



## **Business case**

Name:	Archisha Bhattacharya	
Community & UN SDG(s):	Individual participation/Ser	ving a context community: Members of residences in
Canada who wish to track an		nd manage their household energy consumption to
	_adopt sustainable	
Date:	October 20, 2023	
Proposed Project	EconergyCalc	
Date Produced	October 15, 2023	
Background	In line with UN Sustainable Development Goals 7 (Affordable and Clean Energy) and 11 (Sustainable Cities and Communities), this project addresses the pressing global challenge of household energy consumption. As urbanization continues to rise, energy consumption in residential areas is a critical concern. Also, traditional energy sources are often non-renewable and contribute to environmental degradation and climate change, many individuals need more awareness of their energy usage patterns and the ecological impact of their appliances.	
Business Need/ Opportunity	The goal of this project is to create an innovative web application that empowers individuals to make informed decisions about their energy use, ultimately contributing to reduced carbon emissions and more sustainable living. Also, the project aims to empower individuals to make informed choices about their energy consumption, promoting sustainable living and, as a result, contributing to the reduction of greenhouse gas emissions and environmental impact.	
Options	<ol> <li>Build an interactive web application where users can add or log the electrical appliances they use regularly in their household and receive their total energy consumption.</li> <li>Use available online energy calculator tools.</li> <li>Do nothing</li> </ol>	
Cost-Benefit Analysis		
1. Build an interactive web application.		
		Benefit
☐ Will require development costs such as Software		☐ Users will receive estimated energy consumption.
development tools and licenses, cloud services and API		☐ User will receive recommendations and tips to reduce
subscription costs.		energy consumption and adopt sustainable practices.
☐ Will require training and knowledge on MERN technology		☐ Application will keep a log of the user's appliances and
stack		provide consumption trends.
		Use a community forum to share tips and recommendation
		about energy saving
2. Use available online energy salsulator tools		
Use available online energy calculator tools     Cost/Disadvantages		Benefit
□ No log can be kept user's appliances.		□ Free of cost
☐ Cannot perform consumption trends specific to the user.		in the or cost
Give generalized tips to reduce energy consumption instead		
of personalized recommendations.		





3. Do nothing

## Recommendation

Option 1 is recommended