



SB Stat | Sustainability

January 18, 2024

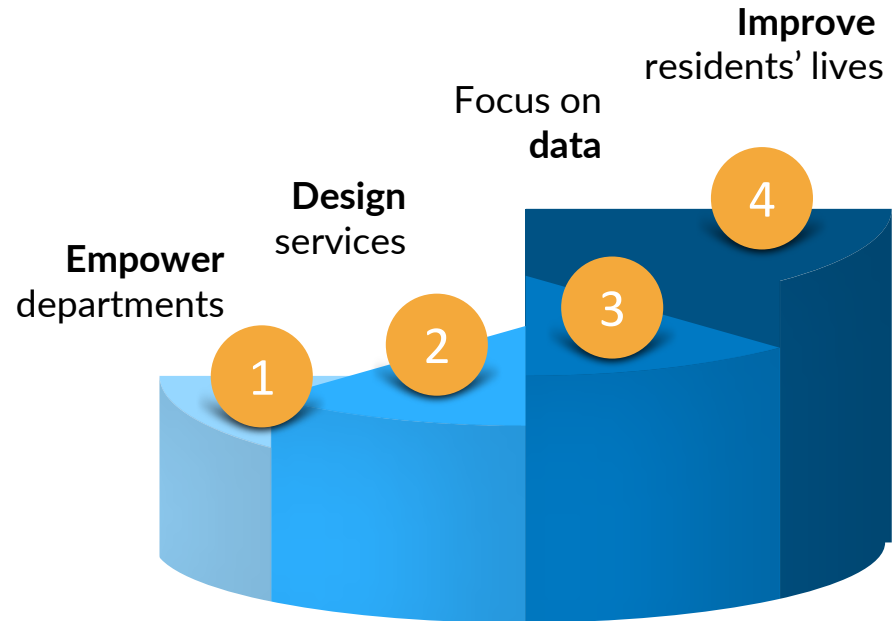
City of South Bend



Why we're here

Citywide Performance Management

The purpose of SB Stat is to bring the most powerful people in the City – the Mayor, Department Heads, and key staff – into a room to **use data and take action** on some of the City's most pressing challenges



Stat meeting structure & cadence

- The Mayor's Office sets the agenda for the meeting
- The Business Analytics team schedules the meeting each quarter and invites attendees
- The Business Analytics team documents all action items discussed during the meeting and assigns each item to the appropriate City team

Participants

Project Leads , analysts, and other key staff

Mayor & Department Heads

Purpose in the Stat meeting

- Lead discussion on assigned projects
- Contribute with ideas, knowledge on data sources, and suggestions for improving performance
- Share ideas, ask questions, and contribute to discussion on strategy and performance targets,
- Assign next steps to relevant members of their department/teams

Today's Agenda



I. Data summary + climate action KPIs

II. Deep-dive on select projects and challenges

- City Grant Strategy

III. Celebrating our values

Planning Projects

Project	Project Objectives	Status
Climate Action Plan (CAP)	<ul style="list-style-type: none"> • Create a 5-year Climate Action Plan with both mitigation and adaptation components, <ul style="list-style-type: none"> • Draft for community review late spring/early summer 2024 • Final version to be passed fall 2024 	●
LEED for Cities	<ul style="list-style-type: none"> • Support DCI Planning team in applying for and achieving LEED for Cities certification. Incorporate elements from LEED into CAP 	●
Comprehensive Planning	<ul style="list-style-type: none"> • Support DCI Planning team in incorporating sustainability as a key pillar to the 20-year comprehensive plan. Weave comp plan and CAP goals together. 	●
Inter-departmental Collaboration	<ul style="list-style-type: none"> • Increasing sustainability project effectiveness by working across departments. Co-applying to grant funding for special projects (UTC, air quality sensor citizen science project). 	●

