

Road Transportation

GHG Reduction Strategy	Strategy Focus Area	Examples of Typical Policies and Actions	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Transportation	Increase Zero Emission and/or Alternative Fuels	- Encourage use of biogas or electric equipment - Mandate conversion of diesel/gasoline construction and/or landscape equipment to biogas or electric - Identify and prepare city-wide biofuel and charging station siting plan - Install EV charging and other alternative fuel stations in parking structures/street parking - Install roundabouts in appropriate areas	Very low Low None Low/Medium Low Low/Medium
	Reduce Fuel Use	- TDM outreach and education on options to reduce travel demand and optimize transportation modes - Identify employers to connect to vanpools, carpools through SANDAG iCommute program - Implement and incentivize carpools, vanpools - Increase telecommuting – work with SANDAG to implement - Adopt TDM ordinance specifying trip type goals for new developments - Implement a local shuttle service system in the downtown area to reduce single occupancy vehicle use	Very low Low Low/Medium Low/Medium Low/Medium Low/Medium
	VMT Reduction	- Install transit-only lanes - Increase public transit routes and/or route frequency to increase mode share - Provide park and ride lots at transit stations and facilitate their use	Low Medium Low/Medium
		- Develop pedestrian plan for more sidewalks - Update trails master plan to increase new connection points and improve accessibility	None None
Active Transportation (Walking)	Active Transportation (Biking)	- Pedestrian improvements (link walkable areas, safety features/shade/crosswalks etc) - Implement pedestrian-only and safe routes to school zones	Low Low
		Adopt ordinance to require new developments and some retrofits to install bike racks and other supportive amenities like showers	Very low
	Complete Streets	Design streets to provide for all users - cars, bicycles, walkers, and transit users	Low

GHG Reduction Strategy	Strategy (Focus Area)	Examples of Typical	Estimated Long-Term (GHG) Reduction Potential
GHG Emissions Category: Energy			
Zero Net Energy	Zero Net Energy (ZNE)	Implement an ordinance requiring new commercial buildings achieve ZNE standards	Medium
Increase Energy Efficiency / Conserve Energy	Education	- Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation - Encourage energy efficiency improvements through rebates or incentives	Very Low Low
	Retrofits	- Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale - Adopt an energy benchmarking ordinance	Low/Medium Medium
	Smart Meters & Appliances	Policies to promote the installation of smart appliances that interface with smart meters at homes and businesses	Very Low
	Municipal Retrofits	Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems	Low/Medium
Increase Renewable Energy	Municipal on-site renewable energy	Increase on site renewable energy generation	Low/Medium
	City-wide renewable supply	Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030	High
	Behind the Meter Renewable Supply	Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees	Low
	Water Heating	Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings	Low/Medium

Water, Waste and Carbon Sinks

GHG Reduction Strategy	Strategy Focus/Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential	
GHG Emissions Category: Water & Wastewater				
Increase Recycled, Reclaimed & Grey Water	Recycled, Reclaimed & Grey Water	• Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)	Low	
	Water Conservation	Outdoor Water Use	• Provide education on pool covers to pool owners • Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems • Update landscape water conservation ordinance including, for example, water budgets	Very low Low Low/Medium
		Indoor Water Use	• Mandate installation of high efficiency fixtures at time of sale or renovation • Implement an ordinance requiring water use audits at time of sale or major renovation	Low Low
		Municipal Water Use	• Install high efficiency fixtures at municipal facilities • Hydrozone landscapes at municipal facilities and parks	Low Very Low
	Water Utility Improvements	Rate Structures	• Implement water rate increases	Low/Medium
Methane Capture		• Increase methane capture at wastewater treatment plants	Low/Medium	
Facility Improvements		• Identify water utility efficiencies • Identify and address leaks	Unknown Unknown	
GHG Emissions Category: Solid Waste				
Solid Waste Reduction & Increased Recycling	Solid Waste Reduction & Increased Recycling	• Adopt a zero-waste landfill policy	Medium	
		• Implement a composting ordinance	Low	
		• Implement a community garden ordinance	Low	
GHG Emissions Category: Carbon Sequestration				
Trees & Open Space	Easements	• Encourage conservation easements to retain vegetation that capture and store carbon as they grow	Low	
	Shade Trees	• Implement an ordinance requiring new development and/or major renovation projects to plant shade trees • Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate	Low Low	
	Urban Forest	• Implement an urban forestry or City-wide tree planting program	Low	

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GHG Reduction Strategy	Strategy Focus Area	Examples of Typical Policies and Actions	Estimated Long-Term GHG Reduction Potential
Increase Zero Emission and/or Alternative Fuels	GHG Emissions Category: Transportation		
	Construction/Landscape/Waste hauler Vehicles/Equipment	- Encourage use of bio gas or electric equipment - Mandate conversion of diesel/gasoline construction and/or landscape equipment to bio gas or electric	Very low
	Zero Emission/Alternative Fuel Infrastructure	- Identify and prepare city-wide bio fuel and charging station siting plan - Install EV charging and other alternative fuel stations	None
	Preferred Parking	- Provide preferred parking for low emission vehicles in parking structures/street parking - Install roundabouts in appropriate areas	Low/Medium
Reduce Fuel Use	Transportation Systems Management (TSM)		Low/Medium
	Transportation Demand Management (TDM)	- TDM outreach and education on options to reduce travel demand and optimize transportation modes - Identify employers to connect to vanpools, carpools through SANDAG iCommute program - Implement and incentivize carpools, vanpools - Increase telecommuting – work with SANDAG to implement - Adopt TDM ordinance specifying trip type goals for new developments	Very low
	Transit systems	- Implement a local shuttle service system in the downtown area to reduce single occupancy vehicle use - Install transit-only lanes	Low
		- Increase public transit routes and/or route frequency to increase mode share - Provide park and ride lots at transit stations and facilitate their use	Medium
VMT Reduction	Active Transportation (Walking)	- Develop pedestrian plan for more sidewalks - Update trails master plan to increase new connection points and improve accessibility	Low/Medium
	Active Transportation (Biking)	- Pedestrian improvements (link walkable areas, safety features/shade/crosswalks etc) - Implement pedestrian-only and safe routes to school zones	None
		Adopt ordinance to require new developments and some retrofits to install bike racks and other supportive amenities like showers	None
	Complete Streets	Design streets to provide for all users - cars, bicycles, walkers, and transit users	Very low

