



HUMBOLDT COUNTY ASSOCIATION OF GOVERNMENTS
Regional Transportation Planning Agency
Humboldt County Local Transportation Authority
Service Authority for Freeway Emergencies
611 I Street, Suite B
Eureka, CA 95501
(707) 444-8208
www.hcaog.net

AGENDA ITEM 5a
HCAOG Board Meeting
September 17, 2026

DATE: September 9, 2026
TO: HCAOG Policy Advisory Committee (PAC)
FROM: Stephen Luther, Senior Regional Planner
SUBJECT: **Siting Analysis for North State Hydrogen Fuel Station Network**

PRESENTATION

HCAOG retained the consulting services of RebelGroup Americas and GTI Energy, funded through a Caltrans Rural Planning Assistance Discretionary Grant, to conduct this study. The project ran from September 2025 through September 2026. HCAOG staff led coordination, with input from HTA Transit Planner Jerome Qiriazzi, the North State Super Region (NSSR) Transit Working Group, and regional transit operators.

The consultant team analyzed where to site hydrogen fueling stations to serve transit and freight vehicles across the North State Super Region (NSSR). Using network modeling, they developed candidate station networks, validated them through stakeholder engagement, and applied a micro-siting case study to test site-level selection criteria.

The study covers the eight-county NSSR, including Humboldt, Del Norte, Trinity, Mendocino, Lake, Tehama, Butte, and Nevada Counties. Modeling repeatedly identified Redding, Butte County, Lake County, Tehama County, Mendocino County, Nevada County, and the Redwood Coast as leading candidate locations because of their combination of transit demand and freight corridor access.

Battery-electric buses can't meet all rural operational needs, making hydrogen essential for some NSSR fleets. Because no prior regional planning existed for a coordinated fueling network, the study recommends a phased, demand-aggregating approach across jurisdictions. It also outlines near-term steps around agency transition plans, freight demand, and shared-infrastructure business models, given the region's large geography, small transit agencies, and limited existing hydrogen supply.

Representatives from RebelGroup will be presenting the results of this analysis.