

Climate Bay Area May 2010 Update



Climate Bay Area Mapping Project



Climate Bay Area Wedge Game

| 2020 Climate Bay Area Transportation Wedge Game | | | |
|--|-----------------------|-------------|-------------------------|
| Basic Sheet | | | |
| Potential Action | GHG Result (tons/day) | 2020 Number | 2020 Result (tons/year) |
| 10,000 older cars replaced with 2020 vehicle (35 mpg) | 15 | 0 | 0 |
| 10,000 new BART riders (round-trip) | 100 | 0 | 0 |
| 10,000 new local bus riders (round-trip) | 21 | 0 | 0 |
| 10,000 new carpoolers (round-trip) | 84 | 0 | 0 |
| 10,000 new telecommuters (round-trip) | 84 | 0 | 0 |
| 10,000 new long distance telecommuters (round-trip) | 141 | 0 | 0 |
| 10,000 new long-distance vanpoolers (round-trip) | 141 | 0 | 0 |
| 10,000 new bikers (round-trip) | 30 | 0 | 0 |
| 10,000 new walkers (round-trip) | 9 | 0 | 0 |
| 10,000 shopping trips eliminated | 31 | 0 | 0 |
| 10,000 vehicles driven with " Smart Driving " | 21 | 0 | 0 |
| 10,000 hybrids purchased (over 2020 Pavley vehicle) | 26 | 0 | 0 |
| 10,000 Plug-Ins purchased (over 2020 Pavley vehicle) | 45 | 0 | 0 |
| 10,000 hours of vehicle idling eliminated | 89 | 0 | 0 |
| 10,000 new TOD households | 55 | 0 | 0 |
| 10,000 out of region commuters switch to hybrids | 210 | 0 | 0 |
| 10,000 cars reduce speeds to 65 mph | 5 | 0 | 0 |
| NOTE: All mode shift from SOV | | | |
| Total 2020 tons reduced | | | 0 |
| Total 2020 MMT reduced | | | 0.00 |
| 2005 Total Bay Area Auto/LDT GHGs (BAAQMD) | | | 26.6 |
| 2020 Projected Bay Area Auto/LDT GHGs (MTC) | | | 30.9 |

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| Basic Sheet | | | |
| Potential Action | GHG Result (tons/day) | 2020 Number | 2020 Result (tons/year) |
| 10,000 older cars replaced with 2020 vehicle (35 mpg) | 15 | 0 | 0 |
| 10,000 new BART riders (round-trip) | 100 | 75,000 | 273,750 |
| 10,000 new local bus riders (round-trip) | 21 | 250,000 | 191,625 |
| 10,000 new carpoolers (round-trip) | 84 | 75,000 | 163,800 |
| 10,000 new telecommuters (round-trip) | 84 | 50,000 | 109,200 |
| 10,000 new long distance telecommuters (round-trip) | 141 | 0 | 0 |
| 10,000 new long-distance vanpoolers (round-trip) | 141 | 10,000 | 36,660 |
| 10,000 new bikers (round-trip) | 30 | 100,000 | 109,500 |
| 10,000 new walkers (round-trip) | 9 | 100,000 | 32,850 |
| 10,000 shopping trips eliminated | 31 | 0 | 0 |
| 10,000 vehicles driven with " Smart Driving " | 21 | 0 | 0 |
| 10,000 hybrids purchased (over 2020 Pavley vehicle) | 26 | 0 | 0 |
| 10,000 Plug-Ins purchased (over 2020 Pavley vehicle) | 45 | 0 | 0 |
| 10,000 hours of vehicle idling eliminated | 89 | 0 | 0 |
| 10,000 new TOD households | 55 | 40,000 | 80,300 |
| 10,000 out of region commuters switch to hybrids | 210 | 0 | 0 |
| 10,000 cars reduce speeds to 65 mph | 5 | 0 | 0 |
| NOTE: All mode shift from SOV | | | |
| Total 2020 tons reduced | | | 997,685 |
| Total 2020 MMT reduced | | | 1.00 |
| 2005 Total Bay Area Auto/LDT GHGs (BAAQMD) | | | 26.6 |
| 2020 Projected Bay Area Auto/LDT GHGs (MTC) | | | 30.9 |

