Climate Challenges

RIVERSIDE AND SAN BERNARDINO COUNTIES

THRIVE Inland SoCal

Thrive Inland SoCal is a comprehensive, collaborative, and inclusive regional economic development effort working to boost quality job creation and expand access to quality jobs and wealth-building for all Inland Empire residents, especially those that have been historically disinvested and underrepresented.

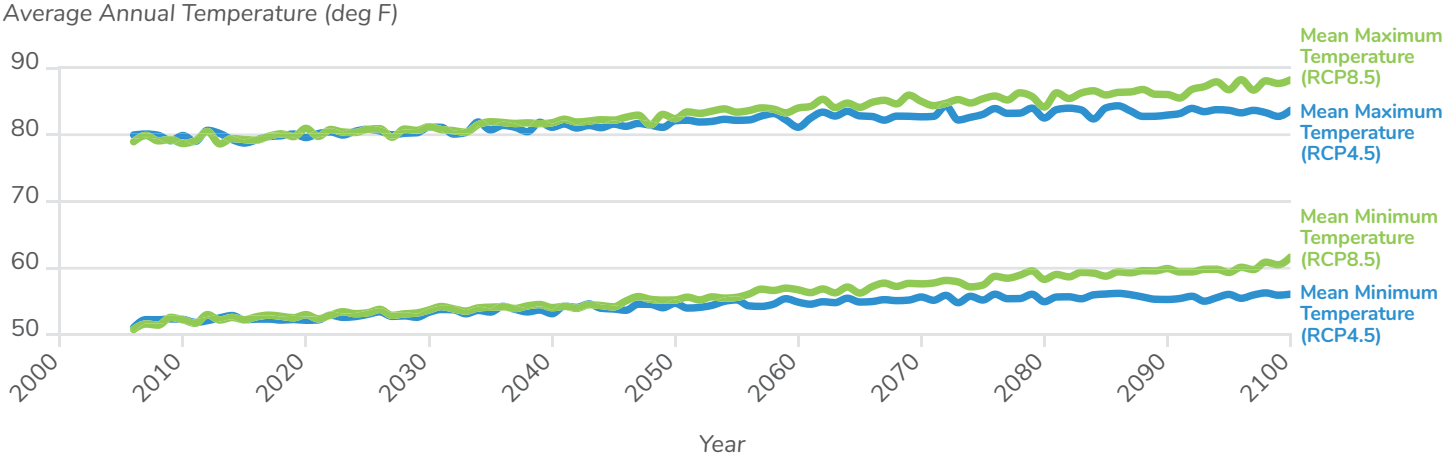
So that all stakeholders have the same baseline information, this **Climate Challenges** bulletin describes some of the conditions affecting the future of our region.

Climate change is poised to significantly impact the environment in our region:

- Average temperatures are projected to increase across the region by 4–8°F by 2100.
- Heat waves and droughts are expected to increase in intensity, duration, and frequency by 2050. Such events will be even more severe by 2099.
- An expected increase in the frequency and intensity of extreme precipitation events will increase the likelihood of floods, landslides and debris flows.

Temperature (2006–2099)

