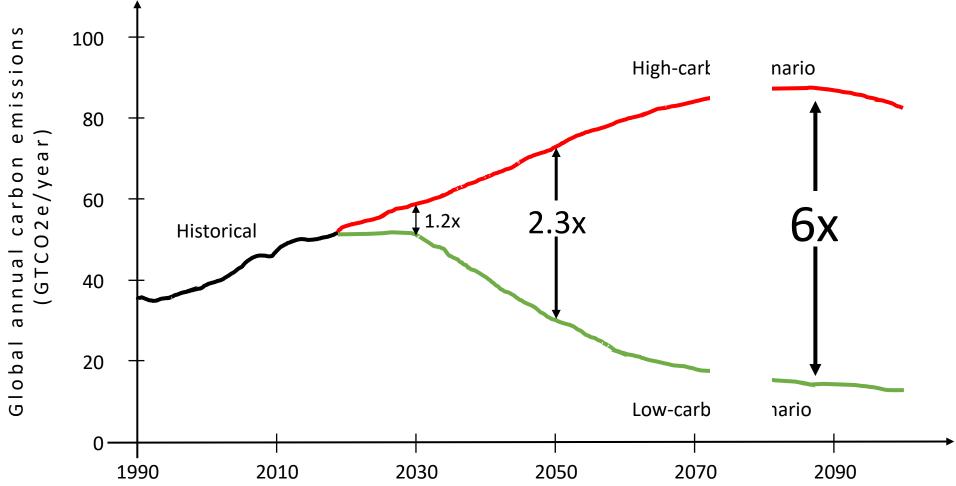


### Our Path Forward



### Our Carbon Footprint

#### **Product Use**



The use of the products we sell produces emissions accounted for in Scope 3. This includes emissions from the energy our products consume during customer use.



### Procurement and Product Manufacturing



Manufacturing and warehousing of Cisco components, products, and services produce upstream emissions that are accounted for in Scope 3.



#### Logistics



Transportation and distribution of our products in the value chain produce emissions that are accounted for in Scope 3.



#### **Direct Operations**



Emissions from the operation of Cisco facilities (electricity, fuel for heating and cooling, etc.) are accounted for in Scope 1 & 2.



Scope 1 & 2

Scope 3

SOURCE: Cisco FY23 Purpose Report. NOTE: Other value chain activities (e.g. waste and business travel) are also accounted for in Scope 3, but do not represent a large share of emissions. Percentages shown may be rounded.

### Sustainability: A Business Imperative

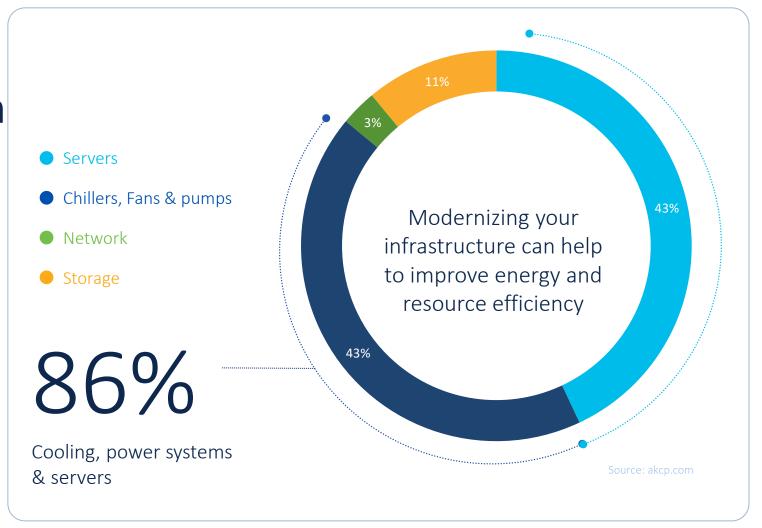
Twin transition: sustainable and digital	73%	of CxOs say becoming a "truly sustainable and responsible business" is a top priority <sup>1</sup>
Customer, investor and employee demand	68%	of consumers say environmental sustainability is extremely or very important to them <sup>2</sup>
Legislation, regulatory requirements, reporting standards, scrutiny	150	countries have a net zero target as of July 3, 2023 <sup>3</sup>
Business efficiencies and opportunities (e.g., public funding)	62%	of companies worldwide believe investments in IT are very or extremely important to reach sustainability goals <sup>4</sup>
Al is pushing infrastructure requirements	\$500B	Estimated CAPEX spend by 2027 in Data Center physical Infrastructure <sup>5</sup>

