

# The Clean Power and Electrification Pathway

Vishal C. Patel  
Principal Manager - Technology Strategy  
Southern California Edison

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# A dangerous situation

Southern California is one of the most desirable places to live.

It also has some of the **worst air quality** in the nation despite significant progress to improve.

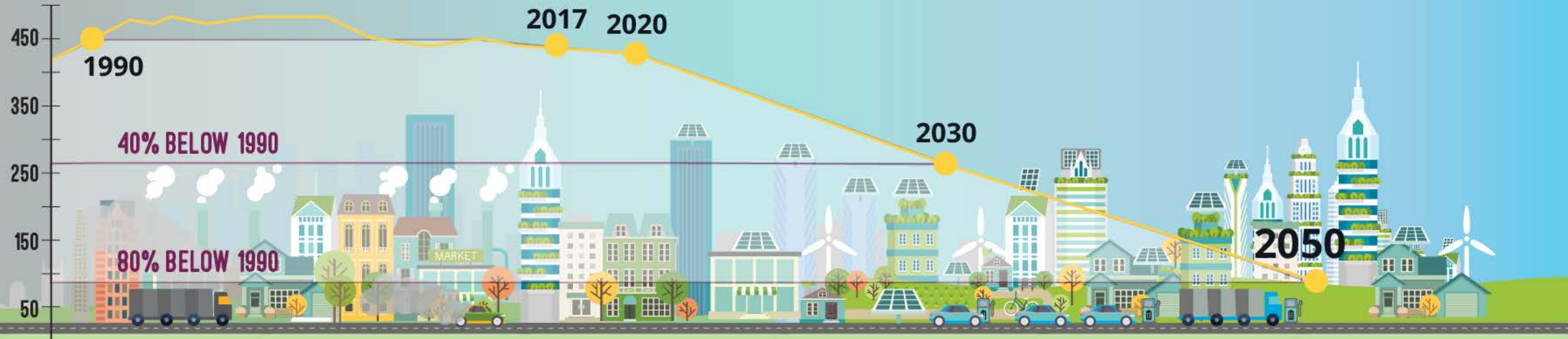
Climate change is causing sea levels to rise and heat waves to become more intense.

**By burning fossil fuels, we are making each other sick.**

# Goals to improve

- California set a goal to **reduce emissions 40%** below 1990 levels by 2030, and 80% by 2050.

Million Metric  
Tons of CO<sub>2</sub>



If we want to get to **zero emissions**, eventually we have to **replace** many of the things we rely on today that require combustion.

