



## Advanced Cooling Challenge

Transition to cool: Super-efficient, smart, climate-friendly, and affordable cooling technologies

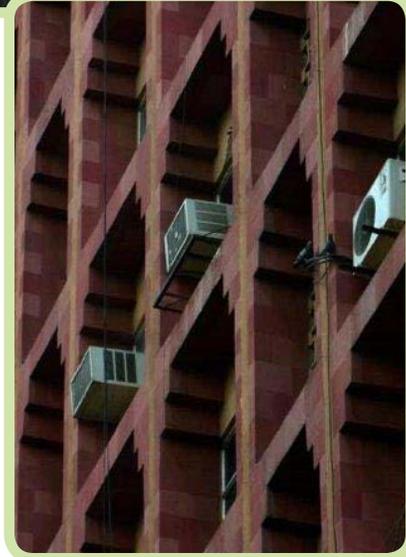
### Overview

This Clean Energy Ministerial (CEM) campaign challenges governments and industry to develop and deploy at scale super-efficient, smart, climate-friendly, and affordable cooling technologies critical for prosperous and healthy societies. Meeting global cooling demand sustainably will require deploying the most efficient and climate-friendly solutions available today and investing in the research to develop the breakthrough technologies needed in the next decade. The Advanced Cooling (AC) Challenge brings interested parties together to spur AC product innovation, distinguish the top-performing products to boost their sales, and enhance the knowledge base and pool market intelligence to develop the next generation of AC models. The AC Challenge leverages the work of the CEM's Super-Efficient Equipment and Appliance Deployment (SEAD) initiative.



### The Opportunity

Access to cooling has been linked to improved health, productivity, economic growth, and education. Improving the average efficiency of air conditioners in 2030 by 30% could reduce emissions by up to 25 billion tonnes of CO<sub>2</sub> over the lifetime of the equipment and reduce peak electricity demand by 340–790 gigawatts, equivalent to as many as 1,500 peak power plants.



### Make a Commitment

The AC Challenge is seeking commitments from governments, foundations, companies, and other private sector leaders to make, sell, support, or install super-efficient and low-GWP (global warming potential) equipment in buildings around the world. Commitments will be publicized at the annual CEM ministerial meeting, in member government home countries, and in follow-up meetings around the globe, and logos will be featured on a bespoke campaign website.

**Contact**

For more information on making a commitment or to discuss ways to get involved, please contact Chad Gallinat at [chad.gallinat@hq.doe.gov](mailto:chad.gallinat@hq.doe.gov)

## Example Commitments

- Manufacturer X commits to investing \$XX to develop and manufacture a prototype that fits the criteria.
- Small Business X commits to allocating XX% of its assembly line to super-efficient cooling products.
- Innovator X will publicize / submit its model to the global AC prize.
- Retailer X commits to becoming an inaugural member of the Advanced Cooling Buyer's Club, which will produce a formal statement to demonstrate market interest.
- Multinational Hotel Chain X commits to testing the efficiency of new AC models and developing performance metrics.
- Government X commits to assessing its existing cooling equipment policies and programs in light of collected AC market data.
- Governments X and Y commit to collaborating to develop a market transformation program.
- Foundation X commits \$XX to transform a single AC market by supporting capacity-building programs and policy alignment and development of incentives.
- Partner Organization X endorses the AC Challenge and will help advertise the AC prize.



## Be Part of It

- Join energy ministers from the CEM's 25 member governments, along with international partners, to make commitments toward the AC Challenge to drive awareness, international collaboration, and innovation.
- Be recognized as a market leader for developing solutions to meet global cooling demand sustainably.
- Shape the specifications for the AC prize being discussed and developed across multiple markets.
- Raise awareness and acceptance of new market designs and models.
- Gain access to the Global AC Market Tracking Tool, which contains financial and technical data from the world's fastest-growing markets and top-performing models.
- Take advantage of the new and expanded R&D commitments and collaborations among governments and industry to develop the next generation of cooling technologies.
- Be part of delivering on respective and shared climate and clean energy goals.



## About the CEM

The Clean Energy Ministerial (CEM) is a forum of the major economies and leading clean energy investors working together to accelerate the global transition to clean energy. Launched in 2010, the CEM pairs the high-level engagement of energy ministers with sustained initiatives and high-visibility campaigns to drive faster deployment of clean energy policies and technologies worldwide. Learn more at <http://www.cleanenergyministerial.org/>.