



Hawai'i DOT takes  
**unprecedented  
steps** to improve  
airports, highways  
and harbors



# Simplifying complexity. Preserving paradise.

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Delivering infrastructure solutions in a  
geographically complex environment.

**Larry Augustine**  
Manager, Engineering  
Johnson Controls

**Phillip Lowery**  
Director, State Government  
Johnson Controls



# Safer, Smarter Buildings & Cities



-  CONTROLS
-  HVAC EQUIPMENT
-  SECURITY
-  FIRE & HAZARD PROTECTION
-  BUILDING SERVICES & PARTS
-  LIGHTING, CONTROL & RETROFIT
-  OPERATIONAL INTELLIGENCE & LOSS PREVENTION
-  ENERGY STORAGE
-  RETAIL SYSTEMS

 TOTAL BUILDING MANAGEMENT SYSTEMS

130+  
YEARS OF  
INNOVATION

117,000  
EMPLOYEES

316,000+  
VOLUNTEER  
HOURS  
Recorded  
in 2015

4+ MILLION  
CUSTOMERS GLOBALLY

\$30  
BILLION  
ANNUAL  
REVENUE

PAID  
CONSECUTIVE  
DIVIDENDS  
SINCE  
1887

MORE THAN  
8,700  
ACTIVE  
PATENTS

LEADER



- Building Products, Technologies & Integrated Solutions
- Energy Storage

\$78  
MILLION  
IN CHARITABLE  
CONTRIBUTIONS  
in the Past 5 Years

HEADQUARTERS:

Cork, Ireland  
Milwaukee, WI, USA  
Shanghai, China



NEARLY  
2,000  
LOCATIONS  
WORLDWIDE



SERVING  
CUSTOMERS IN  
150+  
COUNTRIES

## Serving State Governments

Creating budget relief by improving the net financial position of the state





# The Hawai'i Challenge

## **Hawaiian Islands are the most remote islands in the world**

- Hawaii has the highest utility rates in the nation
- Each island has its own generation capacity and electrical grid
- There is no interconnection of grids between islands

## **90+% of electricity is generated via fossil fuel**

- \$5.1B leaves Hawaii economy annually for fuel costs alone
- Renewable Energy and Sustainability is key to keeping these dollars at home

## **State is committed to renewable technology and sustainability**

- Governor Ige's goal is 100% renewable by 2045
- State committed to Performance Contracting as an important tool towards achieving this goal



An aerial photograph of a densely populated city, likely San Jose, Costa Rica, showing a vast residential area with numerous houses and buildings. The city is situated in a valley, with a prominent mountain range in the background under a clear sky. The foreground shows a hillside with dry, brownish vegetation. The text is overlaid on the left side of the image.

