport Co., Ltd.

China: Beijing

Bharat Aluminum Company Limited

India: Korba

China National Heavy Duty Truck Group Co., Ltd.

China (16 sites): Chengdu; Chongqing; Datong; Hangzhou; Jinan (10); Jining; Yongan

CMPC Pulp

Chile (3 sites): Collipulli, Laja, Nacimiento

Dubai Municipality

United Arab Emirates: Dubai

Dublin City University

Ireland (5 sites): Dublin (5)

El Araby Company for Trading and Manufacturing

Egypt: Benha

Empresa Nacional del Petróleo (ENAP)

Chile (5 sites): Concón; Hualpén; Punta Arenas (2); Santiago

General Motors Ómnibus BB Transportes S.A.

Ecuador (7 sites): Quito (7)

Google

Belgium: St. Ghislain

Finland: Hamina

Ireland: Dublin

Singapore: Singapore

Taiwan: Changhua County

United States of America (8 sites): Berkeley County, SC; Council Bluffs, IA (2); Douglas County, GA; Lenoir, NC; Mayes County, OK; Mountain View, CA; The Dalles, OR

Grasim Industries Limited

India: Veraval

Grupo Newsan

Argentina (2 sites): Ushuaia (2)

Hilton

Worldwide in 103 countries (over 5,100 properties)

JK Cement Ltd.

India: Chittorgarh

JW Marriott

United States of America: Washington, D.C.

Kangwon Land

Republic of Korea: Gangwon-do

L&T MHPS Turbine Generators Pvt. Ltd

India: Surat

LG Display

Republic of Korea (2 sites): Gumi; Paju

LG Electronics Inc., Cheongju Plant

Republic of Korea: Cheongju-si

LG Electronics Inc., Gasan R&D Campus

Republic of Korea: Seoul

LG Electronics Inc., LG Digital Park

Republic of Korea: Pyeongtaek-si

LG Innotek Co., Ltd.

Republic of Korea (2 sites): Gumi (2)

Makstil AD

Republic of Macedonia (2 sites): Skopje (2)

MAS KREEDA Intimo

Sri Lanka: Biyagama

Mastellone Hnos. S.A.

Argentina (2 sites): General Rodríguez (2)

Misr Fertilizers Production Company (MOPCO)

Egypt: Damietta

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CEM 2018 ENERGY MANAGEMENT INSIGHT AWARDS (Continued)

Municipality of Sovizzo

Italy: Sovizzo

Nissan North America, Inc.

*United States of America (3 sites): Canton, MS;
Decherd, TN; Smyrna, TN*

Oleoductos del Valle S.A. (OLDELVAL)

Argentina: Cipolletti

Pacific (Panyu) Textiles Limited

China: Guangzhou

Provincial Electricity Regulation Entity (EPRE)

Argentina: Mendoza

PT Pupuk Kalimantan Timur (PUPUK KALTIM)

Indonesia: Bontang

PT. Cheil Jedang Indonesia

Indonesia: Pasuruan

PT. Pembangunan Jawa-Bali Paiton

Indonesia: Probolinggo

Puerto Ventanas S.A.

Chile: Puchuncaví

Raymond Limited

India: Vapi

Roads and Transport Authority Dubai (RTA)

United Arab Emirates: Dubai

SIN PAR S.A.

Argentina: Quilmes

Sungshin Cement Co., Ltd.

Republic of Korea: Danyang-Gun

Vardar Dolomit Doel

Republic of Macedonia: Gostivar

Viña Cono Sur

Chile: Chimbarongo

Zhilkomservice

Russia: Naberezhnye Chelny

PARTICIPATING ORGANIZATIONS





CEM Award of Excellence in Energy Management

In 2018, three organizations earned the top honor, the Award of Excellence in Energy Management:

An Garda Síochána

3 sites in Ireland

An Garda Síochána is the first national police force in the world to achieve ISO 50001 certification. Using an ISO 50001-certified energy management system across its Transport Fleet and at two of its largest sites, Garda Headquarters and Garda College, the agency saved US \$11.3 million and reduced its CO₂ emissions by 70,340 metric tons over eight years.

