

RENEWABLE ENERGY OPTION (OPTION 1) MEASURE QUANTIFICATION TABLE

Measure				GHG Reductions			
Measure Number	Measure Name	Increase	Difference from Public Draft	Option 1 2030 GHG Reduction	Change in 2030 GHG Reduction from Public Draft	Option 1 2050 GHG Reduction	Change in 2050 GHG Reduction from Public Draft
T-1.1	Acquire open space conservation lands consistent with the County Multiple Species Conservation Program (MSCP) and future conservation efforts, including acquisition of 2,622 acres by 2020 and an additional 4,370 acres between 2021 and 2030	Acquire open space conservation lands consistent with the County Multiple Species Conservation Program (MSCP) and future conservation efforts, including acquisition of 2,622 acres by 2020 and an additional 4,370 acres between 2021 and 2030	No change in calculation	5,771	0	5,291	0
T-1.2	Acquire agricultural easements through an expanded Purchase of Agriculture Conservation Easement (PACE) Program, including acquisition of 443 acres of agricultural easements by 2020 and an additional 4,430 acres between 2021 and 2030	Acquire agricultural easements through an expanded Purchase of Agriculture Conservation Easement (PACE) Program, including acquisition of 443 acres of agricultural easements by 2020 and an additional 4,430 acres between 2021 and 2030	No change in calculation	2,330	0	2,136	0
T-1.3	Focus growth in the county villages to achieve mixeduse, transit-oriented village centers by updating 10 community plans by 2030 and an additional 9 community plans between 2031 and 2040	Focus growth in the county villages to achieve mixeduse, transit-oriented village centers by updating 10 community plans by 2030 and an additional 9 community plans between 2031 and 2040	No change in calculation	13,949	0	27,913	0
T-2.1	Improve roadway segments, intersections, and bikeways to implement multi-modal enhancements for pedestrian and cyclist comfort and safety along County-maintained public roads by improving 700 centerline miles of roadway segments, including 250 intersections and 210 lane miles of bikeway improvements by 2030 and an additional 500 centerline miles of roadway segments, including 250 intersections and 210 lane miles of bikeway improvements by 2050.	Improve roadway segments, intersections, and bikeways to implement multi-modal enhancements for pedestrian and cyclist comfort and safety along County-maintained public roads by improving 700 centerline miles of roadway segments, including 250 intersections and 210 lane miles of bikeway improvements by 2030 and an additional 500 centerline miles of roadway segments, including 250 intersections and 210 lane miles of bikeway improvements by 2050.	No change in calculation	604	0	1,292	0
T-2.2	Reduce emissions from commute Vehicle Miles Traveled (VMT) in new non-residential development by 15% by 2030	Reduce emissions from commute Vehicle Miles Traveled (VMT) in new non-residential development by 15% by 2030	No change in calculation	2,180	0	3,762	0
T-2.3	Reduce County employee commute Vehicle Miles Traveled (VMT) by 20% by 2030	Reduce County employee commute Vehicle Miles Traveled (VMT) by 20% by 2030	No change in calculation	7,473	0	7,783	0
T-2.4	Require shared and reduced parking for all new non-residential development to reduce new commute Vehicle Miles Traveled (VMT) by 10% by 2030	Require shared and reduced parking for all new non-residential development to reduce new commute Vehicle Miles Traveled (VMT) by 10% by 2030	Correction made to exclude reductions from T-2.2 to avoid double counting. T-2.4 and T-2.2 would both affect new non-residential.	1,392	-61	2,403	-105
T-3.1	Require new residential and non-residential construction projects in the unincorporated county to use alternative fuels in 10% of construction equipment during construction by 2030	Require new residential and non-residential construction projects in the unincorporated county to use alternative fuels in 10%-25% of construction equipment during construction by 2030	Increased unincorporated county alternative fuels conversion from 10% to 25% of construction equipment during construction by 2030	2,213	1,328	2,243	1,346
T-3.2	Require County projects to use alternative fuels in 10% of construction equipment during construction by 2030.	Require County projects to use alternative fuels in 10%-100% of construction equipment during construction by 2030.	Increased alternative fuels requirement in County projects from 10% to 100% of construction equipment during construction by 2030.	364	328	369	332

