



**CALIFORNIA
ENERGY COMMISSION**



California Energy Commission

STAFF REPORT

Localized Health Impacts Report

**Addendum 1 for Selected Project
Awarded Funding Through the Clean
Transportation Program Under
Solicitation GFO-21-605 — Zero-
Emission Transportation Manufacturing**

December 2022 | CEC-600-2022-061-AD1



California Energy Commission

Benjamin Tuggy
Primary Author

Pilar Magaña
Commission Agreement Manager

Charles Smith
Branch Manager
TRANSPORTATION INTEGRATION AND PRODUCTION BRANCH

Hannon Rasool
Director
FUELS AND TRANSPORTATION DIVISION

Drew Bohan
Executive Director

DISCLAIMER

Staff members of the California Energy Commission (CEC) prepared this report. As such, it does not necessarily represent the views of the CEC, its employees, or the State of California. The CEC, the State of California, its employees, contractors, and subcontractors make no warrant, express or implied, and assume no legal liability for the information in this report; nor does any party represent that the uses of this information will not infringe upon privately owned rights. This report has not been approved or disapproved by the CEC nor has the Commission passed upon the accuracy or adequacy of the information in this report.

ADDENDUM 1

The Localized Health Impacts Report (LHI Report) for Grant Solicitation GFO-21-605 was posted October 14, 2022 (CEC-600-2022-061).¹ This addendum uses the same approach to assess the localized health impacts for a project with location changes. (In some cases, CEC staff describes changes in an “LHI Report Revision.” When project changes require new location analysis, however, staff releases an “LHI Report Addendum” with a new 30-day public comment period.)

The GFO-21-605 awardee Symbio North America Corporation (Symbio) proposes to replace the planned facility in Escondido with a new location in Temecula. The company plans to upgrade an existing facility at this location. The revised location is described in Table 1, along with environmental justice (EJ) indicators.

Table 1: Details of Revised Project Location Along With EJ Indicators

Awardee	Project Title	Revised Site Location	EJ Indicators for
Symbio North America Corporation	Symbio One — California Hydrogen Fuel Cell Manufacturing and Training Facility	42613 Avenida Alvarado Temecula, CA 92590	Minority

Sources: CEC staff, Google Maps

Air Quality and EJ Indicators

High-risk community project locations are identified using data from the California Air Resources Board (CARB), the U.S. Census Bureau, and other public agencies. The data are analyzed to assign EJ indicators for each project location, as shown in Table 1 with further detail in Table 2. The proposed project location must meet a two-part environmental and demographic standard to be considered in a “high-risk community.”

Part 1: Environmental Standard

Communities meet the environmental standard if they have a high concentration of air pollutants. These pollutants include ozone, particulate matter 2.5 microns in diameter or less (PM_{2.5}), or particulate matter 10 microns in diameter or less (PM₁₀). The environmental standard uses CARB air quality monitoring data on nonattainment² status for these pollutants.

1 Tuggy, Benjamin. October 14, 2022. [Localized Health Impacts Report: Selected Projects Awarded Funding Through the Clean Transportation Program Under Solicitation GFO-21-605 — Zero-Emission Transportation Manufacturing](https://www.energy.ca.gov/publications/2022/localized-health-impacts-report-selected-projects-awarded-funding-through-clean-4). California Energy Commission, Fuels and Transportation Division. Publication Number: CEC-600-2022-061. Accessed December 9, 2022. Available at <https://www.energy.ca.gov/publications/2022/localized-health-impacts-report-selected-projects-awarded-funding-through-clean-4>.

2 A *nonattainment* area is a geographic area that does not meet state and/or national Ambient Air Quality Standards for a given pollutant. See [“Maps of State and Federal Area Designations.”](https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations) California Air Resources Board. Accessed October 20, 2022. Available at <https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations>.

Part 2: Demographic Standard

Communities meet the demographic standard if they have two or more EJ indicators for minority, age, poverty, and unemployment. Staff defines the EJ indicator thresholds as:

1. A minority subset represents more than 30 percent of a given city's population.
2. The percentage of people living in a city who are younger than 5 years of age, or who are 65 years of age or older, is more than 1.2 times (more than 20 percent higher than) the state average for those age categories.
3. A city's poverty rate exceeds the state average poverty rate.
4. The city (or county if city data are unavailable) unemployment rate exceeds the state average unemployment rate.

