

# KEY FACTS ABOUT SUSTAINABILITY AND ENERGY RESILIENCE IN BUILDINGS

## ENERGY DEMAND IN NUMBERS

BUILDINGS WORLDWIDE ACCOUNT FOR

**1/3+** OF ENERGY DEMAND<sup>1</sup>

**37%** OF CO<sub>2</sub> EMISSIONS<sup>1</sup>

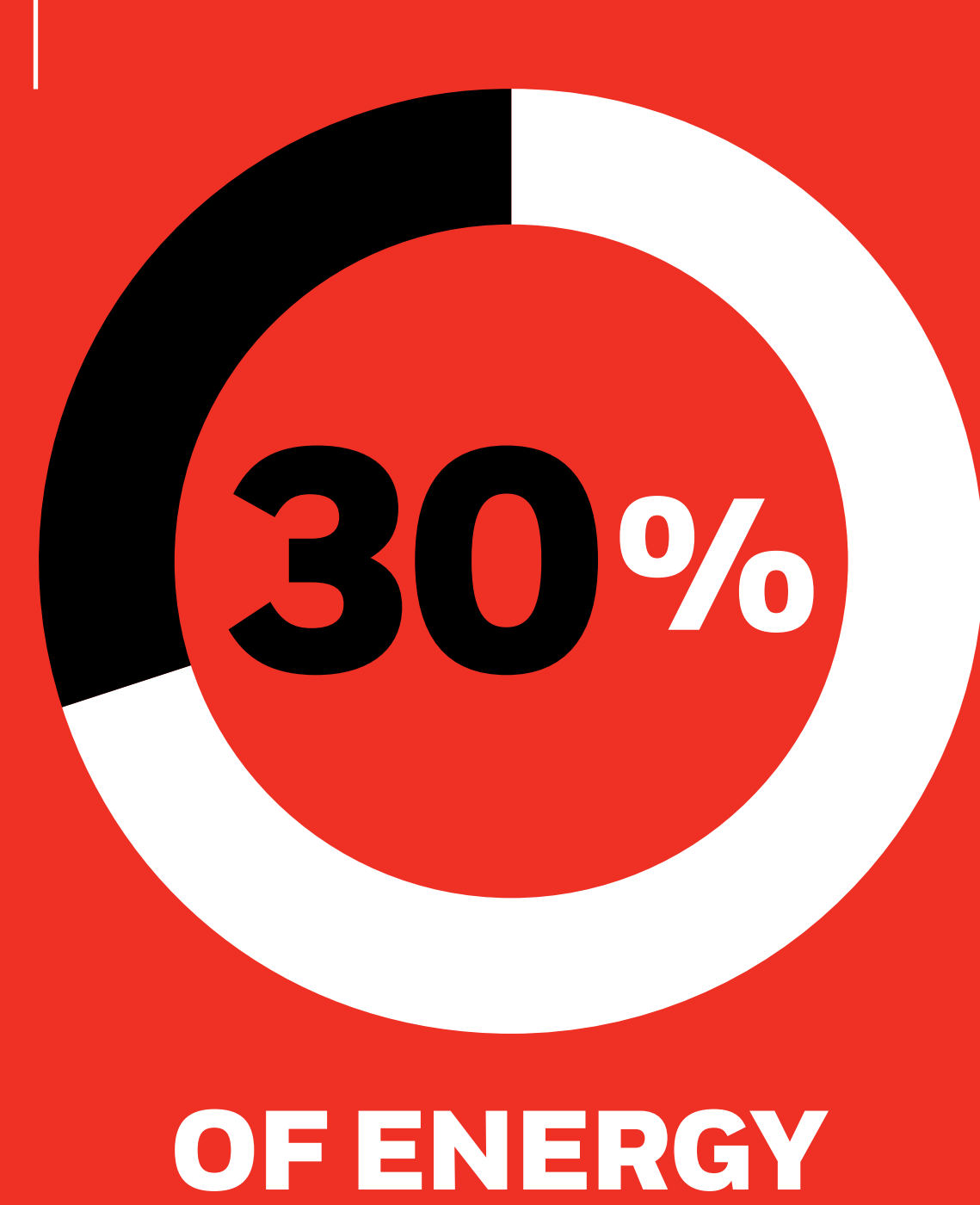
THE GLOBAL ENERGY DEMAND IS GROWING

**+3%** BUILDINGS' ENERGY DEMAND FROM 2019<sup>1</sup>

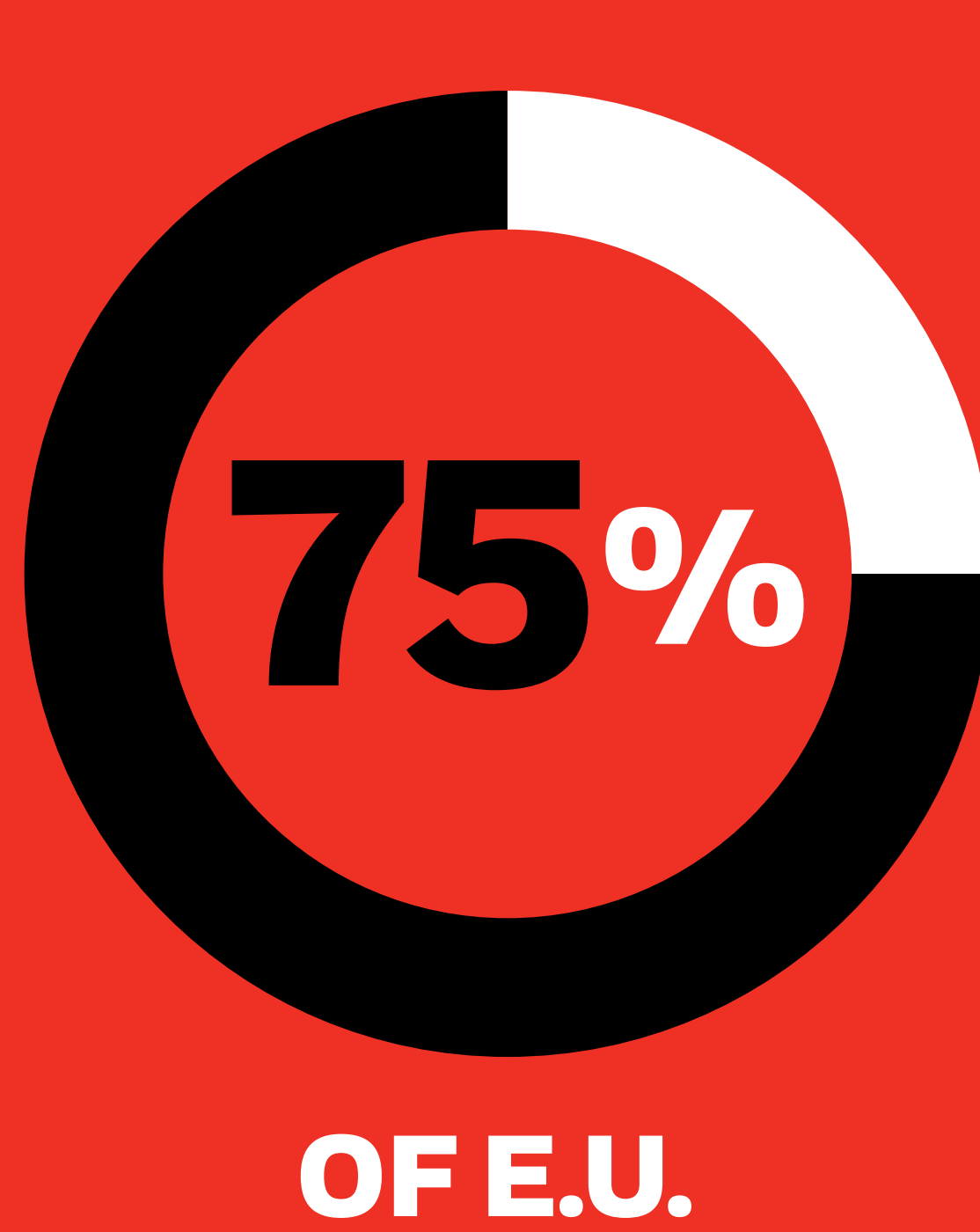
**3X** PROJECTED ELECTRICITY DEMAND BY 2050<sup>2</sup>