GHG Reduction Strategy		Strategy/Focus Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Energy				
Zero Net Energy	Zero Net Energy (ZNE)		Implement an ordinance requiring new commercial buildings achieve ZNE standards	Medium
Increase Energy Efficiency / Conserve Energy	Education		- Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation - Encourage energy efficiency improvements through rebates or incentives	Very Low Low
	Retrofits		- Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale - Adopt an energy benchmarking ordinance	Low/Medium Medium
	Smart Meters & Appliances		Policies to promote the installation of smart appliances that interface with smart meters at homes and business	Very Low
	Municipal Retrofits		Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems	Low/Medium
Increase Renewable Energy	Municipal on-site renewable energy		Increase on site renewable energy generation	Low/Medium YES
	City-wide renewable supply		Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030	High YES
	Behind the Meter Renewable Supply		Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees	Low
	Water Heating		Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings	Low/Medium

GHG Reduction Strategy	Strategy/Focus Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Water & Wastewater			
Increase Recycled, Reclaimed & Grey Water	Recycled, Reclaimed & Grey Water	• Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)	Low
	Outdoor Water Use	• Provide education on pool covers to pool owners • Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems • Update landscape water conservation ordinance including, for example, water budgets	Very low Low Low/Medium
	Indoor Water Use	• Mandate installation of high efficiency fixtures at time of sale or renovation • Implement an ordinance requiring water use audits at time of sale or major renovation	Low Low
	Municipal Water Use	• Install high efficiency fixtures at municipal facilities • Hydrozone landscapes at municipal facilities and parks	Low Very Low
	Rate Structures	• Implement water rate increases	Low/Medium
Water Utility Improvements	Methane Capture	• Increase methane capture at wastewater treatment plants	Low/Medium
	Facility Improvements	• Identify water utility efficiencies • Identify and address leaks	Unknown Unknown
	GHG Emissions Category: Solid Waste		
Solid Waste Reduction & Increased Recycling	Solid Waste Reduction & Increased Recycling	• Adopt a zero-waste landfill policy	Medium
		• Implement a composting ordinance	Low
		• Implement a community garden ordinance	Low
GHG Emissions Category: Carbon Sequestration			
Trees & Open Space	Easements	• Encourage conservation easements to retain vegetation that capture and store carbon as they grow	Low
	Shade Trees	• Implement an ordinance requiring new development and/or major renovation projects to plant shade trees • Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate	Low Low
	Urban Forest	• Implement an urban forestry or City-wide tree planting program	Low

Road Transportation

GHG Reduction Strategy	Strategy/Facile Area	Examples of Typical Policies and Actions	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Transportation			
Increase Zero Emission and/or Alternative Fuels	Construction/Landscape/Waste hauler Vehicles/Equipment	- Encourage use of biogas or electric equipment - Mandate conversion of diesel/gasoline construction and/or landscape equipment to biogas or electric	Very low Low
	Zero Emission/Alternative Fuel Infrastructure	- Identify and prepare city-wide biofuel and charging station siting plan - Install EV charging and other alternative fuel stations in parking structures/street parking	None Low/Medium Low
	Preferred Parking	- Provide preferred parking for low emission vehicles in parking structures/street parking - Install roundabouts in appropriate areas	Low/Medium Low
	Transportation Systems Management (TSM) Transportation Demand Management (TDM)	- TDM outreach and education on options to reduce travel demand and optimize transportation modes - Identify employers to connect to vanpools, carpools through SANDAG iCommute program - Implement and incentivize carpools, vanpools - Increase telecommuting – work with SANDAG to implement - Adopt TDM ordinance specifying trip type goals for new developments	Very low Low Low/Medium Medium Low/Medium
VMT Reduction	Transit systems	- Implement a local shuttle service system in the downtown area to reduce single occupancy vehicle use - Install transit-only lanes - Increase public transit routes and/or route frequency to increase mode share - Provide park and ride lots at transit stations and facilitate their use	Low/Medium Low Medium Low/Medium
		- Develop pedestrian plan for more sidewalks - Update trails master plan to increase new connection points and improve accessibility	None None
		- Pedestrian improvements (link walkable areas, safety features/shade/crosswalks etc) - Implement pedestrian-only and safe routes to school zones	Low Low
	Active Transportation (Walking)	Adopt ordinance to require new developments and some retrofits to install bike racks and other supportive amenities like showers	Very low
	Active Transportation (Biking)	Design streets to provide for all users - cars, bicycles, walkers, and transit users	Low
	Complete Streets		

GHG Reduction Strategy	Strategy/Topic/Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential	
GHG Emissions Category: Energy				
Zero Net Energy	Zero Net Energy (ZNE)	Implement an ordinance requiring new commercial buildings achieve ZNE standards	Medium	
Increase Energy Efficiency / Conserve Energy	Education	- Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation - Encourage energy efficiency improvements through rebates or incentives	Very Low Low	yes
	Retrofits	- Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale - Adopt an energy benchmarking ordinance	Low/Medium Medium	yes
	Smart Meters & Appliances	Policies to promote the installation of smart appliances that interface with smart meters at homes and business	Very Low	
	Municipal Retrofits	Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems	Low/Medium	yes
	Municipal on-site renewable energy City-wide renewable supply	- Increase on site renewable energy generation - Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030	Low/Medium High	yes
Increase Renewable Energy	Behind the Meter Renewable Supply	Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees	Low	yes
	Water Heating	Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings	Low/Medium	yes

GHG Reduction Strategy	Strategy Focus Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Water & Wastewater			
Increase Recycled, Reclaimed & Grey Water	Recycled, Reclaimed & Grey Water	• Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)	Low
	Outdoor Water Use	• Provide education on pool covers to pool owners • Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems • Update landscape water conservation ordinance including, for example, water budgets	Very low Low Low/Medium
	Indoor Water Use	• Mandate installation of high efficiency fixtures at time of sale or renovation • Implement an ordinance requiring water use audits at time of sale or major renovation	Low Low
	Municipal Water Use	• Install high efficiency fixtures at municipal facilities • Hydrozone landscapes at municipal facilities and parks	Low Very Low
	Rate Structures	• Implement water rate increases	Low/Medium
Water Utility Improvements	Methane Capture	• Increase methane capture at wastewater treatment plants	Low/Medium
	Facility improvements	• Identify water utility efficiencies • Identify and address leaks	Unknown Unknown
			yes
GHG Emissions Category: Solid Waste			
Solid Waste Reduction & Increased Recycling	Solid Waste Reduction & Increased Recycling	• Adopt a zero-waste landfill policy	Medium
		• Implement a composting ordinance	Low
		• Implement a community garden ordinance	Low
GHG Emissions Category: Carbon Sequestration			
Trees & Open Space	Easements	• Encourage conservation easements to retain vegetation that capture and store carbon as they grow	Low
	Shade Trees	• Implement an ordinance requiring new development and/or major renovation projects to plant shade trees • Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate	Low Low
	Urban Forest	• Implement an urban forestry or City-wide tree planting program	Low
			yes

