



**OPAL**  
FUELS

**The Future of Renewable  
Transportation is NOW**

**2022 OPAL Fuels Company Overview**



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Net-Zero Now.

# Meet OPAL Fuels



## The leader in renewable fuels

OPAL Fuels is the powerful combination of the Fortistar Methane Group and TruStar Energy and rebranded as OPAL Fuels in 2021. Existing key ownership and management has been in place since 1998.

OPAL Fuels is the only vertically integrated RNG transportation fuel company which brings more value and fuel delivery certainty to its fleet partners through our 100% turnkey design build project approach.

## A proven record of unmatched expertise

Since 1998 Fortistar Methane Group has been transforming harmful methane emissions from biogenic sources into Renewable Natural Gas (RNG) – a proven, cost effective and clean fuel.

TruStar Energy, since its founding in 2009 has built more RNG/CNG stations than any company in the U.S. These stations dispense 25% of all RNG/CNG produced, approximately 200 million gallons annually.



## TRUE PARTNERS

We use a consultative approach with simple or custom solutions to customers unique needs for Fueling Stations, Landfill and Digester Gas Production.

- In-house Design & Engineering
- Project Management & Construction
- Project Capital
- RNG Fuel Supply
- All Inclusive Service



## ALL-ROUND EXPERTS

As one of the only vertically integrated RNG providers, We have a proven track record of developing, producing and transitioning corporate Class 8 fleets.

- RNG
- CNG
- Hydrogen



## NATIONWIDE SCALE

We have nationwide fuel delivery capabilities – 350 stations projects built, and one of the largest and growing supplies of RNG in the country with 150 million gallons of supply over the next 3 years.

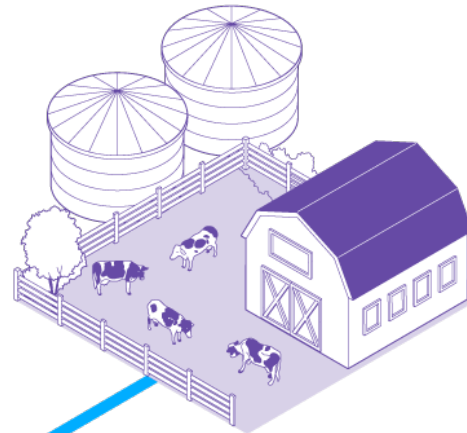
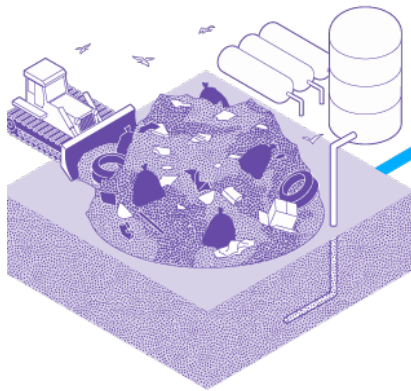


## UNMATCHED SERVICE

We use virtual-real time station monitoring to proactively address service issues, plan preventative maintenance and monitor fuel usage 24/7/365 day per year utilizing 25 service/parts support staff with 150+ territory technicians

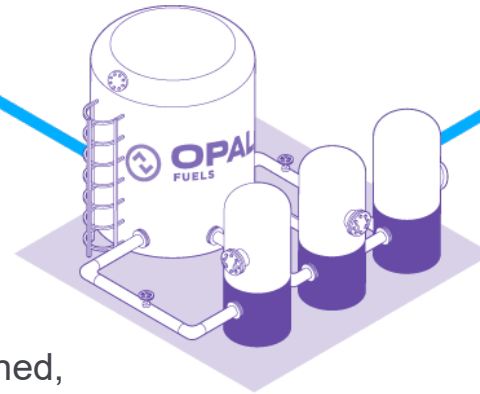
# 1

OPAL Fuels captures methane emissions on-site at landfills and livestock farms before they're released into the atmosphere or are required to be burned off.



# 2

Emissions are cleaned, and repurposed at (on-site) processing facilities.



