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STACE Comments on LDS

See attached letter.

Additional submitted attachment is included below.

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April 26, 2022

California Energy Commission
1516 9th Street
Sacramento, CA 95814

RE: Workshop on Advancing Non-Lithium-Ion Long Duration Energy Storage Technologies

Dear CEC Staff,

Saint-Augustin Canada Electric Inc. (STACE), appreciates the opportunity to provide input on the Energy Commission's recent Workshop on Advancing Non-Lithium-Ion Long Duration Energy Storage Technologies.

STACE, formerly a General Electric Company (GE) business unit, is a global major supplier of power generation equipment for utilities. Founded in 1977, STACE specializes in the design and manufacturing of medium and high voltage equipment for power generation, including solar and energy storage. STACE owns and operates a solar farm in Newberry Springs, California. STACE has also developed an innovative solar solution called Agrivoltaics to support climate smart agriculture by deploying solar energy in combination with agriculture crops to improve yields while generating renewable electricity. In addition, STACE has developed a long duration, high-capacity flywheel energy storage solution to support California's efforts to decarbonize the electricity system.

STACE strongly supports the Governor's proposed investment in long-duration storage projects as part of the Clean Energy Package for the Fiscal Year 2022-2023 budget. STACE has also strongly supported the CEC's development of its EPIC investment plan and has supported the proposed strategic initiatives including "Creating a More Nimble Grid to Maintain Reliability as California Transitions to 100 Percent Clean Energy." As the Energy Commission develops its priorities for the upcoming funding, STACE supports including long-duration energy storage technology demonstration to support grid reliability, as well as Energy Storage Use Case Demonstrations on the customer and utility sides of the meter, and strongly encourages prioritization of these technologies in future EPIC solicitations.

There is a growing need to diversify energy storage options and seek solutions that are safe, abundant, and sustainable to help achieve California's environmental and energy policies and priorities. Innovative energy storage solutions are needed to help diversify California's customer side of the meter storage choices—especially for high energy users, such as commercial and industrial facilities. Development and demonstration of technologies better suited to long duration energy storage, such as high-capacity flywheels, will help California meet its 2045 energy goals by improving grid resilience and reliability, lowering costs, and increasing safety that will help accelerate the deployment of renewable energy

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combined with high-capacity energy storage to meet the needs of large customer energy users, such as commercial and industrial facilities.

Within these programs, STACE strongly supports including a definition of "long-duration storage" as storing energy for a minimum of 4 hours to include a broad-spectrum of energy storage solutions. In addition, STACE respectfully requests eligibility for comprehensive energy storage projects that include both non-lithium-ion technologies with commercially available lithium-ion technologies that will provide immediate, scalable, and cost-effective solutions to help accelerate California's transition to 100 percent clean energy.

STACE greatly appreciates the opportunity to provide support and input on the recent Workshop on Advancing Non-Lithium-Ion Long Duration Energy Storage Technologies and stand ready to work with the Commission to accelerate the deployment of renewable energy and energy storage technologies to help carry out the state's goals and objectives.

Sincerely,

Sebastien Arcand
Stace
VP – International Operations & Product Development