Road Transportation

GHG Reduction Strategy	Strategy/Road Area	Examples of Typical Policies and Actions	Estimated Long-Term GHG Reduction Potential
Increase Zero Emission and/or Alternative Fuels	GHG Emissions Category: Transportation		
	Construction/Landscape/Waste hauler Vehicles/Equipment	- Encourage use of biogas or electric equipment - Mandate conversion of diesel/gasoline construction and/or landscape equipment to biogas or electric	Very low Low None
	Zero Emission/Alternative Fuel Infrastructure	- Identify and prepare city-wide biofuel and charging station siting plan - Install EV charging and other alternative fuel stations - Provide preferred parking for low emission vehicles in parking structures/street parking - Install roundabouts in appropriate areas	Low/Medium Low Low/Medium Low
	Preferred Parking		yes
Reduce Fuel Use	Transportation Systems Management (TSM)	Install roundabouts in appropriate areas	Low/Medium Low
	Transportation Demand Management (TDM)	- TDM outreach and education on options to reduce travel demand - Identify employers to connect to vanpools, carpools through SANDAG iCommute program - Implement and incentivize carpools, vanpools - Increase telecommuting - work with SANDAG to implement - Adopt TDM ordinance specifying trip type goals for new developments	Very low Low Low/Medium Medium Low/Medium
	Transit systems	- Implement a local shuttle service system in the downtown area to reduce single occupancy vehicle use - Install transit-only lanes - Increase public transit routes and/or route frequency to increase mode share - Provide park and ride lots at transit stations and facilitate their use	Low/Medium Low Medium Low/Medium
	Active Transportation (Walking)	- Develop pedestrian plan for more sidewalks - Update trails master plan to increase new connection points and improve accessibility	None None Low Low
VMT Reduction	Active Transportation (Biking)	- Pedestrian improvements (link walkable areas, safety features/shade/crosswalks etc) - Implement pedestrian-only and safe routes to school zones - Adopt ordinance to require new developments and some retrofits to install bike racks and other supportive amenities like showers - Design streets to provide for all users - cars, bicycles, walkers, and transit users	Low Low Very low Low
	Complete Streets		Low
			yes
			yes

Person 2

NO

Yes

NO

Yes

Yes to all

Yes-- maybe cover more of Valley Parkway

NO

Yes

Yes

Yes

After streets provide for all users. NO Biking now is dangerous

Yes

Building Energy

GHG Reduction Strategy	Strategy Focus Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential	
GHG Emissions Category: Energy				
Zero Net Energy	Zero Net Energy (ZNE)	Implement an ordinance requiring new commercial buildings achieve ZNE standards	Medium	yes
Increase Energy Efficiency / Conserve Energy	Education	- Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation - Encourage energy efficiency improvements through rebates or incentives	Very Low Low	no
	Retrofits	- Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale - Adopt an energy benchmarking ordinance	Low/Medium Medium	no
	Smart Meters & Appliances	Policies to promote the installation of smart appliances that interface with smart meters at homes and business	Very Low	yes
	Municipal Retrofits	Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems	Low/Medium	yes
Increase Renewable Energy	Municipal on-site renewable energy	Increase on site renewable energy generation	Low/Medium	yes
	City-wide renewable supply	Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030	High	yes
	Behind the Meter Renewable Supply	Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees <i>Light → Elec.</i>	Low	no
	Water Heating	Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings	Low/Medium	yes

Not require solar is tens of thousands.
Promote or encourage - yes

Water, Waste and Carbon Sinks

GHG Reduction Strategy	Strategy Focus Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential	
GHG Emissions Category: Water & Wastewater				
Increase Recycled, Reclaimed & Grey Water	Recycled, Reclaimed & Grey Water	Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)	Low	yes
	Outdoor Water Use	- Provide education on pool covers to pool owners - Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems - Update landscape water conservation ordinance including, for example, water budgets	Very low Low Low/Medium	yes
	Indoor Water Use	- Mandate installation of high efficiency fixtures at time of sale or renovation - Implement an ordinance requiring water use audits at time of sale or major renovation	Low Low	yes
	Municipal Water Use	- Install high efficiency fixtures at municipal facilities - Hydrozone landscapes at municipal facilities and parks - Implement water rate increases - Increase methane capture at wastewater treatment plants - Identify water utility efficiencies - Identify and address leaks	Low Very Low Low/Medium Low/Medium Unknown Unknown	yes no yes yes yes
Water Utility Improvements	Rate Structures			yes
	Methane Capture			yes
	Facility Improvements			yes
GHG Emissions Category: Solid Waste				
Solid Waste Reduction & Increased Recycling	Solid Waste Reduction & Increased Recycling	- Adopt a zero-waste landfill policy ? - Implement a composting ordinance - Implement a community garden ordinance	Medium Low Low	yes no yes
GHG Emissions Category: Carbon Sequestration				
Trees & Open Space	Easements	Encourage conservation easements to retain vegetation that capture and store carbon as they grow	Low	yes
	Shade Trees	- Implement an ordinance requiring new development and/or major renovation projects to plant shade trees - Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate	Low Low	yes yes
	Urban Forest	Implement an urban forestry or City-wide tree planting program	Low	yes

