

Stacy Weber

Road Transportation

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

## Building Energy

| GHG Reduction Strategy                                              | Strategy/Focus Area                | Examples of Typical                                                                                                                                                                                                                                           | Estimated Long-Term GHG Reduction Potential |
|---------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>GHG Emissions Category: Energy</b>                               |                                    |                                                                                                                                                                                                                                                               |                                             |
| Zero Net Energy<br><br>Increase Energy Efficiency / Conserve Energy | Zero Net Energy (ZNE)              | <ul style="list-style-type: none"> <li>Implement an ordinance requiring new commercial buildings achieve ZNE standards</li> </ul>                                                                                                                             | Medium<br><br>✓                             |
|                                                                     | Education                          | <ul style="list-style-type: none"> <li>Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation</li> <li>Encourage energy efficiency improvements through rebates or incentives</li> </ul> | Very Low<br>Low<br><br>✓                    |
|                                                                     | Retrofits                          | <ul style="list-style-type: none"> <li>Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale</li> <li>Adopt an energy benchmarking ordinance</li> </ul>                                 | Low/Medium<br>Medium<br><br>✓               |
|                                                                     | Smart Meters & Appliances          | <ul style="list-style-type: none"> <li>Policies to promote the installation of smart appliances that interface with smart meters at homes and business</li> </ul>                                                                                             | Very Low<br><br>Date of action not clear    |
|                                                                     | Municipal Retrofits                | <ul style="list-style-type: none"> <li>Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems</li> </ul>                                                          | Low/Medium                                  |
| Increase Renewable Energy                                           | Municipal on-site renewable energy | <ul style="list-style-type: none"> <li>Increase on site renewable energy generation</li> </ul>                                                                                                                                                                | Low/Medium                                  |
|                                                                     | City-wide renewable supply         | <ul style="list-style-type: none"> <li>Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030</li> </ul>                                                                                                                    | High<br><br>✓                               |
|                                                                     | Behind the Meter Renewable supply  | <ul style="list-style-type: none"> <li>Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees</li> </ul>                                                                           | Low                                         |
|                                                                     | Water Heating                      | <ul style="list-style-type: none"> <li>Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings</li> </ul>                                                                                   | Low/Medium<br><br>✓                         |

# Water, Waste and Carbon Sinks

| GHG Reduction Strategy                                | Strategy Focus Area                         | Examples of Typical                                                                                                                                                                                                                                                                                                                        | Estimated Long-Term GHG Reduction Potential    |   |
|-------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---|
| <b>GHG Emissions Category: Water &amp; Wastewater</b> |                                             |                                                                                                                                                                                                                                                                                                                                            |                                                |   |
| Water Conservation                                    | Increase Recycled, Reclaimed & Grey Water   | <ul style="list-style-type: none"> <li>Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)</li> </ul>                                                                                                                                                        | Low                                            | ✓ |
|                                                       | Outdoor Water Use                           | <ul style="list-style-type: none"> <li>Provide education on pool covers to pool owners</li> <li>Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems</li> <li>Update landscape water conservation ordinance including, for example, water budgets</li> </ul> | Very low<br>Low<br>Low/Medium                  | ✓ |
|                                                       | Indoor Water Use                            | <ul style="list-style-type: none"> <li>Mandate installation of high efficiency fixtures at time of sale or renovation</li> <li>Implement an ordinance requiring water use audits at time of sale or major renovation</li> </ul>                                                                                                            | Low<br>Low                                     | ✓ |
|                                                       | Municipal Water Use                         | <ul style="list-style-type: none"> <li>Install high efficiency fixtures at municipal facilities</li> <li>Hydrazone landscapes at municipal facilities and parks</li> <li>Implement water rate increases</li> </ul>                                                                                                                         | Low<br>Very Low<br>Low/Medium                  | ✓ |
|                                                       | Water Utility Improvements                  | <ul style="list-style-type: none"> <li>Increase methane capture at wastewater treatment plants</li> <li>Identify water utility efficiencies</li> <li>Identify and address leaks</li> </ul>                                                                                                                                                 | Low/Medium<br>Low/Medium<br>Unknown<br>Unknown |   |
| <b>GHG Emissions Category: Solid Waste</b>            |                                             |                                                                                                                                                                                                                                                                                                                                            |                                                |   |
| Solid Waste Reduction & Increased Recycling           | Solid Waste Reduction & Increased Recycling | <ul style="list-style-type: none"> <li>Adopt a zero-waste landfill policy</li> </ul>                                                                                                                                                                                                                                                       | Medium                                         | ✓ |
|                                                       |                                             | <ul style="list-style-type: none"> <li>Implement a composting ordinance</li> </ul>                                                                                                                                                                                                                                                         | Low                                            |   |
|                                                       |                                             | <ul style="list-style-type: none"> <li>Implement a community garden ordinance</li> </ul>                                                                                                                                                                                                                                                   | Low                                            |   |
| <b>GHG Emissions Category: Carbon Sequestration</b>   |                                             |                                                                                                                                                                                                                                                                                                                                            |                                                |   |
| Trees & Open Space                                    | Easements                                   | <ul style="list-style-type: none"> <li>Encourage conservation easements to retain vegetation that capture and store carbon as they grow</li> </ul>                                                                                                                                                                                         | Low                                            |   |
|                                                       | Shade Trees                                 | <ul style="list-style-type: none"> <li>Implement an ordinance requiring new development and/or major renovation projects to plant shade trees</li> <li>Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate</li> </ul>                                                       | Low<br>Low                                     |   |
|                                                       | Urban Forest                                | <ul style="list-style-type: none"> <li>Implement an urban forestry or City-wide tree planting program</li> </ul>                                                                                                                                                                                                                           | Low                                            |   |

