



FACT SHEET: SCOPE 3 EMISSIONS



SUSTAINABILITY OPPORTUNITY

An emissions inventory is the first step in developing an effective energy and climate plan. Third-party verification of emissions has been a long-standing priority for Stanford for Scope 1 and Scope 2 emissions, but Scope 3 emissions are only verified internally. The emission inventory's geographic boundary includes the Stanford main campus and leased spaces but not emissions from Stanford Hospital and Clinics (SHC) or SLAC National Accelerator Laboratory, since they are both district organizations that do not fall under the university's operational control.

Commuter Emissions Tracking

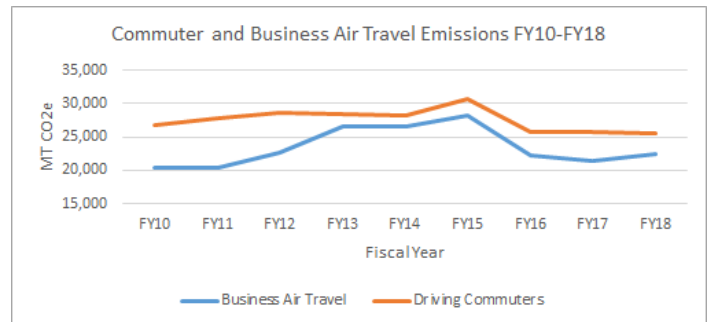
Stanford's Parking & Transportation Services team tracks driving commuter emissions based on annual survey data. The data is able to be parsed in many ways to help guide future programs. The mode of transit (drive alone, carpool and vanpool) is captured in order to apply accurate emissions calculations to the type of commute. To have further insight into the emissions data, commuter affiliation is tracked by categories such as graduate students, undergraduate students, and university employees.

Business Travel Emissions Tracking

Metrics for business air travel emissions for the entire university are also captured by Stanford's Parking & Transportation Services team. Prior to 2017, these emissions were tracked by the Procurement office, as they managed the travel booking system for the university.

Emissions Trends

Overall, Scope 3 emissions have been fairly stagnant since the onset of being tracked. There are challenges in tracking these emissions. For example, changes to the Procurement system in 2015 caused the business travel emissions reported to exclude some of those emission sources. Additionally, 2010 data had to be used for 2009 data due to collection discrepancy in 2009.



total electricity supply coming from renewable sources. This will only increase over time, as Stanford continues to explore renewable energy options and California's grid meets its 33% Renewable Portfolio Standard in 2020.

Development of onsite renewable energy supplies provides lower long-term costs, stabilizes operating budgets, and allows Stanford to achieve top-tier emissions reductions. In 2011, Stanford's greenhouse gas (GHG) emissions peaked at 230,000 metric tons. The new Central Energy Facility has reduced campus emissions by 50% from peak levels, and renewable power procurement reduces emissions by another 18%, leading to a total of 68% emissions reductions via SESI.

MORE INFORMATION

SUSTAINABLE STANFORD

<https://sustainable.stanford.edu/campus-action/stanford-energy-system-innovations-sesi>

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