

# PowerBill™

## Instructions and Guidance Notes



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# 1. Introduction

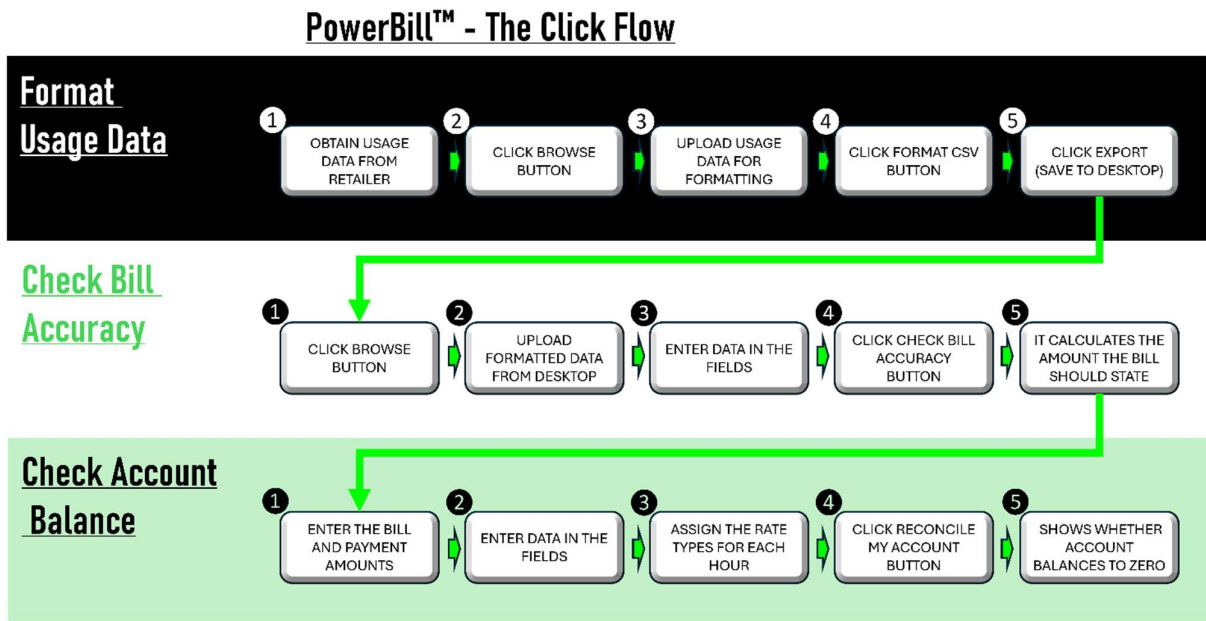
## 1.1 What is PowerBill? (An Overview)

PowerBill™ is a website-based application (web app) that allows users to calculate the actual amount of their electricity bill.

At the core of the application and its methodology are the 3 pieces of information that formulate the price of a any utility bill.

1. The Usage Data (obtained directly from the meter itself by the distributor, and provided to the customer and retailer).
2. The Rates Applicable to be charged against the usage, (as stated on the retailers bill).
3. The Rate Types applied against the days and hours of usage, (as stated on the retailers bill).

This is what puts the power in PowerBill™ because it uses only the rightful data to calculate the bill amount!



### 1.1.1 System Requirements

<b>Web Browser</b>	Supported Browsers: The application should specify which browsers are supported (e.g., Google Chrome, Mozilla Firefox, Safari, Microsoft Edge). Compatibility with recent versions is generally recommended. Browser Version: Minimum version required for proper functionality.
<b>Operating System</b>	Compatibility: Windows                      Windows 10 or later macOS                            macOS 10.14 or later
<b>Internet Connection</b>	Speed: A stable internet connection with a recommended minimum speed of 20 Mbps to ensure smooth operation. Bandwidth: Adequate bandwidth for data transfer, especially if the application involves

	large file uploads/downloads or real-time communication.
<b>Screen Resolution</b>	Minimum Resolution: 1024x768 pixels or higher for optimal user experience.
<b>Hardware Requirements</b>	Memory (RAM): Minimum RAM requirement 4 GB or more to ensure the application runs smoothly. Storage: Sufficient disk space for browser cache and temporary files.
<b>JavaScript and Cookies</b>	JavaScript: Enabled for full functionality. Cookies: Enabled if the application uses them for session management or personalization.
<b>Additional Software</b>	None are required at this stage. Version 1.0.0
<b>Accessibility</b>	Assistive Technologies: Compatibility with screen readers or other assistive technologies if the application needs to meet accessibility standards.
<b>Security</b>	Firewall/Antivirus Settings: Ensure that any security software does not block access to the application.

