Thermal Energy Storage and Cooling Load Response

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Overall Opinion

- This paper provides an comprehensive overview on existing Thermal Energy Storage (TES) and Demand Response (DR) strategies, covering the working principles, advantages as well as the technical limitations.

- This paper also provides the status quo on TES and DR.

- The potential energy savings derived from TES and DR have also been communicated.

- The communication is concise and easy to understand, supported by relevant data and figures from literature.
Suggestions

To include the followings as takeaways:

- Challenges in deploying such systems, especially in developing Asian countries, which are the focus of this workshop

- Potential drivers/ growth opportunities in the transition towards low carbon economy

- Potential research opportunities
Suggestions

- A competitor analysis (between different energy storage technologies), in terms of commercialization readiness level, storage capacity, addressable market/ applications, cost and risks, would be useful to policy makers and potential adopters.
Future Opportunities

- Stakeholders (including government, industry and academia) should collaborate to de-risk and demonstrate the technologies for stronger market confidence.