Congress of the United States Washington, DC 20515

December 7, 2023

The Honorable Janet Yellen Secretary U.S. Department of the Treasury 1500 Pennsylvania Avenue NW Washington, D.C. 20220 Ethan Zindler Climate Counselor U.S. Department of the Treasury 1500 Pennsylvania Avenue NW Washington, D.C. 20220

Dear Secretary Yellen and Climate Counselor Zindler:

Thank you for your leadership in implementing the Inflation Reduction Act (IRA), America's most powerful response to the civilizational threat of climate change. Our climate goals are now within reach, and in these crucial years ahead, the stakes could not be higher. Already, every region in the U.S. is experiencing the increasingly harmful effects of climate change, according to the recently released Fifth National Climate Assessment. In order to limit future warming and avoid irreversible ecological damage, we must make rapid and deep reductions in greenhouse gas emissions. The IRA's incentives for clean hydrogen and other emerging technologies offer great promise in reducing emissions in difficult-to-decarbonize sectors. As the administration finalizes rules for the IRA's 45V Clean Hydrogen Production Tax Credit, we strongly urge you to ensure that the guidance results in a net decrease in greenhouse gas emissions.

As policymakers, we must be attentive to the negative consequences of weak 45V rules for hydrogen production, which would imperil our climate goals and lead to significant U.S. emissions increases, including from Regional Clean Hydrogen Hubs recently announced by the Department of Energy. Hydrogen production is extremely energy intensive, and absent strong rules, clean hydrogen production could result in emissions that are equivalent to running 26 more coal plants, taking us in precisely the wrong direction in our transition to clean, renewable energy. Strong rules will allow the U.S. to harness hydrogen's most promising climate, health, and economic benefits, setting up our domestic clean hydrogen industry for long-term success. That is why scientists, clean energy and forward-thinking companies, consumer advocates, climate groups, state legislators, and environmental justice advocates across the country have voiced their support for strong rules for the 45V credit.

We are troubled by competing efforts to weaken the administration's guidance on electrolytic hydrogen production, which would put communities' health at risk, increase electricity prices,

¹ https://nca2023.globalchange.gov/

² https://blog.ucsusa.org/julie-mcnamara/without-sufficient-guardrails-the-hydrogen-tax-credit-could-increase-emissions/

³ https://greenh2catapult.com/2023/11/06/joint-letter-on-45v-implementation/

⁴ https://www.citizen.org/wp-content/uploads/Consumer-Advocates-45V-Letter.pdf

⁵ https://www.actonclimate.com/wp-content/uploads/2023/10/CAC-Hydrogen-Principles.pdf

⁶ https://www.ncelenviro.org/app/uploads/2023/06/State-Legislative-Sign-On-Letter-re_-IRA-45V-Clean-Hydrogen-Tax-Credit-Revised.pdf

⁷ https://subscriber.politicopro.com/f/?id=0000018b-d509-deac-a19b-f58907a60000

and amplify public distrust in hydrogen as a climate solution.^{8,9,10,11} It is critical that we have a rigorous framework that captures the full climate impact of hydrogen production and provides an accurate accounting of lifecycle emissions across the hydrogen production pathway and avoids causing spikes in electricity prices for low and moderate-income Americans. Specifically, we urge the Department of Treasury to:

- Require that *all* electrolytic hydrogen projects —both grid-connected and behind-themeter projects—comply with the "three pillars" of 1) additionality; 2) deliverability; and 3) hourly time matching. To the extent that any phase-in of those rules is envisioned, it should <u>not</u> allow projects complying with weaker, early-stage rules to be grandfathered in. It bears emphasizing that here, discussion of the three pillars is specific to electrolytic hydrogen, not fossil fuel-derived or "blue"- hydrogen projects.
- Require the GREET model to accurately account for upstream methane leakage involved in fossil fuel-derived hydrogen projects. Methane is a highly potent greenhouse gas, and the GREET model currently assumes an average leakage rate of 1%, which is less than half of what scientists have observed nationwide and several times smaller than emissions rates in certain basins. Treasury should instruct the Department of Energy to adopt basin-specific estimates and update the nationwide default value to reflect the best available data.
- Prevent greenwashing of heavily polluting fossil fuel-based hydrogen projects by disallowing carbon-negative accounting of biomethane and prohibiting the use of carbonnegative fuels for offsetting or netting project lifecycle emissions. Without these changes, operators of current "grey" hydrogen projects, which are heavily polluting, could declare their processes "clean" without actually reducing emissions.
- Clarify that for all hydrogen projects, hydrogen emissions (e.g. from venting or purging) are not eligible to receive the 45V credit and should be accounted for in lifecycle emissions estimates and operational plans.

The climate, scientific and economic cases for adopting the three pillars are deeply compelling. The three pillars will support substantial electrolytic hydrogen deployment, while helping us meet our net-zero emissions goals, according to recent analysis by the Electric Power Research Institute (EPRI).¹⁶ This new study adds to a mounting pile of compelling evidence which

⁸ https://www.epri.com/research/products/00000003002028407

⁹ https://www.cbecal.org/wp-content/uploads/2023/10/Equity-Hydrogen-Initiative-Shared-Hydrogen-Position-1.pdf

¹⁰ https://energyinnovation.org/publication/consumer-cost-impacts-of-45v-rules/

¹¹ https://www.citizen.org/wp-content/uploads/Consumer-Advocates-45V-Letter.pdf

¹² https://www.science.org/doi/10.1126/science.aar7204

¹³ https://pubs.acs.org/doi/10.1021/acs.est.1c06458

¹⁴ https://www.canarymedia.com/articles/hydrogen/the-biomethane-boondoggle-that-could-derail-clean-hydrogen

¹⁵ https://blog.ucsusa.org/julie-mcnamara/biomethane-threatens-to-upend-the-clean-hydrogen-tax-credit/

¹⁶ https://www.epri.com/research/products/00000003002028407

irrevocably refutes the claim that rigorous rules will stifle U.S. hydrogen development.¹⁷ ¹⁸ The three pillars will also support job creation and economic opportunities for Americans by incentivizing the deployment of new utility-scale clean energy development and turbocharging the creation of a new U.S. advanced electrolyzer manufacturing base.

We look forward to working together as the administration implements IRA provisions. It is essential that the administration get the implementation of the 45V tax credit right –the climate, public health, consumer, reputational, economic, and legal harms are too great otherwise.¹⁹

Thank you again for your leadership as we work towards a clean energy future. Please do not hesitate to reach out to follow up should you have any questions.

Sincerely,

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Donald S. Beyer Jr.

Member of Congress

Eleanor Holmes Norton

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Alexandria Ocasio-Cortez

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¹⁷ https://zenodo.org/records/7948769

https://www.evolved.energy/post/45v-three-pillars-impact-analysis

https://www.nrdc.org/sites/default/files/2023-04/nrdc-catf-memo-ira-45v-legal-necessity-3-pillars-20230410.pdf

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Cc: Mr. John Podesta, Senior Advisor to the President for Clean Energy Innovation and Implementation; The Honorable Wally Adeyemo, Deputy Secretary of the Treasury; The Honorable Lily L. Batchelder, Treasury Department Assistant Secretary for Tax Policy; Mr. Seth Hanlon, Treasury Department Deputy Assistant Secretary for Tax and Climate Policy