Global ISO 50001 Achievements:
Reducing costs, energy use, and CO₂ emissions

2021 Energy Management Leadership Awards
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Clean Energy Ministerial

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

The CEM has been driving the global dialogue on quality ISO 50001 implementation since 2010.

Energy Management Leadership Awards

To showcase leading organizations and share their ISO 50001 energy management successes, the CEM offers 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.

2021 Awards Program

In 2021, four organizations received the top honor, the Award of Excellence in Energy Management. Another 28 organizations received Energy Management Insight Awards for helping to build global insight on the benefits of energy management systems.

This booklet showcases these leading organizations and highlights the business benefits achieved through use of ISO 50001 (currency for cost savings are listed in United States dollars).

All awardees are listed on pages 5-6. To see the awardees listed by country or sector, see pages 42-44.

www.cleanenergyministerial.org/EMAwards
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 by using the ISO 50001 standard. 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, environmental, energy, and business benefits achieved by the diverse types of organizations that invest in energy efficiency.

The awards also underscore ISO 5001’s flexibility and applicability across sectors, as award winners represent diverse organization types. There are 18 of the 2021 class of awardees in the industrial sector, five in the commercial sector, and nine in the public sector (municipality, airport, and school).

Collectively, all 32 of the 2021 winners (representing 102 facilities in 20 countries) reported annual energy cost savings of over $44 million, and emissions reductions of over 2.2 million metric tons of carbon dioxide, the equivalent of taking 482,065 passenger vehicles off the road.
CEM 2021 AWARDS OF EXCELLENCE IN ENERGY MANAGEMENT

Abastible S.A.
*Chile:* Hualpén

JW Marriott
*United States of America:* Washington, D.C.

Kuala Lumpur Golf & Country Club
*Malaysia:* Kuala Lumpur

Dubai Municipality
*United Arab Emirates* (2 sites): Dubai (2)

Centro de Reabilitação Lucy Montoro (CRLM)
*Brazil:* São Paulo

Des Moines Water Works
*United States of America:* Des Moines, IA

Empresas CMPC
*Brazil:* Guaíba
*Chile* (15 sites): Cabrero; Chillán; Collipulli; Coronel; Laja; Los Ángeles; Mininco; Mulchén; Nacimiento (2); Puente Alto (2); Talagante; Valdivia; Yerbas Buenas
*Peru:* Lima

Hospital Estadual de Diadema Governador Orestes Quercia (HED)
*Brazil:* São Paulo

Hospital Geral Pirajussara (HGP)
*Brazil:* Taboão da Serra

Hospital de Transplantes Euryclides de Jesus Zerbini (HTEJZ)
*Brazil:* São Paulo

Iron Mountain Data Centers
*Netherlands:* Haarlem
*Singapore:* Singapore
*United Kingdom:* Slough
*United States of America* (10 sites): Boyers, PA; Denver, CO; Edison, NJ; Kansas City, MO; Manassas, VA; Miamisburg, OH; Northborough, MA; Phoenix, AZ (2); Scottsdale, AZ

Kruger Products LP
*Canada:* Gatineau

Lawrence Berkeley National Laboratory
*United States of America:* Berkeley, CA

Lubricantes Avellaneda S.A.U.
*Argentina:* Avellaneda

Maynilad Water Services, Inc.
*Philippines* (10 sites): Manila City; Muntinlupa City (2); Parañaque City; Pasay City (2); Quezon City (4)

NTPC Ramagundam
*India:* Telangana

CEM 2021 ENERGY MANAGEMENT INSIGHT AWARDS

3M
*Canada* (6 sites): Brockville, ON; London Oxford; ON; Montreal, QC; Morden, MB; Perth, ON; Tartan, ON
*Mexico:* Edumex-Juarez, CI
*United States of America* (21 sites): Aberdeen, SD; Alexandria, MN; Brownwood, TX; Columbia, MO; Cordova, IL; Corona, CA; Cottage Grove, MN; Cynthiana, KY; Decatur, AL; Guin, AL; Hartford City, IN; Hutchinson, MN; Little Rock, AR; Menomonie, WI; New Ulm, MN; Prairie du Chien, WI; Pittsboro, NC; Rockland, MA; Springfield, MO; Tonawanda, NY; Wausau, WI

