## HP Reinventing Energy Management

**Smart Energy Decisions Conference** 

Mary Curtiss, Head of Energy and Sustainability HP Corporate Real Estate and Workplace Services February 26, 2018



### Agenda

- HP's commitment to sustainability
- Energy management at HP
- Building a program
- The path forward

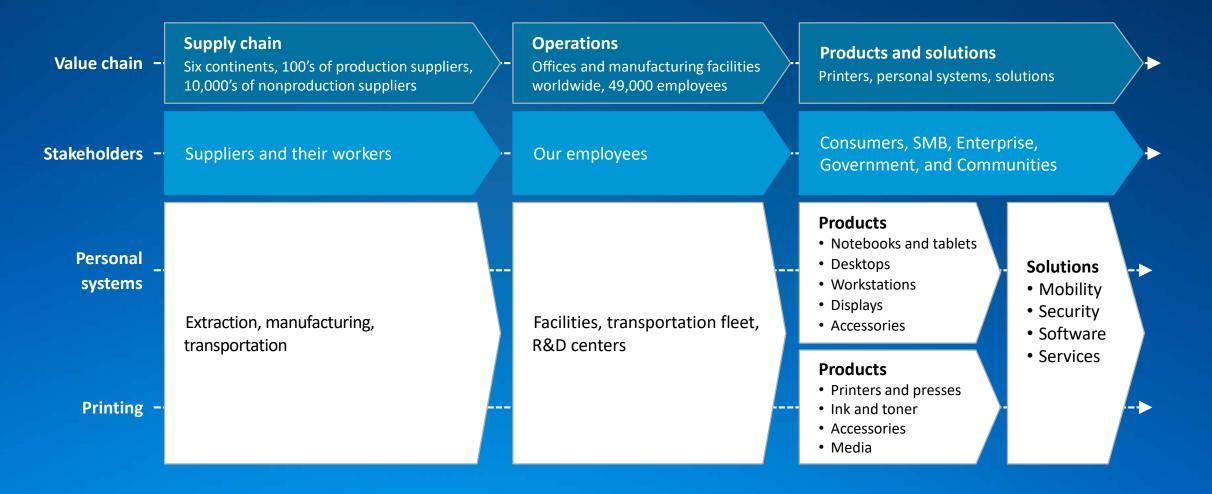
# Sustainability at HP

"At HP, we're reinventing for a better world. Sustainability guides every aspect of our business, fuels our innovation and growth, and works to enable everyone, everywhere to thrive. It is the right thing to do for our business, for society, and for the long-term future of our planet."

-CEO, Dion Weisler

### HP business model

Sustainability is integrated throughout our business model



#### **Operations Overview**

- 200 global sites
- CDP, RE100
- Operations team
- Goals

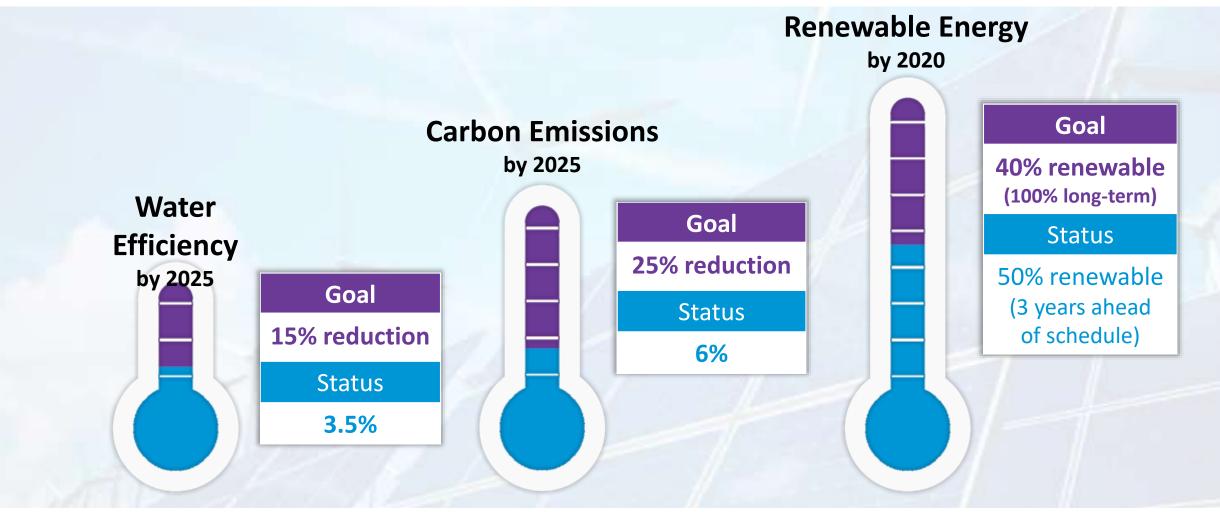


#### CREWS Energy & Sustainability Team



### Our global sustainability goals

#### Driving HP's commitment to the environment





### **Energy management challenges**

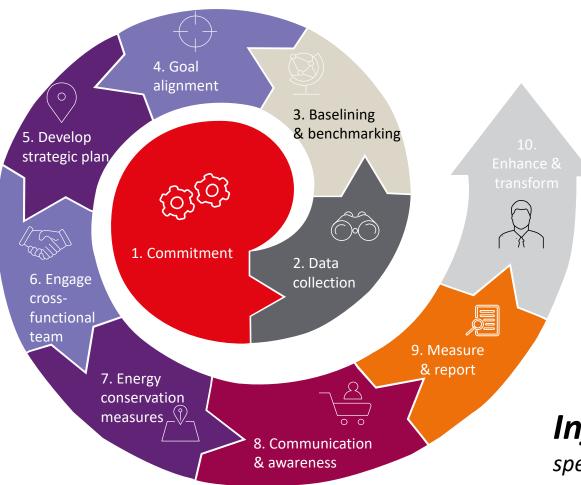
- Data
- Limited capital
- Small team, global portfolio
- Incentives misaligned

#### Creating a programmatic approach



= Program Success!