Legend



Project on schedule



Project delayed or slowed









Project cancelled



Project under consideration / no project timeline

Mitigation Projects

Project	Project Objectives	Status
EASSI	<ul style="list-style-type: none"> The Energy Assistance and Solar Savings Initiative (EASSI) provides subsidized energy assessments, grants, and low-interest loans to community organizations to complete energy efficiency and solar projects. 	
Vibrant Places	<ul style="list-style-type: none"> The Office of Sustainability provides a 20% sustainability bonus for projects and manages the SUNpowered Grant to increase solar on local businesses. 	
Smart Businesses Recycle	<ul style="list-style-type: none"> Reduce waste from local businesses by providing recycling incentives. 	
Upskill SB	<ul style="list-style-type: none"> Design, develop, and manage a workforce development program (Upskill Climate Action) to increase the number of individuals who participate in the “green transition.” 	
Internal Sustainability Development	<ul style="list-style-type: none"> City leads and incorporates sustainable development internally, which includes research and implementation of facility and/or EV procurement 	
Greener Homes	<ul style="list-style-type: none"> Assisting residents to retrofit their homes to reduce energy consumption 	

Legend



Project on schedule



Project delayed or slowed








Project cancelled



Project under consideration / no project timeline

Adaptation Projects

Project	Project Objectives	Status
Urban Tree Canopy (UTC)	<ul style="list-style-type: none"> • Goal setting: 40% UTC by 2050 = Plant \geq 100,000 trees in 27 years • Funding <ul style="list-style-type: none"> • UTC Fund (~\$100k) • USDA/USFS Urban and Community Forestry Grant (\$1.8M) • EPA Environmental Justice Grant (% of ~\$500k total) 	
Air Quality Sensors	<ul style="list-style-type: none"> • Procuring and installing a set of air quality sensors across the City that measure temperature, particulate matter, ozone and more. The new sensors will allow the City to better identify microclimates and vulnerable areas. 	
Environmental Research Coalition	<ul style="list-style-type: none"> • Advancing community-based research to address complex environmental issues. • Helping with college/university projects focused on SB 	
Green Stormwater Infrastructure (GSI)	<ul style="list-style-type: none"> • Diversifying portfolio of green infrastructure projects and related funding sources (e.g., 40% Tree Canopy, wetland mitigation credits) <ul style="list-style-type: none"> • Water TA: Trying to fund the Smart Watershed Project, other projects 	
Biodiversity Projects	<ul style="list-style-type: none"> • Elbel Park & Golf Course • Michiana Pollinator Projects (social media site) • Vibrant Places Pollinator Garden Grant 	

Legend



Project on schedule



Project delayed or slowed



Project cancelled



Project under consideration / no project timeline

Data summary + climate action KPIs

Summarizing data points and statistics from the past quarter related to core operations

Program KPI Summary

Program	Sustainability Priority Category	How we measure success (KPIs)	Desired outcome
EASSI 2.0	Mitigation - Energy	<p>8 organizations completed energy assessments</p> <p>Projects: 2 solar (304.91kW); 10 energy efficiency: (4 HVAC, 2 windows, 1 insulation, 2 LED projects). 1 HVAC is electrification project</p>	<p>Reduce building emissions</p> <p>Make community organizations more energy resilient</p> <p>Increase awareness on energy efficiency and renewable energy</p>
Vibrant Places	Mitigation (some adaptation)	<p>106 pre-applications</p> <p>50 indicated an interest in solar (47%) 7 Solar 101 sessions, 16 attendees 6 Feasibility studies, zero contracted project</p> <p>35 completed grant applications. 11 contained sustainability bonus (31%)</p>	<p>Businesses incorporate sustainability elements in the exterior of their building</p> <p>Reduce building emissions and energy consumption through solar energy</p> <p>Increase awareness of energy consumption and solar energy</p>
EV Infra Plan	Mitigation - Transportation	<p>Plan was finalized November 20! Will be posted on website soon.</p>	<p>Expand equitable access to public EV charging citywide</p> <p>Considers City's role in solutions for residents that cannot add private EV charging at home</p> <p>Explores pathways for equitable access to workforce development in EV charging</p>

Program KPI Summary cont.

