
Sustainability

Sustainability

Climate Action Policy and Plan

Our futures depend on us taking action. Maya Klotz, South High School

VISION: DPS is recognized as a leader and steward of healthy, livable, and sustainable environments.

CLIMATE ACTION PLAN A STUDENT-LED INITIATIVE

Environmental Protection		Reduce overall greenhouse gas emissions by at least 90%* by 2050.	
BUILT ENVIRONMENT		TRANSPORTATION	
5-YEAR GOALS	Electrification Electrify 80% of the heating load for 10 buildings		Yellow Fleet 12% of buses are zero "tailpipe" emissions
	Building Envelope Commission two existing building envelopes and incorporate findings into future financial impact assessments		White Fleet 7% of vehicles are zero "tailpipe" emissions
	Design Standards Require Sustainable Design Guidelines to be integrated into all capital improvement decisions		Commuter Create an incentive program to increase alternative modes of transportation to DPS locations
	SMART Buildings Implement one fully SMART building, perform a cost-benefit analysis, and create a funding plan for additional SMART buildings		
	Renewables 65% of electricity supplied to DPS is renewable		
	Grounds Create Sustainable Landscape Standard & Implementation Plan		<small>*Of the levels of district-wide greenhouse gas emissions that existed in 2010 by 2050.</small>
Economic Prosperity		Reduce natural resource consumption and waste year-over-year.	
RESOURCE MANAGEMENT		WELLNESS	
5-YEAR GOALS	Energy Management Reduce energy (MMBtu) consumption by 15% from 2021 baseline		Gardens 100 gardens are active and produce 100 pounds or more of harvest per year
	Water Conservation Reduce consumption by 15% from 2021 baseline		Greenhouses 50% reduction in tomatoes purchased commercially to be produced by the Glenbrook Greenhouse
	Waste Diversion Ensure landfill diversion rate is at least 25%		Nutrition Services Develop a comprehensive nutrition education plan to be used at 100% of schools for all grade levels
	Sourcing Embed sustainable practices in all procurement policies including "end of life planning"		
Social Development		All students and staff are engaged in sustainability by 2050.	
ENGAGEMENT + ENVIRONMENTAL JUSTICE		CAREER + CURRICULUM	
5-YEAR GOALS	Community Engagement & Events 1 district-wide sustainability event per quarter		Sustainability Curriculum STUDENTS: 100% of schools have at least 1 annual sustainability project-based learning opportunity STAFF: 50% of science teachers participate in an annual professional development on climate and sustainability
	Eco-Schools Certification 25 schools have and maintain certification		Career Exploration Of all students participating in work-based learning, 20% or more will explore/engage in activities that promote sustainability careers
	Environmental Justice 100% of schools have an action-based pledge toward continuously addressing environmental justice		Outdoor Experiences 100% of schools incorporate an outdoor learning space in their academics

Sustainability
<https://sustainability.dpsk12.org>



Board of Education Ends 6 Climate Action Policy

DPS shall be a national leader in establishing an organizational culture anchored in sustainability, climate action, and environmental justice in both the conservation of natural resources and in minimizing the carbon footprint of DPS' practices.

DPS Strategic Roadmap The System Experience

DPS is recognized locally, regionally, and nationally as a leader in practices for equity and sustainability.

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Financial Impact Assessment

2024 Capital Planning & Electrification Evaluation

- Plan ahead for next bond round to include electrification
- Recommend electrification, assess costs

Renewable Energy Assessment

- Analyze gap to achieve 65% renewable energy by 2030 considering Xcel Energy targets
- Determine options and costs for new solar

Portfolio Analysis

- Evaluate historic energy use and emissions
- Assess impacts and costs for efficiency, electrification, and renewables across DPS

2020 Bond Electrification Evaluation: Consult on schools receiving new cooling or cooling upgrades and make recommendations for electrification.

