



Greenrock.org
Changing the Mindset



OFFSHORE WIND

Feasibility Study Series



WHY ARE WE INSPIRED?

At Greenrock, we envision a future for Bermuda where electricity is affordable, energy generation is renewable, and our distribution grid is both dynamic and reliable. A future where carbon emissions are drastically reduced and the associated health and property damages, that currently plague our community, are a distant memory. A future built on sustainable practices that keep us in harmony with mother nature and make us proud of the legacy we leave for generations to come.





HOW CAN WE MOVE FORWARD?

Produce industry-standard data and develop a comprehensive understanding of what is required to accelerate the deployment of affordable renewable energy in Bermuda.

WHAT ARE WE DOING?

Building on the progress made by the Bermuda Government and the Regulatory Authority, in considering offshore wind as a key potential element of a low carbon energy system for Bermuda by working with a UK-based engineering company, BVG Associates, which have over a decade of expertise in delivering offshore wind.



WHAT HAVE WE PRODUCED?

Together we have identified a series of feasibility studies that can be instrumental in helping us to understand the technical and financial feasibility of an offshore wind project in Bermuda. The study series has been carefully designed to methodically address the greatest areas of uncertainty around offshore wind by considering the following topics:



1 | Independent review of work carried out to date, including a comparison with offshore wind industry good practices, and the identification of priority actions required to help understand if offshore wind is viable for Bermuda

2 | Detailed cost of energy assessment, to determine, with confidence, the likely range of costs for electricity that could be delivered by an offshore wind farm in Bermuda. This is pending release and has revealed that a 60MW offshore wind farm could generate up to 40% of Bermuda's electricity, with a cost of generation that is around 30% less than the cost of generation from fuel oil.



3 | Spatial assessment, to complement existing work being done in this area by bringing more technical detail and an industry-standard approach to offshore wind development planning. This work will include several photomontages of turbines from different viewpoints.

4 | Wind speed and energy production analysis, to better understand Bermuda's wind resources and increase confidence in the expected cost of electricity generated by an offshore wind farm.

5 | Electricity system modelling, to understand how stable grid operation can be maintained, as intermittent renewable energy sources become the dominant form of generation

6 | Offshore wind roadmap, outlining step-by-step how an operational offshore wind farm can be delivered in Bermuda



If the outcome of these studies is successful, we also plan to initiate a **revenue-grade LIDAR (Light Detection and Ranging) wind data collection campaign**. LIDAR has emerged as a powerful tool for collecting precise, bankable data at a range of heights. Ideal for wind resource assessment, wind turbine optimization, and wind plant monitoring.

