

A stylized map of California is shown on the left side of the slide, rendered in a light blue color against a dark blue background. The map is partially obscured by the large white text.

Town Hall Discussion Forum

Southern California Gas Company

Our Vision

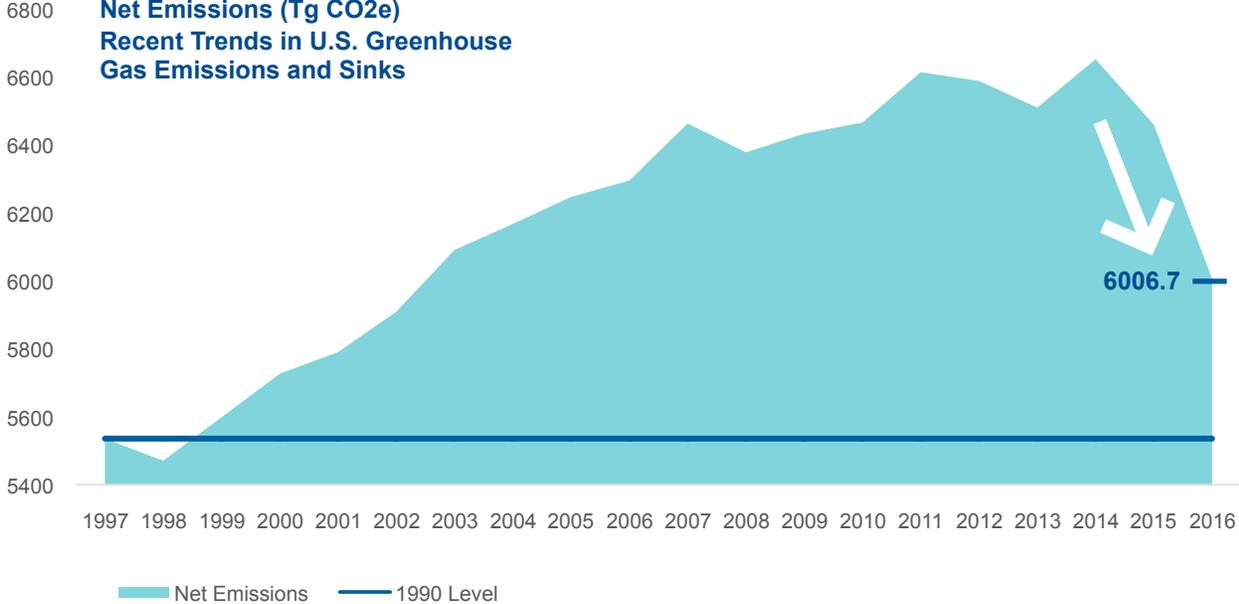
To become the cleanest natural gas utility in North America, delivering affordable and increasingly renewable energy to our customers

Realize the clean energy value of natural gas while enabling new forms of energy and technology



U.S. emissions are decreasing

Natural
gas is
displacing
coal.



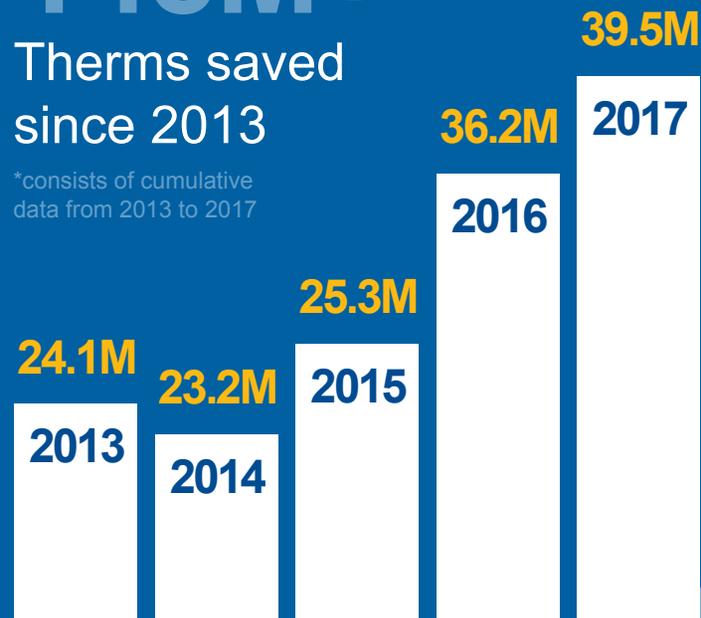
Source: US EPA, Greenhouse Gas Emissions Inventory, 1990-2016

