



ENERGY AND TRANSPORTATION SUSTAINABILITY PLAN



Funded by the U.S. Department of Energy

August 2011

A CALL TO ACTION

Salt Lake City has completed its first ever community greenhouse gas (GHG) inventory and Energy and Transportation Sustainability Plan. In 2009, the city emitted 4.75 million metric tons of carbon dioxide equivalent (MTCO_{2e}) GHG emissions – or 26 metric tons per person, which is just above the national average. Most of these emissions, 54 percent, resulted from electricity use. Consequently, there is great opportunity for drastically reducing GHG emissions if we can improve energy efficiency, particularly in buildings where most electricity is consumed, and use cleaner sources of electricity.

Armed with this information, we are committing to reduce our GHG emissions to 17 percent below 2005 levels by 2020. The Energy and Transportation Sustainability Plan details how six key strategies and a host of supporting strategies will get us to this goal. The strategies reduce our contribution to climate change; clean the air; provide greater energy security; support a green energy economy; reduce traffic; and protect our water supply, wildlife, and other natural resources. Salt Lake City is proud to be a leader in the area of sustainable development. We believe that our thoughtful, collaborative, and quantified approach will ensure even greater success in the future.

Thank you for all you do,
Mayor Ralph Becker

The Energy and Transportation Sustainability Plan covers the energy and transportation components of the Sustainable Salt Lake vision, which includes ten topics.

This plan aims to establish a framework for increased efficiency and sustainability in the community and to provide the initial stepping stones toward these goals. However, it is ultimately up to the collective actions of the entire community to make Salt Lake City more sustainable. Please consider doing your part.

- Participate in existing building assessment programs for your home and/or business.
- Request more access to utility information from your utility providers.
- Support green building in your next purchase or building project.
- Consider higher density options and proximity to your workplace in your next home purchase.
- Seek alternative means of transportation for your next trip downtown or commute to work.
- Review the full plan and get involved in implementing it.

Visit www.slcgov.com/slccgreen/ to learn more.

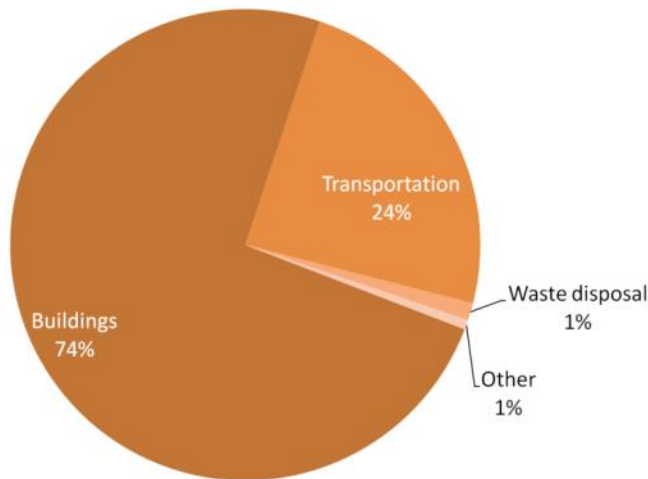


THE CHALLENGE AND PATH TO ACTION

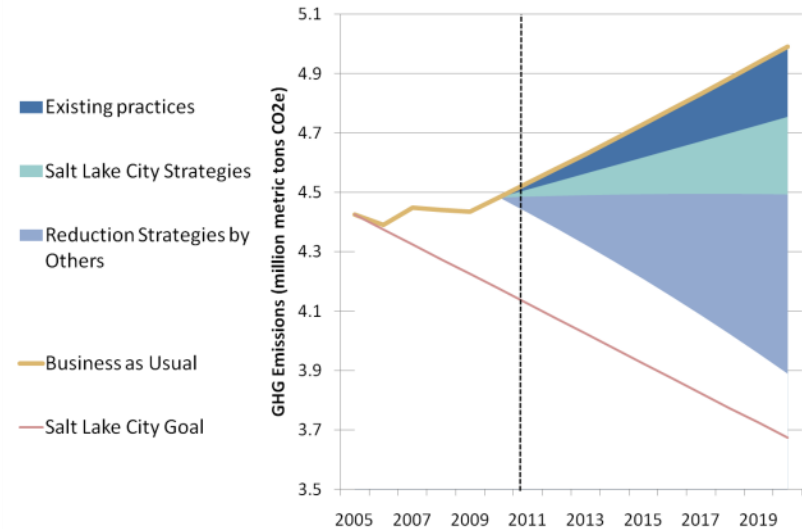
Community Greenhouse Gas Inventory

The recently completed GHG inventory, or Community Carbon Footprint, revealed that Salt Lake City was responsible for 4.75 million MTCO₂e emissions in 2009. Electricity consumption accounted for 54 percent while natural gas combustion accounted for 20 percent. The building sector accounted for nearly three quarters (74 percent) of all emissions, followed by the transportation sector (24 percent), with waste disposal and other sources accounting for less than 1 percent each.

