

## Attachment: Indicators

### Sonoma County Greenhouse Gas Reduction Implementation Program (GRIP)

The County will develop a comprehensive indicator monitoring program to measure the GRIP's success toward achieving outcomes related to more sustainable communities and reduced GHG emissions. Many of the indicators to be used have already been established and are being monitored as part of the Sonoma County Indicators Report ([http://www.sonoma-county.org/edb/pdf/sotc\\_2011/Final\\_SOTC\\_Abridged\\_Indicators\\_2011.pdf](http://www.sonoma-county.org/edb/pdf/sotc_2011/Final_SOTC_Abridged_Indicators_2011.pdf)) or the Climate Protection Campaign's Annual Report Card ([http://climateprotection.org/pdf/Status\\_Report\\_Card\\_May\\_2010.pdf](http://climateprotection.org/pdf/Status_Report_Card_May_2010.pdf)). Additional indicators (along with baseline information from 2000 or 2008, and refined targets) will measure attainment of the desired outcomes of this grant application summarized below. Final inclusion of additional indicators will be decided after the gap analysis and GRIP documents are developed.

#### Outcomes that indicators will measure:

**Reduced Greenhouse Gas Emissions** - Meeting or exceeding the GHG reduction requirements of AB 32, the CARB Scoping Plan, Bay Area Air Quality Management District (BAAQMD) CEQA Guidelines, and the existing Community Climate Action Plan (CCAP).

**Air Quality** - Meeting or exceeding BAAQMD and Northern Sonoma County Air Quality District standards in accordance with the Clean Air Plan. Measures to meet or exceed the standards will include increasing good air quality days, decreasing ozone levels and particulate matter, reducing Vehicle Miles Traveled (VMT) and increasing bike and pedestrian trips.

**Water Quality** - Improved water quality as outlined by the policies and programs in the North Coast Integrated Regional Water Management Plan, such as reducing energy use associated with water transmission, improving the water quality of impaired waterway segments, promoting water conservation to reduce the demand on local water supplies and conserve water for natural habitat systems.

**Public Health** - Decreased instances of chronic disease in the community such as obesity, diabetes, and asthma. Improved public health by providing more opportunities to walk or bike to daily destinations (schools, work, retail and services, recreation).

**Social Equity/Transportation** - Economically Disadvantaged Communities and Redevelopment Areas have improved bike and pedestrian infrastructure, recreational opportunities, transit opportunities, a mix of land uses and job opportunities within walking distance to provide for the daily needs of residents of all income levels in accordance with Community Based Transportation Plans and Redevelopment Area Strategic Plans.

**Social Equity/Affordable Housing** - New affordable housing units for Extremely Low, Very Low, Low and Moderate Income households as identified in local certified Housing Elements by providing incentives to increase density near well-served transit corridors or rail stations, and identifying infill sites in existing communities.

**Land Use** - New infill construction and redevelopment of urban areas, such as building adaptive re-use and creation of community gathering places and safe bike/pedestrian ways and transit access in accordance with existing Redevelopment Area Strategic Plans and General Plan policies calling for the development of more compact and complete neighborhoods. Increase the density and intensity of land uses adjacent to commuter rail improvement plans in accordance with local Station Area Plan projections.

**Open Space** - Increased amount of acreage preserved for open space and agriculture in accordance with the Sonoma County Agricultural and Open Space District's Acquisition Plan. Continue to require large parcel sizes on agricultural and resource lands outside of the Cities and County Urban Service Areas.

**Mobility** - Reduced personal automobile use and fuel consumption by increasing safe bike/pedestrian ways and increasing transit accessibility in areas of highest potential use. Continue to implement Sonoma Marin Area Rapid Transit (SMART) Authority plans to construct commuter rail line from Cloverdale to the southern Sonoma County border.

Passenger ridership on the SMART rail achieved in accordance with EIR and SMART Business Plan projections

**Green Infrastructure** - Street improvements including multi-modal transportation options in accordance with the California Complete Streets Act and the recently adopted Sonoma County Bikeways Plan.

**Recreational Opportunities** - Increased park acreage and miles of park trails within and outside of City limits in accordance with the SCAPOSD Acquisition Plan and local Recreation Departments Master Plans.

