



community report

2020-2021

welcome!

As a new member of the Richmond community, I'm already so proud of what we've accomplished together. We are pleased to share this new Community Report with our neighbors and stakeholders. We created this report as part of our commitment to having an open dialogue about what we do, the progress we've made, where we're headed and how it benefits the community we share.

I want to start by recognizing the frontline workers and first responders who led us through the COVID-19 pandemic. Richmond's "We Can Do It" spirit shined through with many stories of neighbors helping neighbors. Chevron Richmond was proud to contribute to that effort by donating PPE and \$110,000 in fuel for frontline workers, providing \$50,000 to the City of Richmond's Rapid Response Fund, and partnering with DonorsChoose.org and the West Contra Costa Unified School District to helping teachers and students make the transition to remote learning.

We created this report as part of our commitment to having an open and transparent dialogue with our neighbors about what we do and how it benefits the community we share.

For 120 years, we have shared a proud heritage with the community. Our talented team of operators, engineers, scientists and other professionals work to produce the affordable, reliable and ever-cleaner transportation fuels and other products that improve lives and power the world forward. We are focusing our expertise on running a cleaner, safer and more efficient facility after our \$1 billion investment in Modernization. As a result of that investment, we've decreased our particulate matter emissions by 30 percent.

We won't stop there. We believe the future of energy is lower carbon. We are working to advance the global net zero ambitions of the Paris Agreement. We will share more with you about how we will achieve that energy future as we debut exciting projects that grow our renewables and hydrogen portfolio at Richmond.

Today, Chevron Richmond is the largest energy producer in the Bay Area. We supply approximately 60 percent of the jet fuel for major Bay Area airports, fuel approximately 20 percent of the gasoline in Northern California and supply 100 percent of the lubricating oils produced on the West Coast. We also host the campus of the Richmond Technology Center, a world-class scientific research facility that supports Chevron's worldwide operations. We do all of this with a focus on always striving to improve our environmental performance.

I hope you will find the information in this report interesting. I also want to invite you to share your feedback with us at richmondrefineryinfo@chevron.com, 510-242-2000 or Richmond.Chevron.com/contact.

Thank you.
Tolly Graves, Director
Chevron Richmond

aiming to create prosperity



Spent in 2020-2021 to support organizations working to improve the quality of life in Richmond and West Contra Costa County.



Total hour volunteered by our Richmond employees in 2019-2021*

Building on our 120-year history, the 3,000 employees and contractors who serve our Richmond operations are striving to be good neighbors. We seek to continue improving our environmental performance, enhancing community partnerships and enabling positive economic impact, development, and sustainability.

Chevron Richmond believes being a good neighbor includes supporting local communities. We have learned through decades of experience that our success is directly tied to the progress and prosperity of the people we work with and the communities where we operate.

COVID-19 relief

Chevron implemented a number of social investments and other initiatives to help communities address the COVID-19 crisis. This included funding for food banks, remote learning grants to help teachers engage students studying at home and donations of Personal Protective Equipment (PPE) and gas cards, to frontline workers who kept our community safe and provided essential services. On #GivingTuesday 2020, the Richmond Refinery donated \$50,000 to the Richmond Rapid Respond Fund, a collective led by the city of Richmond and a community-led coalition working to provide residents support around food security, economic recovery, housing and other social services. Our donation during the holiday season went to support more than 600 local families with financial assistance and over 25 families with rental assistance.

Chevron Richmond donated \$110,000 in gas cards to organizations like Contra Costa Regional Health Foundation, Contra Costa and Solano Food Banks, Meals on Wheels West Contra Costa, LifeLong Medical and others to support to these organizations and their essential workers on the front lines of service during the pandemic.



*Data includes 2019-2021 due to restrictions on in-person gatherings during COVID-19.

economic development

Our economic development initiatives aim to ignite and inspire new possibilities for women, families and communities. By investing in programs that provide support for small businesses and entrepreneurs, we are supporting the current and future health and prosperity of the communities where we operate.

Latina Center

Latinx are the fastest-growing population in the City of Richmond. Initiatives like the Latina Center's Incubator Project have become more important as they work to improving economic self-sufficiency for Latinx women and their families. Each year, the project nurtures microenterprises for up to 50 Latinx immigrant women to promote empowerment and create and sustain jobs in Richmond. The independence that comes with financial self-sufficiency is even more critical for the communities that the Latina Center supports due to the pandemic. Since 2014, Chevron has supported services that strengthen vulnerable social support networks, improve individual and family health outcomes, and promote economic self-sufficiency.

