# Bridging the Gap: Refinery Community Just Transition Planning & State Policymaking

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## A Legacy of Environmental Racism: Health Inequities in Refinery Communities





"The communities near refineries frequently comprise low-income families and people of color, who bear the brunt of the air pollution from refinery operations. Additional health risks of compromised air quality can lead to a higher incidence of respiratory issues, cardiovascular diseases, and other health problems."

CEC Transportation Fuels Assessment (2024), p. 52

Frontline communities are **regularly exposed** to toxic refinery pollutants known to **cause cancer**, **reproductive** and **developmental harms**, and more.

OEHHA, Analysis of Refinery Chemical Emissions and Health Effects (2019) p. 20–27

## 2012 Chevron Richmond Refinery Fire Sends 15,000 to Hospital



#### **Chevron Richmond Refinery: 2012 Fire**

"Had the crude unit been shut down when the leak was first noticed, the massive fire would not have occurred, the 19 workers would not have been in danger, and the community would've been protected."

US Chemical Safety Board



## Local Visioning, Analysis, and Organizing in Richmond



**Taking Stock: Visioning Beyond the Refinery**, UC Berkeley Othering and Belonging Institute, August 2022.

CALIFORNIA

California city's \$550m deal with Chevron could be a national model for environmentalists



"Let us not be Detroit, when the auto industry crashed," said Councilmember Doria Robinson. "We know the state of California has a mandate to stop selling combustion-fueled cars. That is going to impact the auto industry."

## Contra Costa County High Road Training Partnership (HRTP)



#### **Labor and EJ in Contra Costa County**

- Partnership formed in 2020.
- Building on decades of trust and collaboration on refinery safety and accountability advocacy.
- 3+ years to develop Worker and Community-Centered Regional Policy Recommendations



### Los Angeles Just Transition Task Force (Oil Extraction)

#### <u>City and County-Led</u> <u>Strategy</u>

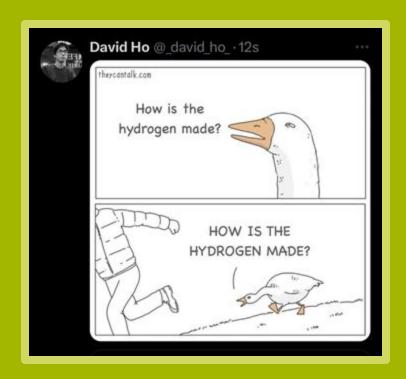
In 2021, the Just Transition
Task Force was established
by the City and County of
LA Chief Sustainability
Offices to implement their
2019 "fossil fuel free"
sustainability plans.

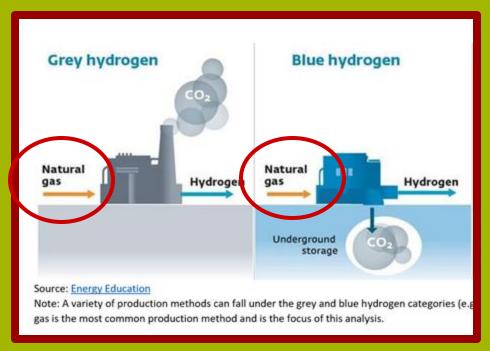
The strategic planning effort was funded by the Just Transition Fund, from their experience supporting economic transition in coal-supported communities.



#### LA County-City Just Transition Task Force TASK FORCE MEMBERS

Dilay Akcora Student University of Southern California	Joël Barton Business Manager/Financial Secretary IBEW 11	Mijin Cha Assistant Professor, Urban and Environmental Policy Occidental College
Mary Collins Program Manager: Just Transition Governor's Office of Planning and Research	Ted Cordova Vice President E&B Natural Resources	Monica Embrey Senior Associate Director of National Energy Campaigns Sierra Club
Behram Fazeli Director of Research and Policy Communities for a Better Environment; Co-Chair, STAND LA	Chris Hannan Executive Secretary LA/OC Building & Construction Trades Council	Lisa Hart Soard Member City of Los Angeles Neighborhood Council Sustainability Alkanoe
Vince Holguin Councilman Gabrietino Tongka Indian Tribe	Miguel Luna Environmental Project Director Pernanderlo Tataviam Band of Mission Indians	Angela Mooney D'Arcy Executive Director Sacred Places institute for Indigenous Peoples
Ryan Nordness Cultural Resource Analyst Yuhaawatam of San Manuel Nation	Uduak-Joe Ntuk Oir and Ges Supervisor CA Geologic Energy Management Division	Marcela Olivs Professor Los Angeles Trade Technical College
Heather Pearce Director of Land Development Sentinel Peak Resources	Michele Prichard Senior Director of Strategic Initiatives Liberty Hill Foundation	Amisha Rai Managing Director Advanced Energy Economy
Norman Rogers 2nd Vice President USW Local 676	Eric Romann STAND-LA Coalition Coordinator Physicians for Social Responsibility Los Angeles	Joe Shea Assistant Cabinet Deputy Office of the Governor
Patty Senecal Director, Southern California Region Western States Petroleum Association	Taylor Thomas Co-Director East Yard Communities for Environmental Justice	Melanie Traxler Contract Project Managery/Planner Culver City: Principal at Planning PLUS/P+
Veronica Wilson California Diganizer Labor Network for Sustainability	Pete Wohlgezogen President UA Local 250	Carol Zabin Director, Green Economy Program UC Benteley Labor Center





