

07/09/2021

Biofuels- an Under-funded Clean Electricity Resource to Accelerate Carbon Neutrality
Kolodji Corporation- Brian Kolodji

Dear Chair Randolph,

These public comments for the 2022 SB 32 Scoping Plan are shared with you from me as president and owner of the Kolodji Corporation, an energy carbon management firm whose goal it is to accelerate California's carbon neutrality to 2030, fifteen (15) years sooner than the mandated 2045 date, using technology held by the Black Swan, LLC intellectual property rights holding company which I also own. I want to start by thanking God for your leadership in California's government in saving the world from impending catastrophe due to climate change. I further want to thank God and His awesome breath for giving us life, rebirth through His son Jesus Christ, and His Spirit to which I account these gifts of innovation to enable a highly beneficial safe green nature based sustainable transition to carbon neutrality.

I wish to emphasize specifically regarding under-funding/ under-projection of renewable biofuels, which includes biomass, biogas, biodiesel, and bio-based gasoline, as only one of these is listed, specifically Biomass, as a clean electricity resource, with 0 GW projected New Resources for both 2030 and 2045, in the 2021 SB-100 Joint Agency Report Summary presented by CEC Project Manager Terra Weeks. All renewable biofuels are a clean electricity resource. Biofuels are the renewable energy solution that can most easily support transition from existing non-renewable fuel fired power plant facilities, especially biogas for conversion from existing natural gas fired power generation infrastructure here in California- please see attached related Kolodji Corporation keynote awarded presentation at the 2021 American Institute of Chemical Engineer's National Meeting.

With the advent of such Pre Oxy-Combustion (POC) Direct Air Capture (DAC) technologies; CO₂, water, and oxygen can be concentrated from air and fed to combustion systems, thus making the CO₂ and water from flue gas more concentrated and more capturable/usable, while also raising the fuel heating value and reducing fuel consumption. There is also the advent of recently patented (2020/21) beneficial uses for neat (CO₂ extracted without concentrating) flue gas CO₂ emissions such as commercialized Free Air Crop Carbon Dioxide Enrichment (FACE) technologies promoted by USDA and the Brookhaven National Laboratory for decades, and more recently by CDFA, that convert CO₂ in flue gas emissions to food and biomass to be used in biofuels, and allow for agricultural water savings/ production (see earlier submitted comments by Kolodji Corp.)

To support accelerated 100% clean electricity in California (Senate Bill 100) and mitigation of climate impacts, especially drought, there is a greatly needed acceleration of the use of Biofuels, promotion of pre oxy-combustion and direct air capture development/ implementation, as well as GHG use technologies. Thus, this is a request to specifically add all biofuels and these technologies to the portfolio for funding to promote biofuels as a clean electricity resource and solution to greatly accelerate to 100% clean electricity in the 2022 AB 32 Scoping Plan.

Respectfully submitted,

Brian Kolodji, PE

Kolodji Corporation