

Assignment 5 Name Aharon Nesbitt

1. Your target for this assignment is to create Georgia Power Bill calculator that lets the user enters the monthly usage , and then calculate the monthly power bill.

2. Here are grading rubrics/specifications for BMI calculator.

☒ Name your file powerbill.html

☒ In the assignment section of your index.html document, create a link which links to this document "powerbill.html".

☒ Create the interface similar to the following screenshot.

Georgia Power Bill Calculator

The utility bill calculator is a resource that the Commission is making available that allows a consumer to check the accuracy of his/her monthly electric bill. A bill calculator has been prepared for customers of the Georgia Power Company. This bill calculator applies only to residential customers who are receiving service under the standard Residential Tariff (R-27). For more details regarding Georgia Power's residential tariff offerings, please visit Georgia Power Pricing & Rates.

Effective August 2023

Enter your Monthly Usage in kilowatt hours (kWh):

Enter the number of days for your current billing period:

Is your residence INSIDE the city limits of your city? ☐

Is this a Summer month (June - September)? ☐

Enter Sales Tax(%):

Details of your bill

Items	Fees
Base Charge:	14.27
Tier 1 Component (kWh):	40.56
Tier 2 Component (kWh):	21.84
Tier 3 Component (kWh):	0.00
Base Revenue -- Base Bill Subtotal:	76.67
Fuel Cost Rider:	42.86
Demand Side Management Residential Rider:	1.23
Nuclear Construction Cost Recovery Rider:	3.19
Environmental Compliance Cost Recovery Rider:	12.48
Total Revenue -- Current Service Subtotal:	136.43
Franchise Fee:	1.62
Total (excluding tax):	138.04
TOTAL (w/ tax) :	147.71

☒ JavaScript function that read inputs and calculate the monthly bill amount.

☒ Read inputs --- Monthly Usage, Days for the bill, inside city or not, Summer or Winter, Taxrate

☒ Convert input(Monthly Usage/Days/Tax) to float type.

☒ Follow the following steps to perform the calculations.

- Base Charge: **46.03¢/day**

- Tier 1,2,3 Charge:

Summer Rate Schedule

TierUsage Cost per kWh

1st tier up to 650kWh \$ 0.066678

2nd tier next 350kWh \$ 0.110748

3rd tier over 1000kWh \$ 0.114625

Winter Rate Schedule

TierUsage Cost per kWh

1st tier up to 650kWh \$ 0.062404

2nd tier next 350kWh \$ 0.062404

3rd tier over 1000kWh \$ 0.062404

- Base Revenue – Base Bill Sub total = base charge + tie1 + tie2 + tie 3

- Fuel Cost Rider:

	June - Sept.	Oct. - May
Cost Per kWh	\$ 0.045876	\$ 0.042859

- Demand Side Management Residential Rider
% of Base Revenue 1.5989%
- Nuclear Construction Cost Recovery Rider
% of Base Revenue 4.1562%
- Environmental Compliance Cost Recovery Rider
% of Base Revenue 16.2813%
- Total Revenue = Base Revenue + Fuel Cost + Demand Side Management + Nuclear Cost Recovery+ Environmental Compliance
- Franchise Fee

	Inside City Limits	Outside City Limits
% of Total Revenue	3.0674%	1.1839%

- Total (before tax) = Total Revenue + Franchise Fee

☒ Display all the required values. Keep two decimal places.

☒ Open a new page <https://www.georgiapower.com/residential/save-money-and-energy/products-programs.html> if the total bill is over \$500.

☒ Before you submit your file, be sure to check this checklist.

☒ To submit:

- Upload your files to GitHub.
- Please turn in this page with items checked to instructor on due date.