Advancing energy efficiency: **A journey of success**

148M+*

Therms saved
since 2013

*consists of cumulative
data from 2013 to 2017



These energy savings
are equivalent to:



Enough to power
345,000
homes for
one year



Reduced greenhouse
gases by
785,00+
metric tons



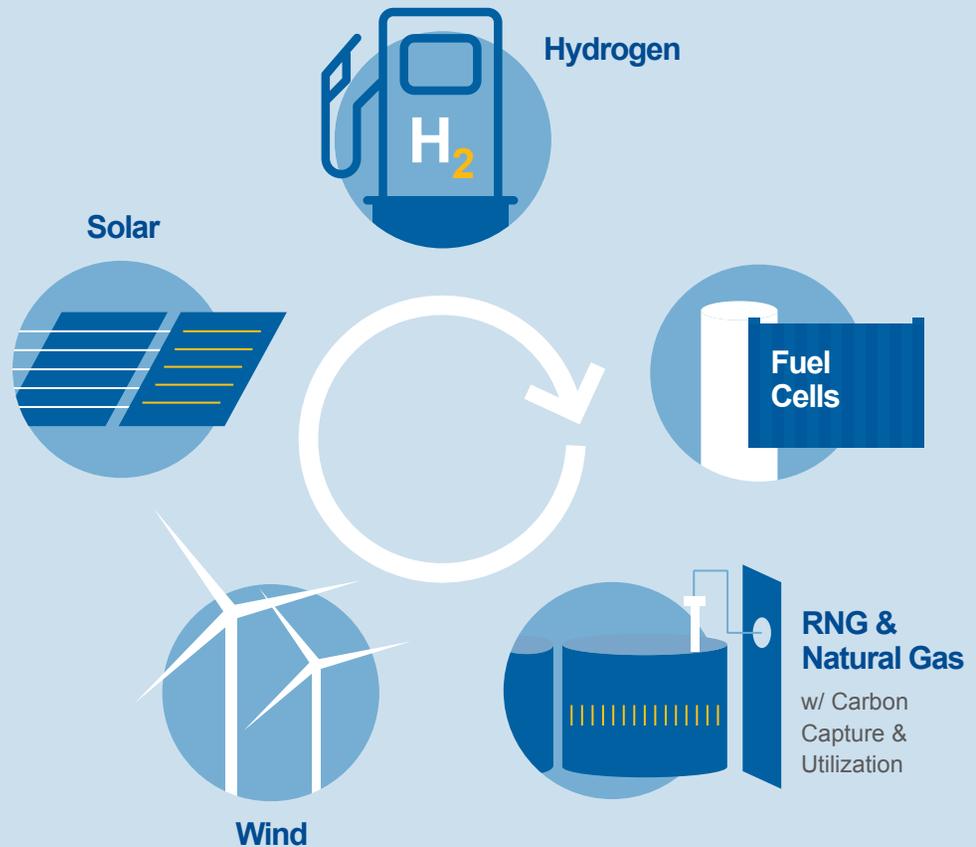
167,000
Cars removed
from the road

SoCalGas strategic priorities

- **Operational Excellence** – foundational focus on safety
- **Advance Balanced Energy Policy** – Creating an energy system that utilizes all technologies to address climate change
- **Legislative/Regulatory Outcomes** – support policies that include renewable natural gas and hydrogen in building and transportation emission reduction strategies
- **Sustainable Business Model** – natural gas, renewable natural gas, LNG and hydrogen delivery
- **Customer Focus** – affordability, choice, experience
- **People** – leadership development and change management
- **Technology** – digital transformation

Today, there is no clear path to 2045

We need to work together, use all resources available, and foster policies that will allow for the development of innovative technologies and new ideas.



Three critical questions

must be addressed for a renewable future

Reliability

How will we store it?

- Need to address intermittency
- CA already wastes renewable electricity

Affordability

How will we pay for it?

