

Clean Energy Ministerial Biofuture Campaign

Kickstarting the Net-Zero Emissions Circular Economy

Achieving Net-Zero Emissions by 2050 will require countries, industries, and citizens to reduce, recycle, and replace carbon across all economic sectors and modes of use. Because the fuels, chemicals, and materials necessary for modern life often contain carbon, we need a vibrant Circular Economy that optimizes the use of carbon from renewable biomass and carbon-rich waste streams to substitute for as much fossil carbon as fast as possible.

Consider the IEA Net-Zero Emissions by 2050 Roadmap that makes clear the need for an all-of-the-above approach for de-carbonizing the energy sector. The IEA NZE Roadmap suggests that sustainable liquid biofuels be used to meet 14% of global transport energy demand in 2050, up from 4% in 2020. Most the additional biofuels will be sustainable hydrocarbons for use in hard-to-abate sectors like aviation, maritime, and heavy trucking. Electrification and efficiency are necessary but not sufficient to achieve Net-Zero Emissions by 2050.

Unfortunately, the use of bio- and waste-based fuels, chemicals, and materials is not increasing as rapidly as needed to achieve Net Zero Emissions by 2050.

Therefore, we created the **Biofuture Campaign**, in the context of the Clean Energy Ministerial (CEM), to enable the reduction of GHG emissions and foster a circular economy by making clear how society can and will benefit by substituting sustainable bio- and waste-based Fuels, Chemicals, and Materials for their fossil equivalents.

Sustainable Substitutes for Fossil Carbon

To encourage ambition and catalyze action the Biofuture Campaign is implementing the **Bio-based Substitution Challenge** whose signatories from industry and civil society aspire to substitute bio- and waste-based Fuels, Chemicals, and Materials for 10% of their fossil carbon equivalents in sectors and products of their choosing by 2030 (relative to a 2019 baseline).

Endorsing governments will show leadership by establishing policies to help this goal become a reality and will direct their ministries to engage through the Biofuture Platform Initiative to report progress and share best practices. Industry and Civil Society will support the Biofuture Campaign in their own capacity and contribute to the Bio-based Substitution Challenge via their own activities and operations.

Joint Leadership by Joint Action

The Biofuture Campaign is the first global convening of government, industry, and civil society that is committed to realizing a sustainable Biofuture.

We anticipate Joint Action with the countries of the Biofuture Platform and to working with the global Clean Energy community to intelligently leverage industrial biotechnology to substitute bio- and waste-based fuels, chemicals, and materials for their fossil equivalent across a range of sectors and products.

For more information and to accept the Bio-based Substitution Challenge contact the Biofuture Platform Facilitator via facilitator@biofutureplatform.org.