PJSC "Magnitogorsk Iron & Steel Works"

1 site in Russia

MMK, a steel producer and metallurgical company, established an ISO 50001 energy management system that delivers US \$20.5 million in annual savings with no financial investment. Overall, site savings over three years total US \$38.6 million, reducing CO₂ emissions by 698,186 metric tons.

PT PJB Gresik Power Plant

3 sites in Indonesia

The PT PJB Gresik Power Plant operates a combined cycle power plant and four units of steam power plants to supply electricity to East Java. The facility implemented ISO 50001 to achieve government and internal goals; it saved US \$9.69 million and reduced CO₂ emissions by 2.72 million metric tons over three years.

An Garda Síochána



ISO 50001 Certified:

3 sites: Garda Transport Fleet, Garda Headquarters & and Garda College

Cost savings: \$11.3 million over 8 years

CO₂ reduction: 70,340 metric tons

Payback period: ~4 months

PJSC "Magnitogorsk Iron & Steel Works"

ISO 50001 Certified:

Magnitogorsk Iron & Steel Works

Cost savings: \$38.6 million over 3 years

CO₂ reduction: 698,186 metric tons

Payback period: >1 month



PT PJB Gresik Power Plant



ISO 50001 Certified:

3 sites in Indonesia

Cost savings: \$9.69 million over 3 years

CO₂ reduction: 2.72 million metric tons

Payback period: ~9 months



In addition, 47 organizations received Energy Management Insight Awards in 2018 for helping to build global insight on the benefits of energy management systems in industrial and commercial facilities.

ABB S.A.

ISO 50001 Certified:

ABB Buenos Aires

Cost savings: \$55,000 over 5 years

CO₂ reduction: 894 metric tons

Payback period: 2.2 years



Abu Dhabi City Municipality



ISO 50001 Certified:

Abu Dhabi Municipality Buildings

Cost savings: \$86,398 over 1 year

CO₂ reduction: 354,443 metric tons

Payback period: <10 months

Aguas Andinas

ISO 50001 Certified:

Mapocho Trebal & La Farfana

Cost savings: \$1 million over 5 years

CO₂ reduction: 5,000 metric tons

Payback period: 1.7 years



Allied Irish Bank



ISO 50001 Certified:

1 Bank Center & 4 Head Offices

Cost savings: ~\$1.6 over 4 years

CO₂ reduction: 9,015 metric tons

Payback period: ~7 months

Banco de Crédito e Inversiones

ISO 50001 Certified:

Edificio Corporativo

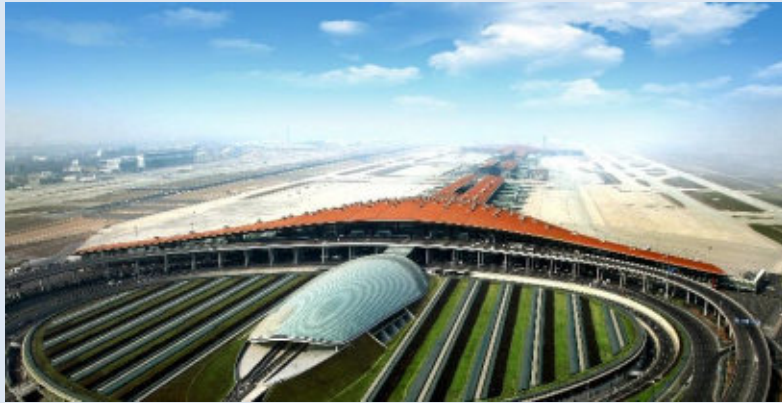
Cost savings: \$7,640 over 1 year

CO₂ reduction: 25 metric tons

Payback period: 5.8 years



Beijing Capital International Airport Co., Ltd.



ISO 50001 Certified:

Beijing Capital International Airport

Cost savings: \$9.3 million over 3 years

CO₂ reduction: 43,225 metric tons

Payback period: ~10 months

Bharat Aluminum Company Limited (BALCO)

ISO 50001 Certified:

BALCO

Cost savings: ~\$7.32 million over 3 years

CO₂ reduction: 114,264 metric tons

Payback period: 3 months



China National Heavy Duty Truck Group Co., Ltd.



