

The Clean Power and Electrification Pathway

Southern California Edison's proposal to fight climate change and improve air quality



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.

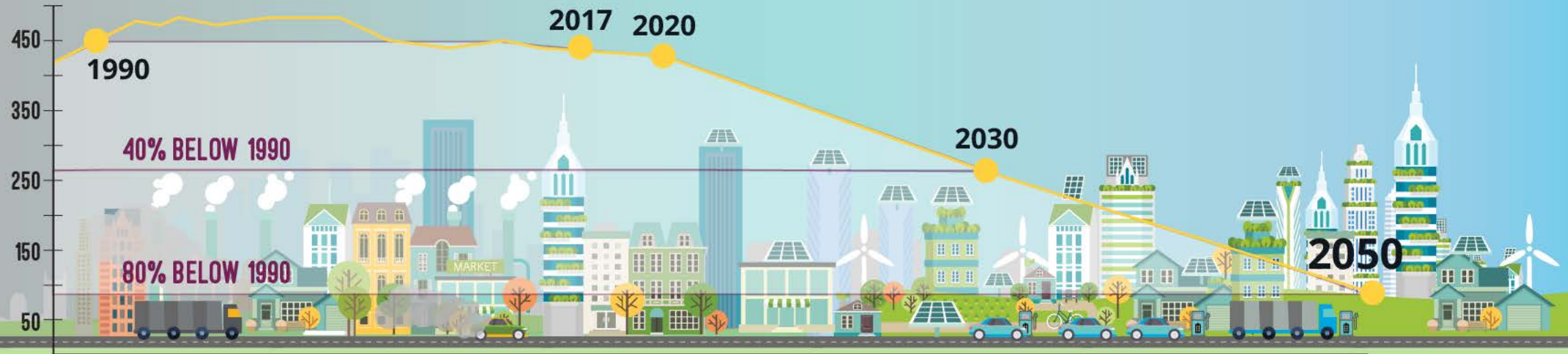
Climate change is causing sea levels to rise and heat waves to become more intense.

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 CO₂



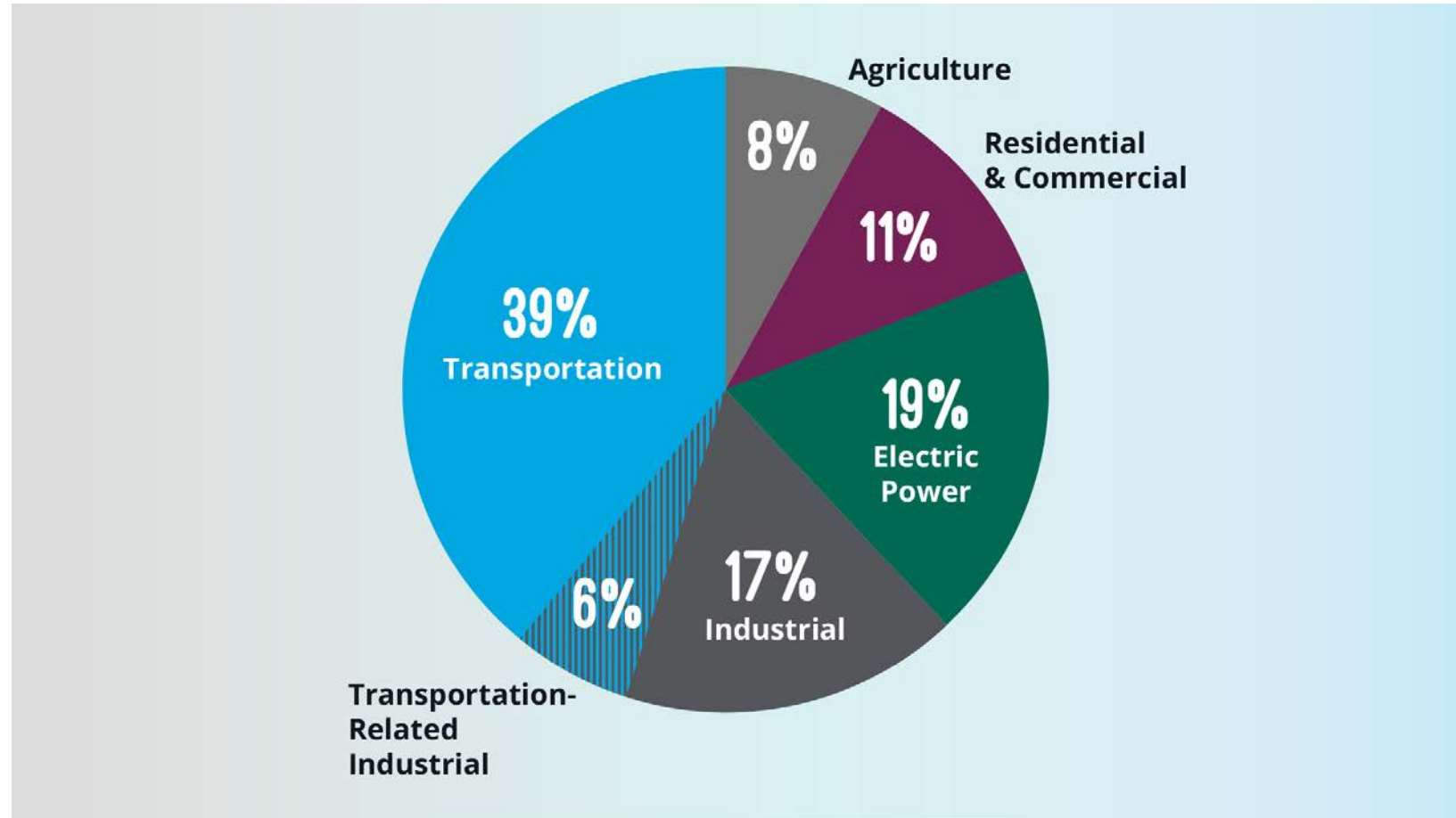
If we want to **reduce emissions**, eventually we have to **replace** many of the things we rely on today that require combustion.

