



Low Carbon Fuels

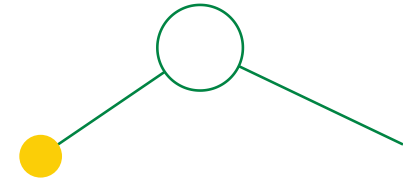
SHELL RNG

May ATAS Presentation

MAY 2022

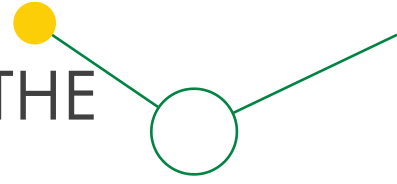
AGENDA SLIDE

MAY 19, 2022



5 min	5 min	5 min
Shell's Strategy <ul style="list-style-type: none">• Kick-off & Introductions• Powering Progress• Net Zero Commitment & Progress	Shell in California <ul style="list-style-type: none">• Background• Renewables & Energy Solutions	Shell RNG <ul style="list-style-type: none">• Scale & Integration• Feedstock Diversification• California Development

SHELL IS A GLOBALLY INTEGRATED ENERGY COMPANY WITH THE SCALE, EXPERTISE, AND DEMONSTRATED ABILITY TO DELIVER



~ 30 MILLION
customers per day

46 THOUSAND
Shell-branded retail stations

60 THOUSAND
electric vehicle charging points in **14** countries

>1 MILLION B2B
customers in >160 countries

AT A GLANCE

- 70+** countries
- 83,000** employees (2020)
- 70 million** tonnes of liquefied natural gas (LNG) sold in 2020
- 255+ TWh** global power sales approx. to end customers in 2020
- 5.6+ GW** operating renewable capacity access globally



OUR **PURPOSE**

To power progress together by providing more and cleaner energy solutions

RESPECTING **NATURE**
Protecting the environment, reducing waste and making a positive contribution to biodiversity

UNDERPINNED BY
OUR **CORE VALUES**
AND OUR FOCUS
ON **SAFETY**



SHELL STRATEGY FEBRUARY 2021

OUR GOAL IS TO
BECOME A NET
ZERO ENERGY
BUSINESS BY
2050

ALIGNED WITH THE PARIS
AGREEMENT

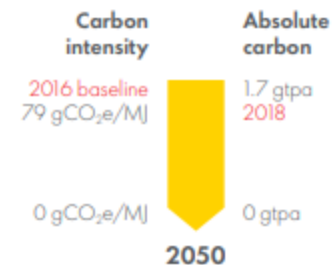
IN STEP WITH SOCIETY

OUR CARBON TARGETS for ALL ENERGY WE SELL, SCOPES 1, 2 & 3

REDUCING NET CARBON INTENSITY gCO₂e/MJ

2016 baseline

2-3% by 2021 **3-4%** by 2022 **6-8%** by 2023 **20%** by 2030 **45%** by 2035 **100%** by 2050



REDUCING ABSOLUTE CARBON EMISSIONS: FROM 1.7 GTPA TO NET ZERO BY 2050

We believe total carbon emissions from energy sold peaked in 2018 at around 1.7 gigatonnes CO₂e per annum (gtpa) and will be brought down to net zero by 2050

WORKING WITH
OUR CUSTOMERS
ACROSS SECTORS



TO ACCELERATE
THE TRANSITION TO
NET-ZERO EMISSIONS

OUR ACTIONS

AVOID

By providing, investing in and scaling up low-carbon energy solutions for our customers