ISO 50001 Certified:

16 sites in China

Cost savings: \$59.1 million over 4 years

CO₂ reduction: 99,600 metric tons

Payback period: 1.2 years

CMPC Pulp

ISO 50001 Certified:

Laja Plant, Pacifico & Santa Fe

Cost savings: \$40.2 million over 4 years

CO₂ reduction: 198,000 metric tons

Payback period: 1.3 years



Dubai Municipality



ISO 50001 Certified:

Al Tawar Centre

Cost savings: \$423,652 over 6 years

CO₂ reduction: 2,087.2 metric tons

Payback period: 5 months

Dublin City University

ISO 50001 Certified:

5 campuses

Cost Savings: >\$10 million over 11 years

CO₂ Reduction: 50,000 metric tons

Payback Period: <1 year



El Araby Company for Trading and Manufacturing



ISO 50001 Certified:

El Araby Company for Trading and Manufacturing

Cost savings: \$1.7 million over 3 years

CO₂ reduction: 7,901 metric tons

Payback period: 1.1 years

Empresa Nacional del Petróleo (ENAP)

ISO 50001 Certified:

5 sites in Chile

Cost savings: >\$15 million over 3 years

CO₂ reduction: 95,099 metric tons

Payback period: <3 months



General Motors Ómnibus BB Transportes S.A.



ISO 50001 Certified:

7 sites in Ecuador

Cost savings: \$617,626 over 5 years

CO₂ reduction: 20,463 metric tons

Payback period: <8 months

Google

ISO 50001 Certified:

HQ and 12 more sites across 6 countries

Cost savings: >\$1 billion

CO₂ reduction: 3.8 million metric tons
over 3 years

Payback period: <1 year



Grasim Industries Limited



ISO 50001 Certified:

Unit - Indian Rayon, Veraval

Cost savings: \$1.27 million over 2 years

CO₂ reduction: 2,318 metric tons

Payback period: ~1 year

Grupo Newsan

ISO 50001 Certified:

Planta 3-4, Planta 6-CLI

Cost savings: \$367,732 over 1 year

CO₂ reduction: 2,620 metric tons

Payback period: ~2 months



Hilton



ISO 50001 Certified:

Over 5,100 sites globally

Cost savings: \$783.7 million from 2008-2016

CO₂ reduction: 769,356 metric tons

Payback period: <1 year

JK Cement Ltd.

ISO 50001 Certified:

JK Cement Mangrol

Cost savings: ~\$3.36 million from FY 2016-2017

CO₂ reduction: 49,026 metric tons

Payback period: <5 months



JW Marriott



ISO 50001 Certified:

JW Marriott Washington DC

Cost savings: \$471,891 over 3 years

CO₂ reduction: 4,136 metric tons

Payback period: 7 years

Kangwon Land

ISO 50001 Certified:

Kangwon Land

Cost savings: \$400,000 over 1 year

CO₂ reduction: 2,002 metric tons

Payback period: 2.2 years



L&T MHPS Turbine Generators Pvt. Ltd



ISO 50001 Certified:

L&T MHPS Turbine Generators Pvt.
Ltd

Cost savings: \$1.93 million over 4 years

CO₂ reduction: 9,706 metric tons

Payback period: 6 months

LG Display

ISO 50001 Certified:

2 sites in Republic of Korea

Cost savings: ~\$11.77 million over 1 year

CO₂ reduction: 169,511 metric tons

Payback period: <5 months



LG Electronics Inc.



ISO 50001 Certified:

Cheongju Plant

Cost savings: \$328,000 over 1 year

CO₂ reduction: 722 metric tons

Payback period: 2.3 years

LG Electronics Inc.

ISO 50001 Certified:

Gasam R&D Campus

Cost savings: \$167,400 over 1 year

CO₂ reduction: 340 metric tons

Payback period: 4.51 years



LG Electronics Inc.



