



DEN SUSTAINABILITY OVERVIEW

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SENIOR VICE PRESIDENT, SUSTAINABILITY





100 MILLION ANNUAL PASSENGERS

- SUSTAINABILITY & RESILIENCY • EQUITY, DIVERSITY, INCLUSION & ACCESSIBILITY
- OPERATIONAL EXCELLENCE • ENHANCING THE CUSTOMER EXPERIENCE

PILLAR 1



**EMPOWERING
OUR PEOPLE**

PILLAR 2



**GROWING OUR
INFRASTRUCTURE**

PILLAR 3



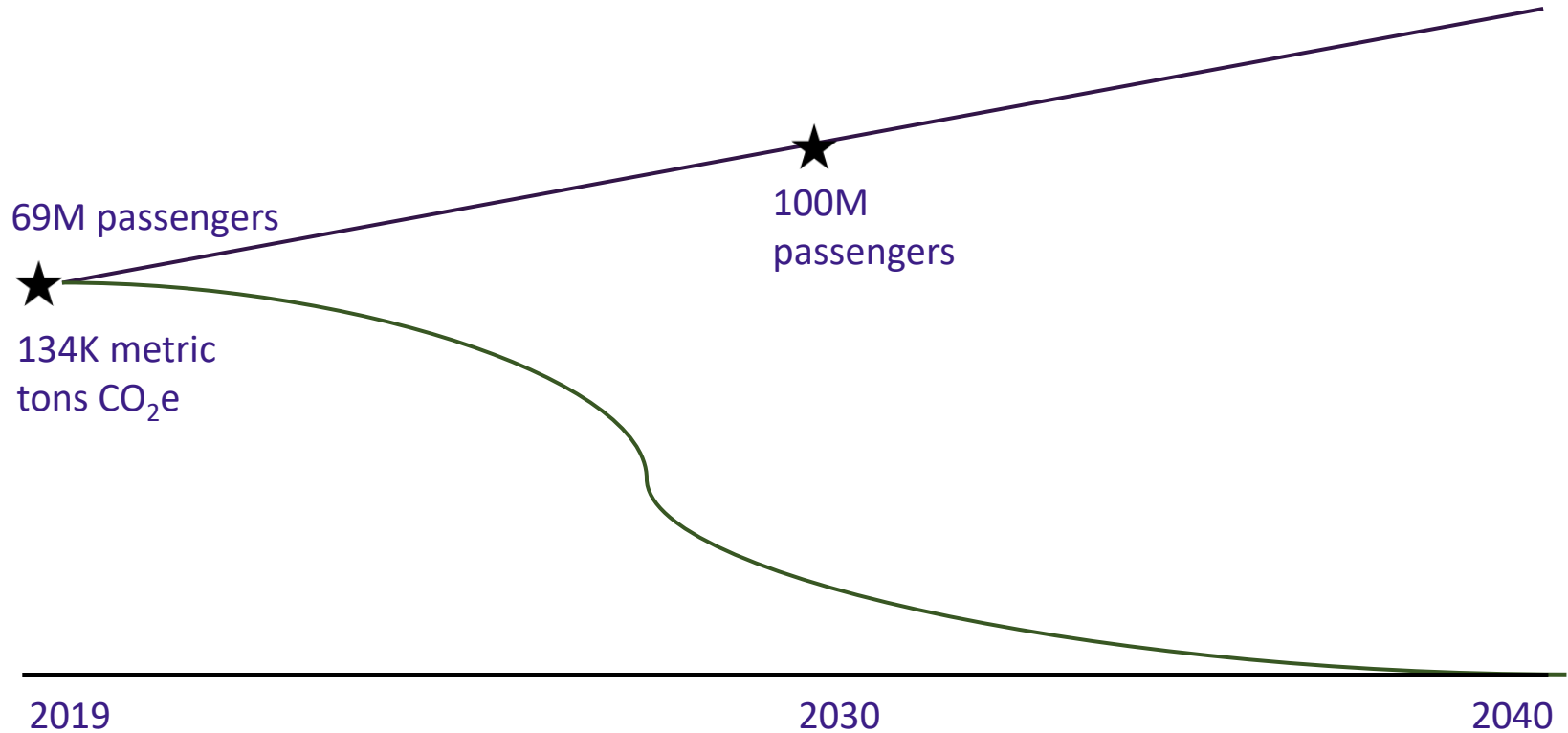
**MAINTAINING
WHAT WE HAVE**

PILLAR 4



**EXPANDING OUR
GLOBAL CONNECTIONS**

DECOUPLING GROWTH FROM IMPACTS



ENVIRONMENTAL MANAGEMENT SYSTEM



- First commercial service airport in the United States with an ISO-14001 certified Environmental Management System (EMS) covering all operations
- The EMS is made up of 100+ documents that proactively anticipate and plan for potential environmental issues
- 20-year Gold Leader within the State's Colorado Green Business Network (Environmental Leadership Program)