Salt Lake City's 2009 GHG Emissions by Sector



Reducing GHG Emissions in Salt Lake City



A Means to an End

Our goal of reducing our GHG emissions to 17 percent below 2005 levels by 2020 will mean changing what we do enough to eliminate 1.3 million MTCO₂e in 2020. These reductions will be achieved through existing practices and community programs, additional strategies proposed in the Energy and Transportation Sustainability Plan, and changes outside of Salt Lake City's direct control but that can still be influenced, such as improved vehicle fuel efficiency standards and reduced carbon intensity of electricity. These actions, taken together, can advance Salt Lake City significantly toward achieving its GHG reduction goal. The strategies in the Energy and Transportation Sustainability Plan could reduce an estimated 1.1 million MTCO₂e in 2020, leaving a gap of about 0.2 million MTCO₂e to be addressed in annual reviews of new best practices and opportunities.

ENERGY CONSERVATION AND RENEWABLE ENERGY STRATEGIES

Commercial Building Re-commissioning

Recommissioning, or building tune-ups, addresses lighting, HVAC, and other building components to ensure that a building is operating in the most energy efficient manner possible. To help achieve the Energy and Transportation Sustainability Plan's goal, the community should aim to re-commission about 10 percent of small buildings (~700) and 10 percent of large buildings (~25) each year between now and 2020.

Targeted Energy Information for Consumers

Providing consumers more information on how much energy they use can lead to behavior changes that reduce consumption. The community should aim to offer information to all residential utility customers, both electric and gas, with sufficient tips and messaging to achieve a 3.5 percent reduction in projected residential energy consumption by 2020.

Voluntary Above-code Adoption in New Construction

The community can encourage voluntary adoption of above-code or third-party green building certifications, such as LEED and Home Performance with ENERGY STAR, using incentives such as reduced permitting fees and expedited permit reviews. This strategy calls for 75 percent of all new homes to be constructed to ENERGY STAR certified standards or equivalent and 30 percent of all new commercial buildings constructed to at least LEED Silver standards or equivalent.

BENEFITS OF THESE STRATEGIES IN 2020

GHG Reduction: 140,000 MTCO₂e



OTHER STRATEGIES

- Energy Efficiency for Low Income Residents
- Energy Efficiency for Large Institutions
- After Hours Lighting Control at Businesses
- More Stringent Building Codes
- Reduced Carbon Intensity in Electricity Supply
- Municipal Opportunities in Renewable Energy
- See the full plan for more strategies that were considered...

BENEFITS OF OTHER STRATEGIES IN 2020

GHG Reduction: 494,000 MTCO₂e

The majority of these reductions are the result of reducing the carbon intensity of electricity. While this is a very important strategy – it is not highlighted at left because it is outside of the direct control of Salt Lake City.

TRANSPORTATION & MOBILITY STRATEGIES

Compact, Transit-supportive, Mixed-use Urban Form

A city that is compact, provides access to transit, and incorporates mixed-use development can help reduce vehicle miles driven and support other modes of travel, such as walking or cycling. It can also provide more choices in housing, shopping, and employment. Under this strategy, the city would aim to achieve a compact (>10 residential units/acre), transit-supportive (<1/2 a mile to transit), mixed-use form for all new development between now and 2020.

Parking Supply Reduction

Reducing parking supply can benefit the city's transportation system by encouraging transit use. This includes limiting parking by specifying the maximum amount of parking for new development and increasing the price of on-street parking downtown by 25 to 50 percent.

Commuter Reduction Programs

A Commuter Reduction Program (CRP) helps employees use alternative modes of travel and provides both carrots, such as ride-matching assistance, and sticks, such as priced parking. The goal for this strategy is to reduce commuting vehicle miles by 6 percent for about 50 percent of the commuting population.



OTHER SUPPORTING STRATEGIES

- Increased Bike Infrastructure
- Parking Cashout Program
- Remote Parking/Park & Ride
- Local Circulators for “First Mile/Last Mile” Travel
- Improved federal fuel economy standards
- See the full plan for more strategies that were considered...

BENEFITS OF OTHER STRATEGIES IN 2020

GHG Reduction: 173,000 MTCO₂e

The majority of these reductions are the result of the increasing fuel economy of vehicles due to federal standards. While this is a very important strategy – it is not highlighted at left because it is outside of the direct control of Salt Lake City.

BENEFITS OF THESE STRATEGIES IN 2020

GHG Reduction: 46,000 MTCO₂e

SUSTAINABILITY VISION



The Energy and Transportation Sustainability Plan covers the Energy and Transportation & Mobility topics, 2 of the 10 topics covered by the broader Sustainable Salt Lake vision.

To learn more about the Energy and Transportation Sustainability Plan and the other Sustainable Salt Lake Topics visit:

www.slcgov.com/slccgreen/



For more information, please see the full Energy and Transportation Sustainability Plan at

www.slcgov.com/slcgreen/

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