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T-3.3	Retire 800 late-model vehicles (model year 1996 or older) in the unincorporated county by 2030.	Retire 800 1,600 late-model vehicles (model year 1996 or older) in the unincorporated county by 2030.	Increased vehicle retirement target from 800 to 1,600 late-model vehicles (model year 1996 or older) in the unincorporated county by 2030. Also made following corrections: Annual VMT per vehicle MY1997 or newer: 4,248 10,494 Average Emission Factor for Light Duty Vehicles MY1996 or older in San Diego County: 423 gCO2/mi 400 gCO2e/mi Average Emission Factor for Light Duty Vehicles MY1996 or older in San Diego County: 214 gCO2/mi 216 gCO2e/mi Replacement Rate: 50% 48%	446	-420	0	0
T-3.4	Reduce the County fleet’s GHG emissions levels, including on-road and non-construction off-road vehicles, by 10% by 2020 and 20% by 2030	Reduce the County fleet’s GHG emissions levels, including on-road and non-construction off-road vehicles, by 10% by 2020 and 20% by 2030	No change in calculation	3,673	0	3,411	0
T-3.5	Install 2,040 Level 2 electric vehicle charging stations (EVCS) through public-private partnerships at priority locations in the unincorporated county by 2030.	Install 2,040 Level 2 electric vehicle charging stations (EVCS) through public-private partnerships at priority locations in the unincorporated county by 2030.	New Measure	11,987	11,987	10,100	10,100
T-4.1	Establish a Local Direct Investment Program	Changed depending on changes to other measures	Changed depending on changes to other measures	100,294	-89,968	0	0
E-1.1	Achieve 10% greater building energy efficiency in all new non-residential development than is required by the 2016 State Energy Code (Title 24 Part 6) by 2020; require all new residential development to meet the State’s Zero Net Energy (ZNE) standards by 2020; and require all new non-residential development to meet the State’s ZNE standards by 2030	Achieve 10% greater building energy efficiency in all new non-residential development than is required by the 2016 State Energy Code (Title 24 Part 6) by 2020; require all new residential development to meet the State’s Zero Net Energy (ZNE) standards by 2020; and require all new non-residential development to meet the State’s ZNE standards by 2030	No change in calculation	38,708	0	145,215	0
E-1.2	Require all new and replacement water heaters in residential development to be either solar, electrically-powered, or tankless gas by 2020	Require all new and replacement water heaters in residential development to be either solar, electrically-powered, or tankless gas by 2020	No change in calculation	19,176	0	19,176	0
E-1.3	Achieve energy efficiency improvements in one percent of existing residential and non-residential buildings in the unincorporated county by 2030 and an additional four percent by 2050	Achieve energy efficiency improvements in one percent of existing residential and non-residential buildings in the unincorporated county by 2030 and an additional four percent by 2050	No change in calculation	3,694	0	18,470	0
E-1.4	Reduce energy use intensity at County facilities by 10% below 2014 levels by 2020 and by 15% below 2014 levels by 2030	Reduce energy use intensity at County facilities by 10% below 2014 levels by 2020 and by 15% 20% below 2014 levels by 2030	Increased energy use reduction from 15% to 20% below 2014 levels by 2030	10,702	2,494	11,578	2,494