SOS Richmond

During the COVID-19 pandemic, Chevron Richmond began working with Safe Organized Spaces Richmond (SOS), contributing funding toward purchasing West Contra Costa County's only mobile shower trailer providing the service to Richmond's unsheltered population. SOS has been helping to maintain sanitary living conditions by removing litter and refuse as well as curbing illegal dumping. Unhoused members get paid small stipends in exchange for taking on tasks such as security, trash pickup and cleaning the encampment. The goal is to make the camps more habitable for communities.



Kitchen@812

The West Contra Costa County Business Development Center's Kitchen@812 program is designed to facilitate economic opportunities for our community's entrepreneurs, helping local residents and their families attain economic self-sufficiency. Chevron's sponsorship of this successful food business incubator helps community members build businesses, create jobs, and stimulate our local economy. By providing program participants with the guidance and tools to effectively launch and rebuild their food ventures, Kitchen@812 targeted entrepreneurs hit hardest by the COVID-19 crisis. During 2020-

2021 the program supported more than 105 local entrepreneurs, facilitated the creation of 25 new businesses, and helped generate 104 jobs.

education

Few factors are more important to the future success of communities than having a well-educated population that is prepared to meet the challenges of tomorrow. Our investments in education are long-term and far-reaching, and our support for science, technology, engineering and math (STEM) education helps communities prosper. We work to create innovative education programs that position the next generation of problem solvers to tackle the most complex challenges of the future.

Hidden Genius

Chevron Richmond supports the Hidden Genius Project, which trains and mentors Black male youth in technology creation, STEM-related entrepreneurship and leadership skills to transform their lives and communities. The program is designed to address the dramatic contrast between the high unemployment of Black male youth and the widespread career opportunities within the Bay Area's technology sector. In 2020, the Chevron-supported program was implemented in collaboration with the Richmond Fab Lab at Kennedy High School and the Autodesk Black Network. Engineers from Autodesk trained the high school students in AutoCAD, a critical technology linked to the energy industry and to wider software applications across multiple industries.



Project SEED

Chevron funds the American Chemical Society's Project SEED at our Richmond Technology Center. This nine-week paid internship places local high school chemistry students from Richmond in labs to perform meaningful scientific research under the mentorship of a Chevron scientist. The program provides young people in our community not only a paid summer experience, with high quality mentoring, but also a sense of Chevron's cutting-edge research to develop energy solutions. It further clears pathways for future job opportunities. Jessica Siu participated in Project SEED her junior year of high school. After graduating from UC Davis, she came to work at Chevron as researcher technician at the Richmond Technology Center. She continues to pay it forward by serving as a mentor to current program participants.

Scholarships

Chevron's employee networks in Richmond coordinate scholarships for local students to help them achieve their educational goals. Every year, network members volunteer to review scholarship applications, as well as host an award ceremony for students, their families and the community to honor academic achievements. Our Somos (LatinX employees) and BEN (Black Employees) networks, have collectively awarded over 280 scholarships for Richmond students throughout the last 20 years.

richmond promise

Chevron Richmond is investing \$35 million in the Richmond Promise, over 10 years, to help make college more affordable and attainable for local students.



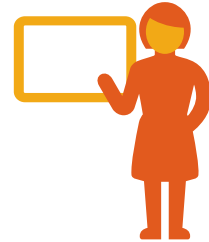
2,200+

Richmond Promise scholars
from 2016-2021.



70%

First-generation
college students.



\$1.5M+

Value of scholarships in the
2020-2021 academic year,
representing enrollment at over
100 colleges and universities
across the country.