Abu Qir Fertilizers and Chemicals Industries Company
*Egypt:* Alexandria

Aceros AZA S.A.
*Chile* (2 sites): Santiago Metropolitan Region (2)

AstraZeneca
*United States of America:* Gaithersburg, MD

Astral de Reabilitação Lucy Montoro (CRLM)
*Brazil:* São Paulo

Des Moines Water Works
*United States of America:* Des Moines, IA

Empresas CMPC
*Brazil:* Guaíba
*Chile* (15 sites): Cabrero; Chillán; Collipulli; Coronel; Laja; Los Ángeles; Mininco; Mulchén; Nacimiento (2); Puente Alto (2); Talagante; Valdivia; Yerbas Buenas
*Peru:* Lima

Abastible S.A.
*Chile:* Hualpén

Aceros AZA S.A.
*Chile* (2 sites): Santiago Metropolitan Region (2)

AstraZeneca
*United States of America:* Gaithersburg, MD

Abastible S.A.
*Chile:* Hualpén

JW Marriott
*United States of America:* Washington, D.C.

Kuala Lumpur Golf & Country Club
*Malaysia:* Kuala Lumpur

Dubai Municipality
*United Arab Emirates* (2 sites): Dubai (2)

Compañía MEGA S.A.
*Argentina* (3 sites): Buenos Aires (2); Neuquén
PJSC Magnitogorsk Iron and Steel Works
*Russia*: Magnitogorsk City

Porsche Holding Gesellschaft m.b.H.
*Austria*: Salzburg

PT. KMK Global Sports
*Indonesia*: Banten

Public Services and Procurement Canada
*Canada*: Ottawa

Puerto Ventanas S.A
*Chile*: Puchuncavi

SAUDI ARAMCO
*Saudi Arabia*: Haradh

Trane Technologies Manufacturing
*Mexico*: Apodaca

Universidad Tecnológica Metropolitana
*Chile* (3 sites): Santiago (3)

Wyeth Nutrition Ireland
*Ireland*: Askeaton

Y-GEN Eléctrica II S.A.U. Complejo Generación
*Argentina*: El Bracho

YPF Energía Eléctrica S.A. (YPF LUZ)
*Argentina*: Añelo
CEM Energy Management Leadership Awards

Congratulations to the 2021 Award Recipients!
In 2021, the Clean Energy Ministerial honored four organizations with the Award of Excellence in Energy Management:

**Abastible S.A.**
A market leader in the energy solutions industries, Abastible sees sustainability as an integral part of its mission. Its first energy management system was implemented at the Lenga plant, one of the company’s main facilities, with the goal of reducing energy intensity 1% each year, year over year. The plant successfully met this savings target solely through operational changes (i.e., without capital investment).

**JW Marriott**
This luxury hotel is part of Marriott International, Inc., which has sustainability goals that include reducing carbon intensity by 30% by 2025. JW Marriot Washington, DC sets first achieved ISO 50001 in 2013 and was recertified in 2016. Management appointed a hotel energy team that incorporates representatives from all major departments, ensuring a holistic and inclusive approach that has saved over 9,500 gigajoules of energy and USD 221,551 of energy costs over three years.

**Kuala Lumpur Golf & Country Club**
This 36-hole standard tournament golf course is committed to upholding the industry’s standards and best practices. The club established an ISO 50001 energy management system in 2013 and, since then, has reduced electricity consumption by 22% and LPG consumption by 54%, with associated energy cost savings of USD 1,428,565. Operational adjustments account for most of these savings.

**Dubai Municipality**
Dubai Municipality has jurisdiction over city services and the upkeep of facilities in the emirate of Dubai. The municipality has several office buildings that are intermittently occupied, presenting an opportunity to decrease energy use. Since the energy management system’s launch in 2012, the projects have saved over 20,000 gigajoules of energy and USD 688,903 in energy costs.
Abastible S.A.