Yes

Yes

Yes

Yes

NO

Yes

Yes

Yes - worth exploring

Yes

Yes

Yes to both

Yes

Road Transportation

GHG Reduction Strategy	Strategy Focus Area	Examples of Typical Policies and Actions	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Transportation			
Increase Zero Emission and/or Alternative Fuels	Construction/Landscape/Waste hauler Vehicles/Equipment	- Encourage use of biogas or electric equipment - Mandate conversion of diesel/gasoline construction and/or landscape equipment to biogas or electric	Very low
	Zero Emission/Alternative Fuel Infrastructure	Identify and prepare city-wide biofuel and charging station siting plan	None
	Preferred Parking	- Install EV charging and other alternative fuel stations - Provide preferred parking for low emission vehicles in parking structures/street parking	Low/Medium Low
	Transportation Systems Management (TSM)	Install roundabouts in appropriate areas	Low/Medium Yes
	Transportation Demand Management (TDM)	- TDM outreach and education on options to reduce travel demand and optimize transportation modes - Identify employers to connect to vanpools, carpools through SANDAG iCommute program - Implement and incentivize carpools, vanpools - Increase telecommuting – work with SANDAG to implement - Adopt TDM ordinance specifying trip type goals for new developments	Very low Low Low/Medium Medium Low/Medium
VMT Reduction	Transit systems	- Implement a local shuttle service system in the downtown area to reduce single occupancy vehicle use - Install transit-only lanes - Increase public transit routes and/or route frequency to increase mode share - Provide park and ride lots at transit stations and facilitate their use	Low/Medium Low Medium Low/Medium Yes
		- Develop pedestrian plan for more sidewalks - Update trails master plan to increase new connection points and improve accessibility	None None
		- Pedestrian improvements (link walkable areas, safety features/shade/crosswalks etc) - Implement pedestrian-only and safe routes to school zones	Low Low
	Active Transportation (Walking)	Adopt ordinance to require new developments and some retrofits to install bike racks and other supportive amenities like showers	Very low
	Complete Streets	Design streets to provide for all users - cars, bicycles, walkers, and transit users	Low Yes

GHG Reduction Strategy	Strategy Focus/Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Energy			
Zero Net Energy	Zero Net Energy (ZNE)	Implement an ordinance requiring new commercial buildings achieve ZNE standards	Medium ✓/5
Increase Energy Efficiency / Conserve Energy	Education	- Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation - Encourage energy efficiency improvements through rebates or incentives	Very Low Low
	Retrofits	- Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale - Adopt an energy benchmarking ordinance	Low/Medium Medium
	Smart Meters & Appliances	Policies to promote the installation of smart appliances that interface with smart meters at homes and business	Very Low
	Municipal Retrofits	Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems	Low/Medium
	Municipal on-site renewable energy	Increase on site renewable energy generation	Low/Medium
Increase Renewable Energy	City-wide renewable supply	Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030	High
	Behind the Meter Renewable Supply	Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees	Low
	Water Heating	Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings	Low/Medium ✓/5

GHG Reduction Strategy	Strategy/Focus Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Water & Wastewater			
Increase Recycled, Reclaimed & Grey Water	Recycled, Reclaimed & Grey Water	Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)	Low
Water Conservation	Outdoor Water Use	- Provide education on pool covers to pool owners - Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems - Update landscape water conservation ordinance including, for example, water budgets	Very low Low <i>ps</i> Low/Medium
	Indoor Water Use	- Mandate installation of high efficiency fixtures at time of sale or renovation - Implement an ordinance requiring water use audits at time of sale or major renovation	Low <i>ps</i> Low
	Municipal Water Use	- Install high efficiency fixtures at municipal facilities - Hydrozone landscapes at municipal facilities and parks - Implement water rate increases	Low <i>ps</i> Very Low Low/Medium
	Rate Structures	Increase methane capture at wastewater treatment plants	Low/Medium
Water Utility Improvements	Methane Capture	- Identify water utility efficiencies - Identify and address leaks	Unknown Unknown
	Facility Improvements		
GHG Emissions Category: Solid Waste			
Solid Waste Reduction & Increased Recycling	Solid Waste Reduction & Increased Recycling	Adopt a zero-waste landfill policy	Medium
		Implement a composting ordinance	Low
		Implement a community garden ordinance	Low
GHG Emissions Category: Carbon Sequestration			
Trees & Open Space	Easements	Encourage conservation easements to retain vegetation that capture and store carbon as they grow	Low <i>ps</i>
	Shade Trees	- Implement an ordinance requiring new development and/or major renovation projects to plant shade trees - Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate	Low <i>ps</i> Low
	Urban Forest	Implement an urban forestry or City-wide tree planting program	Low <i>ps</i>

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GHG Reduction Strategy	Strategy Focus/Area	Examples of Typical Policies and Actions	Estimated Long-Term GHG Reduction Potential
Increase Zero Emission and/or Alternative Fuels	GHG Emissions Category: Transportation		
	Construction/Landscape/Waste hauler Vehicles/Equipment	- Encourage use of biogas or electric equipment - Mandate conversion of diesel/gasoline construction and/or landscape equipment to biogas or electric - Identify and prepare city-wide biofuel and charging station siting plan - Install EV charging and other alternative fuel stations - Provide preferred parking for low emission vehicles in parking structures/street parking - Install roundabouts in appropriate areas	Very low Low None Low/Medium Low Low/Medium
	Zero Emission/Alternative Fuel Infrastructure		
	Preferred Parking		
Reduce Fuel Use	Transportation Systems Management (TSM)		
	Transportation Demand Management (TDM)	- TDM outreach and education on options to reduce travel demand and optimize transportation modes - Identify employers to connect to vanpools, carpools through SANDAG iCommute program - Implement and incentivize carpools, vanpools - Increase telecommuting – work with SANDAG to implement - Adopt TDM ordinance specifying trip type goals for new developments	Very low Low Low/Medium Medium Low/Medium
VMT Reduction	Transit systems	- Implement a local shuttle service system in the downtown area to reduce single occupancy vehicle use - Install transit-only lanes - Increase public transit routes and/or route frequency to increase mode share - Provide park and ride lots at transit stations and facilitate their use	Low/Medium Low Medium Low/Medium
		- Develop pedestrian plan for more sidewalks - Update trails master plan to increase new connection points and improve accessibility	None None
		- Pedestrian improvements (link walkable areas, safety features/shade/crosswalks etc) - Implement pedestrian-only and safe routes to school zones	Low Low
		- Adopt ordinance to require new developments and some retrofits to install bike racks and other supportive amenities like showers - Design streets to provide for all users - cars, bicycles, walkers, and transit users	Very low Low
	Active Transportation (Walking)		
	Active Transportation (Biking)		
	Complete Streets		