ISO 50001 Certified:

LG Digital Park

Cost savings: \$712,878 over 2 years

CO₂ reduction: 2,502 metric tons

Payback period: 2.6 years

LG Innotek Co., Ltd.

ISO 50001 Certified:

2 sites in Republic of Korea

Cost savings: \$1.15 billion over 3 years

CO₂ reduction: 3,236 metric tons

Payback period: <6 months



Makstil AD



ISO 50001 Certified:

2 sites in Republic of Macedonia

Cost savings: \$200,000 over 2 years

CO₂ reduction: 2,424 metric tons

Payback period: <4 months

MAS KREEDA Intimo

ISO 50001 Certified:

MAS KREEDA Intimo

Cost savings: \$34,522 over 1 year

CO₂ reduction: 817 metric tons

Payback period: 9 months



Mastellone Hnos. S.A.



ISO 50001 Certified:

2 sites in Argentina

Cost savings: \$65,658 over 1 year

CO₂ reduction: 263 metric tons

Payback period: <8 months

Misr Fertilizers Production Company (MOPCO)

ISO 50001 Certified:

MOPCO

Cost savings: \$5.4 million over 2 years

CO₂ reduction: 125,844 metric tons

Payback period: <4 months



Municipality of Sovizzo



ISO 50001 Certified:

Municipality of Sovizzo property management

Cost savings: \$96,251 over 4 years

CO₂ reduction: 146.5 metric tons

Payback period: 3.7 years

Nissan North America, Inc.

ISO 50001 Certified:

3 sites in United States

Cost savings: \$9.42 million over 3 years

CO₂ reduction: 132,199 metric tons

Payback period: <1 month



Oleoductos del Valle S.A. (OLDELVAL)



ISO 50001 Certified:
OLDELVAL

Cost savings: \$585,846 over 1 year

CO2 reduction: 5,342 metric tons

Payback period: <2 months

Pacific (Panyu) Textiles Limited

ISO 50001 Certified:

Panyu

Cost savings: \$4.89 million from 2011-2015

CO₂ reduction: 108,902 metric tons

Payback period: <10 months



Provincial Electricity Regulation Entity (EPRE)



ISO 50001 Certified:

EPRE Main Office

Cost savings: \$3,500 over 3 years

CO₂ reduction: 18 metric tons

Payback period: 3.55 years

PT Pupuk Kalimantan Timur (PUPUK KALTIM)

ISO 50001 Certified:

PKT-3 Plant

Cost savings: \$641,142 over 1 year

CO₂ reduction: 8,608 metric tons

Payback period: <7 months



PT. Cheil Jedang Indonesia



ISO 50001 Certified:

Pasuruan Plant

Cost savings: \$10.75 million over 3 years

CO₂ reduction: 61,053 metric tons

Payback period: <3 months

PT. Pembangunan Jawa-Bali Paiton

ISO 50001 Certified:

PT PJB Paiton

Cost savings: \$32 million over 5 years

CO₂ reduction: 3.32 million metric tons

Payback period: 3 months



Puerto Ventanas S.A.



ISO 50001 Certified:

Puerto Ventanas S.A.

Cost savings: \$136,084 over 4 years

CO₂ reduction: 511 metric tons

Payback period: <1 year

Raymond Limited

ISO 50001 Certified:

Vapi Unit

Cost savings: \$671,142 over 1 year

CO₂ reduction: 4,137 metric tons

Payback period: <6 months



Roads and Transport Authority Dubai (RTA)



ISO 50001 Certified:

RTA Dubai

Cost savings: \$12.2 million over 4 years

CO₂ reduction: 81,362 metric tons

Payback period: ~3 months

SIN PAR S.A.

ISO 50001 Certified:

Conesa 10/21

Cost Savings: \$8,400 over 1 year

CO₂ Reduction: 253 metric tons

Payback Period: 1.1 years



Sungshin Cement Co., Ltd.