ISO 50001 Certified:
Lenga Plant

Cost savings: $18,246 over 1 year
CO₂ reduction: 7.87 metric tons
JW Marriott

ISO 50001 Certified:
JW Marriott, Washington, DC

Cost savings: $221,551 over 3 years
CO₂ reduction: 725 metric tons
Kuala Lumpur Golf & Country Club

ISO 50001 Certified:
Kuala Lumpur Golf & Country Club (KLGCC) Berhad

Cost savings: $1,428,565 over 7 years
CO$_2$ reduction: 8,544 metric tons
Dubai Municipality

ISO 50001 Certified:
Al Twar Center and Al Manara Center

Cost savings: Al Twar - $679,847 over 9 years. Al Manara - $9,056 over 1 year

CO₂ reduction: Al Twar - 3,349 metric tons. Al Manara - 45 metric tons
In addition, 28 organizations received Energy Management Insight Awards in 2021 for helping to build global insight on the benefits of energy management systems in industrial, commercial, and public-sector facilities.
3M

ISO 50001 Certified:
6 sites in Canada, 1 site in Mexico, and 21 sites across the United States

Cost savings: $12,000,000 over 5 years
CO₂ reduction: 845,000 metric tons
Abu Qir Fertilizers & Chemical Industries (AFC)

ISO 50001 Certified:
Abu Qir Fertilizers Company

Cost savings: $9,651,630 over 4 years
CO₂ reduction: 67,408 metric tons
Aceros AZA S.A.

ISO 50001 Certified:
Colina Plant and Renca Plant

Cost savings: $1,350,488 over 2.6 years
CO$_2$ reduction: 10,144 metric tons

Chile
Iron, Steel and Fabricated Metals Manufacturing
AstraZeneca

ISO 50001 Certified:
AztraZeneca Gaithersburg

Cost savings: $4,052,186 over 10 years
CO$_2$ reduction: -1,559 metric tons
(negative due to CHP and renewable energy purchasing)
Compañía MEGA S.A.

**ISO 50001 Certified:**
Head Office, Planta Bahia Banca and Planta Neuquén

Cost savings: $286,071 over 2 years
CO₂ reduction: 5,546,26 metric tons
Centro de Reabilitação Lucy Montoro (CRLM)

ISO 50001 Certified:
Centro de Reabilitação Lucy Montoro
São José dos Campos

Cost savings: $3,183.89 over 3 years
CO$_2$ reduction: 24,254 metric tons
Des Moines Water Works

ISO 50001 Certified:
Fleur Drive Treatment Plant

Cost savings: $830,387 over 4 years
CO₂ reduction: 25,952 metric tons
Empresas CMPC S.A.

ISO 50001 Certified:
1 site in Brazil, 15 sites in Chile, and 1 site in Peru

Cost savings: $82,241,000 over 6 years
CO₂ reduction: 248,795 metric tons
Hospital Estadual de Diadema Governador Orestes Quercia (HED)

ISO 50001 Certified:
Diadema's State Hospital - Governor Orestes Quercia

Cost savings: $44,102 over 2 years
CO₂ reduction: 69 metric tons
Hospital Geral Pirajussara (HGP)

ISO 50001 Certified:
Pirajussara General Hospital

Cost savings: $45,314 over 3 years
CO₂ reduction: 85 metric tons
Hospital de Transplantes Euryclides de Jesus Zerbini (HTEJZ)

**ISO 50001 Certified:**
HTEJZ - Euryclides de Jesus Zerbini Transplant Hospital

Cost savings: $41,104 over 2 years
CO₂ reduction: 82 metric tons
Iron Mountain Data Centers

ISO 50001 Certified:
1 site in the Netherlands, 1 site in Singapore, 1 site in the United Kingdom, and 10 sites in the United States of America

Cost savings: Not determined.