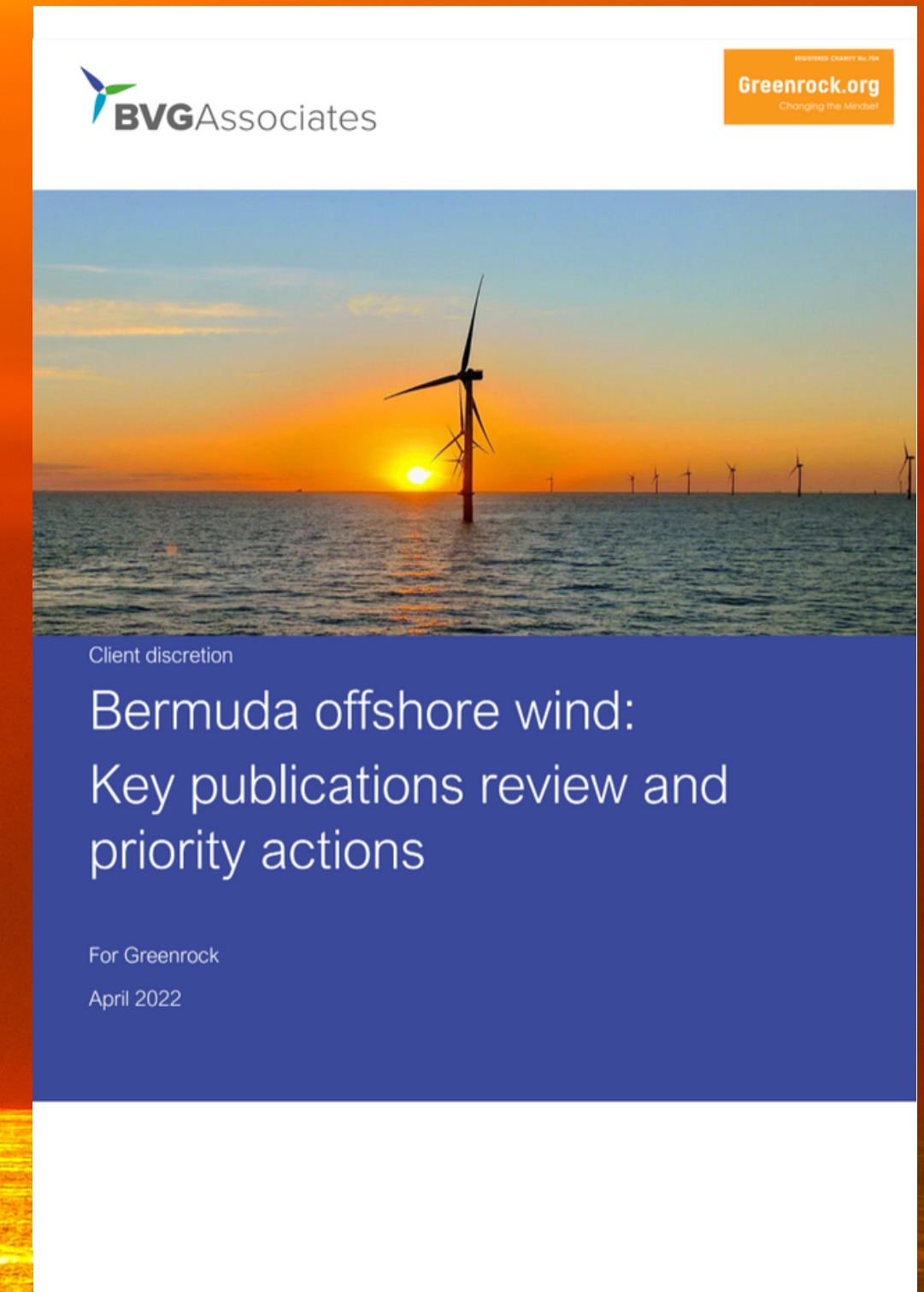


These studies can help to determine if offshore wind is technically and commercially feasible for Bermuda, how much electricity from offshore wind is likely to cost, and assuming it is feasible, they will also outline how Bermuda can deploy offshore wind in line with industry good practice.



The first of these studies has been completed and is available on our website for key stakeholders and the general public to review. The second is due to be published shortly.

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HOW CAN YOU GET INVOLVED?

This important work is only possible thanks to the tireless efforts of our active members, private contributions from our community, and generous donations from sponsors in the private sector.

We are very thankful for our existing sponsors, who have already contributed to making the work undertaken to date possible.

Additional sponsorship opportunities are now available and must be filled to ensure we can sustain the momentum we have generated and continue to progress this work with the urgency it deserves.



Sponsorship Opportunities



Bronze

\$1,000+

Name listed in study



Silver

\$5,000+

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Gold

\$10,000+

Logo on cover of study,
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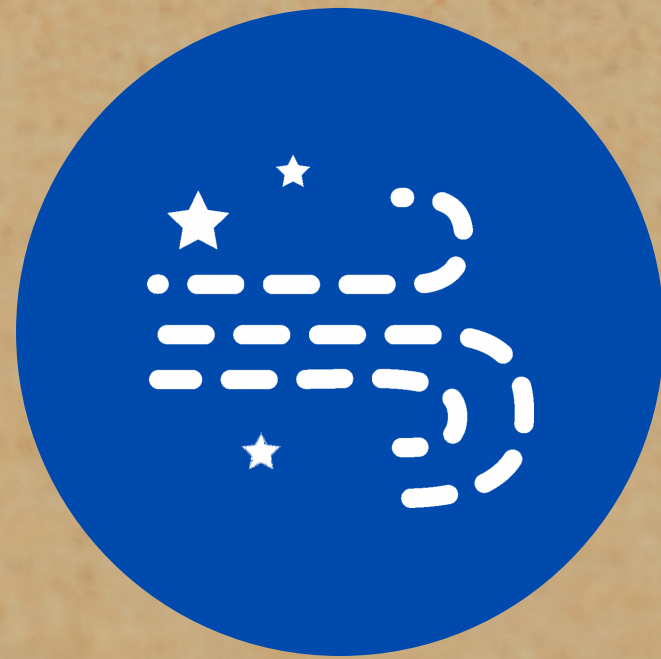


Platinum

\$20,000+

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Sponsorship Opportunities



Study Title

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Series Title

\$100,000+

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GET TO KNOW OUR TEAM



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