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E-2.1	Achieve 90% renewable electricity for the unincorporated county by 2030	Achieve 90% 100% renewable electricity for the unincorporated county by 2030	Increased renewable mix of REP from 90% to 100%. Also changed depending on other measures due to reduction in electricity demand from energy efficiency measures.	283,069	52,701	307,908	51,742
E-2.2	Require installation of renewable electricity systems (e.g., solar photovoltaics, wind) on new non-residential development	Require installation of renewable electricity systems (e.g., solar photovoltaics, wind) on new non-residential development	No change in calculation	13,444	0	13,444	0
E-2.3	Increase installation of photovoltaic (PV) electrical systems in 52,273 existing homes by 2020 and an additional 77,902 homes by 2030	Increase installation of photovoltaic (PV) electrical systems in 52,273 existing homes by 2020 and an additional 77,902 homes by 2030	No change in calculation	260,322	0	260,322	0
E-2.4	Generate 10% of the County's operational electricity on-site with renewables by 2020 and 20% by 2030	Generate 10% of the County's operational electricity on-site with renewables by 2020 and 20% by 2030	Changed due to change in Measure E-1.4 reducing electricity demand.	5,417	-339	5,417	-338
W-1.1	Require installation of water-efficient appliances and plumbing fixtures in all new residential construction pursuant to Tier 1 of the California Green Building Standards Code (CALGreen) by 2020	Require installation of water-efficient appliances and plumbing fixtures in all new residential construction pursuant to Tier 1 of the California Green Building Standards Code (CALGreen) by 2020	No change in calculation	87	0	303	0
W-1.2	Require a 40% reduction from 2014 outdoor water use budgets for landscaping in new and existing residential and non-residential development by 2020	Require a 40% reduction from 2014 outdoor water use budgets for landscaping in new and existing residential and non-residential development by 2020	No change in calculation	17,535	0	19,087	0
W-1.3	Reduce potable water consumption at County facilities by 15% below 2014 levels by 2020 and 20% below 2014 levels by 2030	Reduce potable water consumption at County facilities by 15% below 2014 levels by 2020 and 20% below 2014 levels by 2030	No change in calculation	276	0	325	0
W-2.1	Capture, store, and re-use rainwater in existing and new developments by installing 1,200 rain barrels by 2020 and an additional 2,000 rain barrels by 2030	Capture, store, and re-use rainwater in existing and new developments by installing 1,200 rain barrels by 2020 and an additional 2,000 rain barrels by 2030	No change in calculation	23	0	23	0
SW-1.1	Achieve 75% solid waste diversion in the unincorporated county by 2030	Achieve 75% -80% solid waste diversion in the unincorporated county by 2030	Increased Solid Waste diversion rate from 75% to 80% by 2030	79,052	21,950	86,052	23,893
A-1.1	Convert farm equipment used in the unincorporated county from gas- and petroleum-diesel-powered to electric to achieve an eight percent conversion rate by 2030	Convert farm equipment used in the unincorporated county from gas- and petroleum-diesel-powered to electric to achieve an eight percent conversion rate by 2030	No change in calculation	6,737	0	6,679	0
A-1.2	Convert stationary petroleum-diesel or gas-powered irrigation pumps to electric to achieve four electric stationary irrigation pumps by 2020 and an additional 40 electric stationary irrigation pumps by 2030	Convert stationary petroleum-diesel or gas-powered irrigation pumps to electric to achieve four electric stationary irrigation pumps by 2020 and an additional 40 electric stationary irrigation pumps by 2030	No change in calculation	3,249	0	3,249	0

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A-2.1	Require trees be planted for every new residential dwelling unit constructed in the unincorporated county at a rate of two trees per new dwelling unit	Require trees be planted for every new residential dwelling unit constructed in the unincorporated county at a rate of two trees per new dwelling unit	No change in calculation	1,244	0	2,243	0
A-2.2	Prepare and implement a tree planting program for the unincorporated county to plant a minimum of 3,500 trees annually starting in 2017	Prepare and implement a tree planting program for the unincorporated county to plant a minimum of 3,500 trees annually starting in 2017	No change in calculation	1,735	0	4,213	0
Total Reductions				897,145	0	970,407	0