Upskill SB Climate Action	Collaboration	<ul style="list-style-type: none"> • 5 solar students in pilot program (none went on to receive certifications) • 11 individuals applied to Upskill Climate Programs, 3 enrolled <ul style="list-style-type: none"> • 2 solar • 1 green buildings • Hosted one 2-day training in partnership with South Bend Area REALTORS (SBAR) <ul style="list-style-type: none"> • 16 realtors received NAR Green Designation 	South Bend has a reputation and track record of supporting local workers through the “green transition.”
Climate Action Ambassadors	Collaboration	<ul style="list-style-type: none"> • 15 Climate Action Ambassadors • >500 people have filled out the Climate Action Survey 	Residents are aware the COSB has a Climate Action Plan and their feedback is directly incorporated into the planning efforts.
Smart Business Recycling Pilot Program	Mitigation	<ul style="list-style-type: none"> • 4 open applications, 1 complete • Recycling memo • Outreach: DTSB, canvassing, Facebook ad, bus stop ad 	Assist businesses to start a single-stream recycling service, improve their recycling capabilities, and reduce waste
Green Infrastructure	Adaptation	<ul style="list-style-type: none"> • 40% UTC goal established • \$1.8M USDA forestry grant <ul style="list-style-type: none"> • 23.5 acres of additional space for urban tree nurseries → ~9k trees • WaterTA from EPA - applied & recieved. 	South Bend is a climate resilient city that sequesters carbon into treasured green spaces and provides a wealth of ecosystem benefits to residents.

Deep-dive analysis & discussion

Diving deep into a few key initiatives being undertaken to improve city performance

- Inflation Reduction Act (IRA) Grant Opportunities



IRA and IIJA Grant Opportunities

- Identifying grants City Departments should apply for
- Launching programs to assist residents apply for individual incentives

Defining the problem

Problem Statement

There is an unprecedented amount of money available for sustainable projects; City leadership might be unfamiliar with to best approach IRA & IIJA. Each department has its own set of grant writers, creating information silos between teams.

How might we...

- Identify priority sustainability-related IRA & IIJA grants to apply for in 2024
- Coordinate city and community grant writers
- Create strategies for reaching out to residents about IRA incentives

Outcome Metric(s)

- Increase in potential grant money awarded
- Increase in actual grant money awarded

Federal Grantmaking Agencies

● Those focusing on climate change, resilience, sustainability

USAID U.S. Agency for International Development	AC AmeriCorps	USDA U.S. Department of Agriculture ●	DOC U.S. Department of Commerce ●	DOD U.S. Department of Defense	ED U.S. Department of Education	DOE U.S. Department of Energy ●
HHS U.S. Department of Health and Human Services ●	DHS U.S. Department of Homeland Security ●	HUD U.S. Department of Housing and Urban Development ●	DOI U.S. Department of the Interior ●	DOJ U.S. Department of Justice	DOL U.S. Department of Labor ●	DOS U.S. Department of State
DOT U.S. Department of Transportation ●	TREAS U.S. Department of the Treasury ●	VA U.S. Department of Veterans Affairs	EPA Environmental Protection Agency ●	IMLS Institute of Museum and Library Services	NASA National Aeronautics and Space Admin	NARA National Archives and Records Administration
	NEA National Endowment for the Arts	NEH National Endowment for the Humanities	NSF National Science Foundation ●	SBA Small Business Administration	SSA Social Security Administration	

How much money are we leaving on the table?

- HOMES & HEERA: \$182 million
- State-based home energy efficiency contractor training grant: \$3.3 million
- Career Skills Training Program: \$10 million
- Energy Auditor Grant program: \$40 million
- Building Training & Assessment Centers: \$10 million*
- IRA Tax Credits & Direct Pay (no budget ceiling)
- EPA Environmental Climate Justice Community Change Grant: \$1-20million

**Some deadlines for the grant opportunities have passed.*

Background

The climate emergency presents both problems and opportunities.
How do we use this moment to transform South Bend?