**Water Consumption** - Reduced water use through strategies such as expanding water conservation, education, incentive, and retrofit programs for commercial and residential uses. Continue to require discretionary permit requirements for agricultural projects such as wineries.

**Energy** - Decreased energy use by sector in accordance with the Sonoma County Community Action Plan through programs such as the Sonoma County Energy Independence Program to provide educational resources and a financing mechanism for energy retrofits. Decreased municipal energy use through efforts of the Sonoma County Water Agency (SCWA) and General Services programs such as the construction of solar energy systems, fuel cells, geothermal heat exchange. Increased local renewable energy portfolio through the existing Renewable Energy Secure Communities (RESOCO) grant to SCWA (Expand existing Sonoma County code revisions to remove barriers to the approval and construction of renewable energy systems, and require new development to increase energy efficiency).

**Economy** - Increased number of green businesses and green job opportunities through programs of the Community Climate Action Plan and Economic Development Board.

**Example Program Indicators:**

<b>Program Objectives</b>	<b>Indicators</b>	<b>Source</b>	<b>Current Status</b>	<b>Desired Outcome / 2020 Target</b>
Improve Air Quality and Water Quality	Number of good air quality days	U.S. Environmental Protection Agency's Air Quality Index, or AQI	354	360
	Impaired water segments	Sonoma County Water Agency	To be established with proposal	Decrease
Promote Public Health	Population with asthma	Sonoma County Health Department	To be established with proposal	Decrease
	Overweight/obese population	Sonoma County Health Department	65%	50%
	Participation in the Household Hazardous Waste Program	Sonoma County Waste Management Agency	23,219 people	40,000 people
Promote Equity	Access to transportation	SCTA	To be established with proposal	Increase
	Jobs/Housing Balance	County	To be established with proposal	Improve
	Income distribution	Sonoma County Indicators Report	To be established with proposal	Improve
Increase Affordable Housing	Number of Very Low, Low, Moderate Income Housing Units	State Department of Housing and Community Development - Annual Housing Element Update Reports	To be established with proposal	Increase
Promote Infill and Compact Development	Proportion of jobs and housing units within ½ mile of transit	County	To be established with proposal	Increase
Revitalize Urban and Community Centers	Dollars spent serving infill development as opposed to greenfield development	County	To be established with proposal	Increase
Protect Natural Resources and Agricultural Lands	Open Space Acreage	SCAPOSD	82,127 Acres	Increase
	Percentage of agricultural land in County	SCAPOSD	62%	62%

Program Objectives	Indicators	Source	Current Status	Desired Outcome / 2020 Target
Reduce Automobile Usage and Fuel Consumption	Transit ridership (Individual transit trips)	SCTA	1,464,345	3,000,000
	Average commute lengths	SCTA	22 Minutes	18 Minutes
	Single vehicle commute mode share	SCTA	75%	55%
	Percent of Sonoma County residents commuting outside of Sonoma County	MTC	50%	40%
	Vehicle miles traveled	Caltrans HPMS	10,983 (1,000s DVMT)	Decrease
Improve Infrastructure Systems	Transit ridership	SCTA	To be established with proposal	Increase
	Parks acres per resident	SCAPOSD	To be established with proposal	Increase
Promote Water Conservation	Residential water usage	Sonoma County Water Agency (SCWA)	To be established with proposal	Decrease
	Agriculture water usage	SCWA	To be established with proposal	Decrease
	Acre-feet of recycled water used	SCWA	To be established with proposal	Increase
Promote Energy Efficiency and Conservation	Residential natural gas usage	California Energy Consumption Demand Management System (ECDMS)	79 Million Therms	Decrease
	Non-Residential natural gas usage	ECDMS	38 Million Therms	Decrease
	Residential electricity usage	ECDMS	1,320 Million kWh	Decrease
	Non-Residential electricity usage	ECDMS	1,650 Million kWh	Decrease
	Renewable energy generation	Sonoma County Indicators Report	To be established with proposal	Increase
Strengthen the Economy	Unemployment	Bureau of Labor Statistics	9.70%	7%
	Percent of Sonoma County population under poverty line	Bureau of Economic Analysis	10.90%	9%
	Annual job growth rate	Sonoma County Indicators Report	-5.3%	2%
	Foreclosures	Sonoma County Indicators Report	To be established with proposal	Decrease