The demographic standard uses the U.S. Census Bureau's American Community Survey five-year estimates³ on race, ethnicity, age, and poverty, and the California Employment Development Department's monthly data⁴ on unemployment. Specifically, this LHI Report Addendum uses city-level⁵ unemployment data. Unemployment data are not seasonally adjusted.

Analysis Results

Using 2020 data,⁶ the revised project location meets the environmental standard since it is within a nonattainment zone for ozone, PM_{2.5}, or PM₁₀. This finding indicates that there may be existing poor air quality around the proposed project location.

However, the revised project location does not meet the demographic standard since it does not exceed the threshold for two or more EJ indicators (Table 2). Therefore, the revised location is not considered to be in a high-risk community.

In Table 2, a **bold** number followed by an asterisk (*) indicates categories that exceed a given EJ indicator threshold. A city/county name in **bold**, followed by a dagger (†), indicates a high-risk community.

3 American Community Survey Codes DP05 and S1701 were used to find data. See "[Explore Census Data](#)." U.S. Census Bureau. Accessed October 20, 2022. Available at <https://data.census.gov/cedsci/>.

4 Overview page with data from most recent and previous months: "[Unemployment Rate and Labor Force](#)." Employment Development Department. Accessed December 6, 2022. Available at <https://labormarketinfo.edd.ca.gov/data/unemployment-and-labor-force.html>.

5 Most recent data only: "[Monthly Labor Force Data for Cities and Census Designated Places \(CDP\)](#)." Employment Development Department. Accessed October 20, 2022. Available at <https://labormarketinfo.edd.ca.gov/file/lfmonth/allsubs.xls>.

6 "[Maps of State and Federal Area Designations](#)." California Air Resources Board. Accessed October 20, 2022. Available at <https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations>.

Table 2: EJ Indicators by Project Location City Demographic

Site Location	American Indian and Alaska Native (2020)	Asian (2020)	Black or African American (2020)	Hispanic or Latino (Any Race) (2020)	Native Hawaiian and Pacific Islander (2020)	Under 5 Years of Age (2020)	65 Years of Age and Over (2020)	Below Poverty Level (2020)	Unemployment (October 2022)
California	0.8%	14.8%	5.7%	39.1%	0.4%	6.1%	14.3%	12.6%	3.8%
EJ Indicator Threshold	30%	30%	30%	30%	30%	7.3%	17.2%	12.6%	3.8%
Temecula	0.3%	9.3%	4.5%	30.1%*	0.5%	7.0%	10.5%	7.2%	3.0%

Sources: CEC staff, Employment Development Department, and U.S. Census Bureau

Location Analysis Summary

The proposed project location is assessed according to the original LHI method. The assessment shows that the proposed project location is not within a high-risk community. Staff anticipates that the community impacts will remain neutral to positive, in terms of cleaner air and reduced greenhouse gases.

Public Comment

As provided by Title 13 CCR Section 2343, a 30-day public review period applies to this LHI Report Addendum from the date it is posted on the CEC website. The [original posting date for this report](https://www.energy.ca.gov/programs-and-topics/programs/clean-transportation-program/localized-health-impacts-reports) is at <https://www.energy.ca.gov/programs-and-topics/programs/clean-transportation-program/localized-health-impacts-reports>.

The CEC encourages comments by email. Please include your name or organization's name in the name of the file. Send comments in either Microsoft® Word format (.doc) or Adobe® Acrobat® format (.pdf) to FTD@energy.ca.gov.

The public can email comments to FTD@energy.ca.gov or mail a hard copy to:

California Energy Commission
Fuels and Transportation Division
715 P Street, MS-44
Sacramento, CA 95814-5512

All written comments will become part of the public record and may be posted to the Internet. News media should direct inquiries to the Media and Public Communications Office at 916-654-4989 or by email at mediaoffice@energy.ca.gov.