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Current State

Framework	Focus Area	Current Investments	Funding Source
Built Environment	Electrification	20 Buildings with Heat Pumps	2008 and 2020 Bond
Built Environment	Electrification	Financial Impact Assessment	2016 Bond
Built Environment	SMART buildings	Ceylon SMART Building Technology and Electrification	2020 Bond
Built Environment	Renewables	3 sites with Solar Shades	City of Denver
Built Environment	Renewables	46 Sites with Solar Arrays	Energy Savings Performance Contracting and Power Purchase Agreements
Built Environment	Grounds	Consulting - 5 year Landscaping Plan	Sustainability Capital Reserve Fund
Transportation	Yellow Fleet	23 Electric Buses, 14 Charging Stations	Federal, State and Local Grants, IRA Tax Credit, Xcel Rebates
Resource Management	Energy Management	14 Sites Fault Detection Diagnostics	Sustainability Capital Reserve Fund and Maintenance Operational Budget
Resource Management	Energy Management	100+ Sites eGauge	2016 Bond
Resource Management	Energy Management	District-wide LED Retrofit	2016 Bond
Resource Management	Water Conservation	30 sites with Weathertrak	Energy Savings Performance Contracting
Wellness	Gardens	SustainedED Partnership	Sustainability Capital Reserve Fund
Wellness	Greenhouse	Enterprise Mgmt Greenhouse and Bruce Randolph Greenhouse	2020 Bond
Engagement and Environmental Justice	Community Engagement & Events	Student Climate Summit	Sustainability Operational Budget

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Opportunities

Built Environment	Electrification	\$14 Million Cost Avoidance- C.C. A/C <ul style="list-style-type: none">• Climate Action Plan: Electrify 80% of the heating load for 10 buildings• Air Conditioning Work Group
Transportation	White Fleet	\$2 Million- Electric Fleet <ul style="list-style-type: none">• Climate Action Plan: 7% of vehicles are zero “tailpipe” emissions• Capacity Work Group
Built Environment	SMART Buildings	\$5 Million- Gateway Automation <ul style="list-style-type: none">• Climate Action Plan: Implement one fully SMART building• Capacity Work Group
Career & Curriculum	Sustainability Curriculum	\$3 Million- Electric Buses <ul style="list-style-type: none">• Climate Action Plan: 100% of schools have at least 1 annual sustainability project-based learning opportunity• Innovation Work Group

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Opportunities

Resource Management	Water Conservation	\$23 Million - Artificial Turf <ul style="list-style-type: none">• Climate Action Plan: Reduce water consumption by 15% from 2021 baseline• Athletics Work Group
Built Environment	Electrification	\$TBD- Heat Pumps <ul style="list-style-type: none">• Climate Action Plan: Electrify 80% of the heating load for 10 buildings• Maintenance Work Group
Built Environment	Renewables	\$17 Million- Solar <ul style="list-style-type: none">• Climate Action Plan: 65% of electricity supplied to DPS is renewable• Unallocated (QLE / Maintenance)*
Built Environment	Electrification	\$7 Million- 10% NPC Differential (Additional 8) <ul style="list-style-type: none">• Climate Action Plan: 100% of schools have at least 1 annual sustainability project-based learning opportunity• Unallocated (Air Conditioning)*

** The Full CPAC can make decisions to utilize the undetermined bucket if an item does not get selected in the main category*

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Opportunities

Resource Management	Energy Management	\$2.5 Million- Fault Detection & Diagnostics <ul style="list-style-type: none">• Climate Action Plan: Reduce energy consumption by 15% from 2021 baseline• Unallocated (Maintenance)*
Resource Management	Water Conservation	\$2.5 Million- WeatherTrak <ul style="list-style-type: none">• Climate Action Plan: Reduce water consumption by 15% from 2021 baseline• Unallocated (Maintenance)*
Built Environment	Building Envelope	\$200 Thousand- Envelope Cx Study <ul style="list-style-type: none">• Climate Action Plan: Commission two existing building envelopes• Unallocated (Maintenance)*

** The Full CPAC can make decisions to utilize the undetermined bucket if an item does not get selected in the main category*