



City of Orange Cove

Developing a Clean Fuels Network



Hydrogen Blending is Key to California's Clean Energy Goals

At the direction of the California Public Utilities Commission, SoCalGas is proposing a local demonstration project that could safely blend up to 5% clean, renewable hydrogen into the natural gas system serving approximately 10,000 residents along with commercial customers in the City of Orange Cove, in Fresno County.

What is Hydrogen Blending?

It is the process of blending hydrogen into natural gas and injecting it into the natural gas infrastructure.

Orange Cove Could Help Pave the Way for a Net-Zero Future

To support California's climate goals, SoCalGas is proposing a demonstration project that will blend clean, renewable hydrogen serving residents and businesses. This project would offer a real-world environment to better understand how clean hydrogen and natural gas can be safely delivered to

customers in the future. This is part of a broader effort by California and utilities to develop a standard for safe hydrogen blending, which could reduce greenhouse gas emissions. The data gathered from this demonstration can also help assess how to speed the development and deployment of related advanced technologies key to the state's climate goals.

Proposed Project Overview:

- » The project would blend clean, renewable hydrogen with natural gas into the existing gas distribution system serving approximately 10,000 residents, along with commercial customers in the City of Orange Cove.
- » Starting with small concentrations of 0.1% gradually increasing the hydrogen concentrations up to 5%
- » Active blending is expected to last approximately 18 months in the city.

Hydrogen Blending is Proven and Safe

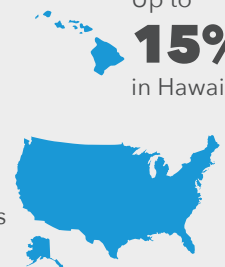
Hydrogen is safely and reliably utilized around the world and has been for decades in countries like Belgium, Canada, Denmark, France, Germany, Italy and the United Kingdom. Hawaii Gas has also been using hydrogen in its fuel mix for a half-century.

SoCalGas will employ extensive safety measures that include leak surveys and detection technology, safety assessments of hydrogen storage and components, end-use equipment surveys, education and training.

Up to **20%** underway in Europe



Up to **15%** in Hawaii
Up to **5%** underway in continental United States



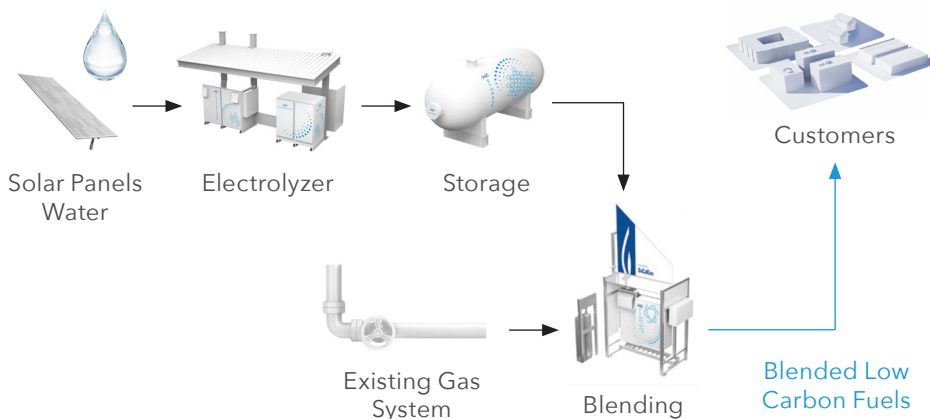
5% underway in Canada



Up to **5%** underway in Australia



How Hydrogen Blending will work in the City Of Orange Cove



For more information, visit: socialgas.com/H2Blending