## 1.2 Why do we need PowerBill?

Because sometimes when bills are received, they can be incorrect and because of this, there is a distinct need for a tool to help users review their bill for accuracy and for them to be assured with confidence in the data and methodology, when they do so.

## 1.3 Who will find PowerBill of use to them?

Anyone who contributes to or pays an electricity bill.

(Because you should want to know, and be able to make sure you are not overpaying).

Because the calculation is a simple one, Usage Units x Fee Rate (the standard equation for evaluating the price of consumption) the app is adaptable to both:

- **Individuals**            for Residential properties.
- **and**
- **Businesses**            for Commercial or Industrial premises.

## 2. Installation and Setup:

As PowerBill™ is a web-app the only installation instruction is to bookmark the page for future use.

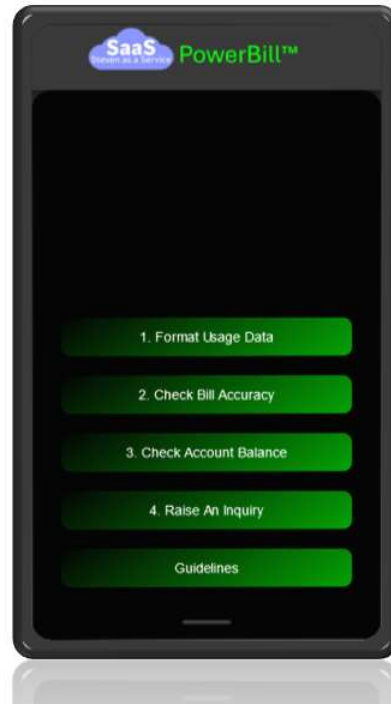
### 3. Getting Started:

#### Navigation

The main interface provides the navigation buttons to the other interfaces of the app.

- The SaaS Logo and Image in the header act as a 'Home' button to return to this Landing Page.
- **1. Format Usage Data.**
- **2. Check Bill Accuracy.**
- **3. Check Account Balance.**
- **Guidelines.**

Figure 1 - PowerBill™ Landing Page



#### 3.1 Key Features and Functions

##### Meter Usage Data (CSV) Upload

PowerBill™ is a web application specifically because the upload of a csv file is required, which is not possible on a phone or tablet.

The csv (comma-separated values) file carries the electricity meter's usage data, so is at the core of measuring the price. (Since the equation to measure consumption is: **Usage Units x Fee Rate.**

- This data is used specifically to dispel any issues on the authenticity of the core information used to calculate the bill amount.
- The data is downloaded by the distributor when they perform the **Actual Meter read.**
- The data is sent to the retailer, who in turn make it available to the customer (some providers provide it through their customer portals or customers need to request it by email).

As the raw file may contain account related information, meter number information and other information this information needs to be removed to leave only the: Dates, and usage units it is necessary to format the file so it can be processed quickly and accurately.

**PowerBill™ automates the formatting preparations. <https://apps.mysaas.website/formatcsv.html>**

1. Simply upload the file and click process. The output will be presented on screen. You can then easily check that it has maintained the data integrity and accuracy.
2. Download it to your Desktop as the next step requires it be uploaded to process the calculations.

