

1. Name of the party

Qatar

2. Please provide the names and locations of existing centres of excellence for sustainable cooling and testing centres for energy efficiency in your country or region

- Qatar Cool, Doha
- GORD Academy, Qatar Science and Technology Park
- The West Energy Centre, Hamad Medical City
- EMCO District Cooling Plant, Ummm Ghuwailina
- Qatar University (College of Engineering) Stadium Cooling Research, Qatar University

3. Are there plans to set up a centres of excellence for sustainable cooling and/or testing centres for energy efficiency in your country/region? If yes, please provide more information on these ongoing efforts

No answer provided.

4. Please describe policies implemented in your country/region that support the setting up and operations of such centers of excellence for sustainable cooling and testing centers for energy efficiency

No answer provided.

5. Please describe activities and specific functions of the existing/planned centres of excellence for sustainable cooling and testing centres for energy efficiency

- Advanced Research and Technology Development:

These centers focus on pioneering new cooling methods and high-efficiency prototypes:

- Qatar University: Functions as a research hub for "targeted cooling" and aerodynamic design. Activities include using 3D modeling and wind tunnels to create micro-climate bubbles and developing unpatented technologies that reduce energy consumption by 40%.

- GORD Academy: Focuses on the development and implementation of the Synergia9n1 system. Its function is to provide hybrid cooling and ventilation solutions that adapt to weather conditions across diverse settings, from clean rooms to outdoor entertainment venues.

- Operational Utility and Large Scale Implementation:

These centers focus on the commercial and urban delivery of sustainable cooling through infrastructure:

- Qatar Cool: Serves as a leading provider for major residential and commercial districts like The Pearl and West Bay. Its primary activity is the delivery of cost-effective, centralized cooling services to high-density mixed-use developments.

- EMCO District Cooling Plant: Operates centralized cooling grids. Its specific function is to feed chilled water through a network of insulated pipes to high-energy-demand areas, supporting sustainable urban growth in airports and university campuses.

- Specialized & Clinical Cooling Services:

These centers provide critical cooling functions for essential public infrastructure:

- The West Energy Centre: Acts as the specialized cooling supplier for the Hamad Medical Corporation healthcare cluster. Its primary function is ensuring high-reliability, energy-efficient climate control for hospitals, surgical specialty centers, and emergency facilities.

- Diverse Application and Knowledge Sharing:

A key activity across these centers is the expansion of cooling technology beyond traditional buildings:

- Agricultural and Public Spaces: Both the Qatar University and GORD technologies are functioning in "non-traditional" cooling roles, such as supporting local desert farms for summer crop cultivation and cooling open-air venues like Katara Plaza.

- Global Knowledge Legacy: A specific function of the research at Qatar University is the promotion of "unpatented" technology, facilitating the adoption of sustainable cooling practices by other nations and businesses globally.

6. Please share key lessons learned, including best practices and challenges encountered in establishing or operating the centres of excellence for sustainable cooling and testing centres for energy efficiency

No answer provided.

7. Please provide any supporting documentation (e.g. policy documents, reports, website links etc.)

No answer provided.

8. Any other information

No answer provided.