# Road Transportation

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

# Building Energy

| GHG Reduction Strategy                       | Strategy/Trade Area                | Examples of Typical                                                                                                                                                                                                                                           | Estimated Long-Term GHG Reduction Potential |
|----------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>GHG Emissions Category: Energy</b>        |                                    |                                                                                                                                                                                                                                                               |                                             |
| Zero Net Energy                              | Zero Net Energy (ZNE)              | <ul style="list-style-type: none"> <li>Implement an ordinance requiring new commercial buildings achieve ZNE standards</li> </ul>                                                                                                                             | Medium                                      |
| Increase Energy Efficiency / Conserve Energy | Education                          | <ul style="list-style-type: none"> <li>Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation</li> <li>Encourage energy efficiency improvements through rebates or incentives</li> </ul> | Very Low<br>Low                             |
|                                              | Retrofits                          | <ul style="list-style-type: none"> <li>Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale</li> <li>Adopt an energy benchmarking ordinance</li> </ul>                                 | Low/Medium<br>Medium                        |
|                                              | Smart Meters & Appliances          | <ul style="list-style-type: none"> <li>Policies to promote the installation of smart appliances that interface with smart meters at homes and business</li> </ul>                                                                                             | Very Low                                    |
|                                              | Municipal Retrofits                | <ul style="list-style-type: none"> <li>Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems</li> </ul>                                                          | Low/Medium                                  |
| Increase Renewable Energy                    | Municipal on-site renewable energy | <ul style="list-style-type: none"> <li>Increase on site renewable energy generation</li> </ul>                                                                                                                                                                | Low/Medium                                  |
|                                              | City-wide renewable supply         | <ul style="list-style-type: none"> <li>Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030</li> </ul>                                                                                                                    | High                                        |
|                                              | Behind the Meter Renewable Supply  | <ul style="list-style-type: none"> <li>Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees</li> </ul>                                                                           | Low                                         |
|                                              | Water Heating                      | <ul style="list-style-type: none"> <li>Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings</li> </ul>                                                                                   | 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            | <ul style="list-style-type: none"><li>• Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)</li></ul>                                                                                                                                                          | Low                                                                                                                                                                                                                              |
|                                              | Outdoor Water Use                           | <ul style="list-style-type: none"><li>• Provide education on pool covers to pool owners</li><li>• Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems</li><li>• Update landscape water conservation ordinance including, for example, water budgets</li></ul> | Very low<br>Low                                                                                                                                                                                                                  |
|                                              |                                             | Indoor Water Use                                                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"><li>• Mandate installation of high efficiency fixtures at time of sale or renovation</li><li>• Implement an ordinance requiring water use audits at time of sale or major renovation</li></ul> |
|                                              | Municipal Water Use                         | <ul style="list-style-type: none"><li>• Install high efficiency fixtures at municipal facilities</li><li>• Hydrozone landscapes at municipal facilities and parks</li></ul>                                                                                                                                                                  | Low                                                                                                                                                                                                                              |
|                                              | Rate Structures                             | <ul style="list-style-type: none"><li>• Implement water rate increases</li></ul>                                                                                                                                                                                                                                                             | Very Low                                                                                                                                                                                                                         |
|                                              | Methane Capture                             | <ul style="list-style-type: none"><li>• Increase methane capture at wastewater treatment plants</li></ul>                                                                                                                                                                                                                                    | Low/Medium                                                                                                                                                                                                                       |
| Water Utility Improvements                   | Facility improvements                       | <ul style="list-style-type: none"><li>• Identify water utility efficiencies</li><li>• Identify and address leaks</li></ul>                                                                                                                                                                                                                   | Low/Medium                                                                                                                                                                                                                       |
|                                              |                                             |                                                                                                                                                                                                                                                                                                                                              | Unknown<br>Unknown                                                                                                                                                                                                               |
| GHG Emissions Category: Solid Waste          |                                             |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                  |
| Solid Waste Reduction & Increased Recycling  | Solid Waste Reduction & Increased Recycling | <ul style="list-style-type: none"><li>• Adopt a zero-waste landfill policy</li></ul>                                                                                                                                                                                                                                                         | Medium                                                                                                                                                                                                                           |
|                                              |                                             | <ul style="list-style-type: none"><li>• Implement a composting ordinance</li></ul>                                                                                                                                                                                                                                                           | Low                                                                                                                                                                                                                              |
|                                              |                                             | <ul style="list-style-type: none"><li>• Implement a community garden ordinance</li></ul>                                                                                                                                                                                                                                                     | Low                                                                                                                                                                                                                              |
| GHG Emissions Category: Carbon Sequestration |                                             |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                  |
| Trees & Open Space                           | Easements                                   | <ul style="list-style-type: none"><li>• Encourage conservation easements to retain vegetation that capture and store carbon as they grow</li></ul>                                                                                                                                                                                           | Low                                                                                                                                                                                                                              |
|                                              | Shade Trees                                 | <ul style="list-style-type: none"><li>• Implement an ordinance requiring new development and/or major renovation projects to plant shade trees</li><li>• Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate</li></ul>                                                        | Low<br>Low                                                                                                                                                                                                                       |
|                                              | Urban Forest                                | <ul style="list-style-type: none"><li>• Implement an urban forestry or City-wide tree planting program</li></ul>                                                                                                                                                                                                                             | 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 | Construction/Landscape/Waste hauler Vehicles/Equipment | <ul style="list-style-type: none"> <li>Encourage use of biogas or electric equipment</li> <li>Mandate conversion of diesel/gasoline construction and/or landscape equipment to biogas or electric</li> <li>Identify and prepare city-wide biofuel and charging station siting plan</li> <li>Install EV charging and other alternative fuel stations</li> </ul>                                                                                    | Very low                                    |
|                                        | Zero Emission/Alternative Fuel Infrastructure          | <ul style="list-style-type: none"> <li>Provide preferred parking for low emission vehicles in parking structures/street parking</li> <li>Install roundabouts in appropriate areas</li> </ul>                                                                                                                                                                                                                                                      | Low                                         |
|                                        | Preferred Parking                                      | <ul style="list-style-type: none"> <li>TDM outreach and education on options to reduce travel demand and optimize transportation modes</li> <li>Identify employers to connect to vanpools, carpools through SANDAG iCommute program</li> <li>Implement and incentivize carpools, vanpools</li> <li>Increase telecommuting – work with SANDAG to implement</li> <li>Adopt TDM ordinance specifying trip type goals for new developments</li> </ul> | Low/Medium                                  |
|                                        | Transportation Systems Management (TSM)                | <ul style="list-style-type: none"> <li>Implement a local shuttle service system in the downtown area to reduce single occupancy vehicle use</li> <li>Install transit-only lanes</li> <li>Increase public transit routes and/or route frequency to increase mode share</li> <li>Provide park and ride lots at transit stations and facilitate their use</li> </ul>                                                                                 | Low                                         |
| VMT Reduction                          | Transportation Demand Management (TDM)                 | <ul style="list-style-type: none"> <li>Develop pedestrian plan for more sidewalks</li> <li>Update trails master plan to increase new connection points and improve accessibility</li> <li>Pedestrian improvements (link walkable areas, safety features/shade/crosswalks etc)</li> <li>Implement pedestrian-only and safe routes to school zones</li> </ul>                                                                                       | None                                        |
|                                        | Transit systems                                        | <ul style="list-style-type: none"> <li>Adopt ordinance to require new developments and some retrofits to install bike racks and other supportive amenities like showers</li> <li>Design streets to provide for all users - cars, bicycles, walkers, and transit users</li> </ul>                                                                                                                                                                  | None                                        |
|                                        | Active Transportation (Walking)                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Low                                         |
|                                        | Active Transportation (Biking)                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Low                                         |
|                                        | Complete Streets                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Very low                                    |

