



*Written Submission for the Pre-Budget Consultations in Advance of the Upcoming
Federal Budget by Microgreen Solar Inc.*

Recommendations

Recommendation 1: That the government provide funding in the amount of \$45M for 2021-2025 for the Electric Vehicle Infrastructure Demonstration (EVID) program.

Body of Submission

Microgreen Solar Corp. appreciates the opportunity to participate in the Standing Committee on Finance's pre-budget consultation process for the 2021 federal budget. Our recommendation focuses on the Electric Vehicle Integration and Demonstration Program, administered by Natural Resources Canada. We ask that the federal government invest \$30M over the next four years to re-open the EVID program to existing and new applicants.

Introduction to Microgreen Solar

Microgreen Solar was incorporated in 2011 and is based in Richmond Hill, Ontario. Microgreen has been in business for nearly a decade, supplying custom-designed solar power and energy storage systems for residential and transportation applications.

Microgreen has been an innovation leader in the solar and storage segment of power electronics and has developed a series of consumer and commercial products used in vehicle and off-grid applications. Primary products include various models of Power Pak (wall-mounted off-grid power management system), Energy Pak (modularized battery storage plugging into Power Pak) and Backup Pak (grid-connected UPS). Microgreen provides solar power systems that feed its Power Pak family of products. Microgreen has customized its off-the-shelf systems for vehicle and marine transport uses, primarily to replace diesel generator usage. Recently, Microgreen added a larger containerized battery system that scales up its solutions for off-grid, commercial and utility applications.

Our Recommendations

The Electric Vehicle Integration Demonstration (EVID) program, administered through Natural Resources Canada, was established in Budget 2017. Budget 2017 allocated \$30M to the EVID program from April 1, 2018 to March 31, 2022 to continue to support demonstrations of next-generation and innovative electric vehicle (EV) charging infrastructure that address technical and non-technical barriers to the installation, operation and management of EV charging technologies. This program aims to accelerate the market entry of next generation clean energy infrastructure, by supporting demonstration projects of innovative EV charging and H2 refuelling technologies, which will lead to an increased uptake of ZEVs.

Microgreen Solar believes that the EVID program is a critical funding program for clean technology companies seeking to pilot and scale-up innovative EV charging infrastructure projects. We are asking the federal government to re-open the program with new funding to allow Microgreen Solar and others in the industry to continue to fund new and innovative projects related to the installation, operation and management of EV charging technologies.

We know that the EVID program saw considerable uptake from interested applicants and received more applications than funding could support. Re-opening the EVID program would allow for many shovel-ready projects that did not receive funding in the previous round to be considered, generating short-term economic benefit, as well as allow for new applicants to submit proposals.

Microgreen Solar's proposed project, "EV charging infrastructure with diagnostic functions", is an example of such a project that would benefit from a re-opened EVID program. The project would demonstrate intelligent charging systems that diagnose the State-of-Health (SOH) of an EV's battery each time it charges and can alert owners when their battery could

benefit from preventative maintenance. This can improve EV battery life, vehicle reliability and total cost of ownership, and so could contribute to improving adoption of EV's in Canada. The demonstration would include solar-powered charging stations to maximize GHG reductions and minimize impact on the local electrical grid.

Re-opening this program with new funding will support the launch of innovative new projects that will create jobs, ensure that Canada is ready for the increased demand for and use of electric vehicles, and position Canada as a global leader in the international electric vehicle industry – all contributing towards Canada's long-term economic recovery from the COVID-19 pandemic. We know that the EVID program is well-aligned with the government's broader economic and environmental objectives and will support the growth and scale-up of Canadian companies pursuing innovative projects in the EV space.

Conclusion

We thank the Members of the Standing Committee on Finance for their consideration of our pre-budget submission. We know that re-opening the Electric Vehicle Integration Demonstration program will support the development of next-generation and innovative electric vehicle infrastructure by Canadian companies, as part of Canada's economic recovery from COVID-19. We would welcome the opportunity to meet with Members and discuss our recommendations in greater detail.

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