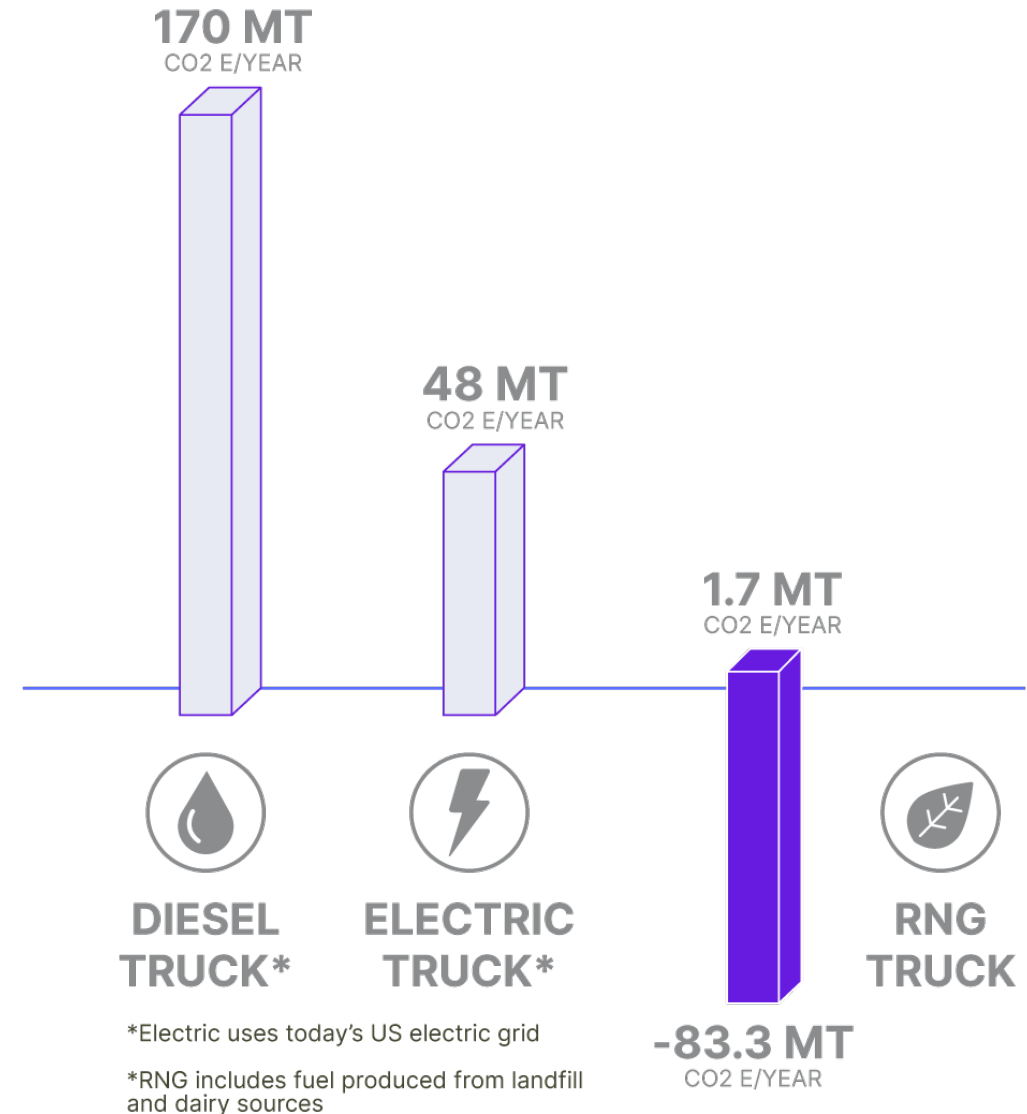
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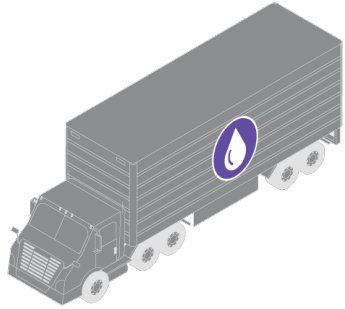
OPAL Fuels distributes RNG fuel for Class 8 fleets at fueling stations nationwide.