**“These initiatives
reflect the
Richmond
Refinery’s
commitment to
closing the college
access margin
and increasing
postsecondary
educational
attainment in our
community.”**

—Linsi Crain, Chevron Richmond
Public Affairs Manager and
Richmond Promise Board Member

The Richmond Promise scholarship is made possible by a 10-year, \$35 million seed investment from the Chevron Corporation’s Environmental and Community Investment Agreement with the City of Richmond, to help make college more affordable and attainable for local students. An important aspect of this support is facilitating the early and frequent engagement of students and families to build a college-bound culture in Richmond.

fostering workforce opportunities

workforce development

Many high-paying jobs in today's economy require advanced skillsets, which has led to an increasing skills gap. Closing that gap in our community is critical to Chevron's role in helping lead the energy transition. We support organizations leading those important efforts and have a proven track record of successful vocational training and job placement.

Chevron works to foster economic growth in Richmond and West Contra Costa County by helping build skills and grow the pool of qualified local talent. We support a wide range of job training and workforce development programs to provide opportunities for residents of all ages and backgrounds with career-building skills needed to succeed in jobs of the future.



RichmondBUILD

RichmondBUILD is an award-winning career-training program which is leading the efforts to close the skills gap in the Richmond community between local residents and the high-paying, technical jobs found in the green construction industry. RichmondBUILD teaches residents the advanced skills needed to be successful in our ever-changing economy. The Chevron Richmond Refinery supports RichmondBUILD to help provide Richmond residents of all ages and backgrounds have economic opportunities.

regional occupational program

The Regional Occupational Program (ROP) is a free job readiness course offered through a partnership with Chevron and the Contra Costa County Office of Education that helps prepare students for a job in the petrochemical and related industries. Students will learn the basic processes and equipment common to the industry and have an opportunity to make connections with local employers. The courses also help develop strong communication and teamwork skills, and job safety is emphasized throughout. Since 2015, Chevron Richmond has directly hired more than 115 ROP graduates as either maintenance mechanics or process plant operators, while additional program graduates have gone on to work for other facilities or companies across the energy industry.



partnering with local suppliers

Chevron works to promote an inclusive business environment in the Richmond area and build long-term relationships with local companies to support our local operations.



\$159m

Spent with suppliers in
Richmond and West Contra Costa
County in 2020-2021.



\$1B+

Contributed to the local economic
through out local procurement
programs since 2015.



80+

Local businesses
used by Chevron Richmond
in 2020-2021.

Chevron Richmond has a special focus on providing opportunities for small, minority and woman-owned businesses. Over our 100 year history in Richmond, we have helped spur many local success stories.

Chevron invests heavily in local goods and services, which supports jobs and generates revenues for local governments, communities and companies. Our reputation and effectiveness depends on our diversity efforts. We are dedicated to developing and promoting successful partnerships through innovative, cost-effective solutions that fuel the mutual growth of our company and our suppliers.

Goebel Construction

In the early 1980s, Richmond-based Goebel Construction received its first contract with the Richmond Refinery for paving and road work. The company started with a paving crew of six and today has more than 100 mostly Richmond-area employees doing paving,



grading, underground

and mechanical work, steelwork, and environmental remediation at the refinery. Greg Goebel Jr. oversees the work the company does for the refinery and says his company grew in part because it adheres to Chevron's high safety standards.

"The work and safety culture that Chevron has helped breed within our company has a positive impact on our other business, outside of the refinery. It's a good resume-builder with other clients, saying, 'This is our safety record.'"

**"Goebel
Construction
found a way to
succeed. From
humble beginnings,
we leveraged work
with Chevron
to build our
business and
generate countless
local jobs."**

—Greg Goebel, Jr.,
Goebel Construction

our people

Our greatest resource is our people. We have solved some of the most complex energy challenges of the past; together we will innovate solutions for a better future.

Diversity and inclusion are cornerstones of our corporate values, which we call The Chevron Way. As core values, we believe diversity and inclusion are critical to developing the talented, high-performing workforce needed for ongoing business success. We have an inclusive work environment that values the uniqueness and diversity of individual talents, experiences and ideas.

Chevron supports 12 Employee Networks that aim reinforce and strengthen the company's commitment to build on our diverse and inclusive culture where everyone feels included, valued and purposeful. And, in helping everyone reach their full potential, they drive business success. Chevron employees apply their skills, experience and energy in volunteer activities that help strengthen the community. To the employees at Chevron Richmond, giving back to the community is part of the job.

We are proud of how our employees have met the complex challenges of the past and are innovating for the future with ingenuity, creativity and collaboration. Among those employees are generations of families who have seen their children, cousins, aunts and uncles and even some grandchildren enjoy careers at Chevron Richmond.