ISO 50001 Certified:

Danyang Plant

Cost savings: >\$7.66 million over 3 years

CO₂ reduction: 59,245 metric tons

Payback period: 1.3 years

Vardar Dolomit Dooel

ISO 50001 Certified:

Dolomite Production Facility

Cost savings: \$68,375 over 1 year

CO₂ reduction: 125,000 metric tons

Payback period: ~3 months



Viña Cono Sur



ISO 50001 Certified:

Fundo Santa Elisa

Cost savings: \$21,070 over 3 years

CO₂ reduction: 71.78 metric tons

Payback period: 2.4 years

Zhilkomservice

ISO 50001 Certified:

Zhilkomservice

Cost savings: \$1.16 million over 2 years

CO₂ reduction: 32,400 metric tons

Payback period: <1 month



2018 Participating Organizations, by Sector

Aluminum Manufacturing

- Bharat Aluminum Company Limited

Automotive & Parts Manufacturing

- China National Heavy Duty Truck Group Co., Ltd.
- Nissan North America, Inc.
- General Motors Ómnibus BB Transportes S.A.

Cement Manufacturing

- JK Cement Ltd.
- Sungshin Cement Co., Ltd.

Chemicals Manufacturing

- Misr Fertilizers Production Company (MOPCO)
- PT Pupuk Kalimantan Timur (PUPUK KALTIM)
- PT. Cheil Jedang Indonesia

Clay Building Material and Refractories Manufacturing

- Vardar Dolomit Doel

Defense

- An Garda Síochána

Educational Services

- Dublin City University

Electrical Equipment Manufacturing

- ABB S.A.
- El Araby Company for Trading and Manufacturing
- Grupo Newsan
- LG Display
- LG Electronics Inc., Cheongju Plant
- LG Electronics Inc., Gasan R&D Campus
- LG Electronics Inc., LG Digital Park
- LG Innotek Co., Ltd.

Electricity Regulation

- Provincial Electricity Regulation Entity (EPRE)

Financial Services

- Allied Irish Bank
- Banco de Crédito e Inversiones

Food and Beverage Manufacturing

- Mastellone Hnos. S.A.
- Viña Cono Sur

Hospitality

- Hilton
- JW Marriott
- Kangwon Land

Information Technology

- Google

Insurance and Property Management

- Zhilkomservice

Iron Steel and Fabricated Metals Manufacturing

- Makstil AD
- PJSC "Magnitogorsk Iron & Steel Works" (PJSC "MMK")

Machinery Manufacturing

- L&T MHPS Turbine Generators Pvt. Ltd
- SIN PAR S.A.

Manufacturing (General)

- Grasim Industries Limited

Municipality

- Abu Dhabi City Municipality
- Dubai Municipality
- Municipality of Sovizzo

Oil and Gas Production

- Empresa Nacional del Petróleo (ENAP)
- Oleoductos del Valle S.A. (OLDELVAL)

Power Generation

- PT. Pembangkitan Jawa-Bali Paiton
- PT PJB Gresik Power Plant

Public Transportation

- Beijing Capital International Airport Co., Ltd.
- Roads and Transport Authority Dubai (RTA)

Pulp and Paper Manufacturing

- CMPC Pulp

Shipping Ports

- Puerto Ventanas S.A.