Building Energy

GHG Reduction Strategy	Strategy Focus Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Energy			
Zero Net Energy	Zero Net Energy (ZNE)	Implement an ordinance requiring new commercial buildings achieve ZNE standards	Medium
Increase Energy Efficiency / Conserve Energy	Education	- Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation - Encourage energy efficiency improvements through rebates or incentives	Very Low Low
	Retrofits	- Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale - Adopt an energy benchmarking ordinance	Low/Medium Medium
	Smart Meters & Appliances	Policies to promote the installation of smart appliances that interface with smart meters at homes and business	Very Low
	Municipal Retrofits	Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems	Low/Medium
Increase Renewable Energy	Municipal on-site renewable energy	Increase on site renewable energy generation	Low/Medium
	City-wide renewable supply	Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030	High
	Behind the Meter Renewable Supply	Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees	Low
	Water Heating	Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings	Low/Medium

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Water, Waste and Carbon Sinks

GHG Reduction Strategy	Strategy Focus Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Water & Wastewater			
Increase Recycled, Reclaimed & Grey Water	Recycled, Reclaimed & Grey Water	Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)	Low
	Outdoor Water Use	- Provide education on pool covers to pool owners - Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems - Update landscape water conservation ordinance including, for example, water budgets - Mandate installation of high efficiency fixtures at time of sale or renovation - Implement an ordinance requiring water use audits at time of sale or major renovation - Install high efficiency fixtures at municipal facilities - Hydrozone landscapes at municipal facilities and parks - Implement water rate increases - Increase methane capture at wastewater treatment plants - Identify water utility efficiencies - Identify and address leaks	Very low Low Low/Medium Low Low Low Very Low Low/Medium Low/Medium Unknown Unknown
Water Conservation	Indoor Water Use		Low
	Municipal Water Use		Low
Water Utility Improvements	Rate Structures		Low
	Methane Capture		Very Low
Facility Improvements	Facility Improvements		Low/Medium
			Low/Medium
GHG Emissions Category: Solid Waste			
Solid Waste Reduction & Increased Recycling	Solid Waste Reduction & Increased Recycling	- Adopt a zero-waste landfill policy - Implement a composting ordinance - Implement a community garden ordinance	Medium Low Low
GHG Emissions Category: Carbon Sequestration			
Trees & Open Space	Easements	Encourage conservation easements to retain vegetation that capture and store carbon as they grow	Low
	Shade Trees	- Implement an ordinance requiring new development and/or major renovation projects to plant shade trees - Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate - Implement an urban forestry or City-wide tree planting program	Low Low Low
Urban Forest	Urban Forest		Low

high water consumption is always over the plan usually conservative.

Other areas like permeable pavement, green roofs, etc. are also important to consider.

Look at current rules and see if they can be improved. Need to look at the building code and see if it can be improved. Need to look at the building code and see if it can be improved.

Road Transportation

GHG Reduction Strategy	Strategy/ Goals/ Area	Examples of Typical Policies and Actions	Estimated Long-Term GHG Reduction Potential	
GHG Emissions Category: Transportation				
Increase Zero Emission and/or Alternative Fuels	Construction/Landscape/Waste hauler Vehicles/Equipment	- Encourage use of biogas or electric equipment - Mandate conversion of diesel/gasoline construction and/or landscape equipment to biogas or electric	Very low	-
	Zero Emission/Alternative Fuel Infrastructure	- Identify and prepare city-wide biofuel and charging station siting plan - Install EV charging and other alternative fuel stations - Provide preferred parking for low emission vehicles in parking structures/street parking	None Low/Medium Low	-
	Preferred Parking	Install roundabouts in appropriate areas	Low/Medium	-
	Transportation Systems Management (TSM)	- TDM outreach and education on options to reduce travel demand and optimize transportation modes - Identify employers to connect to vanpools, carpools through SANDAG iCommute program - Implement and incentivize carpools, vanpools - Increase telecommuting – work with SANDAG to implement - Adopt TDM ordinance specifying trip type goals for new developments	Very low Low Low/Medium Medium Low/Medium	+
VMT Reduction	Transit systems	- Implement a local shuttle service system in the downtown area to reduce single occupancy vehicle use - Install transit-only lanes - Increase public transit routes and/or route frequency to increase mode share	Low/Medium Low Medium	+
		Provide park and ride lots at transit stations and facilitate their use	Low/Medium	+
		- Develop pedestrian plan for more sidewalks - Update trails master plan to increase new connection points and improve accessibility	None None	+
	Active Transportation (Walking)	- Pedestrian improvements (link walkable areas, safety features/shade/crosswalks etc) - Implement pedestrian-only and safe routes to school zones	Low Low	+
		Adopt ordinance to require new developments and some retrofits to install bike racks and other supportive amenities like showers	Very low	+
	Complete Streets	Design streets to provide for all users - cars, bicycles, walkers, and transit users	Low	+

GHG Reduction Strategy	Strategy Focus Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Energy			
Zero Net Energy	Zero Net Energy (ZNE)	Implement an ordinance requiring new commercial buildings achieve ZNE standards	Medium
Increase Energy Efficiency / Conserve Energy	Education	- Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation - Encourage energy efficiency improvements through rebates or incentives	Very Low Low
	Retrofits	- Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale - Adopt an energy benchmarking ordinance	Low/Medium Medium
	Smart Meters & Appliances	Policies to promote the installation of smart appliances that interface with smart meters at homes and businesses	Very Low
	Municipal Retrofits	Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems	Low/Medium
Increase Renewable Energy	Municipal on-site renewable energy	Increase on site renewable energy generation	Low/Medium
	City-wide renewable supply	Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030	High
	Behind the Meter Renewable Supply	Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees	Low
	Water Heating	Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings	Low/Medium