The green transition is a large scope of work.

- Huge demand for green affordable housing (retrofits and new buildings)
- Solar industry is growing
- Electric vehicle charging maintenance



We are in a historic funding moment.

We will likely never see this level of investment (BIL & IRA) again in our lifetimes.



Who currently is and who will be able to do the work?

A greying skilled-labor workforce and other forces have led to a "contractor pinch." There's also a lack of diversity in this growing field.

What tax incentives can cover

Individuals

Program	Details	Ex. Qualifying Projects
Energy Efficiency Home Improvement Credit (link)	Credit of 30% of the project cost up to a \$1,200 annual max No lifetime limit	Exterior doors, windows, skylights, insulations materials, central air conditioners, water heaters, furnaces, boilers*, heat pumps*, biomass stoves*, home energy audits
Residential Clean Energy Tax Credit	Credit of 30% of the project cost , no annual or lifetime limit	Solar, wind, geothermal
Home Energy Rebate Programs (State of Indiana)	Additional rebates for energy efficiency homes and electric appliances	Heat pump HVAC systems, heat pump water heaters, electric stoves and cooktops, heat pump clothes dryers, and enabling measures such as upgrading circuit panels, insulation, air sealing, ventilation, and wiring

- The Office of Sustainability will launch the Greener Homes initiative to help residents take advantage of tax credits

Tax Credit: Reduction in amount of tax owed. (Nonrefundable: credit can't go towards refund check)

Deduction: Reduction in amount of income subject to tax

Rebate: Upfront discount that arrives quicker than a tax credit.

* - \$2,000 annual limit

What tax incentives can cover

Businesses

Program	Details	Ex. Qualifying Projects
Energy Efficient Commercial Buildings Deduction	Energy savings must be over 25% and certified. The Deduction based on energy savings/sqft. Deduction increases if there are local prevailing wage requirements.	Interior lighting systems, heating, cooling, ventilation, hot water systems, building envelope
Advanced Energy Project Credit	Credit of 6-60% off total cost of system if project meets prevailing wage requirements	Solar, wind, geothermal
Alternative Fuel Vehicle Refueling Property Credit	Credit of 6% with a max credit of \$100,000	Electric vehicle charging stations

Current OoS Grant Approach

Collaboration on shared opportunities and shared goals

- Sharing opportunities with departments and divisions when informed of them
- Attempt to meet with departments and divisions to ideate and apply to grants
- IRA tax incentives: serving as researchers/interpreters
- Creating revolving account for internal sustainability
- Examples
 - USDA Grant (OOS, Civic Innovation, VPA)
 - Midwest Big Data Innovation Hub Grant (OOS, Civic Innovation)
 - Water TA (OOS, PW)
 - EPA Grant (OOS, EEE, VPA)

Current OoS Grant Approach

Climate Action Planning

- Working with Delta Institute to build into our updated action plan a **funding roadmap** that identifies available grant funding to implement strategies and actions
- **Challenges**
 - Very limited capacity! There are grants the City is eligible for but don't apply for; forfeiting money our community could have received.
 - Not informed of efforts from other departments
 - Collaboration could make a stronger applications
 - No formal process to know when other departments are applying for the same grant

OOS Grant Approach: Opportunities for Collaboration

- **Infrastructure:** Public Works (Engineering, Streets)
 - Grey, green, blue infrastructure
 - Walkable, bikeable, alternative transportation friendly, public transportation friendly communities
- **Housing:** DCI (Planning, EEE), PW
 - Green building, energy efficient, affordable, healthy homes
- **Workforce Development:** DCI (G&O)
 - Just Transition – good, green jobs

Sustainability aspect planning beyond grants

Potential grants in 2024

- Delta Institute will deliver a federal funding roadmap in the spring, recommending opportunities aligning with the City's goals
- The Sustainability Team will share the roadmap once it is ready in Q1 of next year
- Sustainability and Civic Innovation Team on pause since there are no immediate grant deadlines in Q4

