Building-Related Sustainability Goals

• Climate neutrality by 2025
• 20% better than CBC energy-efficiency standards
• LEED Silver or better
• Prerequisites of Labs21 EPC
• 20% less per capita potable water consumption by 2020 (striving for higher given 2015 CA restrictions)
• Zero waste by 2020
History & Legacy: Broader Context

- 1958 Scripps geochemist Charles David Keeling began linking atmospheric measurements of CO$_2$ from human burning of fossil fuels to the warming of the planet.
- Ralph Keeling has continued and expanded this research.
MESOM Multidisciplinary Research

- Integrating physical, biological and chemical sensors and autonomous ocean going platforms
- Long term observation of ocean ecology of the California Current Ecosystem
- Forecasting of changes in the oceans and atmosphere based on models
- Advanced technology resulting in consistent forecasting and improved ocean policy/resource management
Building Information

- 40,065 OGSF
- $26.5M total project budget
- $12M National Institute for Standards and Technology (NIST)
- Scripps Institution of Oceanography
- Marine ecosystem forecasting
Alternative Power

Over 61,000 watt solar array photovoltaic cells

Enough to power 40 houses
Thank you!
sustain.ucsd.edu
fdc.ucsd.edu
scripps.ucsd.edu