Meet Carlos Fonseca, who is an Instrument Technician, maintaining operating equipment throughout the Richmond Refinery. Carlos' great-grandfather worked at the Chevron Chemical Plant on Hensley Street. Carlos graduated from Richmond High School, where his interests in electronics led him to join the Chevron sponsored robotics team.

After graduating high school, he went on to study Culinary Arts at Contra Costa College, another Chevron supported program. Carlos worked in the food industry for eight years. But he was interested in finding more fulfilling work that would also provide a better quality of life.

Carlos joined the Regional Occupational Program, Chevron's free job skills training program. Eventually he would obtain a full time job with the Maintenance and Reliability team. He's also a member of the International Brotherhood of Electrical Workers Union (IBEW).

"I have family here. I still live in the area. And I feel a sense of responsibility to make sure that everything is running reliably at the refinery. And working in maintenance gives me the opportunity to do that. Safety is not just something we say, it's something that we practice every day."



"This is my community too."

Carlos Fonseca, Instrument Technician

protecting the environment

We work hard to protect the environment and empower people where we operate.



30+

Federal, state, and local regulatory agencies that oversee our operations.



5,000

Barrels per day blending capacity of renewable diesel.



7.5 million

Capacity (in gallons) of recycled water per day available for use by the Richmond Refinery.



85%

Reduction in emissions, including criteria air pollutants, over the past 50 years.



30%

Reduction in particulate matter (PM) emissions refinery-wide since 2018.

protecting the environment

We aim to lead our industry in health, safety and environmental performance. Protecting people, assets, communities and the environment is our highest priority. We embrace the expectations of our stockholders and stakeholders and hold ourselves accountable by transparently reporting on performance. From the color of our storage tanks to the designed redundancy and safeguards in our processes, we are considering potential community impact.

We have a long-standing commitment to reduce criteria air pollutant emissions. By investing in new technologies and efficiencies, we have reduced criteria air emissions by about 85 percent over the last 50 years. On a daily basis, our workforce seeks to honor that commitment to operate responsibly with trust and integrity.

Our community outreach includes ways to promote two-way dialogue, provide access to quality, reliable data, and support the health and safety of our community. Air monitoring is one of the tools used to understand neighborhood criteria air emissions and increase transparency.

We have invested in technologies to reduce our freshwater usage. As a result, we are one of the largest industrial users of reclaimed water in the Bay Area. In collaboration with East Bay Municipal Utilities District (EBMUD), we have worked to overcome barriers to reclaimed water use, keeping millions of gallons of fresh water available every day for thousands of other users in the community.

conserving water

In 2010, Chevron and the East Bay MUD commissioned a state-of-the-art reclaimed water treatment facility located on refinery land to address operating in an area of limited fresh water availability. This greatly increased our daily capacity to use up to 7.5 million gallons per day of recycled water. We use this reclaimed water in our boilers to produce steam and electricity and in our cooling water systems, which help us manufacture gasoline, diesel and jet fuel and other transportation products. By using recycled water for most of the refinery's water needs, we free up enough drinking water to meet the indoor and outdoor water needs of more than 83,000 residents.



measuring air quality

Since 2014, Chevron has funded an independently operated community air monitoring program. Designed in partnership with the community and City of Richmond, the program collects data from three systems along the refinery's fenceline and three neighborhood stations near the refinery. A recent scientific study showed that air quality in Richmond is similar to other urban communities in the Bay Area and is most impacted by regional wildfires and periods of high traffic. The fenceline monitoring system measures 11 chemical compounds at three locations and 17 compounds are measured at the three community monitors. Data is available to the public, 24 hours a day, at richmondairmonitoring.org.

getting results the right way

From gasoline, to jet and diesel fuel, and lubricating base oils, the Richmond Refinery makes products people use every day.



60%

Airplanes at bay area airports
propelled by our fuel.



20%

Cars on bay area roads
that run our gasoline.