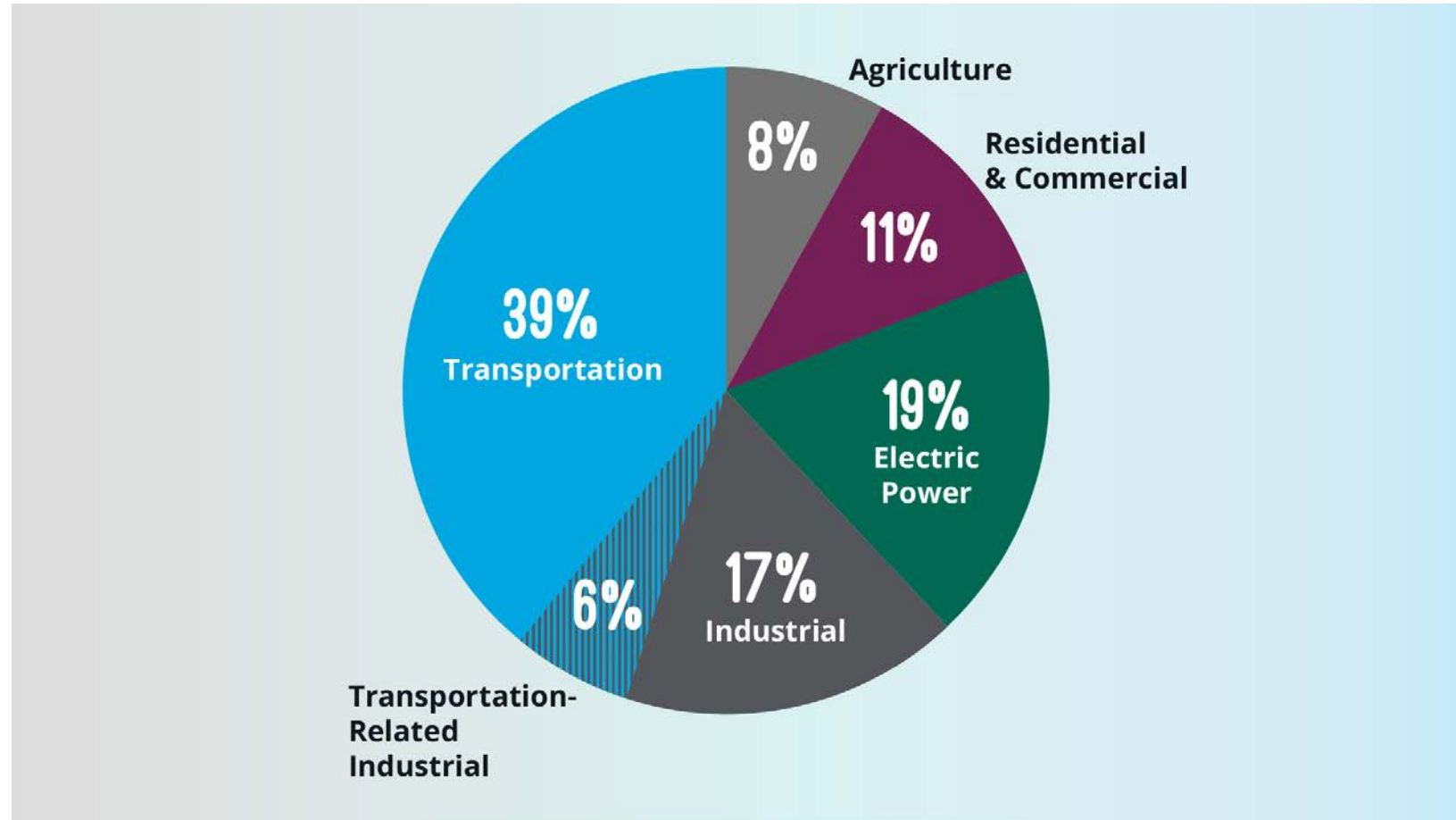


# Emissions contributors

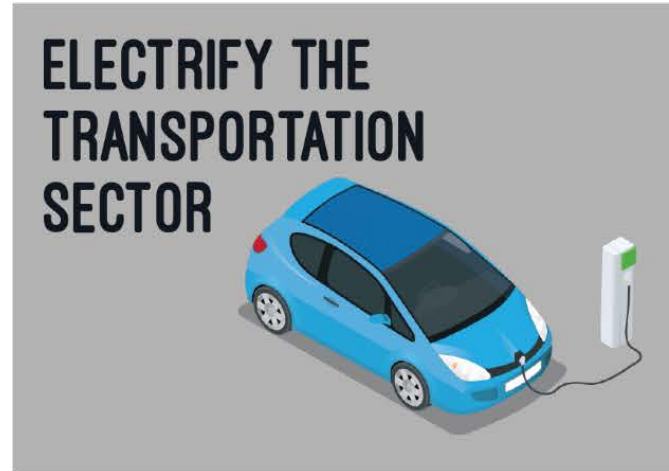
- The largest contributor is **transportation**, followed by the electric sector.

Industrial, and commercial and residential sectors trail not too far behind.

- The most **practical and economical** way to create real change is for sectors to **work together** to find an affordable alternative to fossil fuels.



# SCE's integrated solution



**Clean the power grid. And electrify.**

# Solution Part 1: Clean the power grid

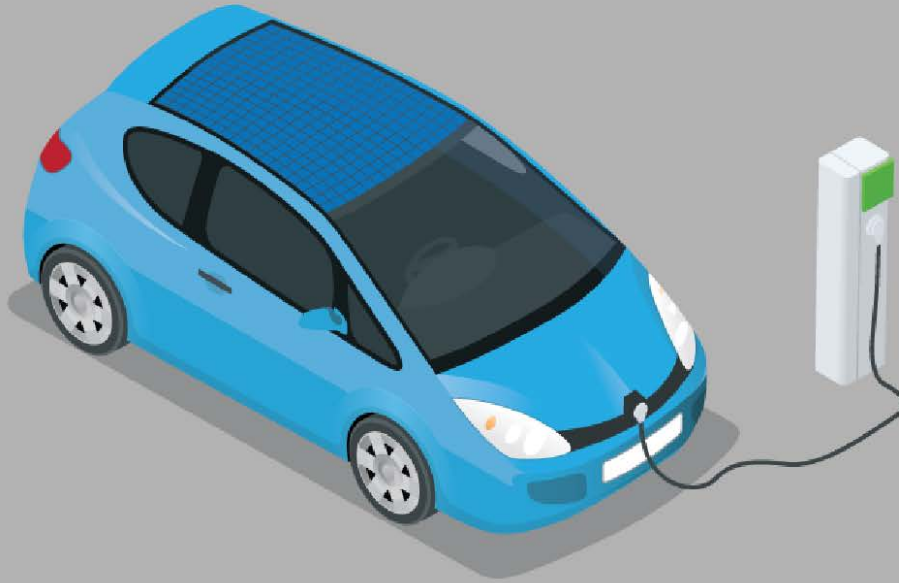
## DECARBONIZE THE ELECTRIC SECTOR



- By 2030, create an electric generation mix powered by at least **80% carbon-free resources**.
- More **solar, wind, hydropower** and other zero-emission sources, along with **battery storage**.
- Currently at about 40%.