## Energy Consumption in Data Centers

#### Data centers represent

1-2% electricity use globally<sup>1</sup>

2021: 200 terawatt hours (TWh) per year 2030 Growth Estimate: 3,000 (TWh) per year



<sup>1</sup>https://www.iea.org/energy-system/buildings/data-centres-and-data-transmission-networks





# Transforming Data Center Infrastructure

Optimize efficiency, visibility, performance and cost across your networking and compute infrastructure

#### Build

Decrease Energy Consumption

Solutions designed with less energy and resources, reducing waste in systems

#### Deploy

Increase Energy Efficiency

Modern architectures enabling consolidation, power and cooling optimization and future-readiness

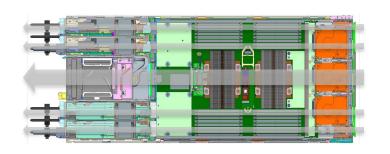
#### Operate

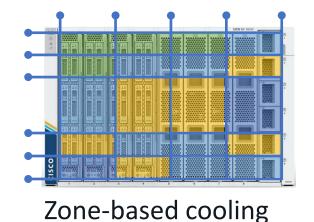
Cloud Managed Sustainability

Real-time
visibility of energy
consumption,
and workload
and resource
optimization



### UCS-X: Straight Airflow Thermal Solution









350 W CPU Airflow cooling with no compromise



