



ENVIRONMENTAL DEFENSE
finding the ways that work

GLOBAL WARMING POLLUTION REDUCTION OPPORTUNITIES AT CALIFORNIA'S REFINERIES

California's refineries can reduce global warming pollution while maintaining production and providing the cleaner-burning gasoline required to meet our state's clean air goals. Refineries account for only a small part (about 3%) of the state's global warming pollution. The vast majority of emission reductions from the transportation sector will come from using cleaner cars, cleaner fuels, and transit and smart growth. But while emission reductions at refineries will not be one of the most significant strategies the state relies on to meet the 2020 pollution limit in AB 32, there are strategies worth pursuing.

Refineries Can Cut Pollution Through Cost-effective Energy Efficiency

There are numerous opportunities for California's 14 refineries to cost-effectively use energy more efficiently and to reduce global warming pollution. A recent study by Kema, Inc., Lawrence Berkeley National Laboratory and Quantum Consulting found that over the next decade, California's refineries could *cost-effectively* and realistically save enough natural gas to meet the needs of about 100,000 households (or roughly all the households in the city of Bakersfield), and enough electricity to meet the needs of about 50,000 households (or roughly all the households in the city of Martinez).

To put it another way, by 2016, California's refineries could save enough energy to cut 13% of their current electricity consumption, 12% of current peak demand, and 7% of current natural gas consumption. These energy savings alone would avoid emissions of more than 370,000 tons of carbon dioxide per year. And since electricity and natural gas are only a small portion of refineries' overall fuel use, the opportunity to use other fuels more efficiently and to further reduce emissions is certainly much larger.

AB 32 Will Help Reduce Smog While Cutting Global Warming Pollution

AB 32 is entirely consistent with, and complementary to, California's laws to reduce air pollution. Refineries will continue to provide the cleaner-burning gasoline required to meet our clean air goals. Moreover, reducing global warming pollution at California's refineries will reduce emissions of smog-forming pollutants. And at the same time, AB 32 will spur further reductions in air pollution through the deployment of cleaner cars, smart growth and transit.

Cleaning up California's refineries can be part of the solution to global warming, while at the same time providing cleaner, healthier air for Californians.

For more information visit: www.SolutionsforGlobalWarming.org

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