| GHG Reduction Strategy                       | Strategy Focus Area                | Examples of Typical                                                                                                                                                                                                                                           | Estimated Long-Term GHG Reduction Potential |
|----------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>GHG Emissions Category: Energy</b>        |                                    |                                                                                                                                                                                                                                                               |                                             |
| Zero Net Energy                              | Zero Net Energy (ZNE)              | <ul style="list-style-type: none"> <li>Implement an ordinance requiring new commercial buildings achieve ZNE standards</li> </ul>                                                                                                                             | Medium                                      |
| Increase Energy Efficiency / Conserve Energy | Education                          | <ul style="list-style-type: none"> <li>Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation</li> <li>Encourage energy efficiency improvements through rebates or incentives</li> </ul> | Very Low<br>Low                             |
|                                              | Retrofits                          | <ul style="list-style-type: none"> <li>Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale</li> <li>Adopt an energy benchmarking ordinance</li> </ul>                                 | Low/Medium<br>Medium                        |
|                                              | Smart Meters & Appliances          | <ul style="list-style-type: none"> <li>Policies to promote the installation of smart appliances that interface with smart meters at homes and business</li> </ul>                                                                                             | Very Low                                    |
|                                              | Municipal Retrofits                | <ul style="list-style-type: none"> <li>Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems</li> </ul>                                                          | Low/Medium                                  |
| Increase Renewable Energy                    | Municipal on-site renewable energy | <ul style="list-style-type: none"> <li>Increase on site renewable energy generation</li> </ul>                                                                                                                                                                | Low/Medium                                  |
|                                              | City-wide renewable supply         | <ul style="list-style-type: none"> <li>Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030</li> </ul>                                                                                                                    | High                                        |
|                                              | Behind the Meter Renewable Supply  | <ul style="list-style-type: none"> <li>Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees</li> </ul>                                                                           | Low                                         |
|                                              | Water Heating                      | <ul style="list-style-type: none"> <li>Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings</li> </ul>                                                                                   | Low/Medium                                  |