Emissions contributors

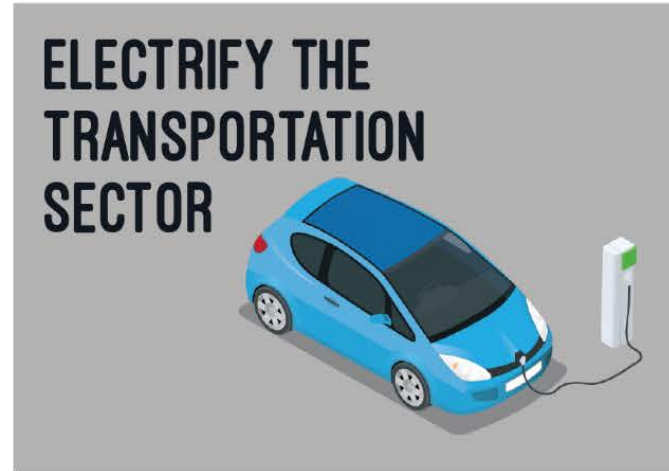
- The largest contributor is **transportation**, followed by the electric sector.

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

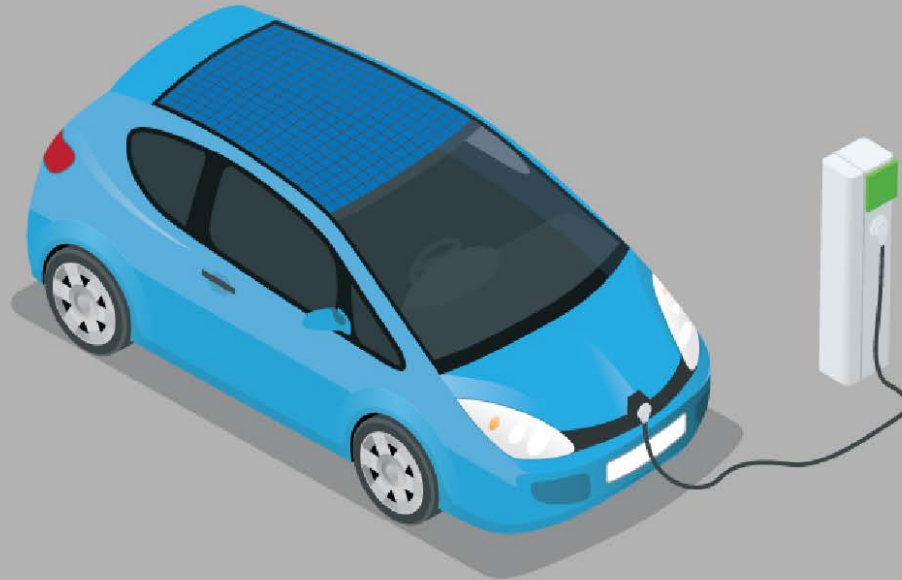