## ENERGY EFFICIENCY AT A GLANCE

### THE BAD NEWS IS

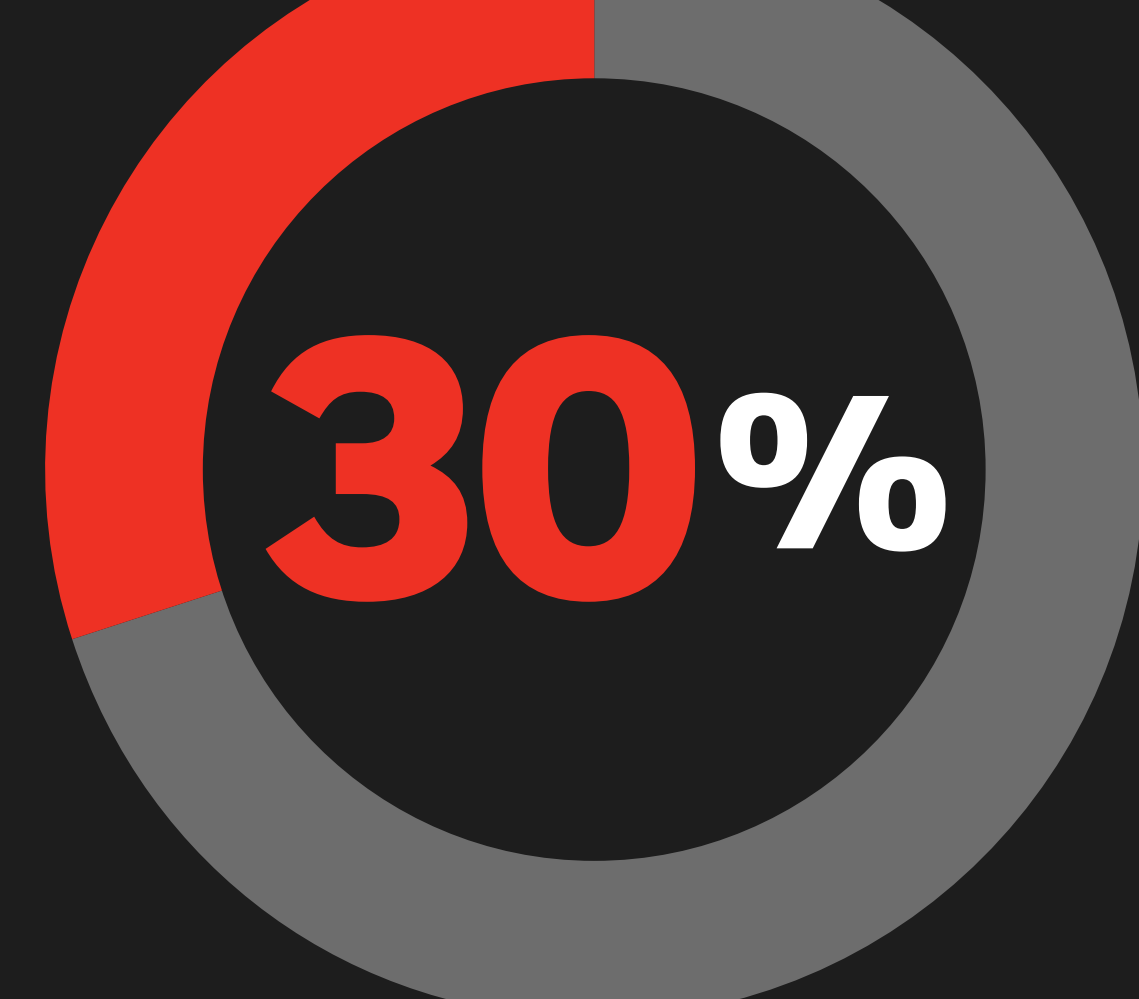


OF ENERGY USED BY U.S. COMMERCIAL BUILDINGS IS WASTED<sup>3</sup>



OF E.U. ARE ENERGY INEFFICIENT<sup>4</sup>

### THE GOOD NEWS IS



OF BUILDINGS IN AUSTRALIA AND SINGAPORE HAVE A SUSTAINABILITY RATING<sup>5</sup>



**7 IN 10**

BUILDINGS IN TOKYO ARE ENERGY EFFICIENT<sup>5</sup>

## THE WAY FORWARD

### 3 STEPS TO SUSTAINABILITY AND RESILIENCE

**1** ASSESS THE BUILDING NEEDS

**2** OPTIMIZE THE BUILDING

**3** CONDUCT ENHANCEMENTS TO SUPPORT SUSTAINABILITY AND RESILIENCE GOALS

### FREQUENTLY DEPLOYED ENERGY CONSERVATION MEASURES

- LIGHTING UPGRADES
- BMS UPGRADES/CONTROLS UPGRADES
- WATER CONSERVATION
- COMPUTER POWER MANAGEMENT
- BOILER PLANT UPGRADES
- AHU REPLACEMENT/REFURBISHMENT
- MOTOR REPLACEMENT/VFD INSTALLATION
- BUILDING ENVELOPE UPGRADES
- CHILLER REPLACEMENT/RETROFIT
- PLUG LOAD POWER MANAGEMENT

## SUSTAINABLE AND RESILIENT BUILDINGS: A HONEYWELL SUCCESS STORY

**\$9.2B** IN ENERGY AND OPERATIONAL COST SAVINGS

**3.4K+** SUSTAINABILITY AND ENERGY RESILIENCE PROJECTS

Download **THE ULTIMATE GUIDE TO SUSTAINABILITY AND ENERGY RESILIENCE IN BUILDINGS** to learn more about how financial models like ESPC and EaaS can be part of the solution.

[www.honeywell.com](http://www.honeywell.com)

THE FUTURE IS WHAT WE MAKE IT

**Honeywell**

1. UN Environment Programme, CO<sub>2</sub> Emissions from Buildings and Construction Hit New High, Leaving Sector Off Track to Decarbonize by 2050, November 9, 2022 (Accessed August 15, 2023)  
2. McKinsey, Innovating to net zero: An executive's guide to climate technology, 2021 (Accessed September 28, 2023)  
3. U.S. Department of Energy, About the Commercial Buildings Integration Program, 2023 (Accessed August 15, 2023)  
4. Energy Commission, Energy Performance of Buildings Directive, 2002 (Accessed August 15, 2023)  
5. Cushman and Wakefield, ReThinking The Office Sector: Optimising Your Asset for a New Era, June 2023 (Accessed August 25, 2023)