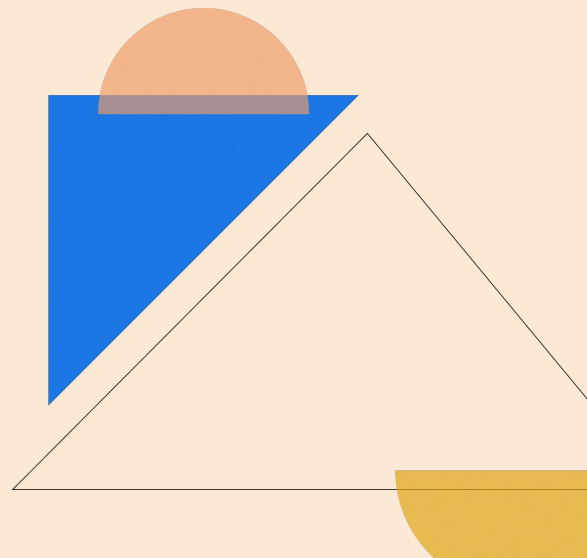


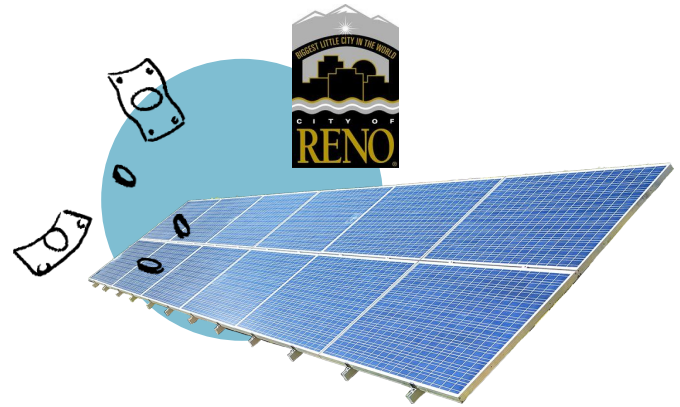


Customer Successes



City of Reno uses accurate, granular data to save money & carbon emissions

24/7 visibility allowed the city of Reno to make carbon conscious, data-driven operational decisions, like when to charge their electric vehicles.



Case Study: City of Reno

Customer challenge

City of Reno: A pioneer in climate & energy initiatives

- Reno, a city of 235,000 citizens in Northern Nevada, has been a pioneer among municipalities in implementing climate and energy initiatives.
- Reno wanted to partner with nZero to increase transparency, be a leader with other mid-size cities and to inspire change in the community,
- In addition, Reno was seeking guidance in reducing their emissions in order to meet their climate goal of 28% reduction by 2025 and 80% reduction by 2050.



nZero solution & implementation

nZero's platform & public portal increased transparency

- nZero's data platform was customized for the City of Reno to allow them to make operational decisions within different departments such as Public Works and Operations.
- In addition to the flagship data platform, nZero worked with the City of Reno to develop a public-facing portal to provide a transparent way to showcase the City's carbon emissions data and progress toward their sustainability targets,



Value received

Accurate, granular data has saved money & carbon emissions

- Unique data insights from the nZero portal have saved money for the City of Reno and reduced their emissions to-date by 6.34% vs same time period a year prior.
- Reno has utilized nZero's granular data to apply for grants for local sustainability projects.
- Led to strategic decisions: transitioning street lights to LEDs, changing time of day electric fleet vehicles charge, and conducting cost/benefit analysis for solar panels installation.



Next steps

Expanding partnership to achieve ambitious reduction goals

- nZero is partnering with Reno to develop a carbon reduction roadmap to ensure the city can meet or exceed the emissions reduction goals they have set for the future.
- Further, nZero is working with Reno on an initiative to automate their fleet data and collect Scope 3 data in order to further understand their emission profile.

We are helping teams share their sustainability story

We've created storytelling tools such as the [Public Portal](#) for teams to easily and confidently share their journey to net zero with stakeholders.

Washoe County Operations Tracks Greenhouse Gas Emissions

Scope 1 Emissions

Natural Gas

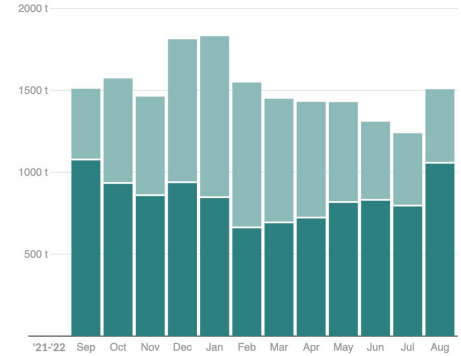
Fuel

These greenhouse gas (GHG) emissions occur directly from sources owned or controlled by the County. For example fuel combustion in boilers, furnaces and vehicles.

Scope 2 Emissions

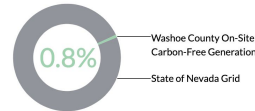
Electricity

GHG Emissions From Washoe County Operations, Last 12 Months. Powered by nZero



How We're Avoiding Emissions

Washoe County generates carbon-free electricity on-site. This helps reduce emissions related to energy purchased from the grid.



