Safe, dependable, and affordable water now and into the future



Stakeholder Advisory Group

Board of Water Supply City & County of Honolulu

Thursday April 25, 2019



Joshua Stanbro

Honolulu's Chief Resilience Officer and Executive Director Office of Climate Change, Sustainability and Resiliency City and County of Honolulu

CLIMATE CHANGE PANEL DISCUSSION











Green
City Operations















Facilitate Climate
Change Commission

Resilience

The capacity of individuals, communities, institutions, businesses, and systems to survive, adapt, and thrive no matter what kinds of chronic stresses and acute shocks they experience.





Our Climate



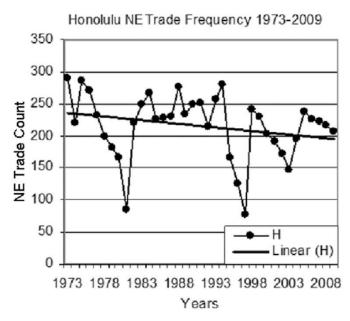
Climate Change is Now

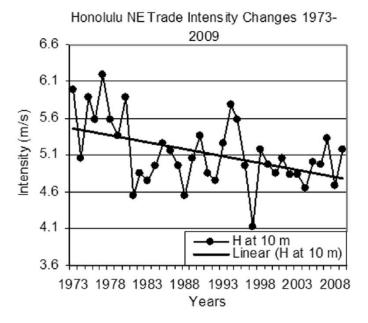




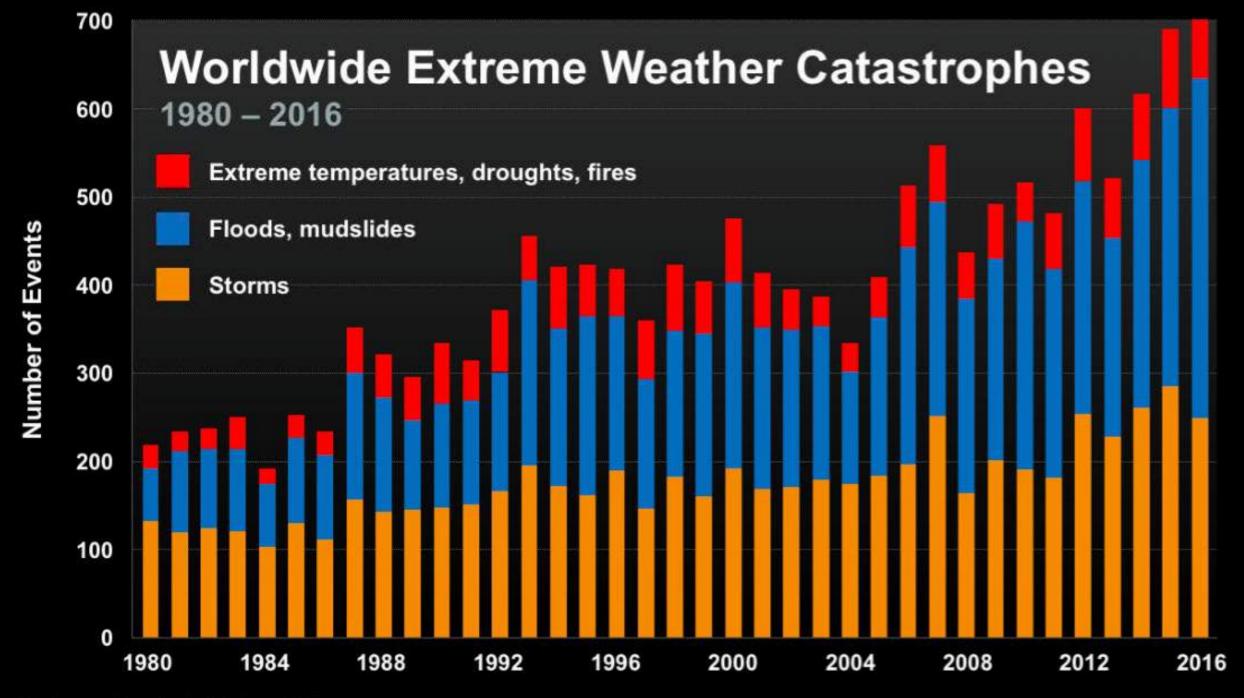


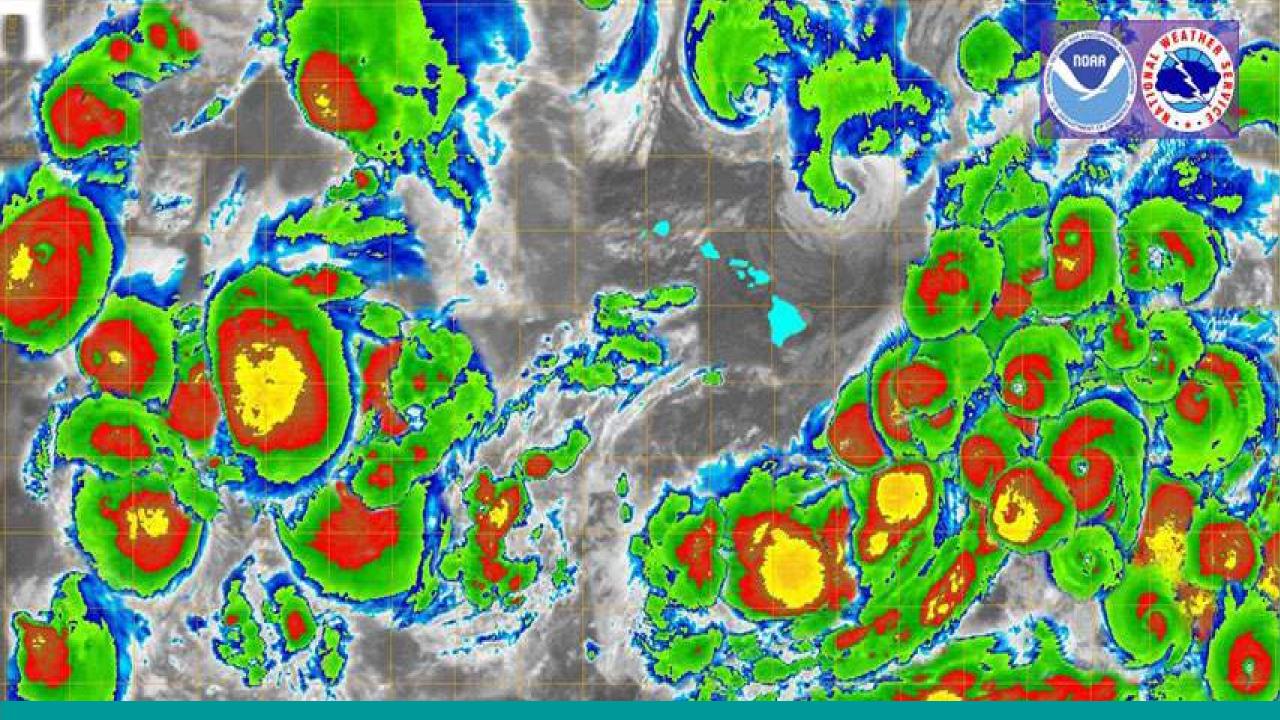






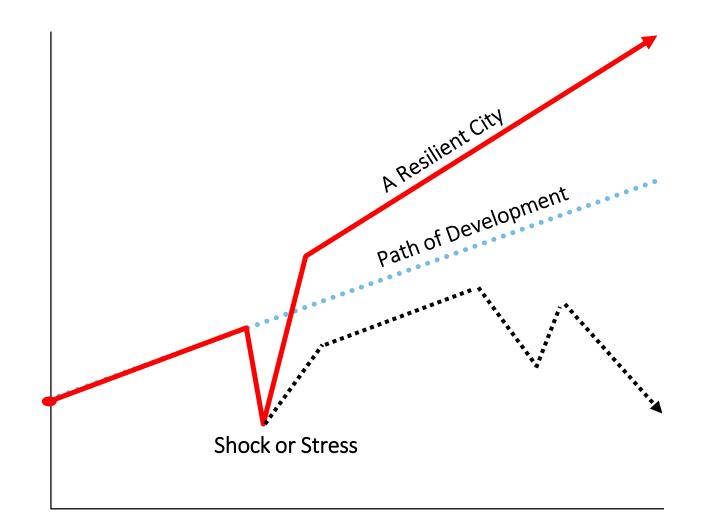
