CO₂ reduction: Powered by 100% renewable energy
Kruger Products LP

ISO 50001 Certified:
Gatineau

Cost savings: $4,952,007 over 5.5 years
CO₂ reduction: 38,300 metric tons
Lawrence Berkeley National Laboratory

ISO 50001 Certified:
Lawrence Berkeley National Laboratory

Cost savings: $2,170,000 over 5.5 years
CO₂ reduction: 4,400 metric tons
Lubricantes Avellaneda S.A.U.

ISO 50001 Certified:
Lubricants Plant

Cost savings: $39,569 over 2 years
CO₂ reduction: 103 metric tons
Maynilad Water Services, Inc.

ISO 50001 Certified:
Philippines (10 sites): Manila City, Muntinlupa City (2), Parañaque City, Pasay City (2), Quezon City (4)

Cost savings: $1,236,088 over 4 years
CO₂ reduction: 7,460 metric tons
NTPC Ramagundam

ISO 50001 Certified:
NTPC Ramagundam

Cost savings: $3,300,000 over 4 years
CO₂ reduction: 5,950,000 metric tons
PJSC Magnitogorsk Iron and Steel Works

ISO 50001 Certified:
PJSC "MMK"

Cost savings: $57,896,000 over 6 years
CO₂ reduction: 2,098,186 metric tons
Porsche Holding Gesellschaft m.b.H.

ISO 50001 Certified:
Porsche Holding Gesellschaft m.b.H (Porschehof)
Cost savings: $1,737,198 over 6 years
CO$_2$ reduction: 8,565 metric tons
PT. KMK Global Sports

ISO 50001 Certified:
PT. KMK Global Sports

Cost savings: $78,094 over 2 years
CO₂ reduction: 770 metric tons
Public Services and Procurement Canada

ISO 50001 Certified:
Energy Services Acquisition Program (ESAP)

Cost savings: $420,000 over 3 years
CO₂ reduction: 2,350 metric tons
Puerto Ventanas S.A

ISO 50001 Certified:
Puerto Ventanas S.A

Cost savings: $44,299 over 2 years
CO₂ reduction: 117 metric tons
Saudi Aramco

ISO 50001 Certified:
Haradh Gas Plant Department (HdGPD)

Cost savings: $845,459 over 2 years
CO₂ reduction: 49,000 metric tons
ISO 50001 Certified:
Monterrey Plant

Cost savings: $74,000 over 3 years
CO₂ reduction: 3,181 metric tons
Universidad Tecnológica Metropolitana (UTEM)

ISO 50001 Certified:
Campus Central, Campus Providencia and Campus Nuñoa

Cost savings: $80,420
CO₂ reduction: 369 metric tons
Wyeth Nutrition Ireland

ISO 50001 Certified:
Wyeth Nutrition

Cost savings: $3,304,737 over 9 years
CO₂ reduction: 28,611 metric tons
Y-GEN Eléctrica II S.A.U. Complejo Generación Tucumán

ISO 50001 Certified:
El Bracho Thermal Power Plant

Cost savings: $15,220,000 over 2 years
YPF Energía Eléctrica S.A. (YPF LUZ)

ISO 50001 Certified:

Head Office (Centrales Térmicas Loma Campana I y II)

