

GreenLife

Get Paid to Go Green

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UBC

UBC Generative AI and
Sustainability Hackathon 2024

Agenda

Objective

Potential Impact

Architecture Diagram

Future Steps

Demo

Objective

Problem

Natural Resources Canada offers a wide range of programs designed to help Canadians reduce their environmental footprint by improving energy efficiency and adopting alternative energy solutions

DIFFERENT

Eligibility, Criteria, Application



Natural Resources Canada

Canada

Search NRCAN.gc.ca

Energy ▾ Mining/Materials ▾ Forests ▾ Earth Sciences ▾ Hazards ▾ Explosives ▾ The North ▾ Environment ▾

Home → Office of Energy Efficiency → Energy Use Statistics → National Energy Use Database → Directory of Energy Efficiency Programs in Canada
→ Search results → Program Details

Program Details

Search results Modify search criteria New Search

Energy Conservation Assistance Program

Objectives and Description:
The Energy Conservation Assistance Program is an income qualified program for residential account holders. The program is offered in partnership with FortisBC and Pacific Northern Gas. Upgrades can include energy efficient LED light bulbs, water efficient showerheads, faucet aerators, and draftproofing. Some homes may also qualify for an ENERGY STAR® fridge replacement, high efficiency gas furnace replacement, or insulation. An energy coach will work with you to review energy use inside the home, and provide personalized energy saving advice.

Type of Program:

- Advice
- Awareness/Information
- Energy Star
- Financial Incentive

Sectors:

- Residential

Date of Update: 31-01-2022

For more information contact:

BC Hydro - Residential Customers
(800) 224-9376

Objective



Solution

GreenLeaf streamlines the process of connecting Canadians with the most relevant energy efficiency programs, ensuring they receive the maximum benefit with minimal effort

HELP

Identify the right programs for YOU

The screenshot shows the GreenLife mobile application. The top navigation bar includes a profile icon, a search icon, and a user icon. The main content area has a light green header with the 'GreenLife' logo. Below the header is a sidebar with navigation links: Dashboard, Recommendation, User, Notifications, and Account. The main content area features a 'Welcome to GreenLife!' message and a 'Program Types' section with three categories: Rebate, Financial Incentive, and Grant. Each category has a brief description and a 'Learn More' button. Below this is an 'Available Programs' section with a card for the 'Home Renovation Rebate' from BC Hydro Power Smart and FortisBC, detailing its purpose, type, sectors, maximum rebate, last update, and eligibility criteria.

Welcome to GreenLife!
Here's what's going on today.

Program Types

Explore the different types of programs you may be eligible for.

Rebate
Get money back after your purchase.

- Cashback on eligible products
- Lower upfront costs
- Energy-efficient incentives

Financial Incentive
Benefits to encourage specific actions.

- Tax credits
- Low-interest loans
- Subsidies

Grant
Funds provided for specific purposes.