Emissions Avoided Last Month

25,526 Lbs CO₂e

Emissions Avoided, Last 12 Months

128,051 Lbs CO₂e

Washoe County Properties With On-Site Carbon-Free Generation

3 properties

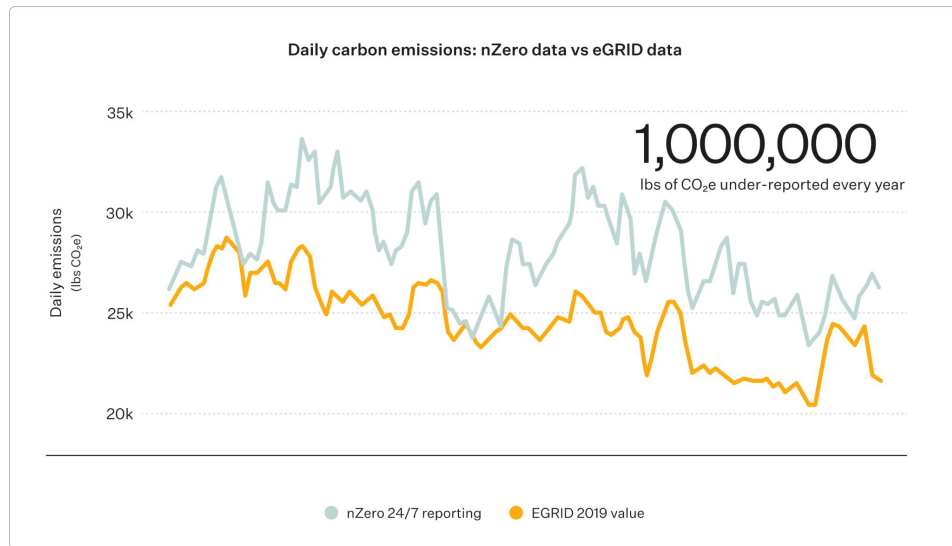
Total Renewable Energy Generated, Last 12 Months

220 MWh

We confirmed a customer's carbon baseline was off by -1,000,000 lbs

A hospitality customer realized they were underreporting their footprint by 1M lbs for a single address.

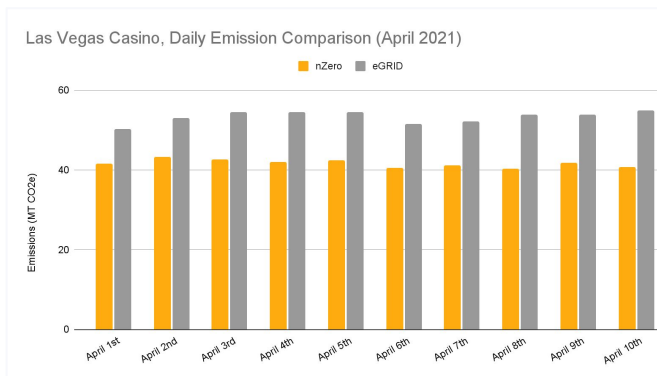
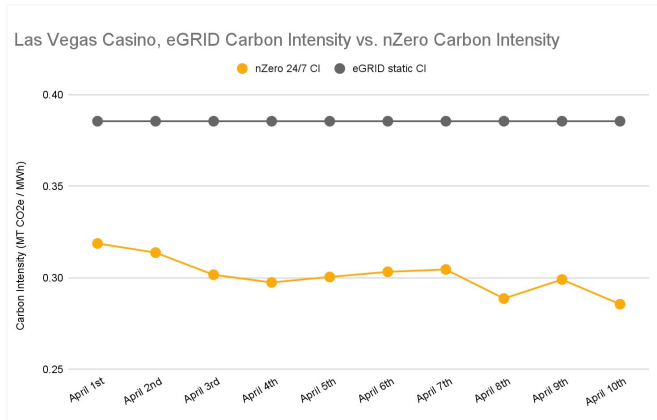
That's equivalent to 45 trips around the world driving a gasoline-powered passenger vehicle.



We prevented a customer from over-reporting 482 MT CO₂e

The graphs illustrate the carbon intensity and emissions comparison between eGRID and nZero for a hospitality and gaming customer in April 2021.

- **The customer would have over-reported 482 MT CO₂e** using the latest (2020) eGRID values, with a Scope 2 yearly value of 213,222 MT CO₂e with eGRID (vs. 212,740 MT CO₂e using nZero's 24/7 granularity).
- That's equivalent to driving 104 gasoline-powered passenger vehicles for a year!



Our data identified -14.9 MT of Co₂e avoided per year

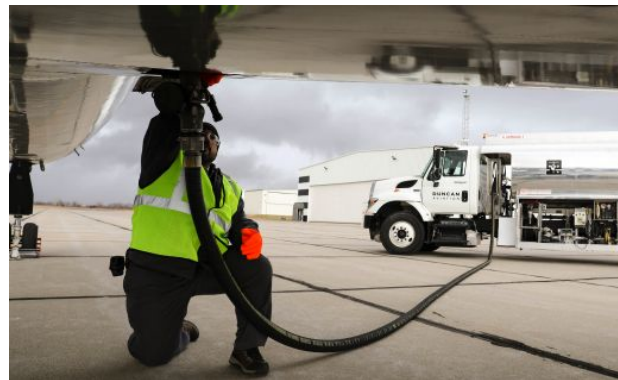
By identifying and quantifying their associated avoided emissions, we enabled an aviation customer to verify their strategic decision to electrify airport tugs (vs. diesel).