Cost savings: $99,897 over 1 year

CO₂ reduction: 210 metric tons
## 2021 Participating Organizations, by Industry

<table>
<thead>
<tr>
<th>Industry</th>
<th>Company/Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Dealership</td>
<td>Porsche Holding Gesellschaft m.b.H.</td>
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<tr>
<td>Data Centers</td>
<td>Iron Mountain Data Centers</td>
</tr>
<tr>
<td>Education</td>
<td>Universidad Tecnológica Metropolitana</td>
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<tr>
<td>Federal Government</td>
<td>Public Services and Procurement Canada</td>
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<tr>
<td>Fertilizers</td>
<td>Abu Qir Fertilizers and Chemicals Industries Company</td>
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<tr>
<td>Food Processing</td>
<td>Wyeth Nutrition Ireland</td>
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<tr>
<td>Healthcare</td>
<td>Centro de Reabilitação Lucy Montoro (CRLM)</td>
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<td>Hospital de Transplantes Euryclides de Jesus Zerbini (HTEJZ)</td>
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<td>Hospital Estadual de Diadema Governador Orestes Quercia (HED)</td>
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<td>Hospital Geral Pirajussara (HGP)</td>
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<tr>
<td>Hospitality</td>
<td>JW Marriott</td>
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<tr>
<td>Iron, Steel and Fabricated Metals Manufacturing</td>
<td>Aceros AZA S.A.</td>
</tr>
<tr>
<td>Machinery Manufacturing</td>
<td>PJSC Magnitogorsk Iron and Steel Works</td>
</tr>
<tr>
<td>Multiple: Healthcare, Pulp and Paper and Chemicals</td>
<td>3M</td>
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<tr>
<td>Municipality</td>
<td>Dubai Municipality</td>
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<tr>
<td>Oil &amp; Gas</td>
<td>Abastible S.A.</td>
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<td></td>
<td>Compañía MEGA S.A.</td>
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<td></td>
<td>Lubricantes Avellaneda S.A.U.</td>
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<td>Saudi Aramco</td>
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<td>Pharmaceuticals</td>
<td>AstraZeneca</td>
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<tr>
<td>Power Generation</td>
<td>NTPC Ramagundam</td>
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<td>Y-GEN Eléctrica II S.A.U. Complejo Generación Tucumán</td>
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<td></td>
<td>YPF Energía Eléctrica S.A. (YPF LUZ)</td>
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<tr>
<td>Pulp and Paper</td>
<td>Empresas CMPC</td>
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<td></td>
<td>Kruger Products LP</td>
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<tr>
<td>Research Laboratory</td>
<td>Lawrence Berkeley National Laboratory</td>
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<tr>
<td>Shipping Ports</td>
<td>Puerto Ventanas S.A</td>
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<tr>
<td>Sports and Recreation</td>
<td>Kuala Lumpur Golf &amp; Country Club</td>
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<tr>
<td>Textiles</td>
<td>PT. KMK Global Sports</td>
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<tr>
<td>Water and Wastewater</td>
<td>Maynilad Water Services, Inc.</td>
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<tr>
<td>Water Treatment</td>
<td>Des Moines Water Works</td>
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</tbody>
</table>
## 2021 Participating Organizations, by Country