Textiles Manufacturing

- MAS KREEDA Intimo
- Pacific (Panyu) Textiles Limited
- Raymond Limited

Water and Wastewater

- Aguas Andinas

2018 Participating Organizations, by Country/Economy

Argentina

ABB S.A., Valentín Alsina, Buenos Aires

Grupo Newsan, Ushuaia, Tierra del Fuego

Hilton*, 3 sites

Mastellone Hnos. S.A., General Rodríguez, Buenos Aires

Oleoductos del Valle S.A. (OLDELVAL), Cipolletti, Río Negro

Provincial Electricity Regulation Entity (EPRE), Mendoza, Mendoza Province

SIN PAR S.A., Quilmes, Buenos Aires

Armenia

Hilton*, 1 site

Aruba

Hilton*, 1 site

Australia

Hilton*, 14 sites

Austria

Hilton*, 4 sites

Azerbaijan

Hilton*, 1 site

Bahamas

Hilton*, 2 sites

Barbados

Hilton*, 1 site

Belarus

Hilton*, 2 sites

Belgium

Google*, Saint-Ghislain, Hainaut

Hilton*, 4 sites

Belize

Hilton*, 1 site

Hilton*, 1 site

Brazil

Hilton*, 5 sites

Bulgaria

Hilton*, 2 sites

Cameroon

Hilton*, 1 site

Canada

Hilton*, 125 sites

Cape Verde

Hilton*, 1 site

Chad

Hilton*, 1 site

Chile

Aguas Andinas, Santiago, Santiago Province

Banco de Crédito e Inversiones, Santiago, Santiago Province

CMPC Pulp, Collipulli, Malleco; Laja, Bío Bío; Nacimiento, Bío Bío

Empresa Nacional del Petróleo (ENAP), Concón, Valparaíso; Hualpén, Concepción; Punta Arenas, Magallanes; Santiago, Santiago Province

Hilton*, 3 sites

Puerto Ventanas S.A., Puchuncaví, Valparaíso

Viña Cono Sur, Chimbarongo, Colchagua

China

Beijing Capital International Airport Co., Ltd., Beijing, Beijing Municipality

China National Heavy Duty Truck Group Co., Ltd., Chengdu, Sichuan; Chongqing, Chongqing Municipality; Datong, Shanxi; Hangzhou, Zhejiang; Jinan, Shandong; Jining, Shandong; Yongan, Fujian

Hilton*, 126 sites

Pacific (Panyu) Textiles Limited, Guangzhou, Guangdong

Colombia

Hilton*, 16 sites

Costa Rica

Hilton*, 5 sites

Croatia

Hilton*, 2 sites

Curacao

Hilton*, 1 site

Cyprus

Hilton*, 2 sites

Czech Republic

Hilton*, 2 sites

Dominican Republic

Hilton*, 2 sites

Ecuador

General Motors Ómnibus BB Transportes S.A., Quito, Pichincha

Hilton*, 2 sites

Egypt

El Araby Company for Trading and Manufacturing, Benha, Qalyubia

Hilton*, 15 sites

Misr Fertilizers Production Company (MOPCO), Damietta, Damietta Governorate

Equatorial Guinea

Hilton*, 1 site

Estonia

Hilton*, 1 site

Ethiopia

Hilton*, 1 site

Fiji

Hilton*, 2 sites

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2018 Participating Organizations, by Country/Economy (continued)