In 2021 we also quantified -250 MT of Co₂e avoided thanks to Sustainable Aviation Fuel (SAF).

The amount of MT CO₂e avoided is equivalent to driving **657,000 miles** in 2021



14.9 MT CO₂e avoided per year since 2015



249.9 MT CO₂e avoided in 2021 using SAF

We identified an immediate -11% carbon footprint opportunity

A telecom customer asked us to help them reduce their emissions by identifying utility sites that could be decommissioned, from their portfolio of nearly 2500. We took the following steps to complete this large initiative, resulting in an 11% reduction in their overall carbon footprint.

Automate the customer's data ingestion

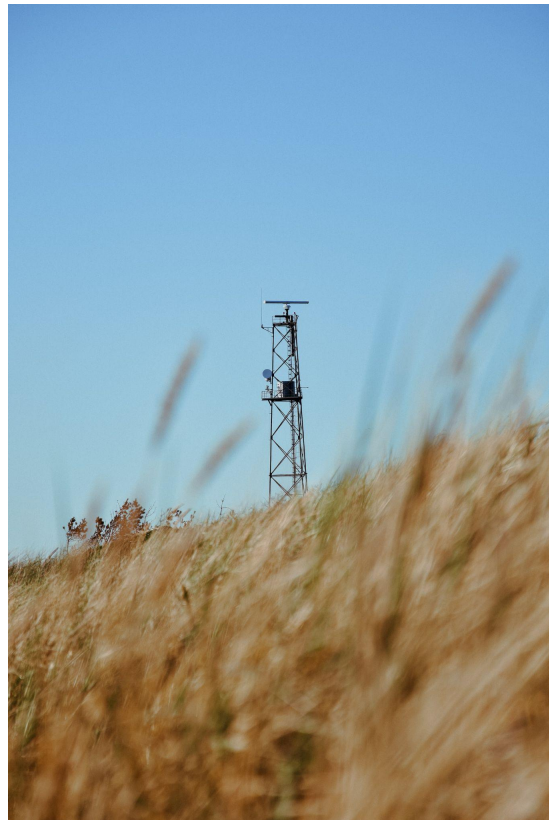
- We worked with each electric utility to capture and sync their data into their dedicated nZero instances.

Uncover their carbon baseline

- We gathered several years of historical data from each utility.

Categorize and isolate data for easy reporting and analysis

- Cluster: We created six energy usage profiles
- Attach: Each site had attributes assigned to them to allow for easy searchability
- Isolate: Sites were organized by size, location, age, and like for like



We projected a **\$350k** cost savings & **1,687 MT CO₂e** of avoided emissions

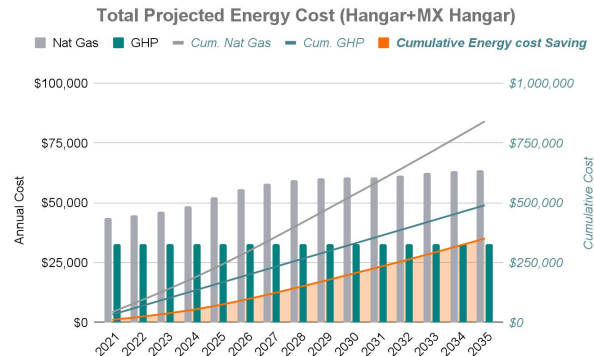
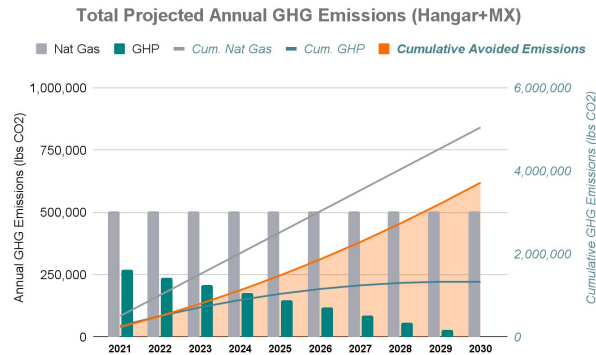
Natural gas emissions, generated by heating hangars during winter months, are the largest contributor to an aviation customer's carbon footprint. We helped them evaluate sustainable options to help lower their emissions. As part of the initiative, we took the following steps.

Conducted in-depth scenario analyses for energy transition to geothermal heat pumps within 2 hangars:

- What-If Scenario for GHG & Cost Savings
- Projected Scenario of future GHG & Costs Savings (present-2035)
- ROI and payback period

Provided the analysis & data for actionable next steps

- Annual savings of \$23.3k in energy costs
- Annual avoided emissions of 170 MT CO₂e
- A projected ROI based on initial implementation costs combined with annual operational costs



Thank you

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