How do we roll the windows down?





Early Progress







100% Renewable Ground Transportation Goal

35% Tree Canopy Commitment

LED Streetlights, Bike Lanes, Biki & Electric Bus Trials



Mayor's Directive on Climate Change



City Climate Change Commission

- Required to meet at least 2x/yr
- First met on February 7, 2018
- Have met 12x in 13 months

www.resilientoahu.org/about-the-commission







City Climate Change Commission

June 5, 2018, adopted:

Climate Change Brief
Sea Level Rise Guidance

www.resilientoahu.org/guidance-and-publications



July 16, 2018, Mayor's Directive on Climate Change
(Directive 18-2): "... the need for both climate change
mitigation and adaptation... take a proactive approach in
both reducing greenhouse gas emissions and adapting to
impacts..."









PROJECT DESIGN/REVIEW EXAMPLES

City Center rail station areas planning and design (HART)

Prior to Directive 18-2, proactively increased SLR design parameters from 2014 data to 2017 State Report data

Iwilei-Kapālama (DPP, DDC, CCSR)

Kapālama Canal, updated SLR data and design conditions for catalytic linear park project I-K Infrastructure Needs Assessment

Sand Island Wastewater Treatment Plant Secondary Treatment Facility (ENV)

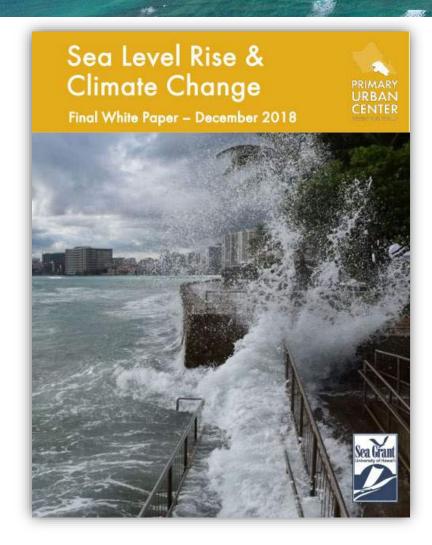
Inclusion of 6 ft SLR, high wave flooding, plus additional uncertainty risk factors for preliminary grading designs

Standard Comments for action reviews (*DPP* **)**





Primary Urban Center Development Plan





https://www.pucdp.com/copy-of-background-documents

Land Use & Zoning Recommendations
Use of data

SLR-XA maps at summer workshops for targeted community engagement on land use strategies Concurrently, **TOD Climate Adaptation Guidelines** (*DPP, Resilience Office*)

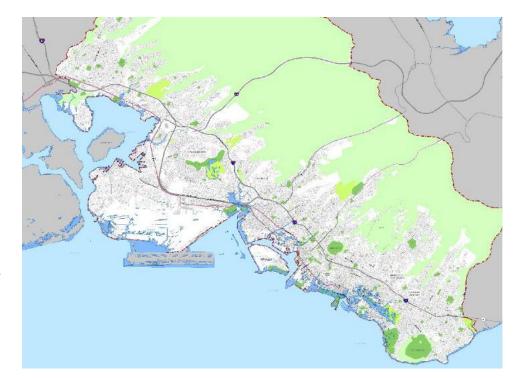
HB1487 HD1 SD2, "Establishes the Honolulu shoreline climate protection project..."





