

California Energy Commission STAFF REPORT

LOCALIZED HEALTH IMPACTS REPORT

Addendum 6 for a Project With a Location Change Awarded
Funding Through the Alternative and Renewable Fuel and Vehicle
Technology Program Under Solicitation PON-13-607 – Hydrogen
Refueling Infrastructure



CALIFORNIA
ENERGY COMMISSION

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ADDENDUM 6

The *Localized Health Impacts (LHI) Report for Selected Projects Awarded Funding Through the Alternative and Renewable Fuel and Vehicle Technology Program Under Solicitation PON-13-607-Hydrogen Refueling Infrastructure* was posted June 19, 2014 (CEC-600-2014-007)¹.

Table 1 lists the original and newly proposed address, environmental justice² indicators, and new surroundings. This addendum refers to the original *LHI* as it applies the same localized health impacts assessment method, as well as Addendum 2³, for one project, for a new site, for one of the stations in the HyGen Industries’ project “100% Renewable & Sustainable Carbon-Free Hydrogen Fueling Station Network,” as shown in Table 1.

Table 1: Original and Proposed New Site Location for Hygen Industries Inc. With Environmental Justice Indicators and New Surroundings

Original Site Location	New Site Location	EJ Indicators for New Location	Surroundings for New Location (within 1-mile radius)
17301 Pacific Coast Highway Pacific Palisades, CA 90272	5957 Vineland Avenue North Hollywood, CA 91601	Poverty, Minority, and Unemployment	5 schools, 10 day care centers, and no medical offices/hospitals

Source: Energy Commission staff analysis

1 Brecht, Patrick, 2014. *Localized Health Impacts Report*. California Energy Commission, Fuels and Transportation Division. Publication Number: CEC-600-2014-007.

2 The EJ indicators follow: (i.) minority subset represents more than 30 percent of a given city’s population (2010), (ii.) city’s poverty exceeds California’s poverty level of 15.9 percent (2009-2013), (iii.) city’s unemployment rate exceeds California’s unemployment rate of 5.5 percent as of February 2016, and (iv.) city’s percentage of persons younger than 5 years of age or older than 65 years of age is 20 percent higher than then California’s average. Note: For the entire state, the percentage of persons under the age of 5 years is 6.8 percent, and the percentage of persons over the age of 65 years is 11.4 percent.

3 Brecht, Patrick, 2014. *Localized Health Impacts Report*. California Energy Commission, Fuels and Transportation Division. Publication Number: CEC-600-2014-007-AD2.

Air Quality and EJ Indicators

The original and the newly proposed location sites are both in nonattainment zones for ozone, particulate matter (PM⁴) 2.5 and PM 10. The original Pacific Palisades location has no EJ indicators. The new proposed North Hollywood (Los Angeles city) location has three EJ indicators. If a project site is in a nonattainment zone and has more than one environmental justice EJ indicator, as shown in Table 2, it is considered a high-risk community, according to the Environmental Justice Screening Method⁵. Therefore, the North Hollywood location for HyGen Industries is considered a high-risk community.

Table 2: EJ Indicators Compared With California
Yellow highlighted areas indicate numbers that meet the definition for EJ indicators.

	Persons Below Poverty Level (2009-2013)	Black persons (2010)	American Indian and Alaska Native (2010)	Persons of Hispanic or Latino Origin (2010)	Asian (2010)	Persons Under 5 Years of Age (2010)	Persons Over 65 Years of age (2010)	Unemployment (February 2016)
California	15.9%	6.2%	1.0%	37.6%	13.0%	6.8%	11.4%	5.5%
EJ Indicators	>15.9%	>30.0%	>30.0%	>30.0%	>30.0%	>8.16%	>13.8%	>5.5%
North Hollywood (Los Angeles City)	22.4%	9.6%	.07%	48.5%	11.3%	6.6%	10.5%	5.8%

Sources: Unemployment information from the State of California, Employee Development Department (EDD) Labor Market Information Division: http://www.labormarketinfo.edd.ca.gov/CES/Labor_Force_Unemployment_Data_for_Cities_and_Census_Areas.html and Demographics information from the U.S. Department of Commerce, U.S. Census Bureau: <http://quickfacts.census.gov/qfd/states/06/0622594.html>

Location Analysis and Community Impacts

Based on staff's assessment of the proposed new site location in North Hollywood, it is anticipated that the surrounding community will not be disproportionately impacted by the implementation of the project. The proposed project will produce 100 percent renewable hydrogen using an on-site electrolyzer. Staff expects that air quality at and near the proposed site will improve over time because there will be no emissions from the refueling station. It is anticipated that there will be reduced greenhouse gas emissions as a result of the Fuel Cell Electric Vehicles (FCEVs) refueling at the station. The approval and subsequent construction of the station will support a growing number of FCEVs.

4 "Particulate matter" is unburned fuel particles that form smoke or soot and stick to lung tissue when inhaled.

5 California Air Resources Board (ARB), *Air Pollution and Environmental Justice, Integrating Indicators of Cumulative Impact and Socio-Economic Vulnerability Into Regulatory Decision-Making*, 2010. (Sacramento, California) Contract authors: Manuel Pastor Jr., Ph.D., Rachel Morello-Frosch, Ph.D., and James Sadd, Ph.D.