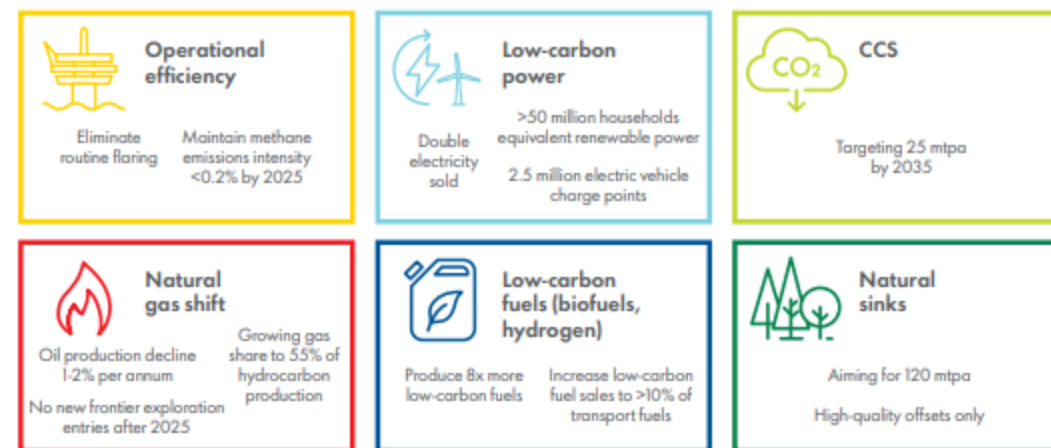
REDUCE

By limiting emissions as much as possible today

MITIGATE

By capturing and offsetting any residual emissions

OUR 2030 MILESTONES



SHELL IN CALIFORNIA

109 YEARS OF GOLDEN STATE ENERGY



RENEWABLES AND ENERGY SOLUTIONS

Solar; Wind; Hydrogen; EV Charging and Ventures

- Shell’s business focuses on the power sector and new fuels for transport
- California is a key market for the business with its advanced emerging technology research and development. Examples of recent projects include:
 - Shell currently operates eight light-duty hydrogen fueling stations in California, with an additional one under construction. Shell also is developing filling stations for hydrogen trucks in Ontario, Wilmington and Long Beach
 - Greenlots, a Los Angeles-based leader in electric vehicle (EV) charging and energy management software
- Onshore wind in operation: Whitewater Hill and Cabazon, both near Palm Springs
- Shell Ventures investments in California-based start-ups: Ample, Axiom Exergy, Growing Energy Labs, Principal Power, Makani and Autogrid
- Shell is working with EDP Renewables North America and EDF Renewables North America to purchase and distribute 332 MW of solar power
- Solar in operation: on-site solar at Stockton fuels terminal

SOCIAL INVESTMENT



2018-2020

Social investment	\$1,981,940
Education	\$823,000
Conservation	\$120,500

RESEARCH AND DEVELOPMENT



2020

Public universities and other research partners	\$5.9 million
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PROCUREMENT



2020

Procurement spend	\$232.7 million
- SWMBE ⁺	\$23.9 million

⁺Small-Women-Minority Business Enterprises

TAX

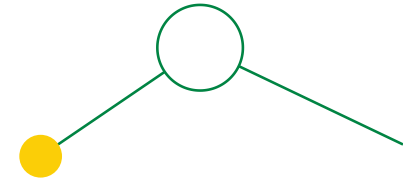


2020

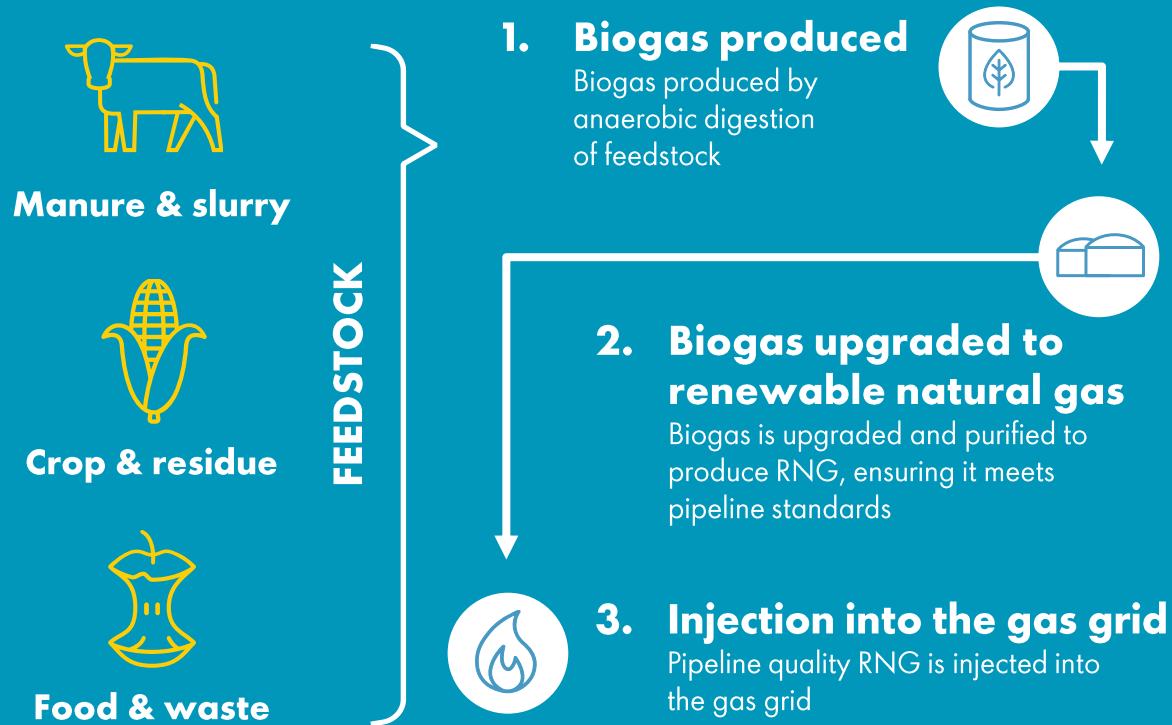
Income tax (2019)	\$6,000
Franchise tax (2019)	\$1.37 million
Motor fuels tax*	\$563.8 million
Environmental fee	\$1 million
Sales and use tax*	\$22.9 million
Property tax	\$6.6 million
Total	\$595.7 million