DECARBONIZE THE ELECTRIC SECTOR



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

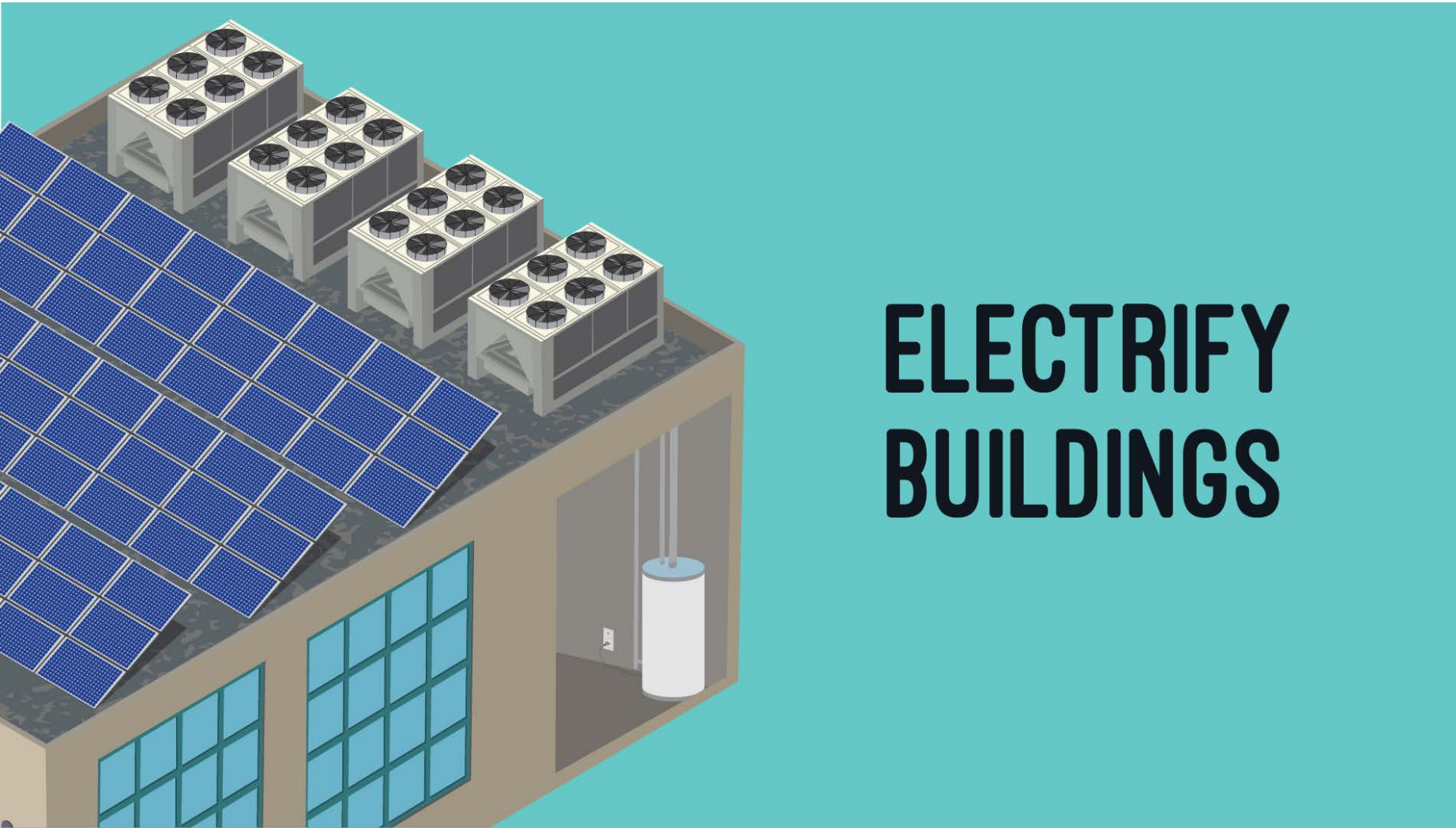
Solution Part 2: Electrify vehicles

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.

