

# PROVIDING BIODIESEL & RENEWABLE DIESEL SOLUTIONS ON THE WEST COAST

As one of the largest energy infrastructure companies in North America, we recognize that energy consumption contributes to greenhouse gas emissions. We are actively making enhancements to our business practices and operations to support the energy transition and reduce our emissions footprint.

## WHO WE ARE

Kinder Morgan provides energy transportation and storage services in a safe, reliable and **environmentally responsible** manner while creating long-term value for our shareholders. We are the largest independent transporter of petroleum products in the U.S. and offer **biodiesel** and **renewable diesel** solutions along the West Coast.

## WHAT WE ARE DOING

Our **Products Pipelines** segment is pursuing opportunities to help meet the increasing demand for **biodiesel**, **renewable diesel**, and **sustainable aviation fuel**. These reliable, **low carbon fuels** are essential components of a low carbon energy mix, and Kinder Morgan's existing asset base is well-positioned to support them.

## BIODIESEL

**Biodiesel** is a renewable, biodegradable fuel and a clean-burning alternative to petroleum diesel fuel. Unlike petroleum diesel fuel, biodiesel is manufactured from agricultural byproducts, including vegetable oils, animal fats or recycled cooking oil. Using biodiesel as a vehicle fuel **improves air quality** and the **environment**.

## RENEWABLE DIESEL

**Renewable diesel** (also known as hydrotreated vegetable oil) is a high-quality, non-petroleum renewable fuel made from waste and residues. It is often referred to as an "advanced biofuel" or "second-generation biofuel." Renewable diesel is often confused with traditional biodiesel (also known as Fatty Acid Methyl Ester, or FAME). While both are made from organic biomasses, they are different products with differences found in their production process, cleanliness and quality.

Unlike biodiesel, renewable diesel is chemically the same as petroleum diesel and **can use existing infrastructure networks**.

Our Products Pipelines segment handled

**3.8 million barrels of biodiesel**

in 2019



## BENEFITS OF BIODIESEL & RENEWABLE DIESEL

The greenhouse gas emissions of renewable diesel and traditional biodiesel are typically **50-80% lower** than conventional diesel. This makes both options attractive in a decarbonizing world as we work to meet environmental standards like the **Low Carbon Fuel Standard (LCFS)** in California and the U.S. Federal **Renewable Fuel Standard**.

## KINDER MORGAN CAPABILITIES ON THE WEST COAST

We are committed to serving our customers and providing **infrastructure solutions for renewable fuels**. We expect the demand to grow for **biodiesel** and **renewable diesel**, given the growing focus on lowering carbon emissions. We have the **capabilities** to offer our customers both of these **renewable fuel solutions along the West Coast**.

For example, we offer **biodiesel rack blending** (up to 20% at select locations), **biodiesel manifold blending** and **sustainable aviation fuel** distribution by pipeline.

Biodiesel can be blended with fossil fuel diesel and used in many different concentrations. The most common are B5 (up to 5% biodiesel) and B20 (6% to 20% biodiesel). Kinder Morgan facilitates this blending at our Chico, Fresno, Harbor Island, San Jose, Willbridge, Colton, Mission Valley and Phoenix locations.