Denver International Airport (DEN) is dedicated to working with our partners to promote strong environmental performance. Our organization and employees are committed to business practices, policies, actions, and programs that enhance our performance by:

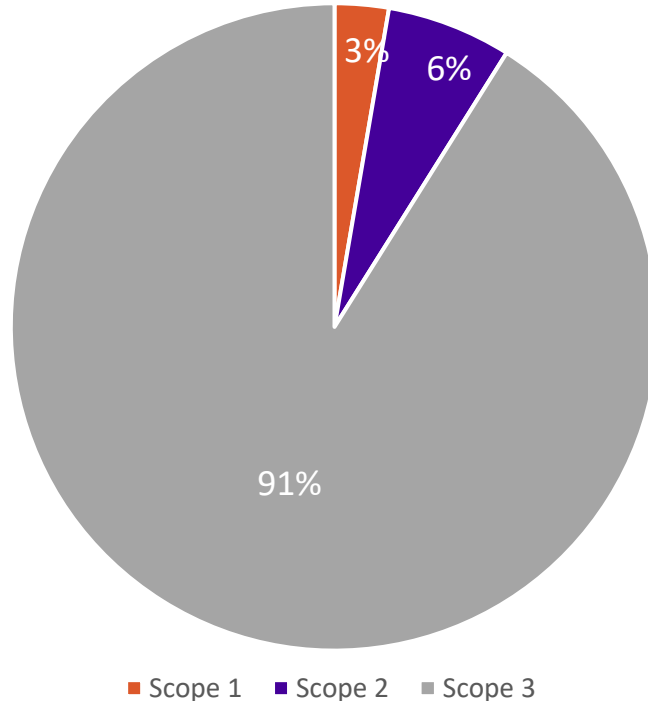
- *Protecting the environment*
- *Conserving energy and natural resources*
- *Preventing pollution*
- *Meeting or exceeding all compliance obligations and voluntary commitments*
- *Continually improving the Environmental Management System (EMS)*

This policy shall be communicated to all employees, individuals working on behalf of or under the direction of DEN, and business partners operating on airport premises. Each is accountable for following this policy and reporting any environmental, health, or safety concerns to DEN management.

GREENHOUSE GAS (GHG) EMISSIONS



Greenhouse Gas Emissions (CO₂e)



Scope 1 (Direct Emissions)

- Central Utility Plant boilers
- DEN fleet
- Fire training
- Emergency generators
- Refrigerants

Scope 2

- Indirect emissions from purchased electricity

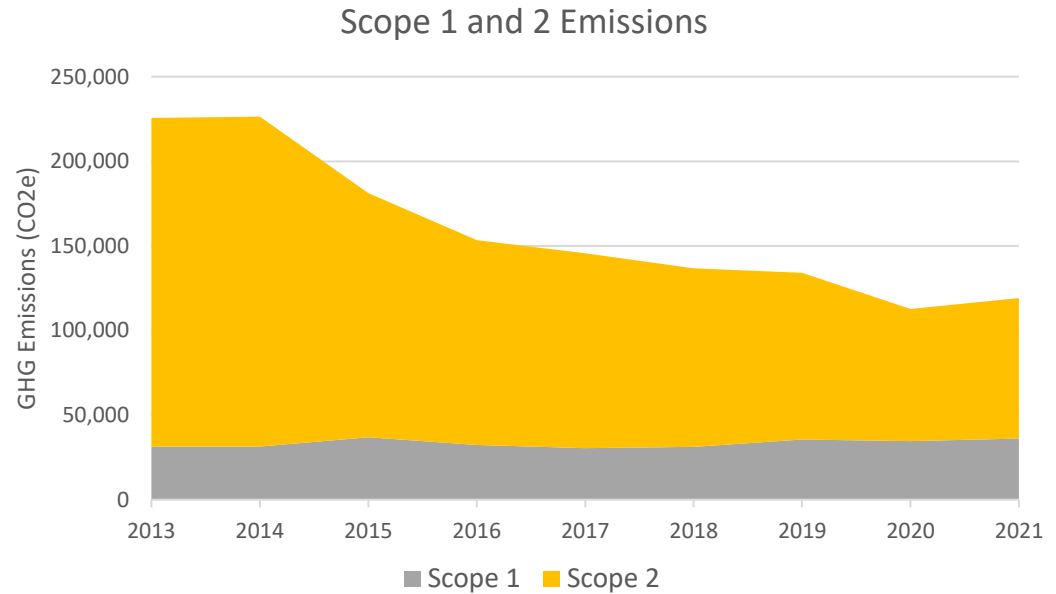
Scope 3 (Other Indirect Emissions)

