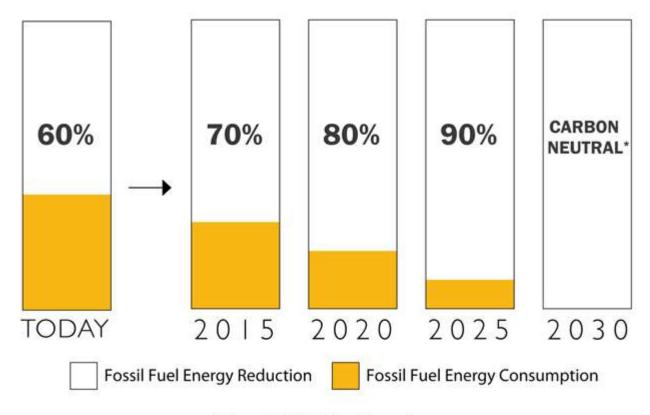


Getting to Zero National Forum | Jolt Session | September 17, 2013

Brad Jacobson, AIA, LEED AP BD+C

ehdd.

#### **Year One Results**



#### The 2030 Challenge

Source: ©2010 2030, Inc. / Architecture 2030. All Rights Reserved.
\*Using no fossil fuel GHG-emitting energy to operate.



## The Path to Scalability



Audubon at Debs Park Size: 6,700 SF 17.4 kBtu/SF



Chartwell School Size: 21,200 SF 27.9 kBtu/SF



Nevada State College Carbon Neutral Master Plan Size: 509 acres



Stanford Green Dorm Size: 21,500 SF 35.6 kBtu/SF



IDeAs Z<sup>2</sup> Building Size: 6,560 SF 21.2 kBtu/SF



The Packard Foundation Size: 49,000 SF 21,3 kBtu/SF



AOP Watershed Exhibit Size: 2,100 SF 14.8 kBtu/SF



Marin Country Day School Size: 33,700 SF 20.5 kBtu/SF



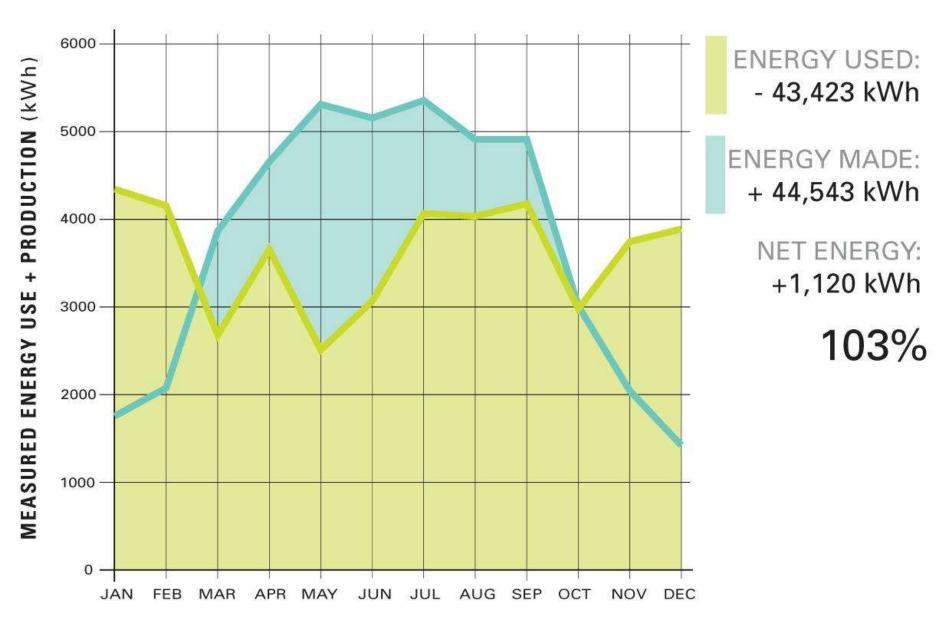
Exploratorium at Pier 15 Size: 200,000 SF 47 kBtu/SF







## **Year One Results**

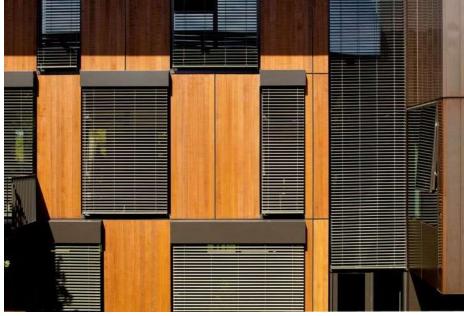










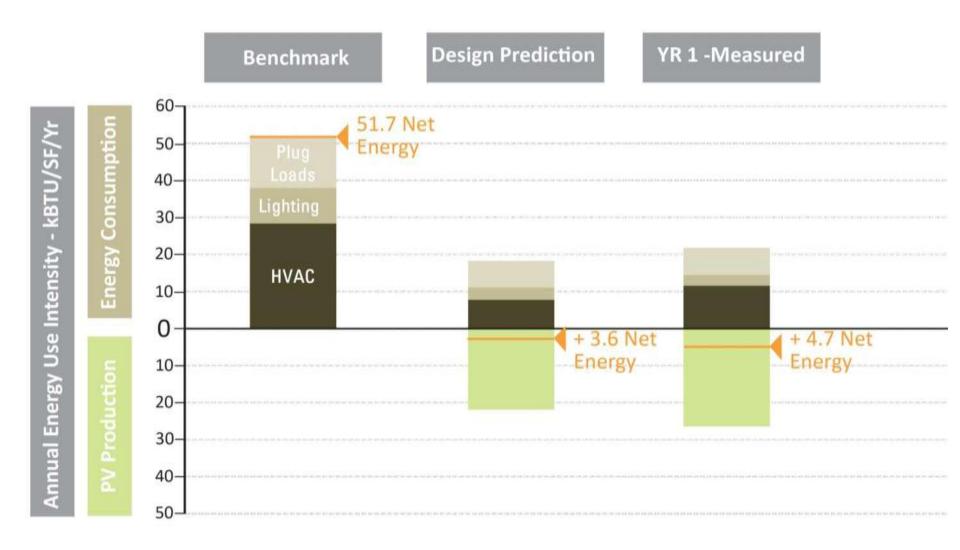








## **Year One Results**





# The Exploratorium at Pier 15 San Francisco, California



#### TODAY'S ENERGY DASHBOARD

#### **SEPTEMBER 6, 2013**

#### 2:26pm

#### What the data mean

Energy consumption and production vary depending on the time of the year. The goal is to only consume this same amount of energy yearly, thereby annually achieving "net zero energy." There will be months where we produce more than we consume, and other months where we consume more than we produce.

Our total energy production since opening day, April 17, 2013, is 841,308 kWh

	Total Production (kWh)	Total Consumption (kWh)
Yesterday	7,202	7,646
Past 7 days	54,053	52,418
Past 30 days	208,784	220,165
Past 90 days	736,360	747,741
Year to Date	841,308	852,689
Since April, 2013	841,308	852,689

#### Daily Production (kilowatt-hours)

The average amount of energy being generated by the solar panel array each day



The average amount of energy being consumed by the Exploratorium each day

