



LIST OF PROPOSED REDUCTION STRATEGIES APPLICABLE TO JURISDICTIONS IN STANISLAUS COUNTY

ENERGY

Goal E-1: Increase Building and Equipment Efficiency Community-Wide

Strategy 1.1: Residential Green Building Standards. Expand green building and energy efficient design for new residential development.

Action A: *Revise the City of Hughson Municipal Code to require implementation of CalGreen Tier 1 building code standards for all new residential development.*

CalGreen Tier 1 standards represent 15% improved energy efficiency over Title 24 standards.

Action B: *Expedite permits for developments that exceed Title 24 requirements by 15%.*

Strategy 1.2: Residential Green Building Standards. Expand green building and energy efficient design for existing residential development.

Action A: *Require energy efficiency retrofits at time of sale.*

Action B: *Revise the Municipal Code to require energy efficiency retrofits at time of sale of existing residential homes.*

Action C: *Provide additional financing directly for residential energy efficiency.*

Strategy 1.3: Residential Energy Efficiency Promotion. Promote various federal, State, local, and utility programs and other opportunities to improve the energy efficiency of residential homes.

Action A: *Dedicate City resources to promote residential energy efficient programs that include Energy Upgrade California, energy efficiency audits and upgrades available from TID and PG&E, available building weatherization funding, available Residential Energy Efficiency Tax Credits, no-cost utility demand response programs, and EPA Portfolio Manager benchmarking tools and energy performance rating system (Energy Star).*

Energy benchmarking means tracking a building's energy and water use and using a standard metric to compare the building's performance against past performance and other similar size and type of buildings. All buildings can assess their energy performance, water efficiency, and carbon emissions using the EPA Portfolio Manager benchmarking tool.

Energy Star is an energy performance rating system and is given to products that meet energy efficiency requirements set forth in Energy Star product specifications,



maintained by the U.S. Environmental Protection Agency and the U.S. Department of Energy.

Action B: *Dedicate City resources to promote rebates for residential fixtures and appliances and other utility programs to improve energy efficiency in residential homes.*

Action C: *Develop a local education campaign to promote residential energy efficiency improvements through better building insulation and building envelope sealing, use of energy efficient appliances, and other efficiency programs that save energy.*

Action D: *Continue to participate in the San Joaquin Valley Clean Energy Partnership and the Northern Central Valley Energy Improvement Joint Powers Authority to apply for available Federal grant funding for residential energy efficiency projects.*

Strategy 1.4: Commercial and Industrial Green Building Standards. Expand green building and energy efficient design for new commercial or industrial development.

Action A: *Revise the City of Hughson Municipal Code to require implementation of CalGreen Tier 1 building code standards for all new commercial and industrial development.*

Action B: *Provide direct City financing for commercial energy efficiency.*

Action C: *Implement air quality impact fee program as recommended by SJVAPCD to provide for partial mitigation of adverse environmental effects.*

Action D: *Adopt a streamlined permit procedure and/or the establish minimum photo-voltaic installation requirements for businesses of a certain size (e.g. for facilities larger than 3,000 square feet).*

Strategy 1.5: Commercial Energy Efficiency Promotion. Promote various federal, State, local, and utility programs and other opportunities to improve the energy efficiency of commercial buildings.

Action A: *Dedicate City resources to promote rebates for commercial fixtures and appliances and other utility programs to improve energy efficiency in commercial buildings.*

Action B: *Develop a local education campaign to promote benchmarking and cost-effective commercial energy efficiency improvements such as performing energy audits, use of building insulation and building envelope sealing, use of energy efficient appliances, and other efficiency programs that save energy.*

Action C: *Continue to participate in the San Joaquin Valley Clean Energy Partnership and the Northern Central Valley Energy Improvement Joint Powers Authority to apply for available Federal grant funding for non-residential energy efficiency projects.*

Strategy 1.6: Use of Smart Meters. Support TID efforts to implement smart meters within the community to decrease energy use.

Action A: *Provide educational materials to residents and businesses on smart meter programs administered through TID and PG&E.*



Strategy 1.7: Industrial Equipment Energy Efficiency Promotion. Promote San Joaquin Valley Air Pollution Control District Best Performance Standards to increase energy efficiency in industrial equipment.

