



United nations conference
on climate change
COP21/CMP11



URBANX GROUP
FUEL AMERICA FORWARD

URBANX GROUP FACT SHEET

GLOBAL WARMING AND THE RECENT COP21 AGREEMENT

UrbanX has received numerous inquiries regarding the COP21 climate change conference in Paris in December 2015. Below is a brief description of the program.

What COP21 is: COP21 means “Conference of Parties,” an annual meeting of all nations that make up the United Nations Framework on Climate Change -- 195 nations in total. This is the 21st meeting (thus COP21). The first such meeting occurred in Berlin in 1995.

Purpose of annual meetings: To continually assess the nations' progress in dealing with climate change and, every so often, negotiate agreements and set goals for reducing greenhouse gas emissions that are the primary drivers of climate change.

Previous memorable meetings: The highly publicized Kyoto Protocol was COP3 in Kyoto, Japan; the Montreal Action Plan was COP11; and COP15 in Copenhagen, Denmark, was considered a failure because a binding agreement was not reached.

Goal of COP21: To achieve a legally binding agreement with all nations and with universal participation to keep global warming below the critical threshold of 2 degrees Celsius warming. [This is considered the *tipping point* and refers to the increase in globally averaged temperature since the Industrial Revolution.] It is necessary for all nations to adopt, unanimously, a legally binding agreement that will reduce global carbon emissions aimed at keeping warming below the 2-degree C threshold. [Note: In 2009 in Copenhagen (COP15) some limits to greenhouse gases were agreed upon, but no treaty was ultimately signed, thus rendering the agreement a failure. It is different for the Paris conference since all attendees signed and agreed to enable a long-term change beginning in 2020.]

Very Tough Goal? Yes. Since 1880, according to scientists and governments, the planet has been warmed by 0.85 degrees Celsius. It is strongly believed that the gases already emitted into the atmosphere will “lock us in” to around 2 degrees Celsius of warming.

How to get to the Goal: It will take significant reductions in emissions now and in the near future especially from the largest emitters like the United States and China, as well as commitments to sustainable development from all countries (which must be financed by the developed nations).

Why COP21 is so important now: The fate of the world could be at stake. Warming climate will lead to more frequent and extreme heat waves, droughts and flash floods. Further, melting glaciers and ice sheets are raising sea levels, which will affect the lives of hundreds of millions of coastal residents worldwide. Moreover, other effects such as water scarcity and changes in food supply will also accompany climate change and will hit the developing world disproportionately.

Global Warming today: Global warming is on the rise in average global temperatures caused mostly by increasing concentrations of greenhouse gases in the atmosphere. Carbon dioxide (CO₂) is the primary greenhouse gas emitted through human activity and accounts for about 82% of all United States greenhouse gas emissions from human activities. The combustion of fossil fuels, such as diesel, to transport people and goods, accounts for about one-third of U.S. CO₂ emissions.

California's regulations: California has already established global warming regulations, energy efficiency targets, and mandates a major increase in renewable content for fuels. The mix of transportation fuels petroleum refineries and distributors sell in California must meet a 10% carbon intensity reduction target for greenhouse gas emissions by 2020.

The UrbanX Answer: We have a renewable diesel fuel---a petroleum-free diesel---that meets the California Low Carbon Fuel Standard regulation and can play a major role in curbing the global warming problem.

- Our renewable diesel is classified as a biomass-based diesel and has a low carbon intensity (14.2 gCO₂e/MJ compared to petroleum diesel's 94.71 gCO₂e/MJ). It is chemically equivalent to petroleum-based diesel and meets or exceeds the American Society for Testing and Materials (ASTM D975) standards.
- Our renewable diesel is the "drop-in" fuel. It requires no changes to the engine, tank or the pipeline system. It is seamless integration.
- The California Energy Commission states that parties who are obligated to reduce greenhouse gas emissions, petroleum refineries, terminals and distributors, will seek after our fuel.

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