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LEVERAGING INTEGRATION TO SCALE



How it works



Renewable Natural Gas is most often used as a transportation fuel, but it can be used for other applications, such as a lower-carbon alternative to fossil natural gas or as a feedstock for generating low carbon grid power or green hydrogen.

SHELL PUBLICLY ANNOUNCED US RNG SUPPLY PROJECTS

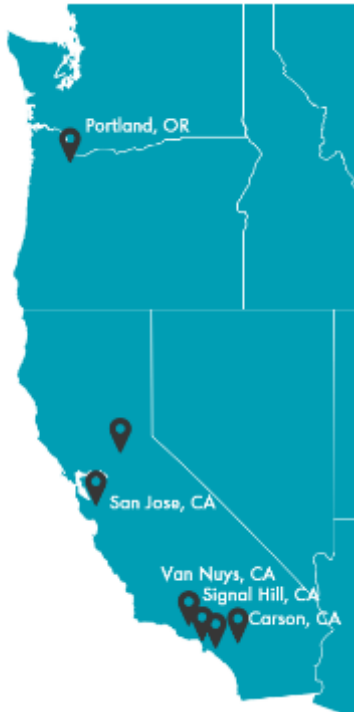


★ OPERATING - JUNCTION CITY, OREGON - 736K MMBTU/YR RNG FROM AGRICULTURAL RESIDUE AND DAIRY MANURE

★ UNDER CONSTRUCTION - KANSAS & IDAHO - 900K MMBTU/YR RNG FROM DAIRY MANURE

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SHARING INTEGRATED VALUE WITH CALIFORNIA CUSTOMERS



RNG Fast Fill Station	Wave 1 - Shell Public Fueling Network	Completion Timing
Carson, CA	20945 S. Wilmington Ave., Long Beach, CA 90810	October 2021
Signal Hill, CA	2457 Redondo Ave., Signal Hill, CA, 90755	Q3 2022
Van Nuys, CA	8100 Haskell Ave., Van Nuys, CA 91406	Q4 2022
San Jose, CA	2165 O'Toole Ave., San Jose, CA 95131	Q1 2023
Portland, OR	3800 NW St. Helens Rd., Portland, OR 97210	Q1 2023



Fast-Fill Stations - Dedicated refueling stations meet traditional refueling speeds to help minimize driver downtime.

Time-Fill Stations - Overnight refueling systems can be installed in fleet yards so every vehicle begins the day with a full tank.

Shell's natural gas network, fuel expertise, and fleet support experience are helping grow a new, integrated Shell R-CNG customer value proposition.



Up to
\$30,000
incentive paid toward purchasing or leasing each new, qualified CNG truck²



Save
30%
against diesel cost³



Up to
\$30,000
in residual protection payments⁴



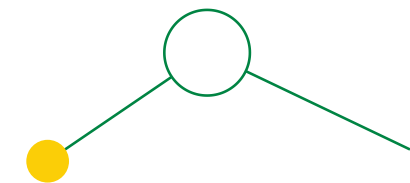
100% of the City of Los Angeles garbage truck fleet



20% of LA Metro's 2,320 CNG bus fleet

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FOOD WASTE NEXT STEP IN US RNG SUPPLY DIVERSIFICATION



Crop Residue



Where: Junction City, Oregon

What: Seven Standalone Continuous Stirred Tank Digestors

RNG Production: 736,000 mmbtu/year

Dairy Manure

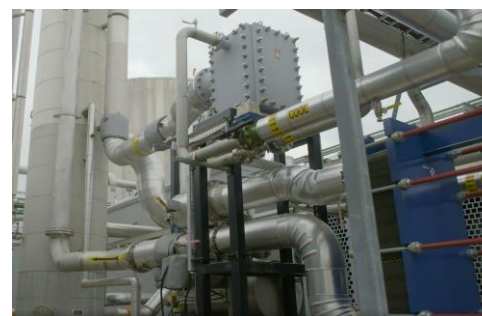


Where: Plains, Kansas, Wendell, Idaho, multiple additional projects under development in funnel.

