

Opportunity Projects Program - 2022 Zero-Emission Vehicles Project Application Guide

The Opportunity Projects Program call for proposals in 2022 includes a special one-off opportunity for a zero-emission vehicle (ZEV) project in addition to PICS' regular broad ask for innovative climate mitigation or adaptation solution ideas.

The BC Ministry of Energy, Mines and Low Carbon Innovation (EMLI), has provided funding for the project under the Province's CleanBC - Go Electric Program, which is designed to encourage and accelerate the adoption of ZEVs for both environmental and economic benefits. Projects under this call for proposals are meant to provide research that will support the development of B.C.-based ZEV technology and related infrastructure. The following vehicles are considered ZEVs: battery-electric, plug-in hybrid electric, and hydrogen fuel cell.

The funds that have been provided for the ZEV project are meant to support collaborative research efforts to develop a highly skilled workforce and increase technology development in B.C. This is intended to support economic growth in the B.C. ZEV sector, as well as the increased deployment of ZEVs throughout B.C.

Priority will be given to project applications that can demonstrate training of a highly skilled ZEV research and development workforce and/or ZEV and related infrastructure technology innovation that will support growth of a B.C.-based ZEV clean tech sector. For example, under the 2020 Opportunity Projects Program EMLI is providing support for a ZEV project focused on [Tellurium Boosted Li-S Batteries for Zero-Emission Vehicles](#).

As with all PICS projects, the ZEV-focused project must be of importance to B.C. In addition, applicants must clearly articulate how the project objectives are directly related to ZEV adoption, deployment, and show applicability to B.C. workforce or technology development.

The following sorts of project categories are not currently of specific interest to the Province:

- Projects without a material technological outcome.
- Projects that focus only on policy reviews and assessments.



The Province of British Columbia wishes to realize the following outcomes through ZEV-related research initiatives such as the Opportunity Projects Program:

- An increase in the number of post-graduates with ZEV research and development expertise in B.C.
- An increase in the number of B.C.-developed technologies, jobs and economic value of the ZEV sector in B.C.
- A reduction in greenhouse gas emissions from the B.C. transportation sector.
- An increase in ZEV deployment in B.C.

Budget: The total amount of funding for this initiative is \$180,000

All guidelines and details for proposals in this category are the same as those found in the PICS Opportunity Projects Program Guide for Applicants except for Reporting Requirements.

It should also be noted that under the Opportunity Projects Program Guide, EMLI will not take on the role of Solution Seeker for projects.

Reporting Requirements for ZEV projects:

Semi-annual reports including:

1. Financial statements detailing the use of the funds;
2. Proposed spending plan for the remaining funds;
3. Timeline for project deliverables, and progress against that timeline;
4. Identified problems, concerns, lessons learned, recommendations; and,
5. List of project personnel (students, faculty, solution seekers, other)
6. List of publications

The final report will be due no later than 60 days after the project end date and will include:

- Overall project summary, project highlights, and description of outcomes
- Quantitative and qualitative description of the accomplishments and successes of the project
- Challenges faced, and solutions found
- Information on results (negative or positive) that were not anticipated



- List of project personnel (students, faculty, solution seekers, other)
- List of publications

All publications resulting from this ZEV project must contain the following acknowledgements: “We gratefully acknowledge the financial support of the Province of British Columbia through the Ministry of Energy, Mines and Low Carbon Innovation and of the Pacific Institute for Climate Solutions (Project # xxxxxx-xxxx).”