The Road to 2030

Achieving Targets Through 2030

U.C. Davis STEPS Symposium
May 12, 2015
“For the first time in nearly two decades, we now produce more oil here at home than we buy from the rest of the world, and our all-of-the-above strategy for new American energy means lower energy costs.”

President Barack Obama
December 20, 2013
The Road to 2030: US Energy Picture

U.S. Petroleum and Other Liquid Fuels Supply, 1970 - 2040

Source: U.S. Energy Information Administration
The Road to 2030: US Energy Picture

Sources of U.S. Petroleum Imports - 2011 Jan-June
6-Month Average = 11.5 million Barrels per Day

- 51 percent from Western Hemisphere
- Canada 23.0%
- Mexico 10.7%
- Venezuela 8.9%
- Saudi Arabia 9.8%
- Nigeria 8.0%
- Algeria 3.8%
- Iraq 3.8%
- Angola 2.8%
- Other Non-OPEC 10.1%
- Other OPEC 0.1%
- Kuwait 1.4%
- Libya 0.2%
- Norway 1.0%
- France 1.1%
- UK 1.5%
- US Virgin Island 1.6%

Source: U.S. Energy Information Administration
The fossil fuel deposits in California are incredible.

California Governor Jerry Brown
March 15, 2013
The Road to 2030: CA Energy Picture

Crude Oil Supply Sources to California Refineries

Source: California Energy Commission
The Road to 2030: CA Energy Picture

Sources Of Imported Foreign Oil Into California

Source: Energy Information Administration (EIA), Company-Level Imports.
According to the Integrated Energy Policy Report, California is the third largest fuel consuming entity on earth, behind the US as a whole and all of China.

- 92% of California’s transportation fuels are petroleum-based.

The Road to 2030: SB 350 Fuel Supply

Petroleum Transportation Fuels

Other

Petroleum Transportation Fuels

Other

2010 2015 2020 2025 2030
The Road to 2030: Electric Vehicles

Governor's 2025 goal: 1.5 million

Number of electric vehicles in California today: 120,000

Number of light duty vehicles: 26 million

The Road to 2030: VMT

“Industry analysts have predicted that road pricing will be among the most effective strategies in reducing VMT and GHG emissions. A forecast based on the CSTDM seemed to confirm this assumption, where the 73 percent increase on the cost of driving translated into a 17 percent reduction in VMT.”

California Transportation Plan 2040

Source: California Department of Transportation, California Transportation Plan, Draft, March 2015
The Road to 2030: Cap & Trade

Source: California Air Resources Board, First Update to the Climate Change Scoping Plan, May 2014
“The Cap-and-Trade Program is a vital component in achieving both California’s near-and long-term GHG emissions targets.

California’s Cap-and-Trade Regulation is purposely designed to leverage the power of the market in pursuit of an environmental goal. It opens the door for major investment in emission-reducing technologies and sends a clear economic signal that these investments will be rewarded.”