



Redwood City Community Climate Action Plan Goal Matrix

Associated Greenhouse Gas Emission Reduction Potential

Preliminary Analysis of Potential CO₂ Reductions

The following table provides a snapshot of potential CO₂e reductions associated with the implementation of strategies outlined in the Redwood City Community Climate Action Plan. These numbers are estimates and were generated using the Climate and Air Pollution Planning Assistant tool developed by ICLEI. The information presented is useful for understanding the emissions reduction potential of given strategies. The data can also assist in program goal setting and evaluating progress overtime. Calculations provided do not take overlapping effects into account nor do they incorporate all potential actions associated with each strategy.

As part of the City's New General Plan Environmental Impact Report (EIR) the City is conducting a deeper technical analysis of the Community Climate Action Plan and associated greenhouse gas emissions. The resulting technical analysis and supporting document will be suitable for use as the regulatory portion of a Comprehensive Climate Action Plan. This Community Climate Action Plan will be incorporated into the City's Comprehensive Climate Action Plan and will serve the critical aspect of the community call to action. The regulatory portion taken from the New General Plan EIR will ensure that Redwood City's final Comprehensive Climate Action Plan meets full compliance with AB 32 and SB 375 and will support future environmental review and regional planning efforts for the City.

COMMUNITY ACTION PLAN GOAL MATRIX	Projected CO₂e Emissions Reduction in Metric Tons
COMMUNITY-WIDE REDUCTION GOAL <i>(15% reduction from 2005 levels by 2020)</i>	100,466
BUILDING COMMUNITY	
Empower Redwood City residents to take action to reduce their personal carbon footprint	
Implement Redwood City Verde-It's Easy Being Green	
<i>Green @ Home (1,000 homes)</i>	1,000
<i>Cool The Earth Campaign (500,000 lbs x 6 schools)</i>	1,400
<i>Green Business Program (200 new business participating)</i>	2,138
<i>Water conservation - aggressive implementation of water conservation efforts</i>	2,408
<i>Education campaigns focused on personal carbon reduction goal of 2,200lb (1 metric ton) per resident; reduction by 5% of residents</i>	4,000
Engage Redwood City youth in community energy education efforts and prepare youth for emerging jobs in the green economy	
<i>Implement Redwood City Youth Ambassador Program</i>	NA
Total estimated emission reductions	10,946
TRANSPORTATION	
Increase walking and bicycling as an alternative to driving	
<i>Safe Routes to Schools programming covering 8,000 students</i>	541
<i>Bicycling - 2500 weekly trips switching from cars to bikes - av. Length of trip 10 miles; based on creation of 5 miles of bike boulevard type improvements</i>	626
<i>Walking - 750 weekly trips - 3 miles</i>	56
<i>Education Campaign- 15,000 households targeted - 4% trip reduction</i>	5,978
Promote the purchase of fuel efficient, electric and biodiesel in the community	
<i>Increase Hybrids used in the community - ~10% of households or 4,000 vehicles</i>	13,158
<i>EV charging stations - 30 stations</i>	36
Create conditions that decrease vehicle miles traveled and improve utilization of transit	
Focus on Transit Oriented Development - 2500 units per downtown plan	14,700
Increase public transit usage	
<i>25% increase in train usage over 2007 levels (1932) - 500 new daily riders</i>	449
<i>15% increase in average daily bus ridership over 2008 (4700) - 700 new daily riders</i>	389
Expand shuttle services to businesses and neighborhoods throughout Redwood City - 75 new daily riders, average length of rt. 10 miles	265
Total estimated transportation emissions reductions	36,198
Transportation emissions reduction goal	43,643
Difference	-7,262

	Projected CO ₂ e Emissions Reduction in Metric Tons
BUILT ENVIRONMENT	
Promote energy efficiency in the community by using city facilities as role models <i>12,000,000 square feet of commercial space retrofitted</i>	16,385
Make green building standard practice in the new construction and remodel market <i>4,000,000 square feet of new or remodeled construction</i>	14,833
Improve energy efficiency in the residential built environment and stimulate household demand for energy retrofits and upgrades <i>4,000 homes retrofitted through loans or other means</i>	4,810
<i>1,000 homes weatherized</i>	380
<i>1,500 kW of solar installed</i>	1,096
Conversion of Direct Access energy accounts to more renewable energy sources	12,000
Total estimated built environment emissions reductions	49,504
Built Environment emissions reduction goal	47,625
Difference	1,879
URBAN ECOLOGY	
Maintain a healthy urban forest and plant new and replacement trees (500 trees planted)	511
Promote and encourage community involvement in urban ecology projects that preserve or expand natural spaces, create community and connect people to their natural environment	NA
Implement a Green Gardener Certification Program	NA
Promote a safe, healthy and local food system	NA
Connect children and youth to the natural world through environmental education	NA
Total estimated reductions	511
WASTE & RECYCLING	
Make resource conservation an integral part of the physical operations of waste reduction and recycling	3,357
Total estimated waste and recycling emissions reductions	3,357
Waste & Recycling emissions reduction goal	3,357
Difference	0
TOTAL PROJECTED ESTIMATED EMISSIONS REDUCTIONS	100,516
Total Difference	50

The above calculations do not take into account potential emission reductions associated with off road vehicle emissions, agriculture, or waste water treatment. Emissions from each of these sectors are included in the total emission reduction goal of 100,466 metric tons of CO₂e.