**Over 60,000 Class 8 trucks run on natural gas and travel over 4 billion miles a year!**

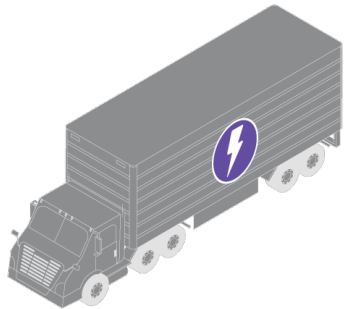
For a single truck driving 100,000 miles a year, total emissions from well to wheel can be reduced by at least 99%.





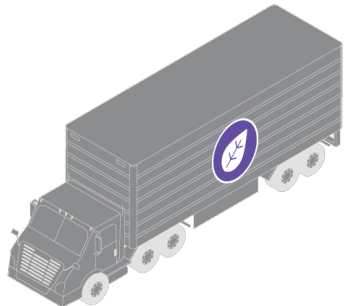
1 Diesel Truck

**170 MT CO<sub>2</sub> E/YEAR**



1 Electric Truck *(using today's electric grid)*

**48 MT CO<sub>2</sub> E/YEAR**

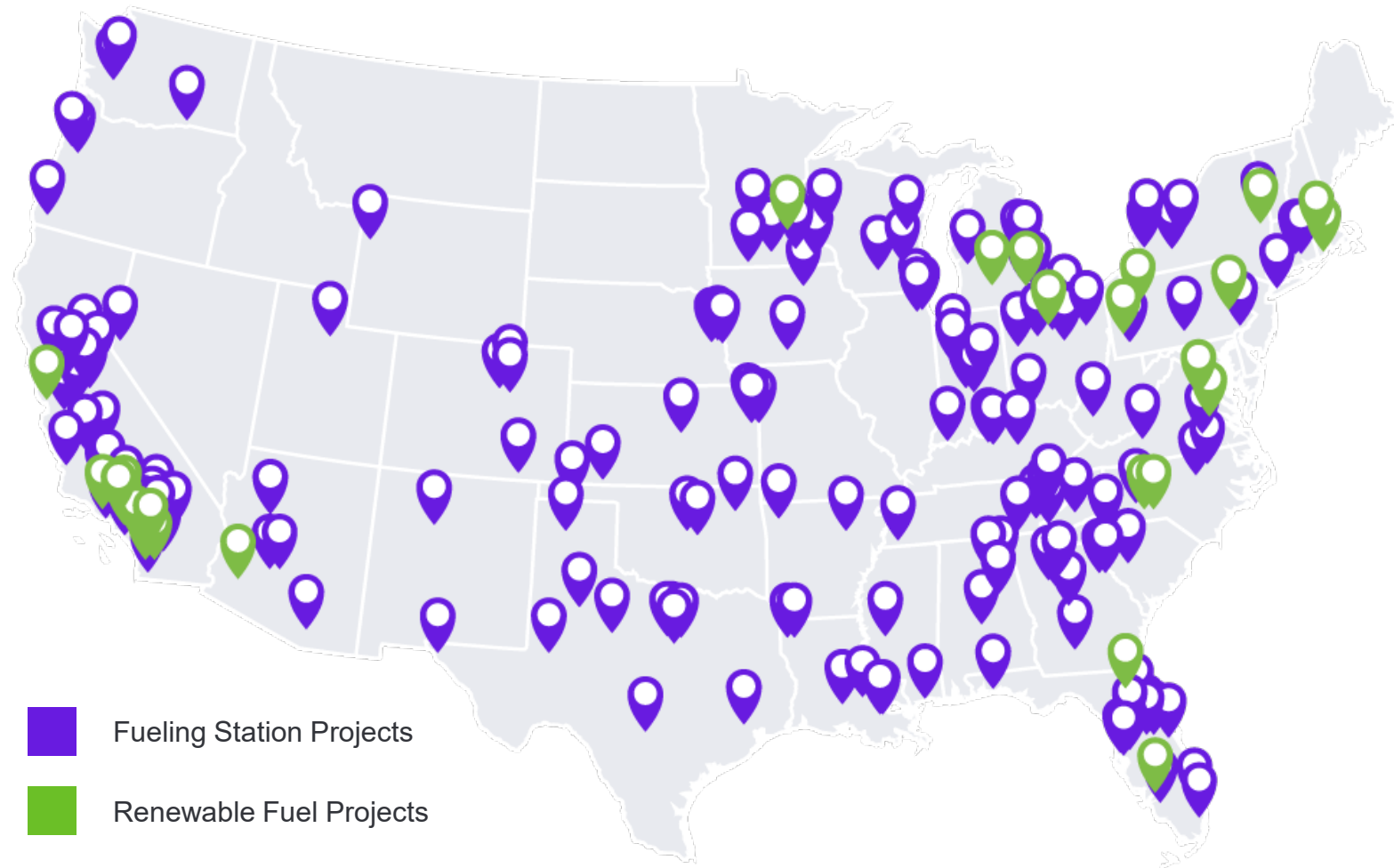


1 RNG Truck *(If dairy, could be -78 MT CO2e/year)*

**1.7 MT CO<sub>2</sub> E/YEAR**



**350 Station projects, 23 renewable power projects and 10 High Btu RNG projects**



## 2022 Upstream Projects - In Process

- (8) Landfill Methane Collection and Processing Facilities for RNG Production producing 90 million gallons of RNG Annually to supply OPAL owned Downstream stations.
- 2022 Project Budgets - \$250 million
- (3) Dairy Digesters - \$110 million
- \$2 billion in project investments since 1998

## 2022 Downstream Projects – In Process

- (46) CNG Station Projects for 3<sup>rd</sup> parties fueling 30 million gallons of RNG annually.
- (16) OPAL owned CNG Station Projects fueling 12 million gallons of RNG annually.
- (6) Hydrogen SMR production facilities for trailer and truck fueling
- \$500 million in projects since 2009