- No repayment required
- Support for projects
- Community development

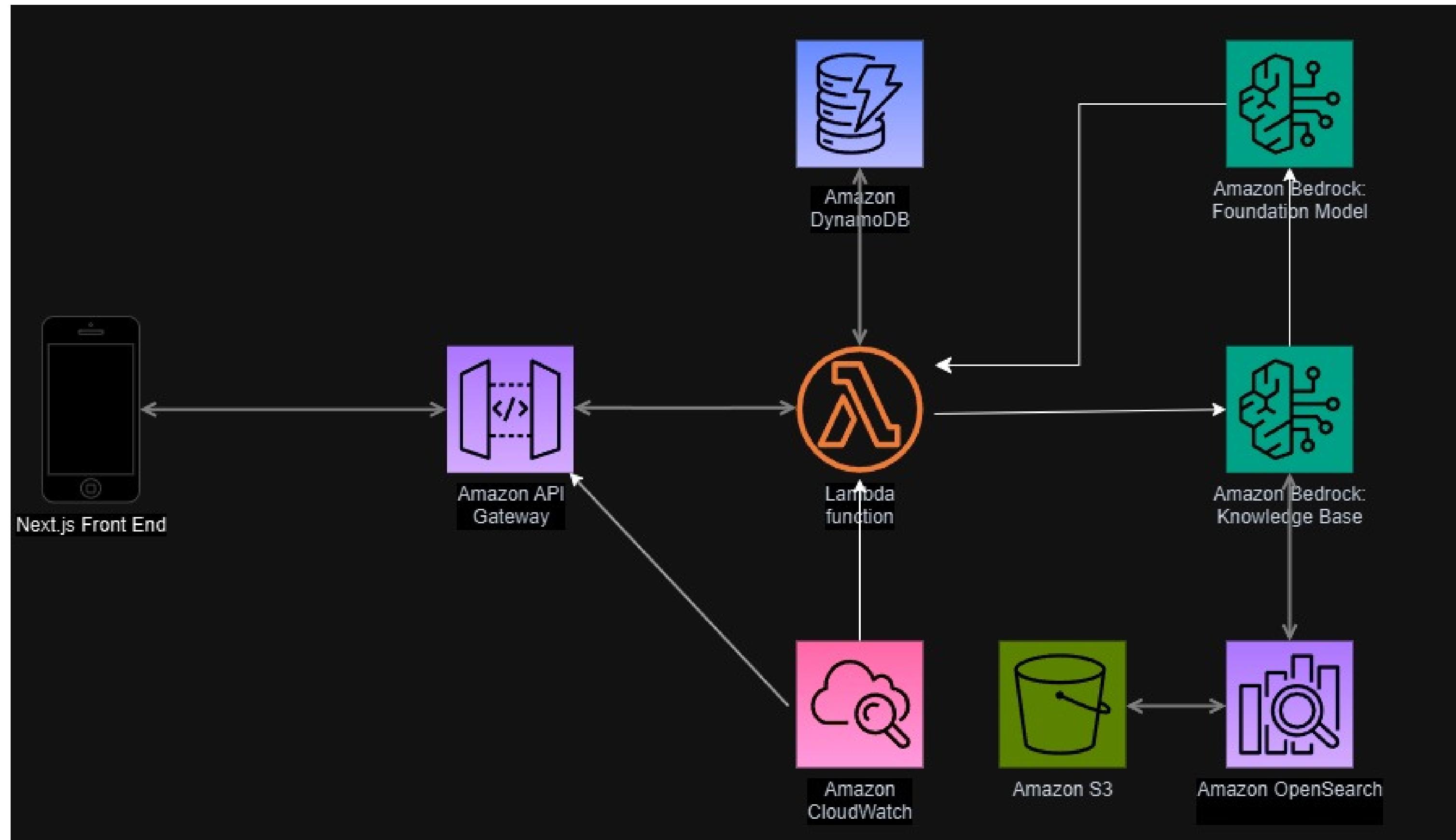
Available Programs

Here are the programs you may be eligible for based on your information.

Home Renovation Rebate
BC Hydro Power Smart and FortisBC
Offers homeowners a wide variety of incentives to help reduce ongoing energy costs. Rebates are provided for both natural gas and electric energy-efficient upgrades, including windows and doors, insulation, heat pumps, and heat pump water heaters.
Type: Rebate
Sectors: Residential
Maximum Rebate: \$2300
Last Updated:
Eligibility Criteria:

- Must be a homeowner in BC
- Home must be a primary residence
- Upgrades must be eligible under the program
- Must submit required documentation
- Must use a program-qualified energy advisor for certain upgrades

Architecture Diagram



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PROGRAMS ELIGIBLE TO CONSUMERS

\$800K

REBATE ELIGIBLE TO CONSUMERS

Next Steps

Proactive Notifications for New Programs

Notifies users when new rebates or sustainability programs become available in their region.

Cost and Savings Estimator

Allows users to input details (e.g., insulation type, appliance energy usage) to estimate how much they could save by applying for incentives and rebates.

Horizontal Scaling - ELB, EC2, SQS

ELB to distribute traffic evenly across multiple EC2 instances with Auto Scaling Groups. Additionally, integrate Amazon SQS to decouple services, enabling asynchronous communication and further improving scalability

Data Governance & Security - Cognito, VPC, KMS Encryption

Integrating Amazon Cognito to handle user authentication and MFA. Isolating infrastructure within a VPC (Virtual Private Cloud). Lastly, enforce encryption both at rest and in transit using AWS KMS

Demo

Explore the different types of programs you may be eligible for.

Rebate Get money back after your purchase. <ul style="list-style-type: none">✓ Cashback on eligible products✓ Lower upfront costs✓ Energy-efficient incentives Learn More	Financial Incentive Benefits to encourage specific actions. <ul style="list-style-type: none">✓ Tax credits✓ Low-interest loans✓ Subsidies Learn More	Grant Funds provided for specific projects. <ul style="list-style-type: none">✓ No repayment required✓ Support for projects✓ Community development
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Available Programs

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