200+ component sensor to feed cooling algorithm



Increased air cooling efficiency



Future Liquid cooling capability 500 W CPU liquid cooling



Optimized fan power with zone-based cooling



No midplane obstruction

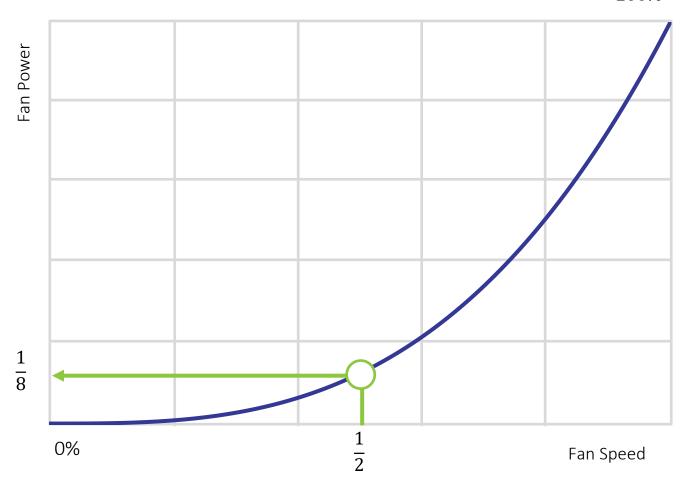


### Adopt the Highest Efficient Power Supply



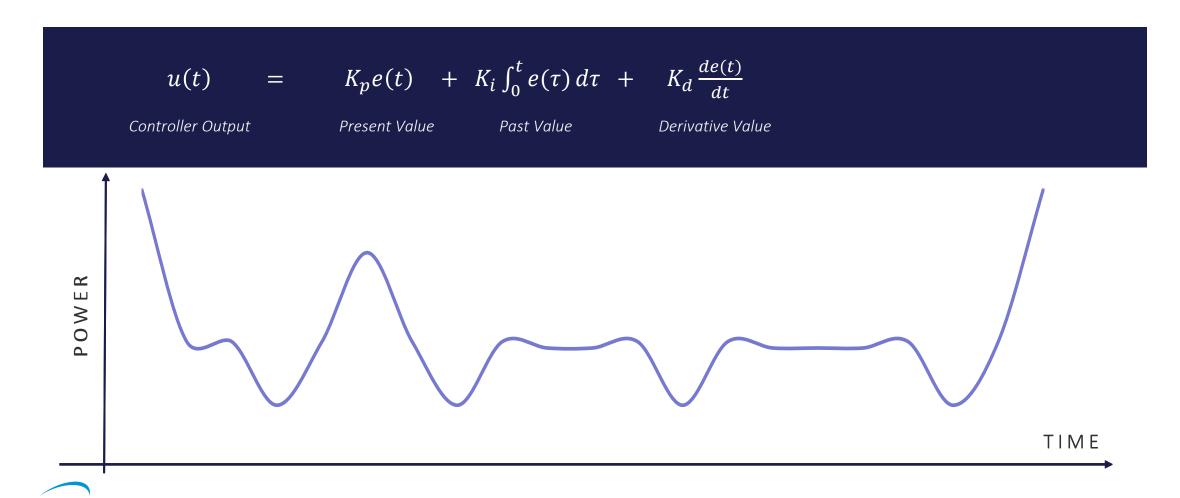


 $Fan\ Power \propto (Fan\ Speed)^3$ 





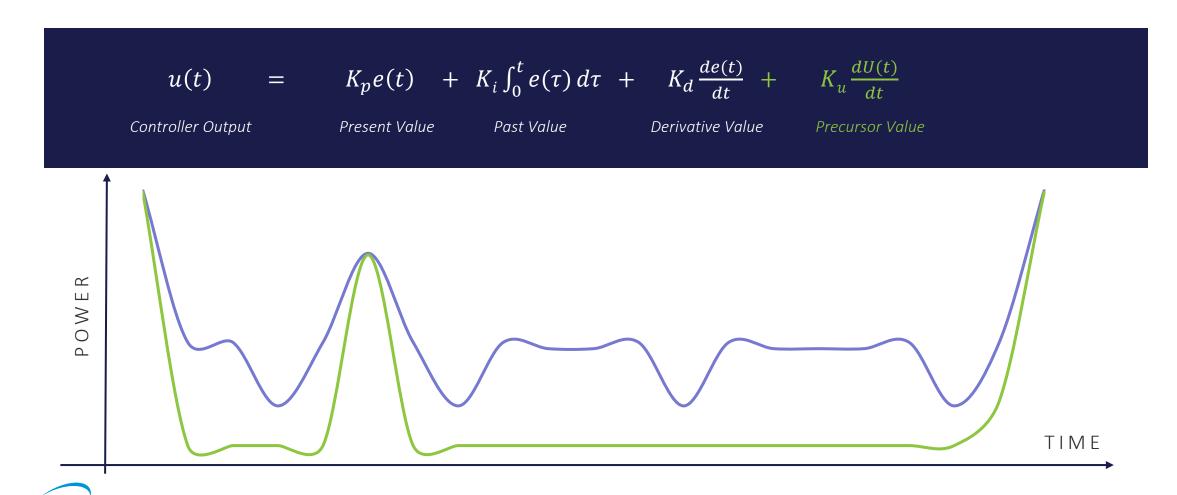
### Standard Proportional Integral Derivative



Cisco Confidential

the Future of Memory and Storage

### Precursor Proportional Integral Derivative

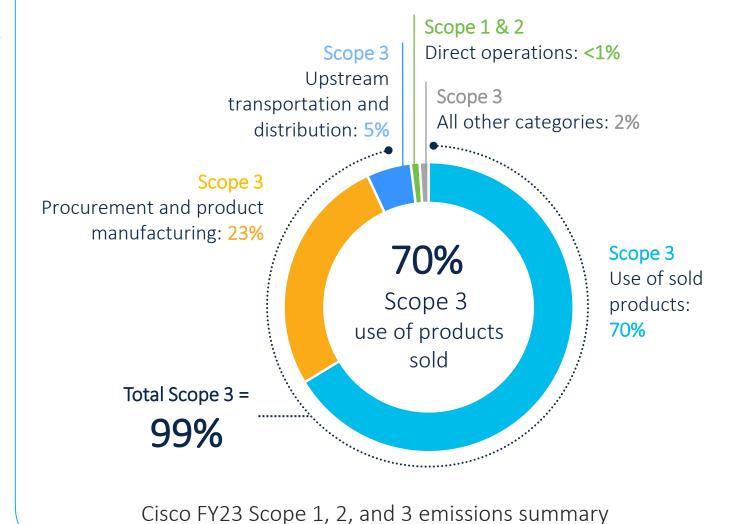


the Future of Memory and Storage

### Advancing Our Goals

#### How we are planning to reduce Scope 3

- Improving product energy efficiency
- Collaborating with partners to increase renewable energy use
- Embedding circular design principles across our business
- Goal: 80% of our component, manufacturing, and logistics suppliers by spend to set a public absolute GHG emissions reduction target by FY25





# Thank you