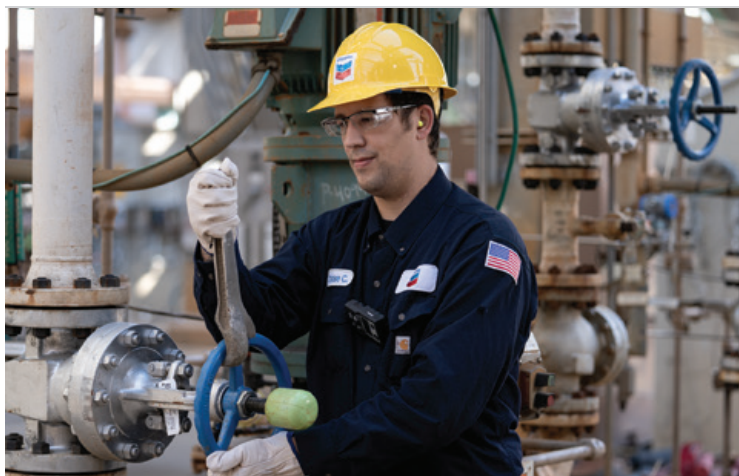


100%

Lubricating oils produced on the
west coast made in our plant.

history

The Richmond Refinery was the West Coast's largest and most advanced plant upon its completion in 1902. During WWII, it supported our country's wartime efforts by developing and supplying fuels for military planes and ships. In 1945, more than 1,100 women worked to ensure the refinery continued to meet critical energy needs.



Our work is guided by two key principles:

- Do it safely or not at all
- There is always time to do it right

safety

Everything we do begins with a fundamental commitment to safety. Our safety culture reflects a code of conduct based on two key principles: do it safely or not at all and there is always time to do it right.

The refinery has a comprehensive network of safety systems in place that enable us to operate safely and reliably. As part of our efforts to continuously improve process safety performance, we've invested notable resources in new equipment and technologies that have directly improved the safety and reliability of the refinery.

Everyone at Chevron has both the right and responsibility to exercise "stop-work authority" – they can stop any operation, without any repercussions, if they believe people or the environment are in danger. We continually affirm this authority with our employees, even if it turns out that stopping work wasn't necessary.

Over the past decade, we have taken a wide range of actions to continuously improve our process safety performance. We actively communicate these improvements with members of government and our community.

Finally, we have learned through decades of experience that our success is directly tied to the progress and prosperity of the people we work with and the communities where we operate.

a lower carbon future

We believe the future of energy is lower carbon. We also know affordable, reliable and ever-cleaner energy is essential to achieving a more prosperous and sustainable world.



enabling human progress

The energy we provide improved lives and enables the benefits of modern society.



developing renewable fuels

We're increasing the use of renewables in a number of our products. We have the capacity to blend 5,000 barrels per day of renewable diesel.



10.5 megawatts

Amount of renewable energy generated, enough to power 3,900 homes annually

MCE Solar One

Chevron is providing access to 49 acres of refinery land for the MCE Solar One project, which is made possible in part by Deep Green 100% renewable energy customers who support local renewable development.

the future of energy



We believe the future of energy is lower carbon. Our strategy is straightforward: Be a leader in efficient and lower carbon production of traditional oil and gas energy, in high demand today and for years to come, while growing the lower carbon businesses that we believe will be a bigger part of the future.

energy transition projects

Chevron's approach envisions the use of green, blue, and gray hydrogen. We believe the use of blue and green hydrogen as a fuel source can help reduce the amount of GHG emissions entering the atmosphere.

At the Chevron Richmond Refinery, capacity in the new, more efficient hydrogen unit, combined with existing and future strategic partnerships, will be the foundation to support hydrogen demand growth in the heavyduty transportation, industrial, and power sectors.

turning waste into green hydrogen

Chevron is invested in Raven SR Inc., a renewable fuels company that plans to build modular waste-to-green hydrogen production units and renewables synthetic fuel facilities. Republic Services

announced that one

of these hydrogen production facilities, which is combustion free, is slated for Richmond's West Contra Costa Sanitary Landfill.

Starting in 2022, Raven plans to process up to 99.9 tons of organic waste per day to produce up to 2,000 tonnes per year of green hydrogen in Richmond.

powered by the sun

MCE Clean Energy and Chevron are planning to transform the Solar One site, located on Chevron Richmond land, into a solar-powered green hydrogen facility. If fully approved and converted, the Richmond Green Hydrogen One project is designed to have the capacity to produce 1,000 kilograms of renewable hydrogen per day.

