

DOCKETED

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Comment Received From: Sujen International LLC
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**Comments on Draft Utility-Scale Renewable Energy Generation
Technology Roadmap**

Additional submitted attachment is included below.

Date: February 14, 2020

California Energy Commission
Docket # 19-ERDD-01
Research Idea Exchange

Subject: Comments on Draft Utility-Scale Renewable Energy Generation Technology Roadmap

Sujen International LLC provides micro wind turbines solutions based on American Wind Inc. MicroCube™ (9" x 9" x 13" wind turbine), that can be configured by combining multiple units to generate the power needed. American Wind turbines will produce power even where traditional wind, and solar cannot due to limited land, low wind speeds and environmental restrictions and is very well positioned to deliver the listed use-cases. Simplicity in configuration of American Wind turbines, operation, and maintenance makes it feasible to be installed on a parking structures, roofs, factory chimney stacks, high rise buildings or an open wind farm. In light of our above product offerings, we feel the scope of the Land Based Wind Turbines and the Offshore Wind Turbine initiatives are too restrictive.

Initiative LBW.1: Advance Construction Technologies for Land-based Wind Turbines

Our wind turbine solution is positioned to meet this objective with installation costs of \$45,000 a 100 kWh Advanced WindWall, with a Capacity factor >40% and a lower LCOE, with a much small footprint needed than the best in class wind turbine solution. Our solution to meet the objectives of this initiative will not require new crane technology development or onsite 3D printing.

Accordingly, we ask for modification of the working of this initiative to reflect the option to demonstrate meeting the objectives of this initiative without the need for new crane technology development or onsite 3D printing.

Initiative LBW.2: Demonstrate New Blades that Improve Conversion Efficiency

Our innovative blade and generator designs will obviate the need for use of larger wind turbine blades to attain the desired conversion efficiencies of 35 – 50%. Our 100 kWh Advanced WindWall has a 30-year life and needs a footprint of 225 sq. feet and a height of no more than 40 feet and is made from a space aged material called AT2LAS. AT2LAS is non-conductive, non-corrosive, lightning resistant, and will not biofoul. The American Wind generator has a capacity factor of >50%.

Again, we ask for modification of the wording of this initiative to reflect the option to demonstrate meeting the objectives of this initiative without the need for new crane technology development or onsite 3D printing.



Sujen International LLC looks forward to working with the CEC to restart growth of California's wind production, new resource areas located in regions with treacherous terrain and to develop new offshore wind resources in order to meet SB-100 goals using our innovative wind turbines.

Sincerely,

A handwritten signature in black ink, appearing to read "Subhash Mendonca", with a long horizontal stroke extending to the right.

Subhash Mendonca
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