GHG Reduction Strategy	Strategy Focus Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential	
GHG Emissions Category: Water & Wastewater				
Increase Recycled, Reclaimed & Grey Water	Recycled, Reclaimed & Grey Water	Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)	Low	+
	Outdoor Water Use	- Provide education on pool covers to pool owners - Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems - Update landscape water conservation ordinance including, for example, water budgets - Mandate installation of high efficiency fixtures at time of sale or renovation - Implement an ordinance requiring water use audits at time of sale or major renovation	Very low Low Low/Medium	+
	Indoor Water Use	- Mandate installation of high efficiency fixtures at time of sale or renovation - Implement an ordinance requiring water use audits at time of sale or major renovation	Low Low	-
	Municipal Water Use	- Install high efficiency fixtures at municipal facilities - Hydrozone landscapes at municipal facilities and parks - Implement water rate increases	Low Very Low Low/Medium	+
	Rate Structures	Increase methane capture at wastewater treatment plants	Low/Medium	+
Water Utility Improvements	Methane Capture	- Identify water utility efficiencies - Identify and address leaks	Unknown Unknown	+
	Facility Improvements			+
GHG Emissions Category: Solid Waste				
Solid Waste Reduction & Increased Recycling	Solid Waste Reduction & Increased Recycling	Adopt a zero-waste landfill policy	Medium	+
		Implement a composting ordinance	Low	+
		Implement a community garden ordinance	Low	+
GHG Emissions Category: Carbon Sequestration				
Trees & Open Space	Easements	Encourage conservation easements to retain vegetation that capture and store carbon as they grow	Low	+
	Shade Trees	- Implement an ordinance requiring new development and/or major renovation projects to plant shade trees - Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate	Low Low	+
	Urban Forest	Implement an urban forestry or City-wide tree planting program	Low	+

GHG Reduction Strategy	Strategy Focus/Area	Examples of Typical Policies and Actions	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Transportation			
Increase Zero Emission and/or Alternative Fuels	Construction/Landscape/Waste hauler Vehicles/Equipment	• Encourage use of biogas or electric equipment • Mandate conversion of diesel/gasoline construction and/or landscape equipment to biogas or electric	Very low Low
	Zero Emission/Alternative Fuel Infrastructure	• Identify and prepare city-wide biofuel and charging station siting plan • Install EV charging and other alternative fuel stations • Provide preferred parking for low emission vehicles in parking structures/street parking • Install roundabouts in appropriate areas	None Low/Medium Low
	Preferred Parking		Low/Medium
Reduce Fuel Use	Transportation Systems Management (TSM)		Low/Medium
	Transportation Demand Management (TDM)	• TDM outreach and education on options to reduce travel demand and optimize transportation modes • Identify employers to connect to vanpools, carpools through SANDAG iCommute program • Implement and incentivize carpools, vanpools • Increase telecommuting – work with SANDAG to implement • Adopt TDM ordinance specifying trip type goals for new developments	Very low Low Low/Medium Medium Low/Medium
	Transit systems	• Implement a local shuttle service system in the downtown area to reduce single occupancy vehicle use • Install transit-only lanes • Increase public transit routes and/or route frequency to increase mode share • Provide park and ride lots at transit stations and facilitate their use	Low Medium Low/Medium
VMT Reduction	Active Transportation (Walking)	• Develop pedestrian plan for more sidewalks • Update trails master plan to increase new connection points and improve accessibility • Pedestrian improvements (link walkable areas, safety features/shade/crosswalks etc) • Implement pedestrian-only and safe routes to school zones	None None Yes Yes
	Active Transportation (Biking)	• Adopt ordinance to require new developments and some retrofits to install bike racks and other supportive amenities like showers	Low Low Very low
	Complete Streets	• Design streets to provide for all users - cars, bicycles, walkers, and transit users	Low Yes

Filled out what I could relate to, left others blank.

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GHG Reduction Strategy	Strategy Focus/Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential	
GHG Emissions Category: Energy				
Zero Net Energy	Zero Net Energy (ZNE)	Implement an ordinance requiring new commercial buildings achieve ZNE standards	Medium	
Increase Energy Efficiency / Conserve Energy	Education	- Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation - Encourage energy efficiency improvements through rebates or incentives	Very Low Low	Yes
	Retrofits	- Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale - Adopt an energy benchmarking ordinance	Low/Medium Medium	Yes
	Smart Meters & Appliances	Policies to promote the installation of smart appliances that interface with smart meters at homes and business	Very Low	
	Municipal Retrofits	- Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems - Increase on site renewable energy generation	Low/Medium	
	Municipal on-site renewable energy City-wide renewable supply	Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030	High	Yes
Increase Renewable Energy	Behind the Meter Renewable Supply	Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees	Low	
	Water Heating	Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings	Low/Medium	

GHG Reduction Strategy	Strategy Focus Area	Example(s) of Typical	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Water & Wastewater			
Water Conservation	Increase Recycled, Reclaimed & Grey Water	• Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)	Low
	Outdoor Water Use	• Provide education on pool covers to pool owners • Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems • Update landscape water conservation ordinance including, for example, water budgets • Mandate installation of high efficiency fixtures at time of sale or renovation • Implement an ordinance requiring water use audits at time of sale or major renovation	Very low Low Low/Medium
	Indoor Water Use	• Install high efficiency fixtures at municipal facilities • Hydrozone landscapes at municipal facilities and parks • Implement water rate increases • Increase methane capture at wastewater treatment plants • Identify water utility efficiencies • Identify and address leaks	Low Very Low Low/Medium
	Municipal Water Use	• Implement water rate increases • Increase methane capture at wastewater treatment plants • Identify water utility efficiencies • Identify and address leaks	Low Very Low Low/Medium
	Rate Structures	• Implement water rate increases • Increase methane capture at wastewater treatment plants • Identify water utility efficiencies • Identify and address leaks	Low/Medium
Water Utility Improvements	Methane Capture	• Implement water rate increases • Increase methane capture at wastewater treatment plants • Identify water utility efficiencies • Identify and address leaks	Low/Medium
GHG Emissions Category: Solid Waste			
Solid Waste Reduction & Increased Recycling	Facility Improvements	• Identify water utility efficiencies • Identify and address leaks	Unknown Unknown
	Solid Waste Reduction & Increased Recycling	• Adopt a zero-waste landfill policy • Implement a composting ordinance • Implement a community garden ordinance	Medium Low Low
	Facility Improvements	• Identify water utility efficiencies • Identify and address leaks	Unknown Unknown
GHG Emissions Category: Carbon Sequestration			
Trees & Open Space	Easements	• Encourage conservation easements to retain vegetation that capture and store carbon as they grow	Low
	Shade Trees	• Implement an ordinance requiring new development and/or major renovation projects to plant shade trees • Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate	Low Low
	Urban Forest	• Implement an urban forestry or City-wide tree planting program	Low

