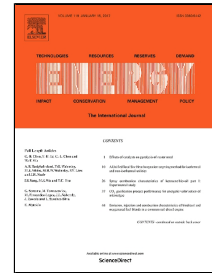


# Accepted Manuscript

Impact of district heat source on primary energy savings of a desiccant-enhanced evaporative cooling system

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## Research Highlights

- District heat from CHP plant was used as a heat source of the DEVap cooling system.
- The primary energy consumption and CO<sub>2</sub> emission of the DEVap were evaluated.
- The results are compared to those of the system served by a conventional gas boiler.
- The DEVap with district heat source saved 46.2% primary energy.
- The DEVap with district heat source reduced 40.5% CO<sub>2</sub> emission

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