- Avoid deepening CA's affordability crisis
- Full cost implications are unknown

Consumer Behavior & Choice

How will we get people to adopt it?

- Transportation adoption has not been as successful as anticipated

Important technologies to include in the clean energy mix



Reduce waste

Prevent emissions from going into the air by using waste from our food, sewers and dairy farms to create **renewable natural gas (RNG)**.



Use existing infrastructure

Use **Power-to-Gas (P2G)** to convert excess solar and wind energy into renewable gases that can be stored in our existing pipeline system and solve long-term storage challenges.



Capture and use carbon

Use **carbon capture and utilization (CCU)** to capture carbon dioxide (CO₂) from industrial processes before it releases into the air and use it to create solid carbon or RNG.

It's time to put California on the map

Canada

Markham Energy Storage facility is North America's first P2G energy storage facility using hydrogen.

United States

Renewable Dairy Fuels in Jasper County, Indiana, is the largest RNG project from dairy waste in the U.S.

UK

HyDeploy pilot will blend up to 20% hydrogen in the normal gas supply.

France

- Jupiter 1000, the country's first industrial-scale P2G demonstrator, will have total generating capacity of 1 Megawatt electric (MWe).
- "Les Hauts de France" project will build 5, 100-MW hydrogen production units in 5 years.
- HDF Energy's Centrale électrique de l'Ouest guyanais project will be one of the world's largest solar-plus-storage power plants.
- The utility Engie will move to 100% biogas and renewable hydrogen by 2050.

Denmark

On track to become the first European country to use 100% RNG produced from food, industrial and agricultural waste.

Germany

- TenneT, Gasunie Deutschland and Thyssengas are coupling the electricity and gas grids and building a 100 MW P2G plant.
- Amprion and Open Grid Europe are building large P2G plants over the next 10 years.

Africa

The Africa Biogas Partnership Program is working to build 100,000 biogas plants to provide half a million people access to sustainable energy.

India

Will build 5,000 compressed biogas plants in the next 4 years.

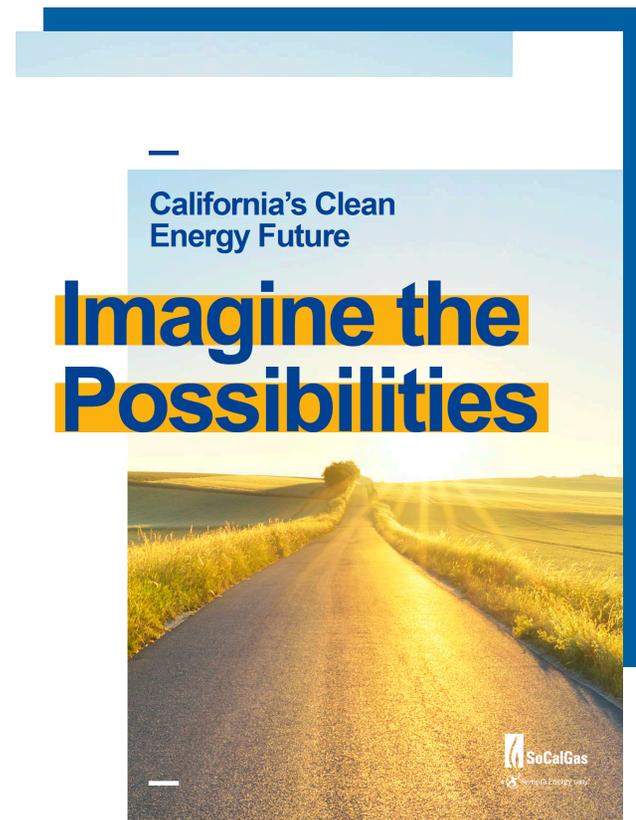
Australia

Jemena is building a 600 kilowatt electrolyzer in Sydney to produce hydrogen using solar and wind energy.

SoCalGas white paper

Engage and educate policymakers on technologies that can help California achieve its vision for a clean energy economy.

The white paper lays out a clear and compelling case for balanced energy policy.



Working together, we can create measurable progress toward

reducing emissions

Our **Vision**

To become the cleanest natural gas utility in North America

Our **Commitments**

2022

5% RNG being delivered on our system

2030

20% RNG being delivered on our system



Thank
You