# Water, Waste and Carbon Sinks

| GHG Reduction Strategy                                                                                        | Strategy/Topic/Area                                                                                                                    | Examples of Typical                                                                                                                                                                                                                                                                                                                                                                                  | Estimated Long-Term GHG Reduction Potential |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| GHG Emissions Category: Water & Wastewater<br>Increase Recycled, Reclaimed & Grey Water<br>Water Conservation | Recycled, Reclaimed & Grey Water                                                                                                       | <ul style="list-style-type: none"> <li>• Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)</li> </ul>                                                                                                                                                                                                                | Low                                         |
|                                                                                                               | Outdoor Water Use                                                                                                                      | <ul style="list-style-type: none"> <li>• Provide education on pool covers to pool owners</li> <li>• Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems</li> <li>• Update landscape water conservation ordinance including, for example, water budgets</li> </ul>                                                     | Very low<br>Low<br>Low/Medium               |
|                                                                                                               | Indoor Water Use                                                                                                                       | <ul style="list-style-type: none"> <li>• Mandate installation of high efficiency fixtures at time of sale or renovation</li> <li>• Implement an ordinance requiring water use audits at time of sale or major renovation</li> </ul>                                                                                                                                                                  | Low<br>Low                                  |
|                                                                                                               | Municipal Water Use                                                                                                                    | <ul style="list-style-type: none"> <li>• Install high efficiency fixtures at municipal facilities</li> <li>• Hydrozone landscapes at municipal facilities and parks</li> <li>• Implement water rate increases</li> </ul>                                                                                                                                                                             | Low<br>Very Low<br>Low/Medium               |
|                                                                                                               | Water Utility Improvements                                                                                                             | <ul style="list-style-type: none"> <li>• Increase methane capture at wastewater treatment plants</li> <li>• Identify water utility efficiencies</li> <li>• Identify and address leaks</li> </ul>                                                                                                                                                                                                     | Low/Medium<br>Unknown<br>Unknown            |
| GHG Emissions Category: Solid Waste<br>Solid Waste Reduction & Increased Recycling<br>Increased Recycling     | Solid Waste Reduction & Increased Recycling                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                      | Medium                                      |
|                                                                                                               | <ul style="list-style-type: none"> <li>• Adopt a zero-waste landfill policy</li> </ul>                                                 |                                                                                                                                                                                                                                                                                                                                                                                                      | Low                                         |
|                                                                                                               | <ul style="list-style-type: none"> <li>• Implement a composting ordinance</li> <li>• Implement a community garden ordinance</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                      | Low<br>Low                                  |
| GHG Emissions Category: Carbon Sequestration<br>Trees & Open Space                                            | Easements                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                      | Low                                         |
|                                                                                                               | Shade Trees                                                                                                                            | <ul style="list-style-type: none"> <li>• Encourage conservation easements to retain vegetation that capture and store carbon as they grow</li> <li>• Implement an ordinance requiring new development and/or major renovation projects to plant shade trees</li> <li>• Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate</li> </ul> | Low<br>Low<br>Low                           |
|                                                                                                               | Urban Forest                                                                                                                           | <ul style="list-style-type: none"> <li>• Implement an urban forestry or City-wide tree planting program</li> </ul>                                                                                                                                                                                                                                                                                   | 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<br>Increase Zero Emission and/or Alternative Fuels | Construction/Landscape/Waste hauler Vehicles/Equipment                            | <ul style="list-style-type: none"> <li>Encourage use of biogas or electric equipment</li> <li>Mandate conversion of diesel/gasoline construction and/or landscape equipment to biogas or electric</li> </ul>                                                                                                                                                                                                                                     | Very low<br>Low                                       | ✓           |
|                                                                                           | Zero Emission/Alternative Fuel Infrastructure                                     | <ul style="list-style-type: none"> <li>Identify and prepare city-wide biofuel and charging station siting plan</li> <li>Install EV charging and other alternative fuel stations</li> </ul>                                                                                                                                                                                                                                                       | None<br>Low/Medium                                    | ✗           |
|                                                                                           | Preferred Parking                                                                 | <ul style="list-style-type: none"> <li>Provide preferred parking for low emission vehicles in parking structures/street parking</li> <li>Install roundabouts in appropriate areas</li> </ul>                                                                                                                                                                                                                                                     | Low<br>Low/Medium                                     | ✗           |
|                                                                                           | Transportation Systems Management (TSM)<br>Transportation Demand Management (TDM) | <ul style="list-style-type: none"> <li>TDM outreach and education on options to reduce travel demand an optimize transportation modes</li> <li>Identify employers to connect to vanpools, carpools through SANDAG iCommute program</li> <li>Implement and incentivize carpools, vanpools</li> <li>Increase telecommuting – work with SANDAG to implement</li> <li>Adopt TDM ordinance specifying trip type goals for new developments</li> </ul> | Very low<br>Low<br>Low/Medium<br>Medium<br>Low/Medium | ✓           |
| VMT Reduction                                                                             | Transit systems                                                                   | <ul style="list-style-type: none"> <li>Implement a local shuttle service system in the downtown area to reduce single occupancy vehicle use</li> <li>Install transit-only lanes</li> <li>Increase public transit routes and/or route frequency to increase mode share</li> <li>Provide park and ride lots at transit stations and facilitate their use</li> </ul>                                                                                | Low/Medium<br>Low<br>Medium<br>Low/Medium             | ✓<br>✗<br>✗ |
|                                                                                           | Active Transportation (Walking)                                                   | <ul style="list-style-type: none"> <li>Develop pedestrian plan for more sidewalks</li> <li>Update trails master plan to increase new connection points and improve accessibility</li> </ul>                                                                                                                                                                                                                                                      | None<br>None                                          | ✗           |
|                                                                                           | Active Transportation (Biking)                                                    | <ul style="list-style-type: none"> <li>Pedestrian improvements (link walkable areas, safety features/shade/crosswalks etc)</li> <li>Implement pedestrian-only and safe routes to school zones</li> <li>Adopt ordinance to require new developments and some retrofits to install bike racks and other supportive amenities like showers</li> </ul>                                                                                               | Low<br>Low                                            | ✓           |
|                                                                                           | Complete Streets                                                                  | <ul style="list-style-type: none"> <li>Design streets to provide for all users - cars, bicycles, walkers, and transit users</li> </ul>                                                                                                                                                                                                                                                                                                           | Very low<br>Low                                       | ✗<br>✗      |