Action A: *Develop a local education campaign to promote implementation of San Joaquin Valley Air Pollution Control District Best Performance Standards that would include: increasing the efficiency of boilers installed for agricultural uses to provide thermal efficiency of 85-89%; promoting the use of electric motors instead of internal combustion engines; and providing new reciprocating engines to achieve an operating efficiency of 60% or greater.*

Strategy 1.8: Shade Trees. Increase shade trees in Hughson to cool buildings and pavement in the summer, which decreases the use of energy, and reduces the “heat island effect” within the City.

Action A: *Support and promote Turlock Irrigation District’s Shade Tree Program by providing brochures on the specifics of the program and including information on the City’s website.*

Action B: *Prepare and adopt an Urban Forest Plan to manage the urban forest in the City by maintaining and preserving existing trees and planting additional ones.*

Action C: *Continue to implement City Codes and ordinances that require planting of new trees, protection of existing trees, and replacement of trees that are removed.*

Action D: *Continue to implement landscaping requirements for commercial uses that require planting of new trees and other vegetation (i.e., shrubs, groundcover) of certain size.*

Action E: *Set up a fund to subsidize the purchase of shade trees for homeowners.*

Goal E-2: Increase Renewable Energy Generation and Use Community-Wide

Strategy 2.1: On-Site Renewable Energy for Homes. Increase on-site renewable energy generation and use in homes.

Action A: *Implement local ordinances and expedited permitting processes to support renewable energy in new residential uses.*

Section 17.03.012 Alternate energy sources of the City’s Zoning Code promotes and encourages the use of alternate energy by protecting solar and wind access. The City will expedite permits associated with installation of renewable energy facilities.

Action B: *Dedicate staff resources to promote existing financial incentives for renewable energy system installations such as the Turlock Irrigation District Solar Rebate Program rebates and Federal Tax Credits for residential units.*



Strategy 2.2: On-Site Renewable Energy for Commercial and Industrial Users. Increase on-site renewable energy generation and use in commercial and industrial uses.

Action A: *Implement local ordinances and expedited permitting processes to support renewable energy and increase the installation rate of solar water heating and/or roof-top photovoltaic systems.*

Section 17.03.012 Alternate energy sources of the City's Zoning Code promotes and encourages the use of alternate energy by protecting solar and wind access. The City will expedite permits associated with installation of renewable energy facilities.

Action B: *Dedicate staff resources to promote existing financial incentives for renewable energy systems such as the Turlock Irrigation District Solar Rebate Program rebates and Federal Tax Credits for non-residential units.*

Strategy 2.3: Regional Renewable Energy Partnerships. Continue regional partnerships to implement and fund more cost effective renewable energy systems through economies-of-scale.

Action A: *Develop a community choice aggregation (CCA) agreement with TID to allow purchase of electricity from more energy efficient third parties.*

A CCA is a State system that allows cities and counties to aggregate their buying power of customers in order to secure alternative energy supply contracts, which could include renewable energy. This would mean the City would be the utility provider and purchase wholesale electricity from any provider, which could include TID.]

Action B: *Continue to participate as part of the Northern Central Valley Energy Improvement Joint Powers Authority to apply for grants, as well as to implement, fund, and finance energy conservation and renewable energy projects and programs for residential uses.*

Goal E-3: Increase Energy Efficiency and Renewable Energy Generation and Use in Municipal Operations

Strategy 3.1: Municipal Energy Efficiency. Increase energy efficiency in government operations, including City buildings and facilities.

Action A: *Continue to apply for grants to retrofit all City buildings and facilities with more energy efficient lighting systems, appliances, traffic signals, and streetlights.*

Strategy 3.2: Municipal On-site Renewable Energy Sources. Increase the proportion of renewable energy used by City operations.

Action A: *Install renewable energy systems such as solar panels at the City's wastewater treatment plant.*



TRANSPORTATION

Goal T-1: Reduce Single-Occupancy Vehicle Travel

Strategy 1.1: Local Commute Trip Reduction. Support local employer-based trip reduction programs consistent with the San Joaquin Valley Air Pollution Control District's Employer Based Trip Reduction Program (Rule 9410) to reduce the number of daily commuter vehicles to and from the City of Hughson.