- City-State-Federal Coordination, examples

- San Diego, CA: MOA between Commander, Navy Region SW and San Diego Unified Port District regarding Coordination and Cooperation Related to Potential Sea Level Rise in the San Diego Bay Region
- Norfolk & Virginia Beach, VA: Joint Land Use Study for Navy installations located in the Cities of Norfolk and Virginia Beach
- State TOD Council Planning and Infrastructure Coordination between the State & City, Iwilei-Kapālama



DPP, PUC DP SLR and Climate Change White Paper













Annual Sustainability Report

OUR COMMITMENTS

Paris
Aloha+
Chicago
Carbon-Free Economy
2-1.1 18-221 6-503(c)

Paris
Aloha+
Chicago
Sustainable City Operations

Paris
Aloha+
Chicago
Clean Transportation

32 17-166 6-903

Aloha+
Chicago
100% Renewable Energy
2-8.4 16-46 6-1703
(9)

Paris Aloha+ Chicago Water Security

Paris = Paris Climate Agreement Aloha+ = Aloha+ Challenge Chicago = Chicago Climate Charter



City Ordinance



To learn more about our City commitments, visit resilientoahu.org/major-initiatives.



In 2016, the same year Honolulu was selected as a member of The Rockefeller Foundation's 100 Resilient Cities, voters created the Office of Climate Change, Sustainability and Resiliency.

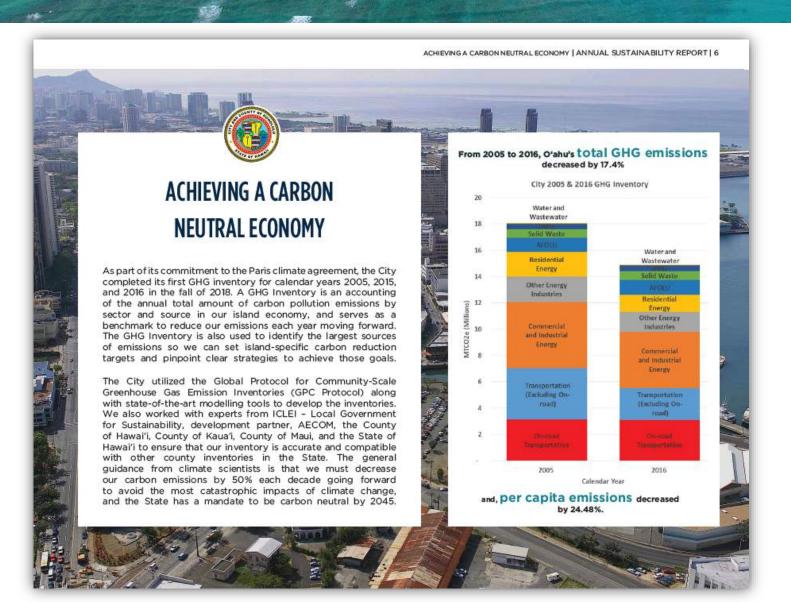
Two years later, Honolulu has become one of the leading cities in addressing the impacts of climate change. Honolulu is now signed onto the Paris climate agreement, Chicago Climate Charter, is a member of the Powering Past Coal Alliance, and most recently, was announced as one of 25 winning cities in the \$70 million Bloomberg Philanthropies' American Cities Climate Challenge.

In December 2018, the City Council adopted Resolution 18-221 demonstrating strong City support for achieving a 100% renewable-powered City transportation fleet by 2035, as well as a 100% clean energy and carbon neutrality future island-wide by 2045.

This demonstrates that the commitment to a climate resilient O'ahu is one shared by both branches of City government and is institutionalized in the City Charter.

