Technical Assistance Request

To Whom It May Concern,

We are Totora FPV, a forward-thinking start-up dedicated to addressing the critical challenge of reservoir evaporation in the Western United States. Our innovative solution revolves around implementing floating solar technology to curtail water loss and promote sustainable water resource management. While we've made significant strides, we acknowledge the need for technical assistance in specific areas to further realize our solution's potential. We believe that the unique capabilities of the national labs, private facilities, and members of the American-Made Network can provide invaluable support in the following key aspects:

1. Advanced Solar Panel Integration: To maximize the efficiency and output of our floating solar systems, we seek assistance in the integration of cutting-edge solar panel technologies. This includes the development of custom solar panels designed for optimal performance in a floating environment. The expertise available through national labs and private facilities in the field of photovoltaics can significantly enhance the design and effectiveness of our solar panels, enabling us to harness more solar energy while simultaneously reducing water evaporation.

2. Environmental Impact Assessment: As part of our commitment to environmental sustainability, we aim to conduct comprehensive assessments of the ecological impact of our floating solar installations. We require assistance in conducting thorough environmental impact studies to ensure that our technology does not harm local ecosystems, water quality, or aquatic life. Collaboration with experts from the American-Made Network with expertise in environmental science and impact assessment would be instrumental in guiding our responsible deployment of floating solar systems.

3. Monitoring and Data Analysis: Accurate and real-time data monitoring is crucial for assessing the performance of our floating solar installations and their impact on water evaporation rates. We are seeking assistance in the development of advanced monitoring systems and data analytics tools. These tools will enable us to continuously collect and analyze data related to water levels, solar panel efficiency, and environmental factors. National labs and data analysis experts within the American-Made Network can provide invaluable guidance in creating robust monitoring and data analysis protocols.

4. Scalability and Optimization: To expand the adoption of our floating solar technology, we require assistance in optimizing the scalability of our systems. This includes refining the manufacturing processes, cost-effectiveness, and ease of deployment. Collaboration with experts in renewable energy, engineering, and scaling strategies from both the national labs and private facilities can help us streamline our production and installation methods, making our solution more accessible to a wider range of reservoirs and water bodies.

5. Policy and Regulatory Guidance: Navigating the complex landscape of policies and regulations related to renewable energy and water resource management is a critical aspect of

our mission. We seek assistance in understanding and complying with these regulations and identifying potential incentives or support mechanisms. The guidance of policy experts within the American-Made Network can help us navigate these intricacies effectively.

In summary, our vision at Totora is to combat reservoir evaporation in the Western United States through innovative floating solar technology. We believe that collaboration with national labs, private facilities, and members of the American-Made Network can significantly enhance our capabilities in areas ranging from solar panel integration and environmental impact assessment to data analysis, scalability, and regulatory compliance. We are eager to leverage the collective expertise and resources available within the American-Made Network to overcome these challenges and advance our mission for a more sustainable water future in the Western US.

Thank you for considering our request for technical assistance.

Sincerely,

Joel Cerny
Project Director
Totora FPV