The screenshot shows the EPA website header with the EPA logo and navigation menu. The main content area features the title "Inflation Reduction Act" and "Inflation Reduction Act Community Change Grants Program" with a "NOW OPEN!" banner. A sidebar on the left contains links for "Inflation Reduction Act Home", "Advancing Environmental Justice", "Delivering Cleaner Air", and "Tackling Climate Pollution". The main text describes the program as a Notice of Funding Opportunity for approximately \$2 billion in funds for environmental and climate justice activities.

EPA United States Environmental Protection Agency

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Inflation Reduction Act

[CONTACT US](#)

- [Inflation Reduction Act Home](#)
- [Advancing Environmental Justice](#)
- [Delivering Cleaner Air](#)
- [Tackling Climate Pollution](#)

Inflation Reduction Act Community Change Grants Program

NOW OPEN!

EPA's new [Environmental and Climate Justice](#) Community Change Grants program (Community Change Grants) has announced a Notice of Funding Opportunity for approximately \$2 billion dollars in [Inflation Reduction Act](#) funds in environmental and climate justice activities to benefit disadvantaged communities through projects that reduce pollution, increase community climate resilience, and build community capacity to address environmental and climate justice challenges. These place-based investments will be focused on community-driven initiatives to be responsive to community and stakeholder input. They are designed to deliver on the transformative potential of the IRA for communities most adversely and disproportionately impacted by climate change, legacy pollution, and historical disinvestments.

New framework

- Currently no concrete strategy to
 - Apply for large, transformational Federal grants
 - Apply for Direct Pay incentives
 - Educate, inform, and support residents, businesses, tax-exempt entities
- **Potential Approach:** Inter and Intra Department collaboration on cross-cutting grants, Federal incentives that provide benefits to residents
 - Apply
 - Implement
 - Document
 - Receive

New framework

- Federal Grants
 - Cross division and departmental
 - Quarterly meetings to discuss grant opportunities
 - Working groups for applying and implementing grants
 - Identified facilitator for pursuing grants
- Direct Pay
 - Documentation for
 - Tax credits
 - Domestic content
 - Apprenticeship requirements
 - Relaying transferable knowledge to the community
 - Utilization of teams with Finance, Legal, Engagement capabilities, potentially third parties
- IRA Tax Credits & Rebates
 - Educate and inform (EEE team, Communications, third-party)
 - Support community so they may benefit from opportunities (Finance, Legal, third-party)

Proposed action plan

Challenges



Possible Actions

City has limited capacity to apply for all eligible grants

Draft process framework for applying for competitive grants and communicating info to the public. Coordinate to identify a grant facilitator

OoS advises City teams on sustainability topics for grant applications

There are information silos among departments when applying for grants

Quarterly meetings and working groups to coordinate grant writing (In-progress)

Document to share info on deadlines, contacts, data, etc.
(e.g. SharePoint List, Monday, USDR tool)

Discussion questions before closing out the topic

1. Thoughts on the proposed plan? Who should be leads from your team on acquiring grants?
2. Are there any grants or grant areas in the upcoming year your team is interested in applying for? And which teams would you need input from? How does this relate to climate action planning?
3. Is there interest in identifying performance metrics to track grant implementation? How does City leadership want to track progress in grant implementation?
4. How can City teams work with the OoS on adding sustainability processes beyond grants?

Celebrating our values

This section highlights exemplary work happening in the City to improve performance that may otherwise go unnoticed

Celebrating our Values



- \$1.8 million awarded by USDA to South Bend for the Urban Tree Canopy program!