| GHG Reduction Strategy                       | Strategy/Focus Area                | Examples of Typical                                                                                                                                                                                                                                           | Estimated Long-Term GHG Reduction Potential |
|----------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>GHG Emissions Category: Energy</b>        |                                    |                                                                                                                                                                                                                                                               |                                             |
| Zero Net Energy                              | Zero Net Energy (ZNE)              | <ul style="list-style-type: none"> <li>Implement an ordinance requiring new commercial buildings achieve ZNE standards</li> </ul>                                                                                                                             | Medium                                      |
| Increase Energy Efficiency / Conserve Energy | Education                          | <ul style="list-style-type: none"> <li>Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation</li> <li>Encourage energy efficiency improvements through rebates or incentives</li> </ul> | Very Low<br>Low                             |
|                                              | Retrofits                          | <ul style="list-style-type: none"> <li>Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale</li> <li>Adopt an energy benchmarking ordinance</li> </ul>                                 | Low/Medium<br>Medium                        |
|                                              | Smart Meters & Appliances          | <ul style="list-style-type: none"> <li>Policies to promote the installation of smart appliances that interface with smart meters at homes and business</li> </ul>                                                                                             | Very Low                                    |
|                                              | Municipal Retrofits                | <ul style="list-style-type: none"> <li>Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems</li> <li>Increase on site renewable energy generation</li> </ul>    | Low/Medium                                  |
| Increase Renewable Energy                    | Municipal on-site renewable energy | <ul style="list-style-type: none"> <li>Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030</li> </ul>                                                                                                                    | Low/Medium                                  |
|                                              | City-wide renewable supply         | <ul style="list-style-type: none"> <li>Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees</li> </ul>                                                                           | High                                        |
|                                              | Behind the Meter Renewable Supply  | <ul style="list-style-type: none"> <li>Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees</li> </ul>                                                                           | Low                                         |
|                                              | Water Heating                      | <ul style="list-style-type: none"> <li>Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings</li> </ul>                                                                                   | 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            | <ul style="list-style-type: none"><li>Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)</li></ul>                                                                                                                                                      | Low                                                                                                                                                                                                                          |
|                                              | Outdoor Water Use                           | <ul style="list-style-type: none"><li>Provide education on pool covers to pool owners</li><li>Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems</li><li>Update landscape water conservation ordinance including, for example, water budgets</li></ul> | Very low<br>Low<br>Low/Medium                                                                                                                                                                                                |
|                                              |                                             | Indoor Water Use                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"><li>Mandate installation of high efficiency fixtures at time of sale or renovation</li><li>Implement an ordinance requiring water use audits at time of sale or major renovation</li></ul> |
|                                              | Municipal Water Use                         | <ul style="list-style-type: none"><li>Install high efficiency fixtures at municipal facilities</li><li>Hydrozone landscapes at municipal facilities and parks</li><li>Implement water rate increases</li></ul>                                                                                                                         | Low<br>Very Low<br>Low/Medium                                                                                                                                                                                                |
|                                              | Rate Structures                             | <ul style="list-style-type: none"><li>Increase methane capture at wastewater treatment plants</li></ul>                                                                                                                                                                                                                                | Low/Medium                                                                                                                                                                                                                   |
|                                              | Methane Capture                             | <ul style="list-style-type: none"><li>Identify water utility efficiencies</li><li>Identify and address leaks</li></ul>                                                                                                                                                                                                                 | Low/Medium                                                                                                                                                                                                                   |
| Water Utility Improvements                   | Facility improvements                       |                                                                                                                                                                                                                                                                                                                                        | Unknown<br>Unknown                                                                                                                                                                                                           |
|                                              |                                             |                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                              |
| GHG Emissions Category: Solid Waste          |                                             |                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                              |
| Solid Waste Reduction & Increased Recycling  | Solid Waste Reduction & Increased Recycling | <ul style="list-style-type: none"><li>Adopt a zero-waste landfill policy</li></ul>                                                                                                                                                                                                                                                     | Medium                                                                                                                                                                                                                       |
|                                              |                                             | <ul style="list-style-type: none"><li>Implement a composting ordinance</li></ul>                                                                                                                                                                                                                                                       | Low                                                                                                                                                                                                                          |
|                                              |                                             | <ul style="list-style-type: none"><li>Implement a community garden ordinance</li></ul>                                                                                                                                                                                                                                                 | Low                                                                                                                                                                                                                          |
| GHG Emissions Category: Carbon Sequestration |                                             |                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                              |
| Trees & Open Space                           | Easements                                   | <ul style="list-style-type: none"><li>Encourage conservation easements to retain vegetation that capture and store carbon as they grow</li></ul>                                                                                                                                                                                       | Low                                                                                                                                                                                                                          |
|                                              | Shade Trees                                 | <ul style="list-style-type: none"><li>Implement an ordinance requiring new development and/or major renovation projects to plant shade trees</li><li>Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate</li></ul>                                                      | Low<br>Low<br>Low                                                                                                                                                                                                            |
|                                              | Urban Forest                                | <ul style="list-style-type: none"><li>Implement an urban forestry or City-wide tree planting program</li></ul>                                                                                                                                                                                                                         | Low                                                                                                                                                                                                                          |