Road Transportation

GHG Reduction Strategy	Strategy Areas	Examples of Typical Policies and Actions	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Transportation	Increase Zero Emission and/or Alternative Fuels	• Encourage use of biogas or electric equipment • Mandate conversion of diesel/gasoline construction and/or landscape equipment to biogas or electric • Identify and prepare city-wide biofuel and charging station siting plan • Install EV charging and other alternative fuel stations in parking structures/street parking • Install roundabouts in appropriate areas	Very low Low None Low/Medium Low
	Preferred Parking		Low/Medium
	Transportation Systems Management (TSM)		Very low
	Transportation Demand Management (TDM)	• TDM outreach and education on options to reduce travel demand an optimize transportation modes • Identify employers to connect to vanpools, carpools through SANDAG iCommute program • Implement and incentivize carpools, vanpools • Increase telecommuting – work with SANDAG to implement • Adopt TDM ordinance specifying trip type goals for new developments	Low Low/Medium Medium Low/Medium
VMT Reduction	Transit systems	• Implement a local shuttle service system in the downtown area to reduce single occupancy vehicle use • Install transit-only lanes • Increase public transit routes and/or route frequency to increase mode share • Provide park and ride lots at transit stations and facilitate their use	Low/Medium Low Medium Low/Medium
	Active Transportation (Walking)	• Develop pedestrian plan for more sidewalks • Update trails master plan to increase new connection points and improve accessibility	None None
	Active Transportation (Biking)	• Pedestrian improvements (link walkable areas, safety features/shade/crosswalks etc) • Implement pedestrian-only and safe routes to school zones • Adopt ordinance to require new developments and some retrofits to install bike racks and other supportive amenities like showers	Low Low Very low
	Complete Streets	• Design streets to provide for all users - cars, bicycles, walkers, and transit users	Low

GHG Reduction Strategy	Strategy Focus/Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential	
GHG Emissions Category: Energy				
Zero Net Energy	Zero Net Energy (ZNE)	Implement an ordinance requiring new commercial buildings achieve ZNE standards	Medium	
Increase Energy Efficiency / Conserve Energy	Education	- Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation - Encourage energy efficiency improvements through rebates or incentives	Very Low Low	
	Retrofits	- Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale - Adopt an energy benchmarking ordinance	Low/Medium Medium	
	Smart Meters & Appliances	Policies to promote the installation of smart appliances that interface with smart meters at homes and business	Very Low	
	Municipal Retrofits	Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems	Low/Medium	
	Municipal on-site renewable energy	Increase on site renewable energy generation	Low/Medium	
Increase Renewable Energy	City-wide renewable supply	Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030	High	
	Behind the Meter Renewable Supply	Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees	Low	Yes
	Water Heating	Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings	Low/Medium	Yes

Water, Waste and Carbon Sinks

GHG Reduction Strategy	Strategy Focus Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Water & Wastewater			
Increase Recycled, Reclaimed & Grey Water Conservation	Recycled, Reclaimed & Grey Water	• Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)	Low
	Outdoor Water Use	• Provide education on pool covers to pool owners • Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems • Update landscape water conservation ordinance including, for example, water budgets	Very low Low Low/Medium
	Indoor Water Use	• Mandate installation of high efficiency fixtures at time of sale or renovation • Implement an ordinance requiring water use audits at time of sale or major renovation	Low Low
	Municipal Water Use	• Install high efficiency fixtures at municipal facilities • Hydrozone landscapes at municipal facilities and parks	Low Very Low
Water Utility Improvements	Rate Structures	• Implement water rate increases	Low/Medium
	Methane Capture	• Increase methane capture at wastewater treatment plants	Low/Medium
	Facility Improvements	• Identify water utility efficiencies • Identify and address leaks	Unknown Unknown
GHG Emissions Category: Solid Waste			
Solid Waste Reduction & Increased Recycling	Solid Waste Reduction & Increased Recycling	• Adopt a zero-waste landfill policy	Medium
		• Implement a composting ordinance	Low
		• Implement a community garden ordinance	Low
GHG Emissions Category: Carbon Sequestration			
Trees & Open Space	Easements	• Encourage conservation easements to retain vegetation that capture and store carbon as they grow	Low
	Shade Trees	• Implement an ordinance requiring new development and/or major renovation projects to plant shade trees • Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate	Low Low
	Urban Forest	• Implement an urban forestry or City-wide tree planting program	Low

Road Transportation

GHG Reduction Strategy	Strategy Focus Area	Examples of Typical Policies and Actions	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Transportation	Increase Zero Emission and/or Alternative Fuels	- Encourage use of biogas or electric equipment - Mandate conversion of diesel/gasoline construction and/or landscape equipment to biogas or electric - Identify and prepare city-wide biofuel and charging station siting plan - Install EV charging and other alternative fuel stations in parking structures/street parking - Provide preferred parking for low emission vehicles in parking structures/street parking - Install roundabouts in appropriate areas	Very low Low None Low/Medium Low Low/Medium
	Reduce Fuel Use	- TDM outreach and education on options to reduce travel demand an optimize transportation modes - Identify employers to connect to vanpools, carpools through SANDAG iCommute program - Implement and incentivize carpools, vanpools - Increase telecommuting – work with SANDAG to implement - Adopt TDM ordinance specifying trip type goals for new developments - Implement a local shuttle service system in the downtown area to reduce single occupancy vehicle use	Very low Low Low/Medium Medium Low/Medium Low/Medium
	VMT Reduction	Transit systems	Low Medium Low/Medium
		Active Transportation (Walking)	None None
		Active Transportation (Biking)	Low Low
		Complete Streets	Very low Low

GHG Reduction Strategy	Strategy Focus Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential	
GHG Emissions Category: Energy				
Zero Net Energy	Zero Net Energy (ZNE)	• Implement an ordinance requiring new commercial buildings achieve ZNE standards	Medium	✓
Increase Energy Efficiency / Conserve Energy	Education	• Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation • Encourage energy efficiency improvements through rebates or incentives	Very Low Low	
	Retrofits	• Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale • Adopt an energy benchmarking ordinance	Low/Medium Medium	
	Smart Meters & Appliances	• Policies to promote the installation of smart appliances that interface with smart meters at homes and business	Very Low	
	Municipal Retrofits	• Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems	Low/Medium	
Increase Renewable Energy	Municipal on-site renewable energy	• Increase on site renewable energy generation	Low/Medium	
	City-wide renewable supply	• Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030	High	✓
	Behind the Meter Renewable Supply	• Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees	Low	
	Water Heating	• Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings	Low/Medium	