- Aircraft operations
- Ground transportation
- Business travel

GREENHOUSE GAS (GHG) EMISSIONS



- DEN supports Denver's 2030 science-based target and 2040 net zero goal
- DEN-controlled GHG emissions have declined significantly despite passenger increases
- Net Zero Emissions Plan
- Focus on green building, energy efficiency, renewable energy, and decarbonization of electric grid



- All DEN projects are built to the Leadership in Energy and Environmental Design (LEED) Gold standard
- DEN currently has five LEED-certified facilities, including the world's only LEED Platinum on-airport hotel
- Great Hall and Concourse Expansion projects are tracking LEED Gold
- Planning for net zero construction and Envision certifications for civil infrastructure projects



ENERGY EFFICIENCY



- DEN's Energy Performance Contract (EPC) will produce a 20% energy savings, 28% water savings, and 30,000 metric ton annual CO₂e reduction across 8 million ft² of airport facilities
- \$4M+ in guaranteed utility savings

Energy Usage

2017 Baseline: 1,094,707,000 kbtu

BASELINE

20% Reduction
Goal by 2025: 218,941,000 kbtu

GOAL

**Project
Reduction: 217,335,000 kbtu**

99% of Goal

GHG Emissions

2019 Baseline: 134,121 metric tons

BASELINE

65% Reduction
Goal by 2030: 87,178 metric tons

GOAL

**Project
Reduction: 30,278 metric tons**

35% of Goal

Water Usage

2017 Baseline: 442,000 kgal

BASELINE

35% Reduction
Goal by 2035: 154,700 kgal

GOAL

**Project
Reduction: 123,300 kgal**

81% of Goal

- DEN has one of the largest renewable energy programs of any global airport
- Six behind-the-meter Power Purchase Agreements across 120 acres – 25% of DEN's annual electricity use and growing
- Concourse expansion rooftop solar
- Community Solar Gardens
- Xcel Energy-owned solar canopy at DEN's Pena Station NEXT parking lot
- Xcel's Renewable*Connect program



ELECTRICIFICATION



- Working with business partners on solutions for fleets, buses, rental cars, and airline ground support equipment
- Eight fast-charging EV stations for ride-share drivers will come online this year
- More than 50 electric vehicle charging stations for passengers and employees
- Forthcoming EV charging RFP
- On-going planning with Xcel Energy to address capacity challenges



- Xcel Energy-funded 3-megawatt/4 megawatt-hour battery energy storage system
- Powered by DEN's newest solar project to provide backup power and improve power quality to the AGTS train system
- Model for battery storage and microgrids for other critical loads on DEN's campus
- Climate Resiliency plan



WASTE DIVERSION

- Airport-wide recycling, composting, and donation programs (food, abandoned luggage, child car seats)
- Liquid dumping available before security with water bottle filling stations available post-security
- Diversion rates have increased significantly in the past 15 years but still trail other parts of the U.S.
- “Zero Waste Valet” pilot project



AIRCRAFT DEICING SYSTEM (ADS)



Deicing Pads

- Dedicated deicing pads
- 2 million gallons+ of deicing fluid applied each year
- 70%+ collection rate



Stormwater Ponds

- Prevent glycol releases into the environment
- 78M gallon pond capacity



Glycol Recycling Facility

- New system will allow recycled glycol to be recertified as deicing fluid and applied to aircraft
- Potential closed-loop system will reduce environmental impacts, localize the supply chain, and reduce costs

Questions