# Road Transportation

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

| GHG Reduction Strategy                       | Strategy/Focus Area                | Examples of Typical                                                                                                                                                                                                                                           | Estimated Long-Term GHG Reduction Potential |   |
|----------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---|
| <b>GHG Emissions Category: Energy</b>        |                                    |                                                                                                                                                                                                                                                               |                                             |   |
| Zero Net Energy                              | Zero Net Energy (ZNE)              | <ul style="list-style-type: none"> <li>Implement an ordinance requiring new commercial buildings achieve ZNE standards</li> </ul>                                                                                                                             | Medium                                      | ✓ |
| Increase Energy Efficiency / Conserve Energy | Education                          | <ul style="list-style-type: none"> <li>Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation</li> <li>Encourage energy efficiency improvements through rebates or incentives</li> </ul> | Very Low<br>Low                             |   |
|                                              | Retrofits                          | <ul style="list-style-type: none"> <li>Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale</li> <li>Adopt an energy benchmarking ordinance</li> </ul>                                 | Low/Medium<br>Medium                        |   |
|                                              | Smart Meters & Appliances          | <ul style="list-style-type: none"> <li>Policies to promote the installation of smart appliances that interface with smart meters at homes and business</li> </ul>                                                                                             | Very Low                                    |   |
|                                              | Municipal Retrofits                | <ul style="list-style-type: none"> <li>Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems</li> </ul>                                                          | Low/Medium                                  | ✓ |
| Increase Renewable Energy                    | Municipal on-site renewable energy | <ul style="list-style-type: none"> <li>Increase on site renewable energy generation</li> </ul>                                                                                                                                                                | Low/Medium                                  | ✓ |
|                                              | City-wide renewable supply         | <ul style="list-style-type: none"> <li>Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030</li> </ul>                                                                                                                    | High                                        | ✓ |
|                                              | Behind the Meter Renewable Supply  | <ul style="list-style-type: none"> <li>Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees</li> </ul>                                                                           | Low                                         |   |
|                                              | Water Heating                      | <ul style="list-style-type: none"> <li>Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings</li> </ul>                                                                                   | Low/Medium                                  |   |

