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Fleet-scale Onsite Biomass Conversion to Hydrogen with CO2 Capture and Sequestration

Hydrogen Refueling Concept: Should this concept include support for onsite, direct renewable hydrogen production? Which production technologies should be eligible, at what minimum production capacity, and at what funding level?

Yes, please include support for onsite, direct renewable hydrogen production.

We recommend that conversion technology for zero-low emission biomass gasification of agriculture and forest (wildfire fuels reduction) waste biomass to transportation grade hydrogen should be eligible. Other pathways may be made eligible but we recommend an emphasis on technologies that can operate 24x7 without meaningful (up to zero) electric grid power requirement.

We believe that hydrogen hubs should be built at the heavy duty fleet vehicle scale on site or adjacent to existing fueling infrastructure in ex-urban and rural areas of California. Why not support the use of organic waste streams at the point of a meaningful hydrogen requirement? Target 1,000 to 5,000 kg per day at a cost of ~\$2.00 per kg. These H2 hub stations can also be easily upgraded with the addition of fuel cell electric generation in support of rapid charging EV infrastructure.

Recommend up to \$2 million per commercial pilot.

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