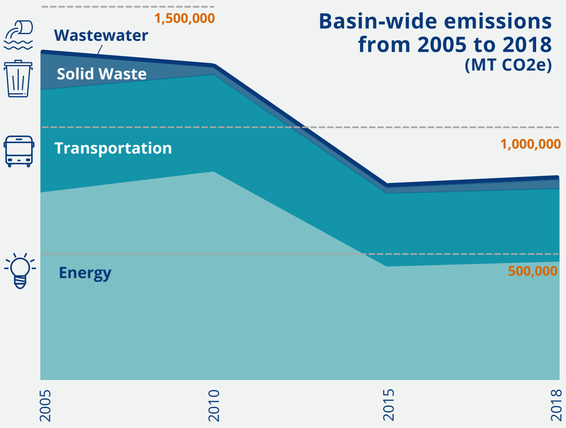
Lake Tahoe Basin
EMISSIONS & SEQUESTRATION

TOTAL 2018 GREENHOUSE GAS EMISSIONS: ~800,000 MT CO2e

Over half of the emissions in the Lake Tahoe Basin come from energy.
Energy + transportation account for **over 95% of total emissions** in the basin.

Emissions decreased from 2005 to 2018, but slightly increased from 2015 to 2018.



Basin-wide emissions from 2005 to 2018 (MT CO2e)

Wastewater +1,296%*

Solid Waste -75%

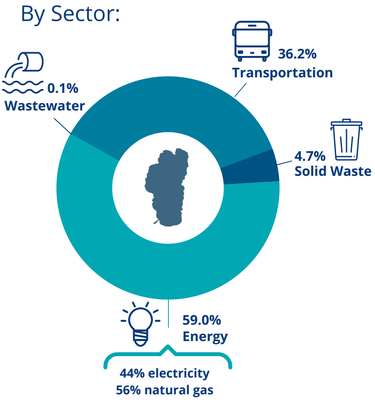
Transportation -29%

Energy -37%

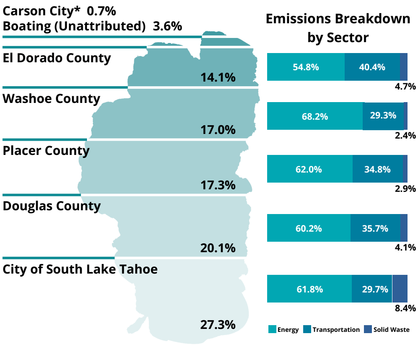
*The sizable increase in wastewater is due to new methodologies that account for additional emissions. As 2015 and 2018 wastewater was only 0.1% of total emissions, the large relative increase did not skew total emissions levels.

2018 EMISSIONS BREAKDOWN

By Sector:



By Jurisdiction:



*The rural portion of Carson City's emissions (within the Tahoe Basin) all come from the Transportation sector.

2014-2018 CARBON SEQUESTRATION

Forest Sequestration in the Tahoe Basin:

Resilient forests are carbon sinks.
Fire-suppressed forests are carbon sources.

175,000 acres of healthy forests sequestered:
300,000 to 900,000 MT CO2e per year
(2014-2018 average)

Carbon Sequestration is an emerging science

The wide range in carbon values for the Tahoe Basin is a result of the variation in forest carbon model outputs, as well as unknown meadow condition status.

Meadow Sequestration in the Tahoe Basin:

Meadows sequester more carbon per acre than forests, but meadows are a diminishing resource as they dry out and are converted into forests.

5,000 acres of meadows could have sequestered
up to 40,000 MT CO2e per year OR emitted -30,000 MT CO2e per year
(2014-2018 average)

Meadows have the potential to play a very important role in carbon sequestration.

REDUCING EMISSIONS IS CRUCIAL

If no further action is taken to continue reducing emissions, overall emissions in the basin are forecast to increase 5.7% by 2045.

CARBON ACCOUNTING BALANCE (2018)

Emissions

Built Environment | Transportation | Solid Waste | Wastewater

-800,000 MT CO2e

Sequestration

Forests | Meadows

+300,000 to +1,000,000 MT CO2e*

NET BALANCE=
-500,000 to +200,000 MT CO2e*

*The wide range in 2018 carbon sequestration values for the Tahoe Basin is a result of the variation in forest carbon outputs compared in this analysis, as well as unknown meadow condition status.

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