

ALBERTA INNOVATES CLEAN RESOURCES

CLEAN TECHNOLOGY

RENEWABLE AND ALTERNATIVE ENERGY - GRID MODERNIZATION

FUNDING DETAILS

Grayblock Solar 1

Grayblock Power is developing an eCommerce platform for energy developers to post their clean energy projects, community solar, and local power generation projects that will allow local customers and community members to invest in the projects, stimulate clean energy financing, and accelerate the development of clean energy projects in Alberta and globally. Platform participants will be able to browse energy projects by location, return on equity, size, and/or CO₂ benefit and make financing and investment decisions for projects. The platform will test and use a cyber secure, transparent (blockchain) decentralized finance network.



RECIPIENT:
Grayblock Power



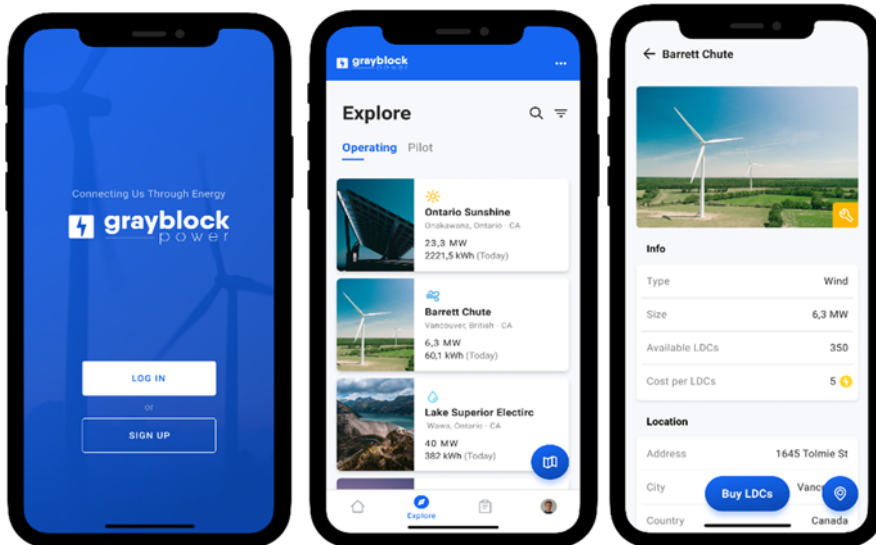
PARTNERS:
Virtuoso Energy
RenuWell
Elemental Energy



TOTAL BUDGET:
\$435,000



AI FUNDING:
\$200,000



PROJECT DATES:
April 2020 -
Nov 2021



PROJECT TRL:
Start: 4
End: 8

APPLICATION

The eCommerce platform is targeted to both clean energy project developers seeking financing and investors seeking clean energy projects, typically projects less than 20 MW in size, in which to make an investment. This decentralized finance application gives energy customers and investors an ability to transparently participate in the clean energy market through investment, investment returns, and asset ownership.

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PROJECT GOALS

- Develop and test a working digital blockchain product that:
 - A clean energy project developer can use to attract local and international financing;
 - A customer may make an investment and trade project tokens outcome from the project investment.
- Planned project activities include:
 - Engagement with energy developers and local owners to match the blockchain product to market needs
 - Identification of an operating clean energy project that requires equity financing,
 - Development, testing and deployment of the blockchain product, and marketing.
- Scale the developed blockchain product to accommodate and support international financing, international clean energy projects, and development of a digital marketplace.

BENEFITS TO ALBERTA

- Enables Alberta energy consumers to finance local and commercial sized clean energy projects
- Stimulates the growth of local clean energy projects and engages energy consumers in the development decisions for local clean energy projects.



1 - 2 Publications



1 - 2 Students
Trained



4-10 Project Jobs



100+ Future Jobs



2 - 4 New
Products/Services



Enabler of Future
GHGs Reduced

CURRENT STATUS

July 2021

Two surveys have been built and deployed: one for consumer interest, the second for energy project developer interest. The consumer survey results indicated consumer interest in energy asset ownership through a project investment of approximately \$5,000. The energy developer survey results indicated a need to focus on project financing for projects less than 20 MW in size. The design and main layout of the platform has been built and will be tested by consumers and developers. The regulatory and legal path has been developed with three identified operating projects for use as pilots.