Action A: *Promote SJVAPCD's Employer Trip Reduction Implementation Program Rule 9410 (eTRIP), which requires larger employers to establish a program that encourages employees to reduce single-occupancy vehicle trips. Includes measures that promote (1) alternative transportation, (2) ridesharing, and (3) telecommuting and alternative work schedules (e.g., 9/80 work schedules, 10 hour shifts) for employees in Hughson.*

Action B: *Encourage smaller employers to implement transportation demand management measures to reduce single-occupancy vehicle trips.*

Action C: *Encourage and allow City employees to telecommute and have alternative work schedules to reduce employee commutes.*

Action D: *Zone land for or develop park and ride lots to encourage carpooling.*

Strategy 1.2: Regional Transportation Management. Support regional transportation management programs to shift single-occupancy vehicle trips to other modes.

Action A: *Continue to coordinate with Stanislaus County and neighboring cities within the County to encourage alternatives to single-occupancy vehicles.*

Strategy 1.3: Parking. Use parking policies to encourage alternative modes of transportation and discourage single-occupancy vehicle travel.

Action A: *Continue to waive parking requirements for new development in downtown Hughson.*

Goal T-2: Increase Non-Motorized Travel

Strategy 2.1: Bicycle and Pedestrian Infrastructure Improvement. Improve bicycle and pedestrian infrastructure within the community to increase non-motorized travel.

Action A: *Install support facilities at City facilities to encourage bicycle use.*

Action B: *Require new development to install bicycle support facilities such as bicycle racks.*

Action C: *Continue to implement the Non-Motorized Transportation Plan to improve infrastructure for bicycle and pedestrian travel to encourage their use and complete the gaps in the existing systems.*

Action D: *Continue to implement the Sidewalk Infill Program (part of the Non-Motorized Transportation Plan) to improve sidewalks, create continuous pedestrian infrastructure, and increase walking as an alternative form of transportation.*



Action E: *Prepare and adopt the City of Hughson Design Manual for Living Streets, which is consistent with the Complete Streets Act and serves the needs of all transportation users.*

Strategy 2.2: Safe Routes to Schools. Increase opportunities for schoolchildren to walk and bike to and from school.

Action A: *Implement safety improvements to City pedestrian and bicycle facilities that include striping crosswalks around schools to ensure safe conditions.*

Action B: *Dedicate City resources to encourage and educate parents/students about the benefits of walking and cycling to school.*

Strategy 2.3: Traffic Speeds. Reduce traffic speeds in sensitive areas

Action A: *Implement lower traffic speeds in areas of the City where increases in pedestrian and bicycle use is desired, such as in residential neighborhoods.*

Goal T-3: Improve Public Transit Use

Strategy 3.1: Public Transit Expansion. Increase public transit ridership in the community through increase of services and facilities.

Action A: *Continue to coordinate with Stanislaus Regional Transit to improve transit system ridership by increasing the number of pick-up locations within the City.*

Action B: *Continue to promote existing discount transit passes for residents.*

Action C: *Support the modified dial-a-ride program operated by the Stanislaus Regional Transit.*

Action D: *Require new development to include bus facilities or contribute fees to pay for facilities.*

Goal T-4: Increase Motor Vehicle Efficiency

Strategy 4.1: Fuel Efficient and Alternative Fuel Vehicle Use. Develop infrastructure to support fuel efficient and alternative vehicle use.

Action A: *Encourage private development to install electric charging stations and other public infrastructure for biodiesel and other alternative fuel vehicles through permit streamlining.*

Action B: *Modify the City's Municipal Code to permit biodiesel service or fueling stations.*

Action C: *Continue to implement a waste oil collection program to provide feedstock for biodiesel fueling stations.*

Action D: *Provide financial incentives for residents to purchase vehicles.*

Strategy 4.2: Fuel Efficiency for Municipal Fleet. Continue to upgrade the City fleet vehicles to include additional electric, hybrid-electric, and alternative fuel vehicles to reduce emissions associated with City operations.