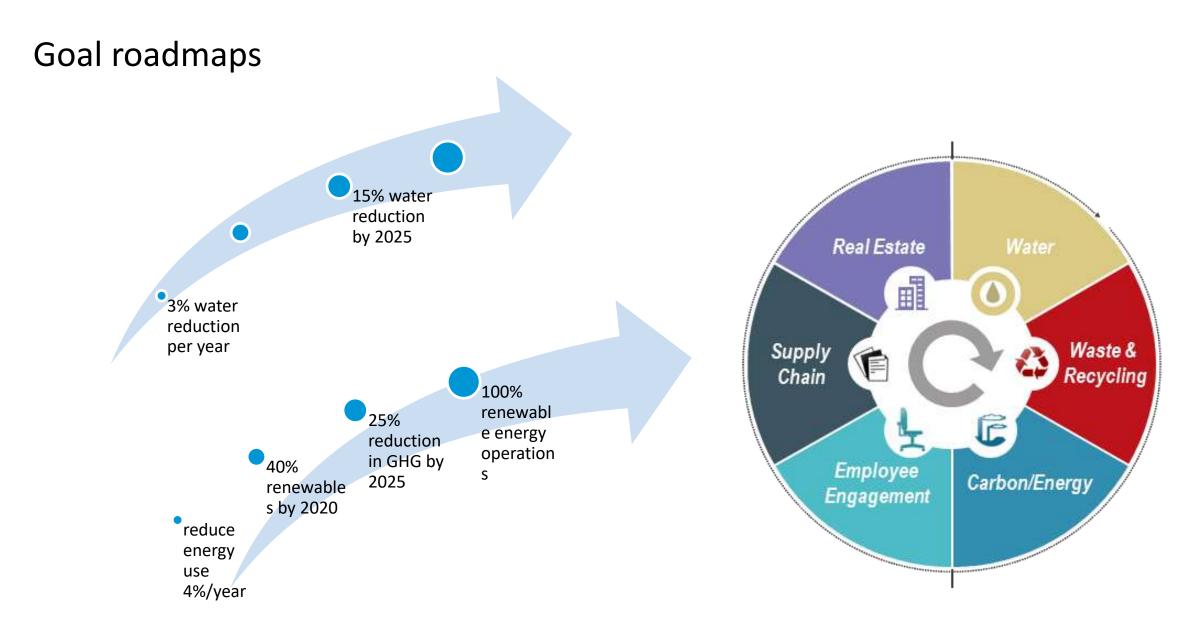
#### 10-step process improvement method built into facility operations



Core principles of our sustainability program:

Principle	Outcome
Strong governance model	Accountability and support for each site Shared responsibility for resource management
Continuous improvement & feedback	Nimble approach to a changing operating environment Engagement & awareness
Information available at all levels	Drive data-based decisions

**Information**: data that is (1) accurate and timely, (2) specific and organized for a purpose, (3) presented within a context that gives it meaning and relevance, and (4) can lead to an increase in understanding and decrease in uncertainty.



#### **Example: Localizing energy management**

- Driving ownership into team
- Making data visible
- Tying to performance metrics
- Localizing goals
- Telling the story

#### HP Headquarters employee garden

- Site wide retro-commissioning project
- Saved equivalent of 250 homes powered for 1 year
- Rebate funds from CPAU
- Funds went into projects that created a healthy environment at work, including the Palo Alto Garden
- Employees key to achieving sustainability goals

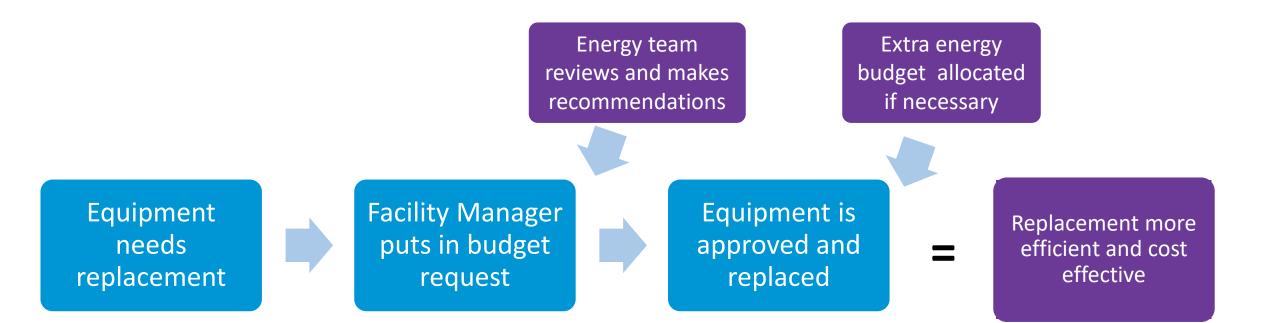
#### Example: end of life process

Equipment needs replacement Facility Manager puts in budget request

Equipment is approved and replaced



#### Example: end of life new process





Impactful energy management is about data, process, localization and aligned incentives.



# We all have a role to play



David Packard