Representative Concentration Pathways (RCP) 4.5 & RCP 8.5 Annual Averages

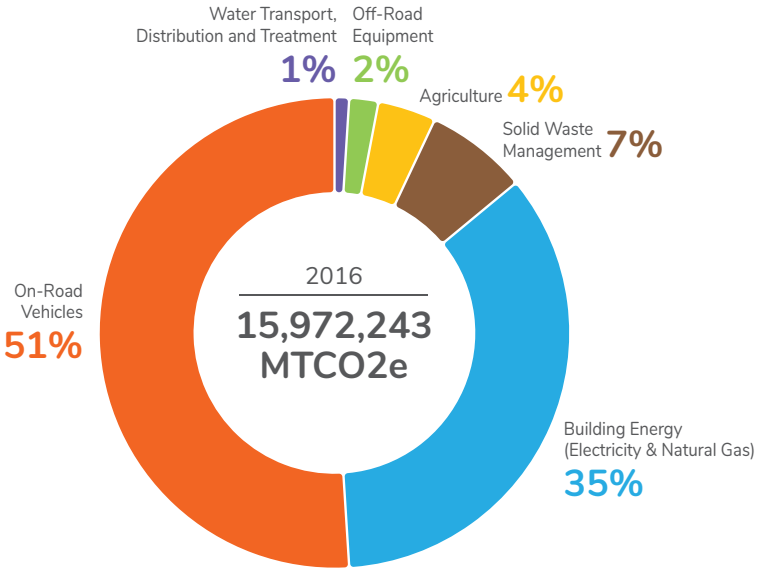


Summary of results: By 2100, under the moderate RCP 4.5 emissions scenario, mean minimum temperatures are projected to increase approximately 3°F and mean maximum temperatures 4°F above current normal low and high temperatures. For the high RCP 8.5 emissions scenario, mean minimum and maximum temperatures are projected to increase approximately 8°F above current normals.
Source: Cal-Adapt (2018), cal-adapt.org

The Inland SoCal region contributes significantly to greenhouse gas (GHG) emissions and has notable air quality concerns:

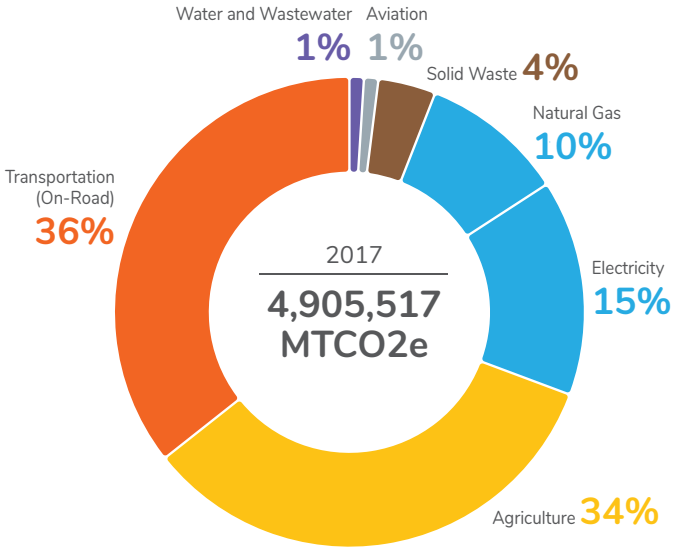
- GHG emissions surpass tens of millions of tons of carbon dioxide (CO_2) equivalent per year, with transportation being the primary contributor in both San Bernardino and Riverside counties.
- Other major contributors of GHG emissions are agriculture and buildings, with their impacts varying greatly across counties.
- Air quality has seen notable improvements over recent decades, yet levels of ozone and coarse and fine particulate matter surpass standards in some areas, particularly in densely populated urban zones, warehousing districts, and near transportation corridors.
- Ongoing and future efforts are needed to reduce GHG emissions and improve air quality across the region.

Greenhouse Gas Emissions: San Bernardino County



Source: San Bernardino County: Regional Greehouse Gas Reduction Plan • San Bernardino Council of Governments. (2021). Greenhouse gas emission inventory conducted in 2016. For information on methodologies, see San Bernardino County: Regional Greenhouse Gas Reduction Plan – Appendices. (https://www.gosbcta.com/wp-content/uploads/2019/09/San_Bernardino_Regional_GHG_Reduction_Plan_Appendices_Mar_2021.pdf)

Greenhouse Gas Emissions: Riverside County



Source: County of Riverside: Climate Action Plan Update • Riverside County Planning Department

Thrive Inland SoCal is building partnerships and growing the capacity needed to make a more prosperous future a reality. JOIN US in exploring the challenges and opportunities by attending an upcoming meeting.

For more details, meeting dates and contact info, visit

ThriveInlandSoCal.org

This factsheet covers one of seven key topics shaping our region's economic growth. While each topic has its own factsheet for clarity, sometimes we discuss multiple topics together to highlight how economic development is complex and connected in different ways.

CALIFORNIA JOBS FIRST

Center for Sustainable Energy®

CSE-CERF-042024