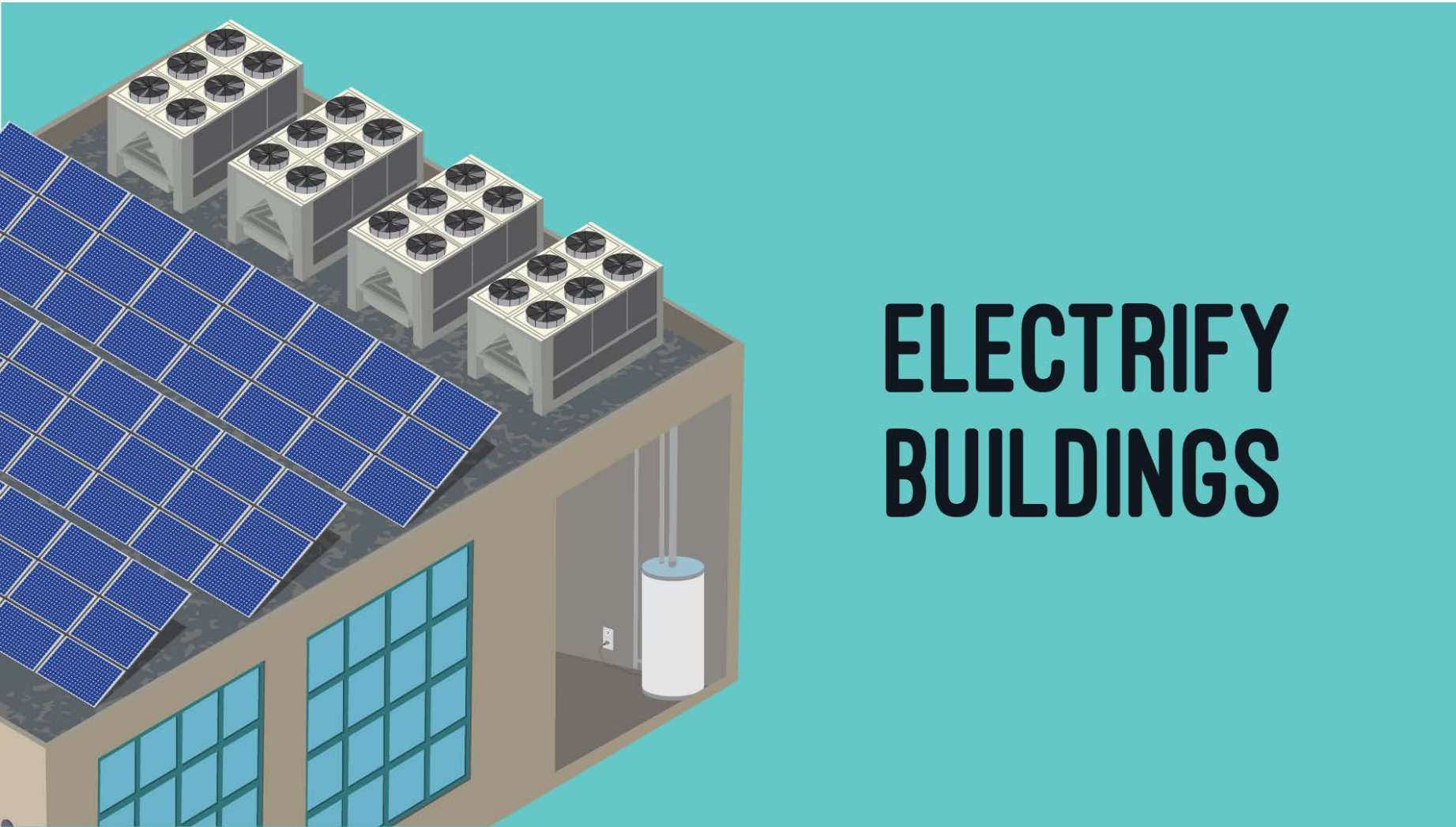
## Solution Part 2: Electrify vehicles

# ELECTRIFY THE TRANSPORTATION SECTOR



- By 2030, **electrify 25% of cars and trucks** – about 7 million in total.
- Transportation accounts for **39%** of emissions today.
- Use **zero-emission** electric generation to power zero-emission vehicles.

# Solution Part 3: Electrify buildings



## ELECTRIFY BUILDINGS

- By 2030, electrify **one-third** of space and water heating in buildings.
- Buildings use **fossil fuels** for space & water heating, and they **don't need to**.
- Now powered by clean, **affordable** electricity.



**Imagine a world where the energy that powers our lives and propels us forward is provided by the Earth's clean resources.**

This is our clean energy future.



# Aligning your efforts with SCE's Clean Power and Electrification Pathway



**Thank you, any questions?**