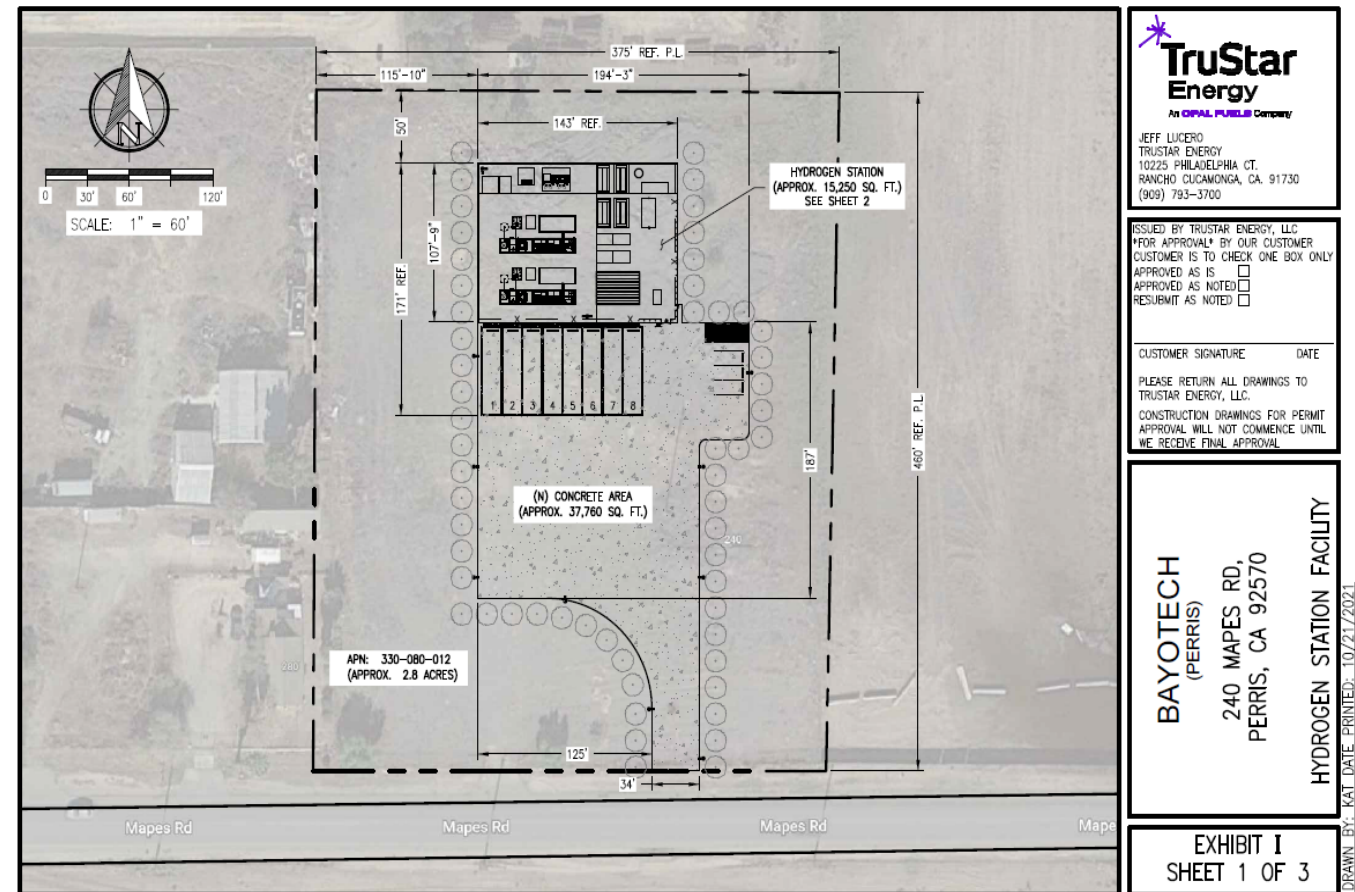




OPAL Fuels provides full-service design and engineering services to efficiently ready your project for construction in all 50 states. (1) Engineering Manager, (4) Staff P.E's and (8) drafters. 25 State Contractors Licenses

## Services Offered

- Title Search
- Geotechnical Survey
- Topographical Survey
- SWPPP (Storm Water Pollution Prevention Plan)
- Air Permit Applications
- CEQA Applications (California)
- Project AHJ Applications
- Project Design
- P.E. Stamped Plans
- Permit Submittals
- Project sign off and Occupational Permit



## Timeline – Typical Project Transportation

- Conceptual Design – 2 weeks
- Engineering Plans – 16 weeks
- Submittal to AHJ and Review – 16 weeks
- Site Construction – 12 weeks
- Commissioning/Start Up – 2 weeks
- **48 - 52 weeks from Concept to Completion**

## Timeline – Typical Project Landfill & Digester

- Conceptual Design – 8 weeks
- Engineering Plans – 30 weeks
- Submittal to AHJ and Review – 16 weeks
- Site Construction – 30 weeks
- Commissioning/Start Up – 8 weeks
- **80-100 weeks from Concept to Completion**

## Project Management & Construction Group

- (1) VP Construction and Engineering – Downstream
- (1) VP Construction - Upstream
- (1) Director of Construction
- (4) Project Managers
- (18) Project Superintendents
- (42) Technicians
- (3) Certified Welders
- (8) Prep Technicians
- (4) Procurement/Materials
- (8) Project Coordinators
- 13 dedicated project teams


- Dedicated Commissioning technicians for each project to fine tune equipment and train customers
- OPAL Fuels Remote Monitoring and Dashboard is available for every project to monitor critical equipment, data-log, capture daily gas production and usage. Mobile device friendly
- OPAL Fuels offers flexible labor or all-inclusive weekly, monthly and annual service plans
- OPAL Fuels offers 24/7 Emergency service to customers.
- OPAL Fuels has a combined service network of over 150 technicians in 20 states