Action A: *Continue to set aside existing budget and pursue grants to obtain funding in order to replace the City fleet with more fuel efficient and alternative fuel vehicles.*



Action B: *Actively pursue grants to install electric charging stations, and public infrastructure for biodiesel and other alternative fuel vehicles at City-owned buildings.*

LAND USE

Goal LU-1: Promote Sustainable Growth Patterns

Strategy 1.1: Sustainable Growth Pattern. Support higher densities, infill development, and sustainable growth patterns to reduce VMT.

Action A: *Implement the City's Zoning Code that allows for higher densities, infill development, and mixed use that is pedestrian-friendly.*

Action B: *Focus future development in the City's Primary Sphere of Influence to prevent urban sprawl and leapfrog development.*

Goal LU-2: Support Locally-Produced Foods

Strategy 2.1: Farmer's Markets. Support local Farmer's Markets and other venues to sell locally-grown and produced foods in the City to reduce GHG emissions.

Action A: *Modify the City's Municipal Code to allow Farmer's Markets and other venues to sell locally-grown and produced foods in appropriate zones.*

Foods that are packaged and shipped to other locations outside of the City require more energy than food that is grown and consumed locally. Hughson residents, businesses and visitors can purchase locally-grown and produced foods that are transported a short distance from its source.

SOLID WASTE

Goal SW-1: Reduce Per Capita Community Solid Waste Sent to Landfill

Strategy 1: Total Community Waste Tonnage Sent to Landfill. Reduce per capita community solid waste sent to landfill by 20% by 2020 and by 35% by 2030, compared with the baseline year 2005, through additional recycling, green waste diversion, and waste reduction associated with the community.

Action A: *Develop a Community Waste Reduction Plan.*

Action B: *Coordinate with Waste Management and Stanislaus County to prepare and distribute educational materials to the public on recycling programs, and to promote solid waste source reduction and benefits of composting.*



Action C: *Work with Waste Management to expand the recycling program to include non-residential uses and multi-family residential uses.*

Action D: *Work with Waste Management to expand the recycling program to include food waste and green waste for all users.*

Action E: *Continue to serve on and/or coordinate with the Stanislaus County Local Task Force on Solid Waste Management to ensure that services for solid waste collection, recycling, and disposal meet the needs of the community.*

Strategy 1.2: Non-Residential Waste Reduction. Work with Waste Management to perform consultations with industrial and commercial users.

Action A: *Work with industrial and commercial users to implement waste reduction measures.*

Goal SW-2: Reduce Per Capita Municipal Operations Solid Waste Sent to Landfill

Strategy 2.1: Municipal Solid Waste Sent to Landfill. Reduce per capita municipal solid waste sent to landfill by 20% by 2020 and by 35% by 2030, compared with the baseline year 2005, through additional recycling, green waste diversion, and waste reduction associated with government operations.

Action A: *Continue to implement the Environmentally Preferable Purchase and Practices Policy to increase use and purchase of recycled products.*

Hughson's Administrative Policy No. 2011-01 Environmentally Preferable Purchases and Practices Policy requires, when practical and financially viable, to use and purchase recycled products and recycled materials, and encourage its contractors and consultants to do so as well. This policy also requires the City to make resource conservation an integral part of its waste reduction and recycling programs.

Action B: *Work with Waste Management to expand the recycling program to include City facilities.*

WATER CONSERVATION

Goal W-1: Increase Community Water Conservation

Strategy 1: Community Water Consumption. Meet State water use reduction requirements, under the Water Conservation Act of 2009 (SB7x7), to reduce water consumption by 20%.

Action A: *Reduce water consumption in existing residential and commercial buildings by increasing the efficiency of plumbing fixtures and by promoting available rebates from utility companies for the installation of higher efficiency plumbing fixtures.*

Action B: *Implement water efficient landscaping requirements to reduce water consumption by preparing and adopting a Water Efficient Landscaping Ordinance.*



Goal W-2: Reduce Municipal Operations Water Consumption

Strategy 2: Municipal Operations Water Consumption. Meet state water use reduction requirements, under the Water Conservation Act of 2009 (SB7x7), to reduce water consumption by 20%.