"As mayor of Richmond and chair of MCE's Board of Directors, I can say with the highest confidence that our community is ready and committed to generating 100% renewable hydrogen."

—Richmond Mayor Tom Butt

"I support the opportunity to advance California's investment in emissions-free green hydrogen technology in the City of Richmond. This project will help power our zeroemission transportation system."

—Contra Costa County Supervisor John Gioia

advancing a lower carbon future in richmond

We're working to reduce the carbon intensity of our operations and assets and holding ourselves accountable to delivering measurable results.

Chevron is working to advance the global net-zero ambitions of the Paris Agreement. We are increasing the use of renewables in a number of our products, with the goal to reduce life cycle emissions, in an effort to help our customers achieve their own lower carbon goals.

Partnerships and the innovation behind them are helping Chevron to develop more energy with less lifecycle carbon emissions.

“Chevron is excited to help lead the energy transition in Richmond. We believe the future of energy is lower carbon, and we support the global net zero ambitions of the Paris Agreement.”

—Mauricio Molina,
Strategic Planning Manager,
Chevron Richmond



CalBio

A cleaner way forward by harnessing manure from California dairy farms. Chevron is partnering with California Bioenergy (CalBio) and California dairy farmers to produce and market dairy biomethane as renewable natural gas. This venture is helping protect the environment by converting methane – a greenhouse gas – to renewable natural gas, providing a renewable energy source, and comply with low-carbon fuel regulations.

“We all live on the same planet, and to shape a lower-carbon future for all, we all must find solutions that can move society in total.”

—Bruce Niemeyer,
Vice President, Strategy &
Sustainability, Chevron

carbon capture

Chevron invested in a Silicon Valley-based startup, Blue Planet Systems, that manufactures and develops a variety of carbon capture technologies. Blue Planet is building a plant in Contra Costa County that seeks to capture and sequester carbon dioxide in concrete building materials. The Chevron Technology Ventures Future Energy Fund which focuses on innovation with potential to play a critical role in the future energy system, made the investment in blue planet.



the birthplace of innovation

A critical part of Chevron's history is the Richmond Technology Center, which developed some of the world's most significant energy innovations.

The Technology Center is the birthplace of iconic innovations that have helped push oil and fuel additive industries to new heights in quality, durability and efficiency.

RTC developed the fuel used in the first solo trans-Atlantic flight by Charles Lindbergh and the first diesel engine oil that could be run in any diesel engine. Perhaps one of RTC's greatest achievements was the development of Techron, which was developed in 1979 as the first patented additive developed for engines running unleaded gasoline.

Today, Chevron scientists at the Technology Center continue developing products to maximize fuel efficiency and help develop alternative energies to power the earth such as alternative and renewable fuels, including biofuels and solar, wind and geothermal power.

Located adjacent to the refinery, RTC provides jobs for 1,200 people, including 170 PhD. scientists. The team works on research projects that equips nearly 40% of all refineries around the world with innovative technology solutions.



1917 Standard Oil, Chevron's predecessor, develops Red Crown aviation gasoline, the first gasoline in the U.S. specifically designed for aviation use. Red Crown powers the aircraft that Charles Lindbergh flies across the Atlantic.

1941 Richmond powers the World War II effort and expands its 100-octane gas production to meet a need for efficient aviation fuel. New compounds enable U.S. Navy submarines to triple their cruising range.



1995 Scientists at RTC develop ISOC-RACKING technology, a process that uses chemical catalysts to rearrange the crude oil molecules and convert them into high-value products such as gasoline and jet fuel.

2007 Two Chevron employees, including one from RTC, are part of the intergovernmental Panel on Climate Change (IPCC) team that shares the Nobel Peace Prize for work related to combating climate change.



2021 Chevron scientists continue developing products to maximize fuel efficiency and help develop alternative energies to power the earth such as alternative and renewable fuels, including biofuels and solar, wind and geothermal power.



learn more

If you are interested in learning more or continuing the conversation, we welcome you to engage with us on social media or to sign up for our newsletter.



email us

RichmondRefineryInfo@chevron.com



newsletter

Stay connected – [sign up](#) for our email newsletter.



general call line

For general inquiries and information,
call (510) 242-2000.



noise & odor hotline

Report unusual noises or odors that may be
coming from the refinery, call (510) 242-2127.