

THERMAL ENERGY

The world of energy is going through a transformation. Energy storage technologies offer many new opportunities to reduce pressure on the grid, improve resilience and lower operating costs.

B

of the world's energy consumption¹

BU

DINGS

Power consumption forecasted to grow by

by 2040²

ARE RESPONSI

due to HVAC (Heating, Ventilating and Air Conditioning)¹

of electrical generating capacity have already, or are now set to retire.³

of the US grid's transmission lines and power transformers are over 25 years old.⁴

72 GW+ 70%

According to Western Cooling Efficiency Center at University of California-Davis, the

traditional 10 day average methodology for

underrepresents the value

77%

of thermal storage by as

measuring the impact of demand

management technologies

THERMAL STORAGE **SYSTEMS**

store energy during off peak times in tanks as ice or chilled water and then release it during peak hours.

"The value of Thermal Energy Storage systems are more accurately quantified when based on

1-IN-10

heat event (hottest hour in 10 years) method - which is how many other

Sources: 1 EIA / 2 EIA and based off of 2015 consumption / 3 Institute for Energy Research / 4 Energy Department, 2014

Because it does not adequately account for

shifts in building loads due to extreme

weather, holidays, or weekends.



much as

Trane - by Trane Technologies (NYSE: TT), a global climate innovator - creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit trane.com or tranetechnologies.com.

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