# Water, Waste and Carbon Sinks

| GHG Reduction Strategy                                | Strategy/Focus Area                       | Examples of Typical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Estimated Long-Term GHG Reduction Potential                              |   |
|-------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---|
| <b>GHG Emissions Category: Water &amp; Wastewater</b> |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                          |   |
| Water Conservation                                    | Increase Recycled, Reclaimed & Grey Water | <ul style="list-style-type: none"> <li>• Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)</li> </ul>                                                                                                                                                                                                                                                                                                                                                       | Low                                                                      | ✓ |
|                                                       | Outdoor Water Use                         | <ul style="list-style-type: none"> <li>• Provide education on pool covers to pool owners</li> <li>• Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems</li> <li>• Update landscape water conservation ordinance including, for example, water budgets</li> <li>• Mandate installation of high efficiency fixtures at time of sale or renovation</li> <li>• Implement an ordinance requiring water use audits at time of sale or major renovation</li> </ul> | Very low<br>Low<br>Low/Medium                                            | ✓ |
|                                                       | Indoor Water Use                          | <ul style="list-style-type: none"> <li>• Install high efficiency fixtures at municipal facilities</li> <li>• Hydrozone landscapes at municipal facilities and parks</li> <li>• Implement water rate increases</li> <li>• Increase methane capture at wastewater treatment plants</li> <li>• Identify water utility efficiencies</li> <li>• Identify and address leaks</li> </ul>                                                                                                                                                            | Low<br>Low<br>Very Low<br>Low/Medium<br>Low/Medium<br>Unknown<br>Unknown |   |
|                                                       | Municipal Water Use                       | <ul style="list-style-type: none"> <li>• Adopt a zero-waste landfill policy</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Medium                                                                   |   |
|                                                       | Rate Structures                           | <ul style="list-style-type: none"> <li>• Implement a composting ordinance</li> <li>• Implement a community garden ordinance</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                      | Low<br>Low                                                               |   |
| <b>GHG Emissions Category: Solid Waste</b>            |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                          |   |
| Water Utility Improvements                            | Methane Capture                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                          | ✓ |
|                                                       | Facility Improvements                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                          |   |
| <b>GHG Emissions Category: Carbon Sequestration</b>   |                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                          |   |
| Trees & Open Space                                    | Easements                                 | <ul style="list-style-type: none"> <li>• Encourage conservation easements to retain vegetation that capture and store carbon as they grow</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                        | Low                                                                      |   |
|                                                       | Shade Trees                               | <ul style="list-style-type: none"> <li>• Implement an ordinance requiring new development and/or major renovation projects to plant shade trees</li> <li>• Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate</li> </ul>                                                                                                                                                                                                                                                    | Low<br>Low                                                               |   |
|                                                       | Urban Forest                              | <ul style="list-style-type: none"> <li>• Implement an urban forestry or City-wide tree planting program</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                          | 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 | <ul style="list-style-type: none"> <li>Encourage use of biogas or electric equipment</li> <li>Mandate conversion of diesel/gasoline construction and/or landscape equipment to biogas or electric</li> <li>Identify and prepare city-wide biofuel and charging station siting plan</li> <li>Install EV charging and other alternative fuel stations</li> <li>Provide preferred parking for low emission vehicles in parking structures/street parking</li> <li>Install roundabouts in appropriate areas</li> </ul> | <p>Very low</p> <p>Low</p> <p>None</p> <p>Low/Medium</p> <p>Low</p> <p>Low/Medium</p> |
|                                        | Zero Emission/Alternative Fuel Infrastructure   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                       |
|                                        | Preferred Parking                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                       |
|                                        | Transportation Systems Management (TSM)         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                       |
| Reduce Fuel Use                        | Transportation Demand Management (TDM)          | <ul style="list-style-type: none"> <li>TDM outreach and education on options to reduce travel demand an optimize transportation modes</li> <li>Identify employers to connect to vanpools, carpools through SANDAG iCommute program</li> <li>Implement and incentivize carpools, vanpools</li> <li>Increase telecommuting – work with SANDAG to implement</li> <li>Adopt TDM ordinance specifying trip type goals for new developments</li> </ul>                                                                   | <p>Very low</p> <p>Low</p> <p>Low/Medium Medium</p> <p>Low/Medium</p>                 |
|                                        | Transit systems                                 | <ul style="list-style-type: none"> <li>Implement a local shuttle service system in the downtown area to reduce single occupancy vehicle use</li> <li>Install transit-only lanes</li> <li>Increase public transit routes and/or route frequency to increase mode share</li> <li>Provide park and ride lots at transit stations and facilitate their use</li> </ul>                                                                                                                                                  | <p>Low/Medium</p> <p>Low</p> <p>Medium</p> <p>Low/Medium</p>                          |
|                                        | Active Transportation (Walking)                 | <ul style="list-style-type: none"> <li>Develop pedestrian plan for more sidewalks</li> <li>Update trails master plan to increase new connection points and improve accessibility</li> </ul>                                                                                                                                                                                                                                                                                                                        | <p>None</p> <p>None</p>                                                               |
|                                        | Active Transportation (Biking)                  | <ul style="list-style-type: none"> <li>Pedestrian improvements (link walkable areas, safety features/shade/crosswalks etc)</li> <li>Implement pedestrian-only and safe routes to school zones</li> </ul>                                                                                                                                                                                                                                                                                                           | <p>Low</p> <p>Low</p>                                                                 |
| VMT Reduction                          | Complete Streets                                | <ul style="list-style-type: none"> <li>Adopt ordinance to require new developments and some retrofits to install bike racks and other supportive amenities like showers</li> <li>Design streets to provide for all users - cars, bicycles, walkers, and transit users</li> </ul>                                                                                                                                                                                                                                   | <p>Very low</p> <p>Low</p>                                                            |