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| 10,000 older cars replaced with 2020 vehicle (35 mpg) | 15 | 0 | 0 |
| 10,000 new BART riders (round-trip) | 100 | 75,000 | 273,750 |
| 10,000 new local bus riders (round-trip) | 21 | 250,000 | 191,625 |
| 10,000 new carpoolers (round-trip) | 84 | 75,000 | 163,800 |
| 10,000 new telecommuters (round-trip) | 84 | 50,000 | 109,200 |
| 10,000 new long distance telecommuters (round-trip) | 141 | 0 | 0 |
| 10,000 new long-distance vanpoolers (round-trip) | 141 | 10,000 | 36,660 |
| 10,000 new bikers (round-trip) | 30 | 100,000 | 109,500 |
| 10,000 new walkers (round-trip) | 9 | 100,000 | 32,850 |
| 10,000 shopping trips eliminated | 31 | 0 | 0 |
| 10,000 vehicles driven with " Smart Driving " | 21 | 0 | 0 |
| 10,000 hybrids purchased (over 2020 Pavley vehicle) | 26 | 0 | 0 |
| 10,000 Plug-Ins purchased (over 2020 Pavley vehicle) | 45 | 0 | 0 |
| 10,000 hours of vehicle idling eliminated | 89 | 0 | 0 |
| 10,000 new TOD households | 55 | 40,000 | 80,300 |
| 10,000 out of region commuters switch to hybrids | 210 | 0 | 0 |
| 10,000 cars reduce speeds to 65 mph | 5 | 0 | 0 |
| NOTE: All mode shift from SOV | | | |
| Total 2020 tons reduced | | | 997,685 |
| Total 2020 MMT reduced | | | 1.00 |
| 2005 Total Bay Area Auto/LDT GHGs (BAAQMD) | | | 26.6 |
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| Basic Sheet | | | | |
| Potential Action | GHG Result (tons/day) | 2020 Number | 2020 Result (tons/year) | Current |
| 10,000 older cars replaced with 2020 vehicle (35 mpg) | 15 | 0 | 0 | |
| 10,000 new BART riders (round-trip) | 100 | 75,000 | 273,750 | 187,000 |
| 10,000 new local bus riders (round-trip) | 21 | 250,000 | 191,625 | 500,000 |
| 10,000 new carpoolers (round-trip) | 84 | 75,000 | 163,800 | 360,000 |
| 10,000 new telecommuters (round-trip) | 84 | 50,000 | 109,200 | |
| 10,000 new long distance telecommuters (round-trip) | 141 | 0 | 0 | |
| 10,000 new long-distance vanpoolers (round-trip) | 141 | 10,000 | 36,660 | |
| 10,000 new bikers (round-trip) | 30 | 100,000 | 109,500 | 51,000 |
| 10,000 new walkers (round-trip) | 9 | 100,000 | 32,850 | 125,000 |
| 10,000 shopping trips eliminated | 31 | 0 | 0 | |
| 10,000 vehicles driven with " Smart Driving " | 21 | 0 | 0 | |
| 10,000 hybrids purchased (over 2020 Pavley vehicle) | 26 | 0 | 0 | |
| 10,000 Plug-Ins purchased (over 2020 Pavley vehicle) | 45 | 0 | 0 | |
| 10,000 hours of vehicle idling eliminated | 89 | 0 | 0 | |
| 10,000 new TOD households | 55 | 40,000 | 80,300 | |
| 10,000 out of region commuters switch to hybrids | 210 | 0 | 0 | |
| 10,000 cars reduce speeds to 65 mph | 5 | 0 | 0 | |
| NOTE: All mode shift from SOV | | | | |
| Total 2020 tons reduced | | | 997,685 | |
| Total 2020 MMT reduced | | | 1.00 | |
| 2005 Total Bay Area Auto/LDT GHGs (BAAQMD) | | | 26.6 | |
| 2020 Projected Bay Area Auto/LDT GHGs (MTC) | | | 30.9 | |

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| 2020 Climate Bay Area Transportation Wedge Game | | | | |
|---|-----------------------|-------------|-------------------------|-----------|
| Basic Sheet | | | | |
| Potential Action | GHG Result (tons/day) | 2020 Number | 2020 Result (tons/year) | Current |
| 10,000 older cars replaced with 2020 vehicle (35 mpg) | 15 | 150,000 | 82,125 | 550,000 |
| 10,000 new BART riders (round-trip) | 100 | 0 | 0 | |
| 10,000 new local bus riders (round-trip) | 21 | 0 | 0 | |
| 10,000 new carpoolers (round-trip) | 84 | 0 | 0 | |
| 10,000 new telecommuters (round-trip) | 84 | 0 | 0 | |
| 10,000 new long distance telecommuters (round-trip) | 141 | 0 | 0 | |
| 10,000 new long-distance vanpoolers (round-trip) | 141 | 0 | 0 | |
| 10,000 new bikers (round-trip) | 30 | 0 | 0 | |
| 10,000 new walkers (round-trip) | 9 | 0 | 0 | |
| 10,000 shopping trips eliminated | 31 | 0 | 0 | |
| 10,000 vehicles driven with "Smart Driving" | 21 | 150,000 | 114,975 | 5,500,000 |
| 10,000 hybrids purchased (over 2020 Pavley vehicle) | 26 | 250,000 | 237,250 | 150,000 |
| 10,000 Plug-Ins purchased (over 2020 Pavley vehicle) | 45 | 150,000 | 246,375 | 100 |
| 10,000 Hours of vehicle idling eliminated | 89 | 50,000 | 162,425 | |
| 10,000 new TOD households | 55 | 0 | 0 | |
| 10,000 out of region commuters switch to hybrids | 210 | 24,000 | 131,040 | 115,000 |
| 10,000 Cars reduce speeds to 65 mph | 5 | 150,000 | 27,375 | |
| NOTE: All mode shift from SOV | | | | |
| Total 2020 tons reduced | | | 1,001,565 | |
| Total 2020 MMT reduced | | | 1.00 | |
| 2005 Total Bay Area auto/LDT GHGs (BAAQMD) | | | 26.6 | |
| 2020 Projected Bay Area Auto/LDT GHGs (MTC) | | | 30.9 | |

Figure 6: Emissions Trajectory Toward 2050