**The largest  
single-state  
ESPC in the  
country.**





Airports



Harbors



Highways

# Preserving Paradise



12 Hawaii DOT airports



98,000 lighting fixtures upgraded to LED



9 Commercial Harbors



24,400 solar photovoltaic panels



1,500 miles of State Roadways on Oahu & Maui

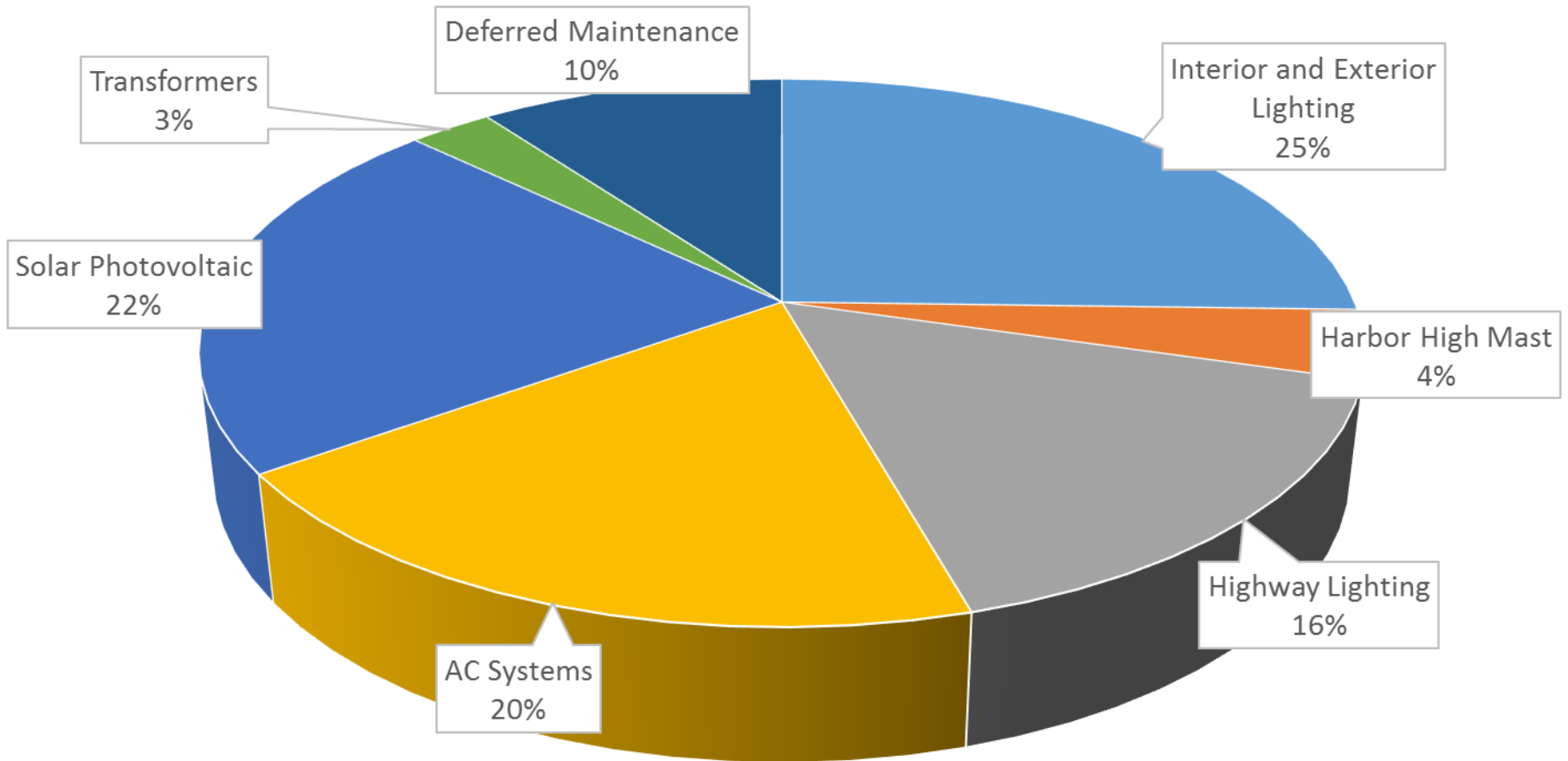


Air conditioning upgrades



Deferred maintenance items

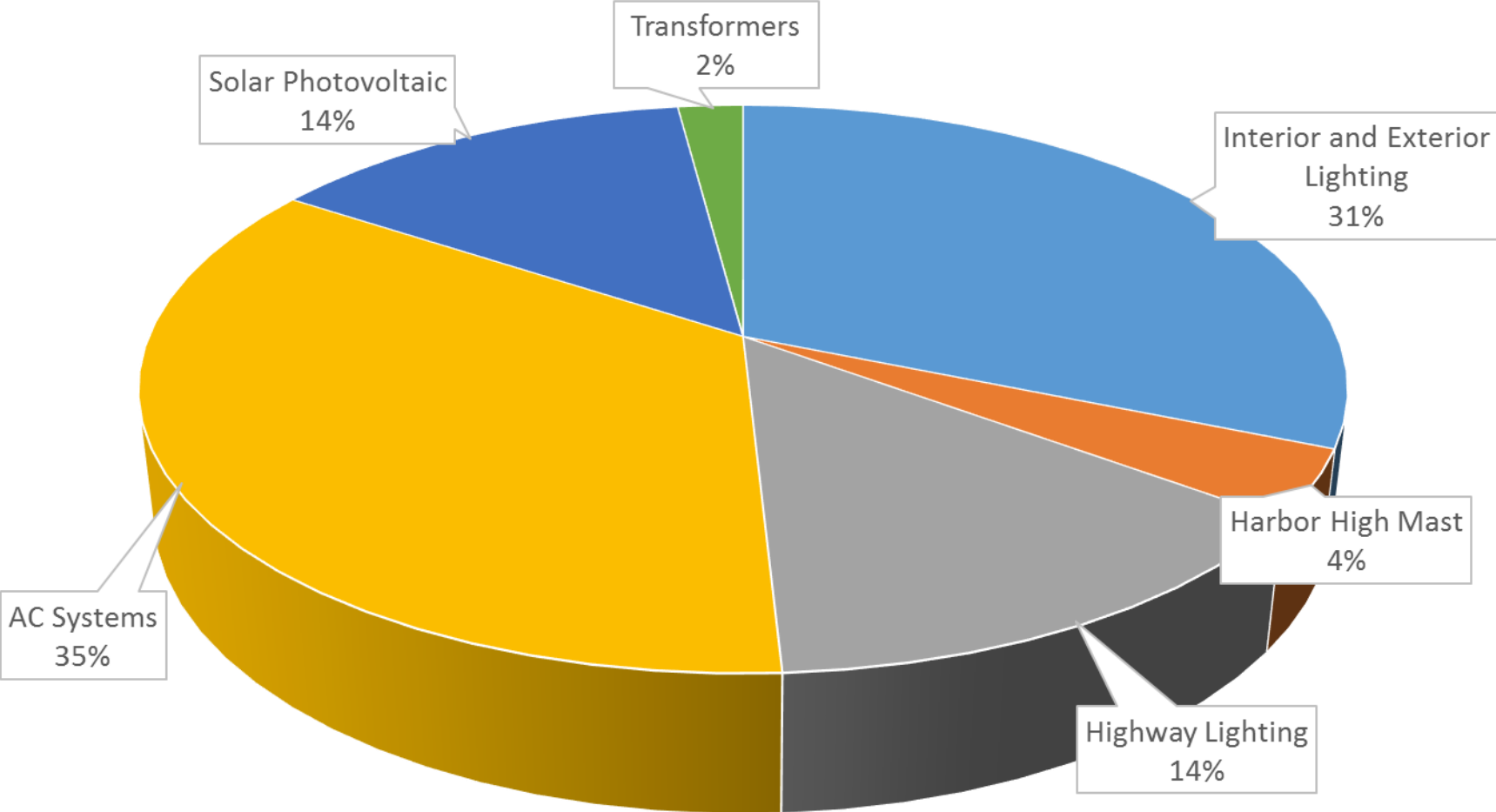
# The Investment in Sustainability





# First Year Energy Savings

# \$25M



**7,962**

jobs local  
created

**8 MW**

renewable  
energy

**\$27.3M**

in tax  
revenues

**100%**

renewable  
by 2045

**Sustainable  
Hawai'i**

**\$186.6M**

in income to  
households

**49%**

reduction  
in energy

**\$710M**

Guaranteed  
savings

**\$865M**

economic  
development





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