| GHG Reduction Strategy                       | Strategy (Focus Area)              | Examples of Typical                                                                                                                                                                                                                                           | Estimated Long-Term GHG Reduction Potential |
|----------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>GHG Emissions Category: Energy</b>        |                                    |                                                                                                                                                                                                                                                               |                                             |
| Zero Net Energy                              | Zero Net Energy (ZNE)              | <ul style="list-style-type: none"> <li>Implement an ordinance requiring new commercial buildings achieve ZNE standards</li> </ul>                                                                                                                             | Medium                                      |
| Increase Energy Efficiency / Conserve Energy | Education                          | <ul style="list-style-type: none"> <li>Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation</li> <li>Encourage energy efficiency improvements through rebates or incentives</li> </ul> | Very Low<br>Low                             |
|                                              | Retrofits                          | <ul style="list-style-type: none"> <li>Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale</li> <li>Adopt an energy benchmarking ordinance</li> </ul>                                 | Low/Medium<br>Medium                        |
|                                              | Smart Meters & Appliances          | <ul style="list-style-type: none"> <li>Policies to promote the installation of smart appliances that interface with smart meters at homes and business</li> </ul>                                                                                             | Very Low                                    |
|                                              | Municipal Retrofits                | <ul style="list-style-type: none"> <li>Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems</li> </ul>                                                          | Low/Medium                                  |
| Increase Renewable Energy                    | Municipal on-site renewable energy | <ul style="list-style-type: none"> <li>Increase on site renewable energy generation</li> </ul>                                                                                                                                                                | Low/Medium                                  |
|                                              | City-wide renewable supply         | <ul style="list-style-type: none"> <li>Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030</li> </ul>                                                                                                                    | High                                        |
|                                              | Behind the Meter Renewable Supply  | <ul style="list-style-type: none"> <li>Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees</li> </ul>                                                                           | Low                                         |
|                                              | Water Heating                      | <ul style="list-style-type: none"> <li>Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings</li> </ul>                                                                                   | 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<br>Increase Recycled, Reclaimed & Grey Water<br>Water Conservation | Recycled, Reclaimed & Grey Water            | <ul style="list-style-type: none"> <li>• Adopt an ordinance to facilitate greywater systems (e.g., pre-plumbing requirements for new residential and commercial buildings)</li> <li>• Provide education on pool covers to pool owners</li> <li>• Adopt an ordinance allowing weather-based irrigation systems and encourage installation of rain barrels and rain catchment systems</li> <li>• Update landscape water conservation ordinance including, for example, water budgets</li> </ul> | Low                                         |
|                                                                                                               | Outdoor Water Use                           | <ul style="list-style-type: none"> <li>• Mandate installation of high efficiency fixtures at time of sale or renovation</li> <li>• Implement an ordinance requiring water use audits at time of sale or major renovation</li> </ul>                                                                                                                                                                                                                                                           | Very low<br>Low                             |
|                                                                                                               | Indoor Water Use                            | <ul style="list-style-type: none"> <li>• Install high efficiency fixtures at municipal facilities</li> <li>• Hydrozone landscapes at municipal facilities and parks</li> <li>• Implement water rate increases</li> </ul>                                                                                                                                                                                                                                                                      | Low/Medium                                  |
|                                                                                                               | Municipal Water Use                         | <ul style="list-style-type: none"> <li>• Increase methane capture at wastewater treatment plants</li> <li>• Identify water utility efficiencies</li> <li>• Identify and address leaks</li> </ul>                                                                                                                                                                                                                                                                                              | Low/Medium                                  |
|                                                                                                               | Rate Structures                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unknown                                     |
| Water Utility Improvements                                                                                    | Methane Capture                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unknown                                     |
|                                                                                                               | Facility Improvements                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unknown                                     |
|                                                                                                               |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unknown                                     |
| GHG Emissions Category: Solid Waste                                                                           |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |
| Solid Waste Reduction & Increased Recycling                                                                   | Solid Waste Reduction & Increased Recycling | <ul style="list-style-type: none"> <li>• Adopt a zero-waste landfill policy</li> <li>• Implement a composting ordinance</li> <li>• Implement a community garden ordinance</li> </ul>                                                                                                                                                                                                                                                                                                          | Medium<br>Low<br>Low                        |
|                                                                                                               |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |
|                                                                                                               |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |
| GHG Emissions Category: Carbon Sequestration                                                                  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |
| Trees & Open Space                                                                                            | Easements                                   | <ul style="list-style-type: none"> <li>• Encourage conservation easements to retain vegetation that capture and store carbon as they grow</li> <li>• Implement an ordinance requiring new development and/or major renovation projects to plant shade trees</li> <li>• Update City street tree guidelines and/or landscaping ordinances to include planting shade trees where appropriate</li> </ul>                                                                                          | Low<br>Low<br>Low                           |
|                                                                                                               | Shade Trees                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |
|                                                                                                               | Urban Forest                                | <ul style="list-style-type: none"> <li>• Implement an urban forestry or City-wide tree planting program</li> </ul>                                                                                                                                                                                                                                                                                                                                                                            | Low                                         |

# Road Transportation

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

| GHG Reduction Strategy                       | Strategy/Focus Area                | Examples of Typical                                                                                                                                                                                                                                           | Estimated Long-Term GHG Reduction Potential |
|----------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b>GHG Emissions Category: Energy</b>        |                                    |                                                                                                                                                                                                                                                               |                                             |
| Zero Net Energy                              | Zero Net Energy (ZNE)              | <ul style="list-style-type: none"> <li>Implement an ordinance requiring new commercial buildings achieve ZNE standards</li> </ul>                                                                                                                             | Medium                                      |
| Increase Energy Efficiency / Conserve Energy | Education                          | <ul style="list-style-type: none"> <li>Encourage energy audits in existing homes (single- and multi-family) and commercial buildings upon sale or major renovation</li> <li>Encourage energy efficiency improvements through rebates or incentives</li> </ul> | Very Low<br>Low                             |
|                                              | Retrofits                          | <ul style="list-style-type: none"> <li>Implement an ordinance requiring energy audits for residential and commercial buildings at time of major renovation or sale</li> <li>Adopt an energy benchmarking ordinance</li> </ul>                                 | Low/Medium<br>Medium                        |
|                                              | Smart Meters & Appliances          | <ul style="list-style-type: none"> <li>Policies to promote the installation of smart appliances that interface with smart meters at homes and business</li> </ul>                                                                                             | Very Low                                    |
|                                              | Municipal Retrofits                | <ul style="list-style-type: none"> <li>Use SANDAG Energy Roadmap and implement measures in municipal facilities, such as light replacement programs or more efficient ventilation systems</li> </ul>                                                          | Low/Medium                                  |
| Increase Renewable Energy                    | Municipal on-site renewable energy | <ul style="list-style-type: none"> <li>Increase on site renewable energy generation</li> </ul>                                                                                                                                                                | Low/Medium                                  |
|                                              | City-wide renewable supply         | <ul style="list-style-type: none"> <li>Adopt policies to increase renewables in electricity beyond state mandate of 50% by 2030</li> </ul>                                                                                                                    | High                                        |
|                                              | Behind the Meter Renewable Supply  | <ul style="list-style-type: none"> <li>Promote PV in existing buildings (residential and non-residential) and surface parking areas, such as to reduce/waive permit fees</li> </ul>                                                                           | Low                                         |
|                                              | Water Heating                      | <ul style="list-style-type: none"> <li>Require installation of solar or tankless hot water heaters in existing and new residential and non-residential buildings</li> </ul>                                                                                   | Low/Medium<br><i>Low</i>                    |

# Water, Waste and Carbon Sinks

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