"NATURAL" GAS = FOSSIL GAS

"Renewable
Hydrogen" via
purchase of
"environmental
attributes"



"Renewable hydrogen pathways produced by steam methane reformation at the Air Products & Chemicals Wilmington facility using book-and-claim accounting for biomethane (RNG)"

Low Carbon Fuel Standard (LCFS) Refinery Investment Credit Program



#### LOW CARBON FUEL STANDARD

Refinery Investment Credit Program Application

#### Staff Summary

Chevron Richmond Refinery Modernization Project Chevron Richmond Refinery, Richmond, California

Date of Initial Application: 07/06/2020, Date of Final Application: 03/11/2021,
Date Posted for Public Comment: 03/19/2021, Date Approved: 03/30/2021

#### **Project summary**

Under the Low Carbon Fuel Standard (LCFS), applicants may generate credits for various projects that result in GHG reductions at refineries. Chevron Products Company, a division of Chevron U.S.A. Inc. (Chevron) has applied to receive credits under the Refinery Investment Credit Program (Section 95489(e)) of the Low Carbon Fuel Standard based on GHG reductions achieved through process improvements of the hydrogen plant at the Chevron Richmond Refinery in 2019.

In 2019, the Richmond Refinery Modernization Project (RMP) was implemented to replace a 1960s era hydrogen plant with one that is more energy efficient. The major components of the hydrogen plant upgrade include:

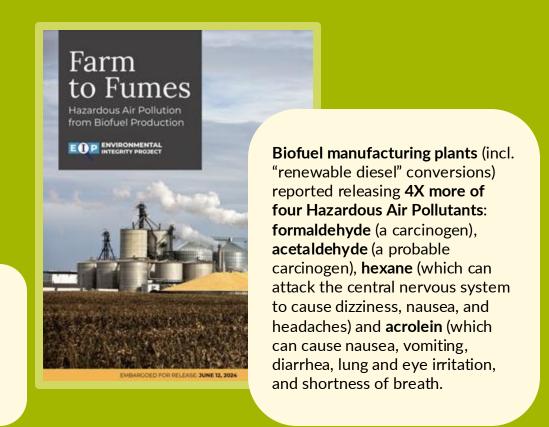
 Steam methane reforming (SMR) units were replaced by new modern SMR units to produce hydrogen. The new SMR units allow for a lower feed steam to carbon ratio, which results in reduced reformer furnace duty, less heat loss and improved waste heat recovery efficiency. In addition, improved heat integration and air preheat result in lower stack temperatures, improved furnace design and control also lower excess O<sub>2</sub>, which reduce the amount of duty required in the reformer furnace.



#### Biofuels are a Hazardous Environmental Health Threat



"The Third Report concludes [the effect of the RFS]...had a modest negative effect on the environment [including] air and water quality, water quantity, ecosystem health and biodiversity, soil quality, invasive species, and international impacts..."



## State Transportation Fuels Transition Plan: Still Pending

"While the impact of short-term policies to address price spikes on the longevity of refinery operations remains uncertain, it is imperative to acknowledge and consider the public health and safety risk of prolonged refinery activity and increased production."

Transportation Fuels Assessment, p.



Photo credit: Communities for a Better Environment (CBE), taken from the school playground of CBE members in Wilmington

#### Summary: EJ Strategies for a Just Refinery Transition

#### **Early Investments**

- Making polluters pay for one-time, short/medium-term investments to support long-term, climate resilient public infrastructure and economic diversification to reduce dependence; proactive savings for tax base decline and replacement
- Fund pilots, collaborative forums, and locally-rooted partnerships between community, labor, and all levels of government
- Prioritize *increased* funding for *equitable demand-side* strategies

#### **Regulatory Action Needed**

- Coordinated, whole-of-government approach to empower communities+workers with clear timelines, notice, resources in the transition away from fossil fuels
- Immediately enact policies to empower community voice in redevelopment of their neighborhood, and secure financial transition support for workers;
- Strengthen regulations to reassess site contamination with enforceable and adequate financial assurances for land and groundwater remediation;
- Strengthen health and safety protections during refinery transition periods;
- Reject polluting industries and/or remove subsidies that would entrench disproportionately high cumulative pollution burdens.