

# Zero Carbon Electric Central Utility Plant

Dallas Fort Worth International Airport (DFW)

## Project Overview

DFW is the first and largest Carbon Neutral Airport in the Americas. When it comes to reducing our environmental impact, DFW is taking a balanced approach. By switching to renewable energy and implementing programs to use less of it, we have dramatically reduced our carbon footprint - and our energy costs.

Currently, natural gas used in the existing Central Utility Plant for terminal heating represents the largest segment of DFW's carbon footprint and a significant contributor to nitrogen oxide (NOx) emissions.

To address current and future heating and cooling demand, improve resiliency, maximize efficiency, and position itself to achieve **Net Zero Carbon by 2030**, DFW plans to construct a new Zero Carbon Electric Central Utility Plant and replace its aging steam piping distribution system with a highly efficient hot water piping system.

The transition to zero-emission electricity for heating will significantly reduce ozone precursor emissions, carbon emissions, water use, and natural gas consumption.

## Key Objectives

- Accommodate future terminal expansion up to 28 gates/500,000 sq. ft. and achieve N + 1 resiliency
- Reduce carbon emissions in alignment with DFW's Net Zero Carbon by 2030 target
- Reduce criteria pollutant emissions in alignment with regional air quality goals
- Create good paying construction jobs and support continued growth of permanent union and non-union jobs with higher than average wages and benefits
- Support Justice40 initiatives by reducing environmental impacts to Historically Disadvantaged Communities surrounding the airport and supporting regional job growth

Funding Request  
**\$105 Million**

Total Project Cost  
**\$158 Million**

Jobs Created  
**1,400**

Design



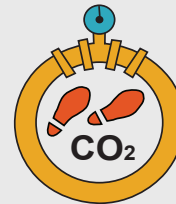
NEPA



Project included in 2022 ALP



**85.8%** reduction in **nitrogen oxide (NOx)** emissions per year



**15.3M kg** reduction in **carbon dioxide (CO2)** emissions per year



Contribute to regional **air quality** improvement

**DFW**