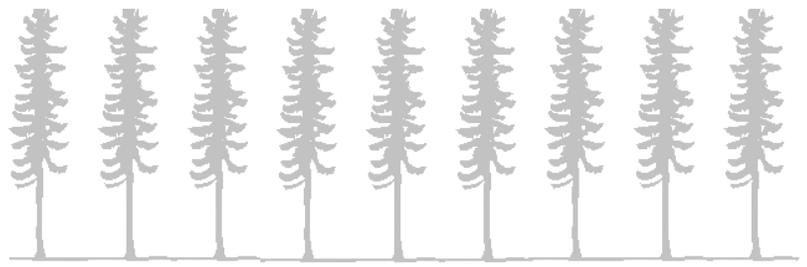


# IOTA<sub>Energy</sub>

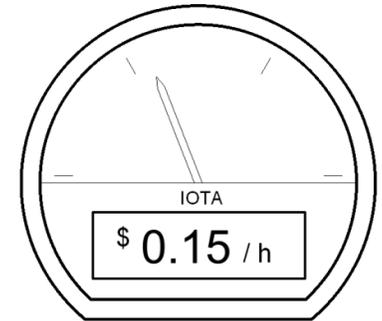


## The bright future of energy awareness

Household electricity waste is a common problem throughout British Columbia and across Canada. Increasing awareness is a fundamental, initial step in combating this problem. The Iota Energy Monitoring System will interface with existing BC Hydro smart meters and display real-time electricity use data using several methods.

Imagine a speedometer like the one in your car, only it's for your home. Instead of measuring speed, the Iota display measures the instantaneous rate at which your home is consuming electricity. The wireless display shows you this value in units that make sense to every home owner: dollars per hour.

In addition to the In-Home Display, the Iota system includes a web app, which can be accessed from your computer, tablet, or smart phone. From this web app you can view detailed information about your real-time energy use, and even control Iota smart power bars around your home!



With the Iota system, you can effortlessly see how much electricity is being used in your household at every minute of the day, while easily controlling power outlets from remote locations!

## Team Iota



### Tyler Rhodes

Tyler is an electronics engineering Technology student who has worked as a service technician for an environmental monitoring company, and for the Canadian Coast Guard. Tyler is passionate about using his education to improve sustainable generation and consumption of electricity around the world.



### Nick Birch

Nick has spent the last two and half years studying electronics engineering technology. During his second co-op work term with the Canadian Coast Guard, he developed a piece of hardware to improve the functionality of the Radio Direction Finders used in marine navigation. Nick believes that innovation in the technology sector is the solution to the energy crisis.

The Iota Energy Monitoring System will provide homeowners with the ability to take charge of their personal energy consumption through the use of monitoring and control. This is necessary as the demand on energy resources steadily increases. Iota Energy would like to thank the electronics department of Camosun College for their continuing support as we develop our prototype. The future is bright with Iota Energy!