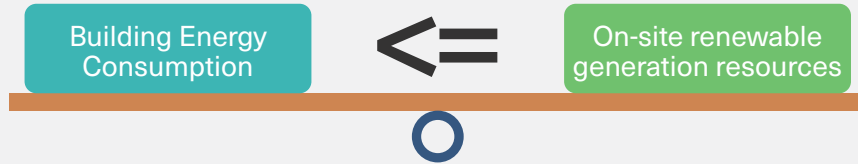


# What is a Zero Energy Building



ZE buildings are ultra-low energy buildings that consume only as much power as is generated on-site through renewable energy resources over the course of a year.<sup>1</sup>



## WHAT ARE THE MARKET DRIVERS?

## WHY IS THIS IMPORTANT?

Solar PV costs have come way down

The levelized cost of electricity from solar is set to drop another **66%** by **2040**<sup>2</sup>

architecture **2030** calls for all new buildings to be carbon neutral

by **2030**<sup>3</sup>

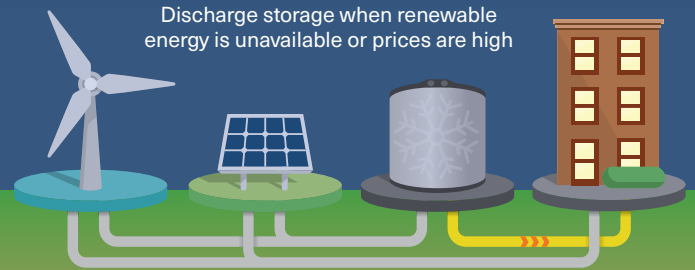
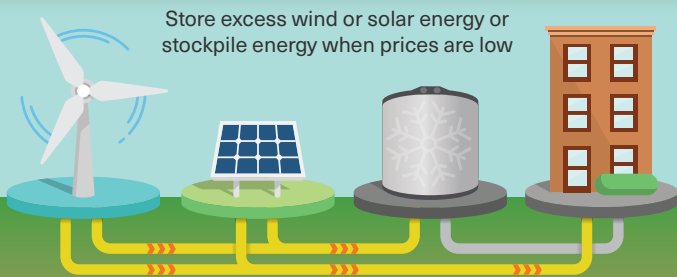
ZEB revenue is expected to reach **\$1.4 TRILLION** by **2035**<sup>4</sup>

ZEB space has increased **700%** since 2012<sup>5</sup>

## HOW DOES THIS AFFECT ME?

Thermal batteries store excess wind and solar energy to deliver cooling when it's needed most

Can increase utilization of renewable energy by as much as **50%**



Greater Flexibility, Higher Sustainability, More Cost Effective

## THE SOLUTION

A holistic approach to zero energy buildings that provides intelligent solutions to help manage when energy is used so you always pay the best price



Energy Storage



Peak Load Management



Performance Optimization



Demand Response



Turnkey Solutions



Renewable Energy Procurement

Sources:

1. New Building Institute. <https://newbuildings.org/hubs/zero-net-energy/>
2. Solar Is Going to Get Ridiculously Cheap June 13, 2016, Fortune. <http://fortune.com/2016/06/13/solar-to-get-crazy-cheap/>
3. 2018. Architecture 2030. [http://architecture2030.org/2030\\_challenges/2030-challenge/](http://architecture2030.org/2030_challenges/2030-challenge/)
4. September 9, 2014. Navigant Research. Zero Energy Building Revenue Expected to Exceed \$1.4 Trillion Annually by 2035. <https://www.navigantresearch.com/newsroom/zero-energy-building-revenue-expected-to-exceed-1-4-trillion-annually-by-2035>
5. January 23, 2018. New Building Institute. 2018 Getting to Zero Status Update and Zero Energy Buildings List <https://newbuildings.org/resource/2018-getting-zero-status-update/>



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