SB Stat | Sustainability

2023 Quarter 3 | November 13, 2023

City of South Bend



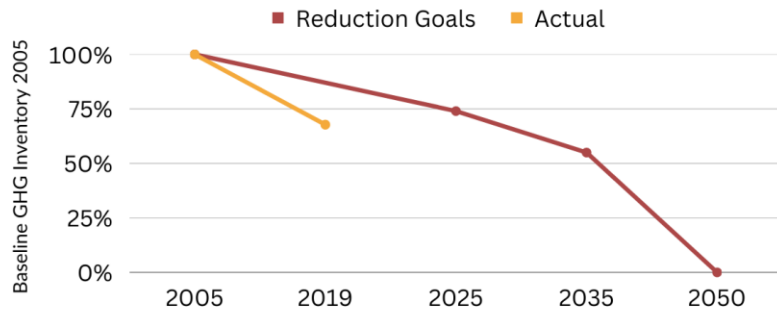
Appendix section

-Annual Outcome KPIs

Comparison of science-based 2040 emission target versus current

SOUTH BEND GHG REDUCTION GOALS & CURRENT PROGRESS

With 2019 as our last greenhouse gas inventory date, South Bend is ahead of schedule in terms of reducing greenhouse gases to zero from a 2005 baseline level.



GREENHOUSE GAS INVENTORIES

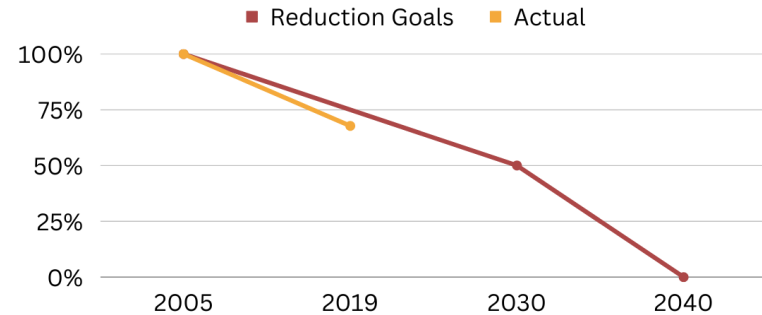
2005 = 2,376,578 CO₂e

2019 = 1,610,596 CO₂e



32.23% decrease in emissions since 2005 baseline

2040 target



The City of South Bend has already surpassed its 2005-based emissions reduction goal of 26% by 2025.

A new, science-based emissions reduction target has been established since the Paris Agreement because, according to the IPCC's recent analyses, a more aggressive approach is necessary to avoid the worst effects of climate change: 50% of baseline levels by 2030 and net-zero by 2040.

Annual outcomes KPI Summary

KPIs	Sustainability Priority Category	How we measure success	Desired outcome	How the metric aligns with the City's values
Greenhouse Gas emission	Mitigation - Planning	<ul style="list-style-type: none"> 50% reduction of 2005 levels of GHGs by 2035 100% by 2050 	South Bend is a carbon net-zero city by 2050	Innovation
Tree Canopy	Adaptation	<ul style="list-style-type: none"> 40% tree canopy coverage by 2050 100,000 trees planted CO2e sequestered 	Residents can benefit from cooler temperatures and other positive effects as temperatures increase	Empowerment
Environmental Justice	Collaboration	<ul style="list-style-type: none"> At least 40% of the Office of Sustainability's investments goes towards census tracts that are identified as disadvantaged 	Vulnerable communities which are most susceptible to climate change are adequately prepared	Inclusion
City Solar Output	Mitigation - Energy	<ul style="list-style-type: none"> 100% renewable energy sources by... 	City facilities are electrified and more energy efficiency.	Accountability

Annual outcomes summary for 2023

Performance Objective	KPI	2023 Actual	2023 Target
Mitigation	Greenhouse Gas emission	32.23% Co2e reduction (2019)	23.4% Co2e reduction
Adaption	Tree Canopy	26% Canopy coverage	26.5% Canopy coverage
Collaboration	Environmental Justice	15 Climate Action Ambassadors	40%< investment \$'s towards disadvantaged communities
Mitigation	Annual solar output	TBD MWh	TBD