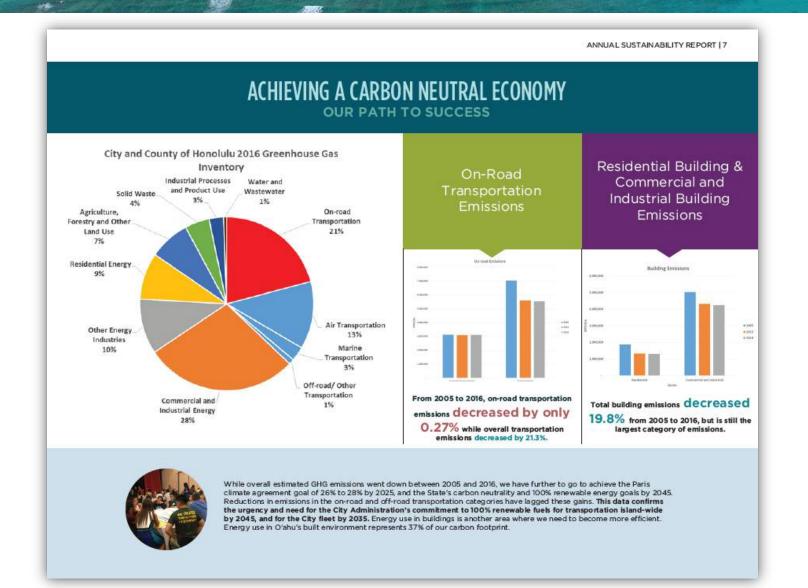












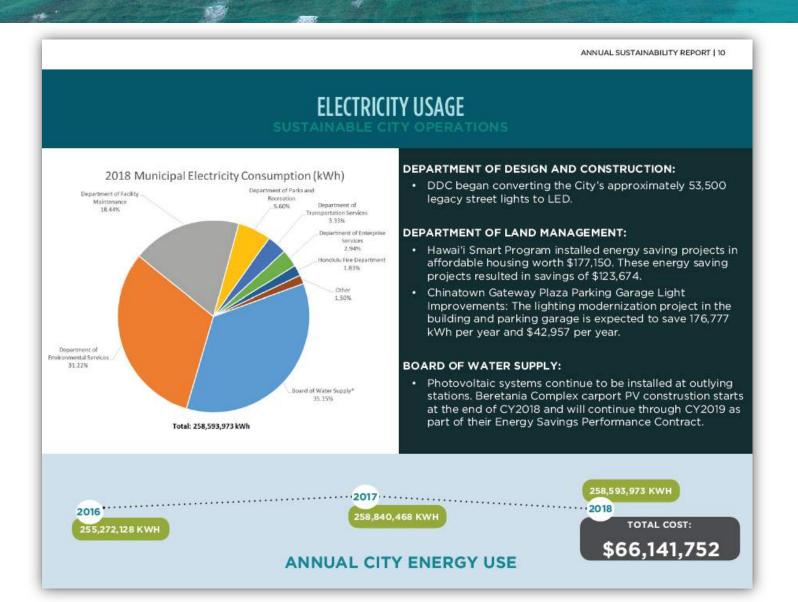






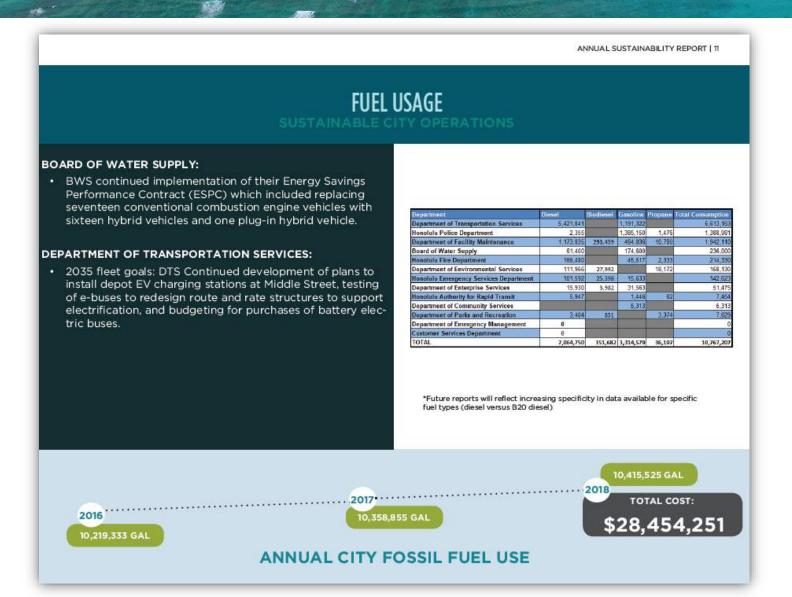












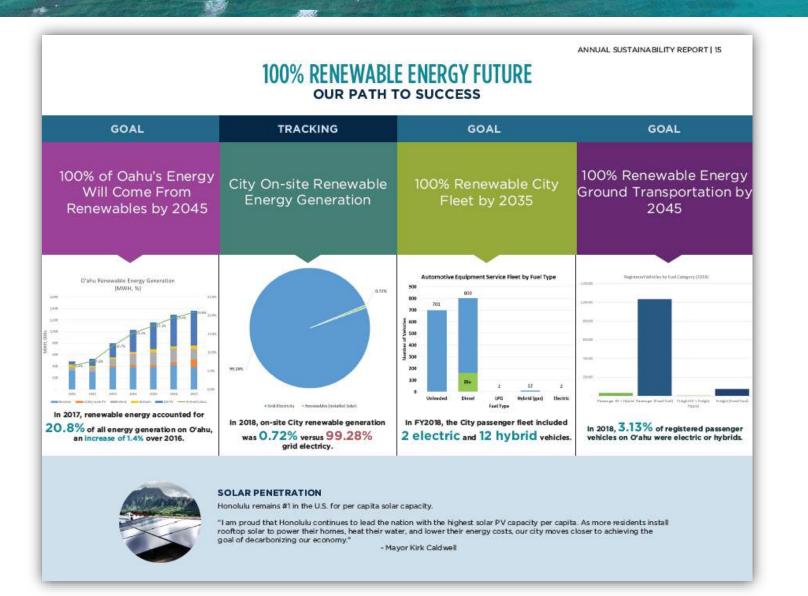






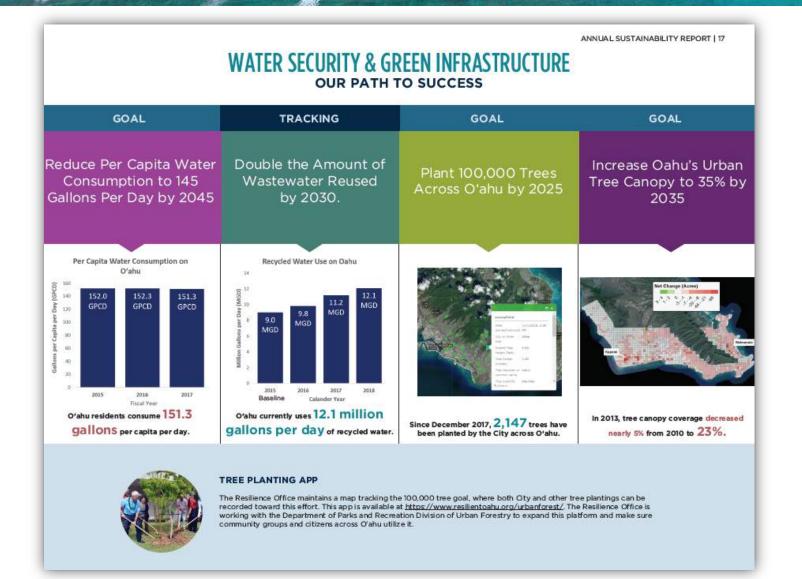






















Annual Sustainability Report

HOW WE COMPARE: NATIONAL GRADES & RATINGS

While we recognize O'ahu is unique, its helpful to compare our progress to other communities as we all race to become more sustainable and resilient. Year over year, we will track our progress in these national benchmarks and continue to improve our progress over time.