<table>
<thead>
<tr>
<th>Country</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argentina</td>
<td>Compañía MEGA S.A., Bahía Blanca, Buenos Aires; Ciudad de Buenos Aires, Buenos Aires; Loma de la Lata, Neuquén</td>
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<tr>
<td></td>
<td>Lubricantes Avellaneda S.A.U., Avellaneda, Buenos Aires</td>
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<td>Y-GEN Eléctrica II S.A.U. Complejo Generación Tucumán, El Bracho, Tucumán</td>
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<td>YPF Energía Eléctrica S.A. (YPF LUZ), Añelo, Neuquén</td>
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<tr>
<td>Austria</td>
<td>Porsche Holding Gesellschaft m.b.H., City of Salzburg, Salzburg</td>
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<tr>
<td>Brazil</td>
<td>Centro de Reabilitação Lucy Montoro (CRLM), São Paulo, São José dos Campos</td>
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<tr>
<td></td>
<td>Empresas CMPC*, Guaíba, Rio grande do Sul</td>
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<tr>
<td></td>
<td>Hospital de Transplantes Euryclides de Jesus Zerbini (HTEJZ), São Paulo, São Paulo</td>
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<td>Hospital Estadual de Diadema Governador Orestes Quercia (HED), São Paulo, São Paulo</td>
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<td></td>
<td>Hospital Geral Pirajussara (HGP), Taboão da Serra, São Paulo</td>
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<tr>
<td>Canada</td>
<td>3M*, Brockville, ON; London Oxford, ON; Montreal, QC; Morden, MB; Perth, ON; Tartan, ON</td>
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<td></td>
<td>Kruger Products LP, Gatineau, Quebec</td>
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<td></td>
<td>Public Services and Procurement, Ottawa, Ontario</td>
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<tr>
<td>Chile</td>
<td>Abastible S.A., Hualpén, Región del Biobío</td>
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<td></td>
<td>Aceros AZA S.A., Santiago, Santiago Metropolitan Region</td>
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<td></td>
<td>Empresas CMPC*, Cabrero, Región del Biobio; Chillán, Región del Maule; Collipulli, Región de la Araucanía; Coronel, Región del Biobio; Laja, Región del Biobio; Los Ángeles, Región del Biobio; Mininco, Región de la Araucanía; Mulchén, Región del Biobio; Nacimiento, Región del Biobio; Puente Alto, Región metropolitana; Talagante, Región metropolitana; Valdivia, Región de los ríos; Yerbas Buenas, Región del Maule</td>
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<tr>
<td></td>
<td>Puerto Ventanas S.A., Puchuncavi, Valparaíso</td>
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<tr>
<td></td>
<td>Universidad Tecnológica Metropolitana, Nuñoa, Santiago; Providencia, Santiago; Santiago Centro, Santiago</td>
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<tr>
<td>Egypt</td>
<td>Abu Qir Fertilizers and Chemicals Industries Company, Alexandria</td>
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<td></td>
<td>Public Services and Procurement, Ottawa, Ontario</td>
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<td>India</td>
<td>NTPC Ramagundam, Telangana</td>
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<td>Indonesia</td>
<td>PT. KMK Global Sports, Banten</td>
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<td>Ireland</td>
<td>Wyeth Nutrition Ireland, Askeaton, Limerick</td>
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<td>Malaysia</td>
<td>Kuala Lumpur Golf &amp; Country Club, Kuala Lumpur</td>
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<tr>
<td>Mexico</td>
<td>3M*, Edumex-Juarez, CI</td>
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<tr>
<td></td>
<td>Trane Technologies Manufacturing, Apodaca, Nuevo León</td>
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<tr>
<td>Netherlands</td>
<td>Iron Mountain Data Centers*, Haarlem</td>
</tr>
<tr>
<td>Peru</td>
<td>Empresas CMPC*, Lima, Provincia de Lima</td>
</tr>
</tbody>
</table>

*Indicates sites included in an organization’s global or broader regional submission
2021 Participating Organizations, by Country (continued)

Philippines
Maynilad Water Services, Inc., Manila City; Muntinlupa City; Parañaque City; Pasay City; Quezon City

Russia
PJSC Magnitogorsk Iron and Steel Works, Magnitogorsk City, Chelyabinsk Oblast

Saudi Arabia
Saudi Aramco, Haradh, Eastern Province

Singapore
Iron Mountain Data Centers*, Singapore

United Arab Emirates
Dubai Municipality, Dubai

United Kingdom
Iron Mountain Data Centers*, Slough

United States of America
3M*, Aberdeen, SD; Alexandria, MN; Brownwood, TX; Columbia, MO; Cordova, IL; Corona, CA; Cottage Grove, MN; Cynthiana, KY; Decatur, AL; Guin, AL; Hartford City, IN; Hutchinson, MN; Little Rock, AR; Menomonie, WI; New Ulm, MN; Prairie du Chien, WI; Pittsboro, NC; Rockland, MA; Springfield, MO; Tonawanda, NY; Wausau, WI

AstraZeneca, Gaithersburg, MD

Des Moines Water Works, Des Moines, IA

Iron Mountain Data Centers*, Boyers, PA; Denver, CO; Edison, NJ; Kansas City, MO; Manassas, VA; Miamisburg, OH; Northborough, MA; Phoenix, AZ; Scottsdale, AZ

JW Marriott, Washington, D.C.

Lawrence Berkeley National Laboratory, Berkeley, CA

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

Energy Management Leadership Awards

www.cleanenergyministerial.org/EMAwards