GHG Reduction Strategy	Strategy Focus Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential	
GHG Emissions Category: Water & Wastewater				
Increase Recycled, Reclaimed & Grey Water	Recycled, Reclaimed & Grey Water	• Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)	Low	
	Outdoor Water Use	• Provide education on pool covers to pool owners • Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems • Update landscape water conservation ordinance including, for example, water budgets	Very low Low Low/Medium	
		Indoor Water Use	• Mandate installation of high efficiency fixtures at time of sale or renovation • Implement an ordinance requiring water use audits at time of sale or major renovation	Low Low
			Municipal Water Use	• Install high efficiency fixtures at municipal facilities • Hydrozone landscapes at municipal facilities and parks
	Water Utility Improvements	Rate Structures	• Implement water rate increases	Low/Medium
Methane Capture		• Increase methane capture at wastewater treatment plants	Low/Medium	
Facility improvements		• Identify water utility efficiencies • Identify and address leaks	Unknown Unknown	
		GHG Emissions Category: Solid Waste		
Solid Waste Reduction & Increased Recycling	Solid Waste Reduction & Increased Recycling	• Adopt a zero-waste landfill policy	Medium	
		• Implement a composting ordinance	Low	
		• Implement a community garden ordinance	Low	
GHG Emissions Category: Carbon Sequestration				
Trees & Open Space	Easements	• Encourage conservation easements to retain vegetation that capture and store carbon as they grow	Low	
	Shade Trees	• Implement an ordinance requiring new development and/or major renovation projects to plant shade trees • Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate	Low Low	
	Urban Forest	• Implement an urban forestry or City-wide tree planting program	Low	

Road Transportation

GHG Reduction Strategy	Strategy Focus Area	Examples of Typical Policies and Actions	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Transportation	Increase Zero Emission and/or Alternative Fuels	- Encourage use of biogas or electric equipment - Mandate conversion of diesel/gasoline construction and/or landscape equipment to biogas or electric - Identify and prepare city-wide biofuel and charging station siting plan - Install EV charging and other alternative fuel stations - Provide preferred parking for low emission vehicles in parking structures/street parking - Install roundabouts in appropriate areas	Very low Low None Low/Medium Low Low/Medium
	Reduce Fuel Use	- TDM outreach and education on options to reduce travel demand and optimize transportation modes - Identify employers to connect to vanpools, carpools through SANDAG iCommute program - Implement and incentivize carpools, vanpools - Increase telecommuting – work with SANDAG to implement - Adopt TDM ordinance specifying trip type goals for new developments - Implement a local shuttle service system in the downtown area to reduce single occupancy vehicle use	Very low Low Low/Medium Low/Medium Low/Medium Low/Medium
	Transit systems	- Install transit-only lanes - Increase public transit routes and/or route frequency to increase mode share - Provide park and ride lots at transit stations and facilitate their use	Low Medium Low/Medium
	Active Transportation (Walking)	- Develop pedestrian plan for more sidewalks - Update trails master plan to increase new connection points and improve accessibility	None None
VMT Reduction	Active Transportation (Biking)	- Pedestrian improvements (link walkable areas, safety features/shade/crosswalks etc) - Implement pedestrian-only and safe routes to school zones - Adopt ordinance to require new developments and some retrofits to install bike racks and other supportive amenities like showers	Low Low Very low
	Complete Streets	Design streets to provide for all users - cars, bicycles, walkers, and transit users	Low

GHG Reduction Strategy	Strategy/Programs/Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Energy			
Zero Net Energy	Zero Net Energy (ZNE)	Implement an ordinance requiring new commercial buildings achieve ZNE standards	Medium
Increase Energy Efficiency / Conserve Energy	Education	- Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation - Encourage energy efficiency improvements through rebates or incentives	Very Low Low
	Retrofits	- Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale - Adopt an energy benchmarking ordinance - Policies to promote the installation of smart appliances that interface with smart meters at homes and business	Low/Medium Medium Very Low
	Smart Meters & Appliances		
	Municipal Retrofits	- Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems - Increase on site renewable energy generation	Low/Medium Low/Medium
Increase Renewable Energy	Municipal on-site renewable energy		Low/Medium
	City-wide renewable supply	Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030	High
	Behind the Meter Renewable Supply	Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees	Low
	Water Heating	Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings	Low/Medium

Water, Waste and Carbon Sinks

GHG Reduction Strategy	Strategy/Priority/Area	Examples of Typical	Estimated Long-Term GHG Reduction Potential
GHG Emissions Category: Water & Wastewater			
Increase Recycled, Reclaimed & Grey Water Conservation	Recycled, Reclaimed & Grey Water	Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)	Low
	Outdoor Water Use	- Provide education on pool covers to pool owners - Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems - Update landscape water conservation ordinance including, for example, water budgets	Very low Low Low/Medium
	Indoor Water Use	- Mandate installation of high efficiency fixtures at time of sale or renovation - Implement an ordinance requiring water use audits at time of sale or major renovation	Low Low
	Municipal Water Use	- Install high efficiency fixtures at municipal facilities - Hydrozone landscapes at municipal facilities and parks	Low Very Low
	Rate Structures	Implement water rate increases	Low/Medium
	Methane Capture	Increase methane capture at wastewater treatment plants	Low/Medium
Water Utility Improvements	Facility improvements	- Identify water utility efficiencies - Identify and address leaks	Unknown Unknown
GHG Emissions Category: Solid Waste			
Solid Waste Reduction & Increased Recycling	Solid Waste Reduction & Increased Recycling	Adopt a zero-waste landfill policy	Medium
		Implement a composting ordinance	Low
		Implement a community garden ordinance	Low
GHG Emissions Category: Carbon Sequestration			
Trees & Open Space	Easements	Encourage conservation easements to retain vegetation that capture and store carbon as they grow	Low
	Shade Trees	- Implement an ordinance requiring new development and/or major renovation projects to plant shade trees - Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate	Low Low
	Urban Forest	Implement an urban forestry or City-wide tree planting program	Low