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Emerging Technologies

1. 1. How would you characterize the promise of your fuel/technology and what steps are required to achieve commercial availability?
The AWE technology is intended to convert biomass materials that would otherwise be landfilled. Our technology produces synthetic natural gas from biomass. It is efficient in converting biomass to renewable methane. Post-conversion leaves only a fraction of inputs as ash for disposal.
2. 2. What challenges might interrupt development and commercialization of your fuel/technology for any of the following areas:
a) a. Technology development - AWE technology is pre-commercial. Our development is to develop an initial project that is relatively small.
b) b. Project location Not a problem.
c) c. Pipeline injection - This is critical and is still under negotiation with pipeline companies.
d) d. Business model - AWE has done significant analysis for the business model relying on REPLICATION of the initial project and eventually SCALE UP projects of 5X to 10X.
e) e. Project financing- AWE is currently negotiating for seed funding in order to complete the development schedule. Critical factors here are to use seed funding for environment permitting, FEED and EPC deliverables. Once completed this will support Round A and B venture funding.
f) f. Institutional/regulatory - AWE understands that for the LCFS and RFS provide clear pathways for our synthetic natural gas project. Our projects require securing Offtake Agreements to support the sale of the produced methane. We don't believe this will present any regulatory risk.
g) g. Demand and vehicle availability - The current use of CNG and the trend of California to convert vehicles to use CNG produces strong demand for our product gas.
h) h. Related infrastructure - We don't anticipate any problems here.
3. What type of government action is required to support development and use of emerging fuels and technologies? One area of support would involve finding some acceptable, workable ways to offer long-term contracts for the LCFS permits. We arew aware that the ARB has been looking into using Contracts for Difference to allow support for stable, multi-year contracts for the monetization of LCFS permits. AWE urges ARB to look beyond the current CFD efforts or explore other policies to provide long-term stability topermit prices.
4. Can cost data be provided to the Energy Commission to support the cost-effectiveness and economic viability of your fuel/technology? AWE can provide cost information under an appropriate NDA. The cost and financial details of the technology are otherwise valuable commercial secrets.