What: Semi-plug Flow Racetrack Proprietary Digester Design

RNG Production : 900,000 mmbtu/year Q4 '22 - Q1 '23

Landfill Gas



Where: US & Canada

What: 12 years RNG Marketing experience matching RNG to customer demand. Additional Shell feedstock diversification underway.

RNG Production: Undisclosed

Food Waste



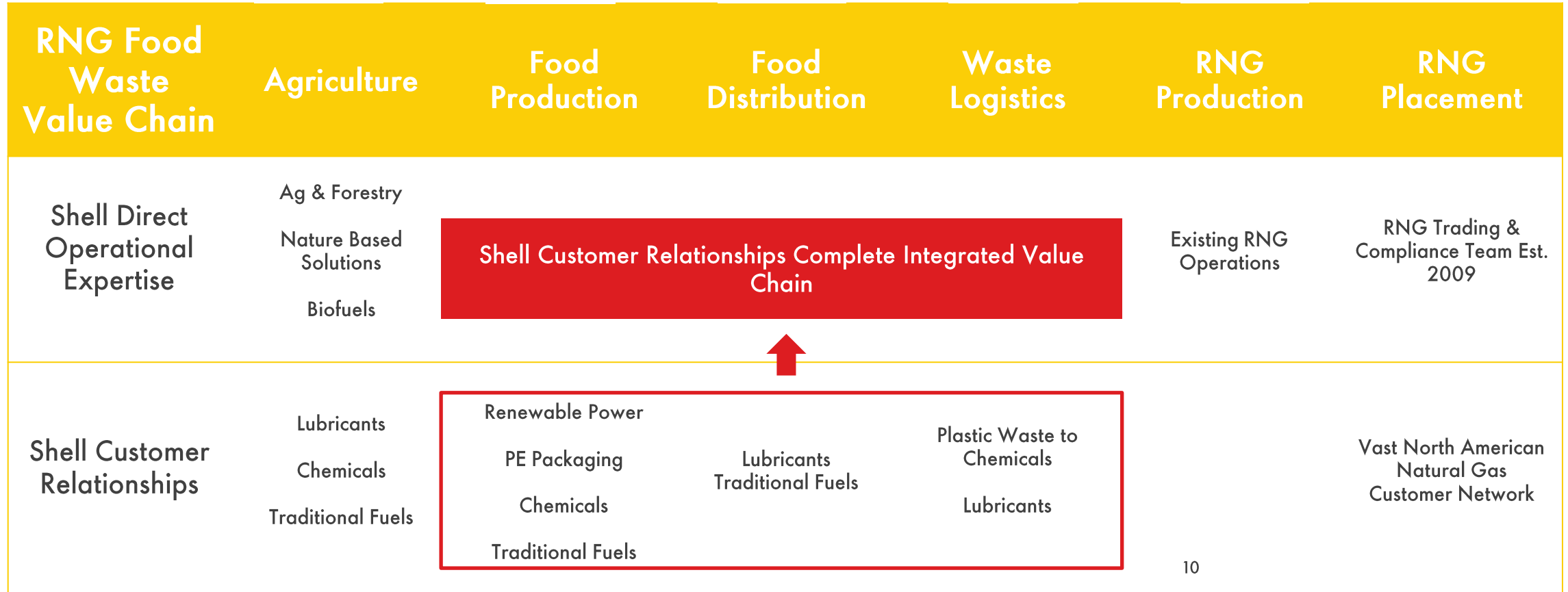
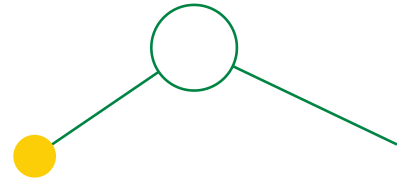
Where: US & Canada

What: New team dedicated to food waste to RNG project development.

RNG Production: TBD!

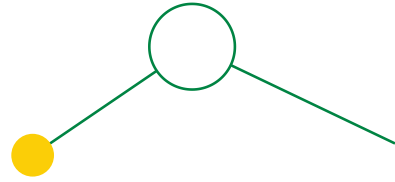
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BRINGING TOGETHER A COMPLEX VALUE CHAIN



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CALIFORNIA FOOD WASTE RNG FOCUS



- H2 2021 - New team established to support integrated food waste to RNG diversification at scale
- H1 2022 - Developing the right feedstock and technology relationships to develop multiple projects simultaneously
- H2 2022 - Progressing understanding of potential development of Shell owned real estate in California for food waste RNG projects

Please reach out to the Shell RNG team today to learn more. We are working to build the right projects, with the right partners, to continue to power progress in California for the next hundred years!

**RNG Feedstock or Project Development – Leanna.Swain@shell.com
R-CNG Fueling Interest – Michael.Deutsch@shell.com**