Start

TSE Dashboard

performance.trustarenergy.com/#



HOME
UPS +
AD -
CO +
CONTRACT +
NON-CONTRACT +

City of Long Beach, CA
Time: 11:43:59 AM
Compressor 1

City of Long Beach, CA
Time: 11:44:03 AM
Compressor 2
ESD Shutoff

TSE Orlando, FL - Current Time: 01:06 PM (Eastern Time)

LIVE DATA

LOGGED DATA

COMPRESSOR 1

Status: **STANDBY**

No Alarms - None

COMP: STOP	1st Stage	2nd Stage	3rd Stage	
Key: ON	PSI: 156	PSI: 363	PSI: 365	PSI: 375
Node: 1	TEMP: 174°F	TEMP: 184°F	TEMP: 213°F	TEMP: 154°F
Gas: 0%				

Inlet Valve: CLOSED

Load Valve: OPEN

Final Discharge PSI: 4121

Inlet PSI: 146

Receiver Valve: CLOSED

Pre-Lube: STOP

Fan: STOP

Receiver PSI: 371

Oil PSI: 0

Last Lube Cycle: 41

Run Hours: 1158
Model NG300

Mode: REMOTE
1/10/2017 - 12:52

COMPRESSOR 2

Status: **STANDBY**

1st Stage	2nd Stage	3rd Stage	4th Stage
PSI: 77	PSI: 73	PSI: 81	PSI: 56
TEMP: 78°F	TEMP: 79°F	TEMP: 90°F	TEMP: 92°F

Inlet Valve: CLOSED

Load Valve: OPEN

Final Discharge PSI: 4146

Inlet PSI: 71

Receiver Valve: CLOSED

Pre-Lube: STOP

Fan: STOP

Receiver PSI: 407

Oil PSI: 0

Last Lube Cycle: 41

Run Hours: 1157
Model NG300

Mode: REMOTE
1/10/2017 - 12:42

DISPENSERS

1A	75°F	1B	73°F	2A	73°F	2B	73°F
Available		Available		Available		Available	
PSI: 1.4504		PSI: 3789.8		PSI: 510.53		PSI: 3897.2	
Fill Cycle: 43.406		Fill Cycle: 52.812		Fill Cycle: 0.000		Fill Cycle: 20.045	

At OPAL Fuels, we care deeply about sustainability and the environment. Compressed Natural Gas (CNG) provides fleet owners with a domestically sourced fuel that burns dramatically cleaner than diesel or gasoline, represents an abundant viable fuel (with historically stable pricing), and reduces dependence on foreign oil.

Sustainability also means that CNG fuel – and its main component, methane, can be captured at our nation's landfills, cleaned, and reintroduced into the pipelines – to be used to heat our homes, cook our food, power our vehicles, and provide fuel for America's power plants. OPAL Fuels is one of the leading energy companies managing landfill gas throughout the U.S. with sights on expanding the use and availability of renewable natural gas.

To learn more about how OPAL Fuels can deliver sustainability at no additional cost to you, contact us today and discover how easy making the move to clean, domestic CNG fuel can be.



13–21 percent fewer GHG emissions than comparable gasoline and diesel vehicles



Medium and heavy-duty natural gas engines were the first engines to satisfy U.S. Environmental Protection Agency's (EPA) 2010 emission standards for nitrogen oxides (NOx).



Natural gas primarily consists of methane (around 95 percent), with small amounts of ethane, propane, and other gases.



Methane is lighter than air and burns almost completely, creating carbon dioxide and water as byproducts



Natural gas rises and disperses quickly, so in the event of a leak or emergency venting, surrounding ecosystems and water systems are not threatened.



Greenhouse Gas Reduction of 11% With CNG



Greenhouse Gas Reduction of 84% With RCNG



Engines represent a 40% reduction in NOx vs. diesel



On average, CNG engines run 10 decibels quieter than their diesel cousins, making for quieter neighborhoods and happier and more attentive drivers.



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