Finland

Google*, Hamina, Kymenlaakso

Hilton*, 3 sites

France

Hilton*, 8 sites

French Polynesia

Hilton*, 2 sites

Georgia

Hilton*, 1 site

Germany

Hilton*, 24 sites

Greece

Hilton*, 1 site

Guam

Hilton*, 1 site

Guatemala

Hilton*, 1 site

Honduras

Hilton*, 2 sites

Hungary

Hilton*, 2 sites

Iceland

Hilton*, 2 sites

India

Bharat Aluminum Company Limited, Korba, Chhattisgarh

Grasim Industries Limited, Veraval, Gujarat

Hilton*, 17 sites

JK Cement Ltd., Chittorgarh, Rajasthan

L&T MHPS Turbine Generators Pvt. Ltd, Surat, Gujarat

Raymond Limited, Vapi, Gujarat

Indonesia

Hilton*, 5 sites

PT Pupuk Kalimantan Timur (PUPUK KALTIM), Bontang, East Kalimantan

PT. Cheil Jedang Indonesia, Pasuruan, East Java

PT. Pembangunan Jawa-Bali Paiton, Probolinggo, East Java

PT PJB Gresik Power Plant, Gresik, East Java

Ireland

Allied Irish Bank, Dublin, Leinster

An Garda Síochána, Dublin, Leinster; Tipperary, Munster

Dublin City University, Dublin, Leinster

Google*, Dublin, Leinster

Hilton*, 6 sites

Israel

Hilton*, 3 sites

Italy

Hilton*, 22 sites

Municipality of Sovizzo, Sovizzo, Vicenza

Jamaica

Hilton*, 3 sites

Japan

Hilton*, 14 sites

Jordan

Hilton*, 3 sites

Kazakhstan

Hilton*, 2 sites

Kenya

Hilton*, 1 site

Kuwait

Hilton*, 1 site

Lebanon

Hilton*, 2 sites

Luxembourg

Hilton*, 1 site

Malaysia

Hilton*, 9 sites

Maldives

Hilton*, 1 site

Malta

Hilton*, 1 site

Mauritius

Hilton*, 1 site

Mexico

Hilton*, 56 sites

Montenegro

Hilton*, 1 site

Morocco

Hilton*, 2 sites

Myanmar

Hilton*, 3 sites

Namibia

Hilton*, 1 site

Netherlands

Hilton*, 12 sites

New Caledonia

Hilton*, 1 site

New Zealand

Hilton*, 5 sites

Nicaragua

Hilton*, 1 site

Nigeria

Hilton*, 1 site

Oman

Hilton*, 1 site

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*Indicates sites included in an organization's global or broader regional submission

2018 Participating Organizations, by Country/Economy (continued)

Panama

Hilton*, 5 sites

Peru

Hilton*, 5 sites

Philippines

Hilton*, 1 site

Poland

Hilton*, 16 sites

Portugal

Hilton*, 3 sites

Qatar

Hilton*, 3 sites

Republic of Korea

Hilton*, 5 sites

Kangwon Land, Jeongsun-kun, Gangwon

LG Display, Gumi, Gyeongsangbuk-do; Paju, Gyeonggi

LG Electronics Inc., Cheongju Plant, Cheongju-si, North Chungcheong

LG Electronics Inc., Gasan R&D Campus, Seoul, Gyeonggi

LG Electronics Inc., LG Digital Park, Pyeongtaek-si, Gyeonggi

LG Innotek Co., Ltd., Gumi, Gyeongsangbuk-do

Sungshin Cement Co., Ltd., Danyang-Gun, North Chungcheong

Republic of Macedonia

Makstil AD, Skopje, Skopje Statistical Region

Vardar Dolomit Doel, Gostivar, Polog Statistical Region

Romania

Hilton*, 9 sites

Russia

Hilton*, 25 sites

PJSC "Magnitogorsk Iron & Steel Works" (PJSC "MMK"), Magnitogorsk, Chelyabinsk Oblast

Zhilkomservice, Naberezhnye Chelny, Republic of Tatarstan

Saudi Arabia

Hilton*, 10 sites

Seychelles

Hilton*, 3 sites

Singapore

Google*, Singapore

Hilton*, 3 sites

Slovakia

Hilton*, 2 sites

South Africa

Hilton*, 5 sites

Spain

Hilton*, 12 sites

Sri Lanka

Hilton*, 2 sites

MAS KREEDA Intimo, Biyagama, Western Province

Sweden

Hilton*, 1 site

Switzerland

Hilton*, 2 sites

Taiwan

Google*, Changhua County, Taiwan Province

Tanzania

Hilton*, 3 sites

Thailand

Hilton*, 10 sites

Trinidad and Tobago

Hilton*, 1 site

Turkey

Hilton*, 57 sites

Ukraine

Hilton*, 1 site

United Arab Emirates

Abu Dhabi City Municipality, Abu Dhabi, Emirate of Abu Dhabi

Dubai Municipality, Dubai, Emirate of Dubai

Hilton*, 22 sites

Roads and Transport Authority Dubai (RTA), Dubai, Emirate of Dubai

United Kingdom

Hilton*, 141 sites

United States of America

Google*, Berkeley County, South Carolina; Council Bluffs, Iowa; Douglas County, Georgia; Lenoir, North Carolina; Mayes County, Oklahoma; Mountain View, California; The Dalles, Oregon

Hilton*, 4,307 sites

JW Marriott, Washington, D.C.

Nissan North America, Inc., Canton, Mississippi; Decherd, Tennessee; Smyrna, Tennessee

Uruguay

Hilton*, 3 sites

Venezuela

Hilton*, 2 sites

Vietnam

Hilton*, 2 sites

Clean Energy Ministerial

Energy Management Working Group (EMWG)

www.cleanenergyministerial.org/initiative-clean-energy-ministerial/energy-management-working-group