

# Thermal & Battery Energy Storage

Optimize your energy usage



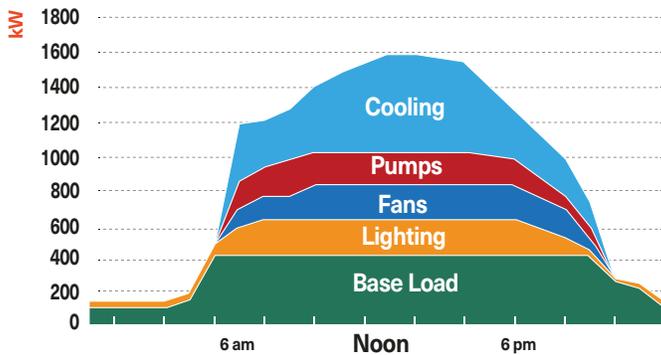
Heating ventilation air conditioning (HVAC) accounts for **40 percent of energy usage in commercial building**

**40%**<sup>(1)</sup>

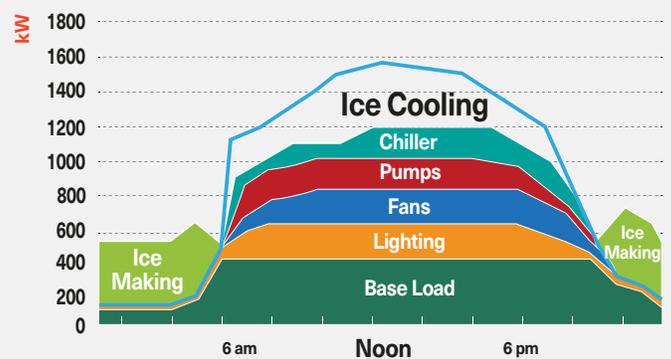


Leveraging energy storage technologies helps **lower operating costs and reduce pressure on the utility grid**

## Building Electric Load Profile...



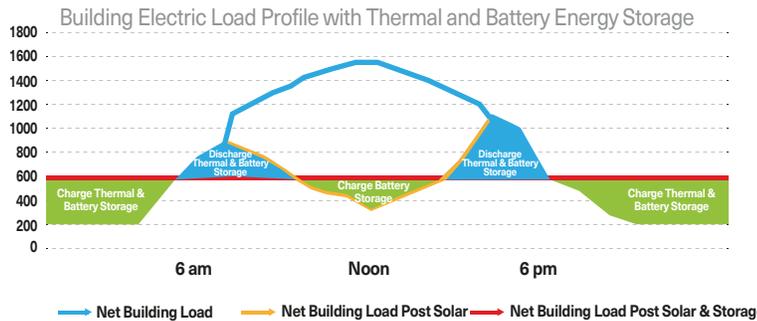
## ...with Thermal Energy Storage



Leveraging thermal and battery energy storage together optimizes renewable energy usage.



Energy storage increases the use of renewables up to **50%**<sup>(2)</sup>



Combining ice and a battery energy storage to address peak demand can reduce the installed energy storage equipment cost by as much as

**75%** compared to a battery alone.<sup>(3)</sup>



Trane offers a complete portfolio of renewable and energy storage solutions. Contact your local account manager for more details or learn more at [trane.com](http://trane.com)

(1) EIA, 2016 (2) ASHRAE Research Paper: Design and Utilization of Thermal Energy Storage to Increase the Ability of Power Systems to Support Renewable Energy Resources, 2017 (3) Commercial Building Example is based on Calmac analysis as published in Distributed Energy Magazine, January, 2018



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