Figure 2. A csv file when opened in notepad

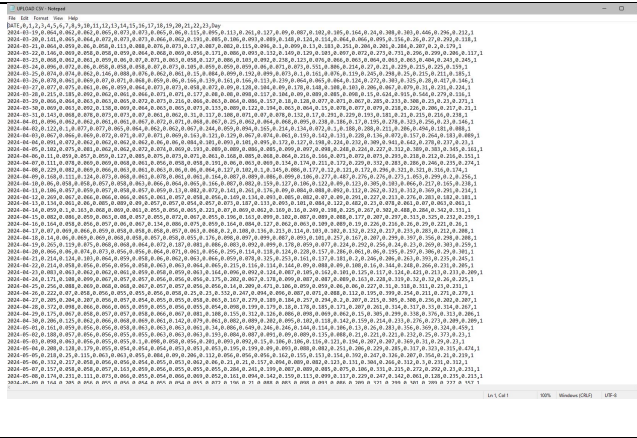


Figure 3. A csv file when opened in Excel

A	B	C	D	E	F	G	H	I	J
1	abc	zxdfgbrhns	NETWORK	JBSDBIHB					
2	Stream ID	MKXSDVDFNVF	E1	E1	KWH	CONSUMPTION			
3	LOCAL TIN AEEST								
4	Date/Time	0:00	0:30	1:00	1:30	2:00	2:30	3:00	4:00
5	20240319	0.017	0.047	0.029	0.033	0.042	0.02	0.048	0.017
6	20240320	0.083	0.058	0.039	0.026	0.051	0.013	0.05	0.022
7	20240321	0.017	0.047	0.014	0.045	0.024	0.036	0.034	0.04
8	20240322	0.078	0.068	0.023	0.046	0.021	0.037	0.034	0.04
9	20240323	0.019	0.049	0.017	0.045	0.028	0.033	0.039	0.02
10	20240324	0.06	0.036	0.025	0.047	0.013	0.047	0.022	0.036
11	20240325	0.049	0.025	0.039	0.035	0.028	0.034	0.084	0.062
12	20240326	0.057	0.021	0.049	0.012	0.049	0.02	0.041	0.029
13	20240327	0.045	0.032	0.028	0.047	0.013	0.048	0.025	0.035
14	20240328	0.09	0.125	0.097	0.088	0.047	0.045	0.037	0.025
15	20240329	0.014	0.052	0.023	0.041	0.034	0.029	0.045	0.018
16	20240330	0.018	0.051	0.014	0.049	0.027	0.065	0.071	0.067
17	20240331	0.102	0.041	0.053	0.015	0.054	0.024	0.04	0.033
18	20240401	0.045	0.051	0.016	0.046	0.027	0.035	0.037	0.024
19	20240402	0.085	0.037	0.072	0.028	0.038	0.039	0.026	0.051
20	20240403	0.047	0.02	0.053	0.013	0.055	0.014	0.051	0.021
21	20240404	0.035	0.056	0.021	0.051	0.012	0.05	0.018	0.044
22	20240405	0.04	0.062	0.026	0.049	0.033	0.048	0.039	0.023
23	20240406	0.075	0.035	0.033	0.026	0.041	0.016	0.047	0.012
24	20240407	0.078	0.033	0.061	0.017	0.043	0.026	0.033	0.036

**Fast and accurate calculations**

Providing clarity and visibility of where and when, the costs are incurred.

**4. Usage Instructions:**

**4.1 Calculate Actual Bill**

This interface allows a user to check whether the Bill received is accurately priced, according to the actual usage and fees chargeable.

The meter's usage data is **multiplied** against the applicable fee rates for each hour of each day, to calculate the true price of the bill. This is done quickly and cleanly save time and energy working through spreadsheets or other tools.

Figure 4 - PowerBill™ Calculate Actcula Bill Interface

### Instructions for Check Bill Accuracy

- 1** Select Your State
- 2** Upload the Usage Data (CSV File)
- 3** Enter the Rates as stated on the bill. (Enter zero to any that don't apply)
- 4** Apply the Rate Type, as stated on the bill, as different rates may apply to certain hours across the day.
 

As the default 'Off-peak' is set on all the hours, you only need to change the hours that are not Off-peak. (Use the dropdown bar to change the setting).
- 5** Click the 'Check' button

**The Bill Should Show This Overall Grand Total**  
\*Before any discounts etc. are applied)

Tip: Enter the Overall Grand Total in the 'Check Account Balance' fields to review whether the account reconciliation is completely correct?

This is the ultimate aim of PowerBill™.

**Buy the Hour-by-Hour, Day-by-Day report to PROVE your costs.**  
It is your evidence to address any bill inaccuracies.

## 4.2 Check Account Balance

This interface allows a user to check their payments against the Bill to ensure their account balances to zero, meaning they have paid what they owe and have not overpaid.

Figure 5 - PowerBill™ Check Account Balance Interface

**Instructions for Check Account Balance**

**1** Enter the amounts stated on the Bill in the Bills fields

**2** Enter the amounts stated on the Bill in the Payments fields

**3** Click the 'Reconcile Account' button

**4** The Totals will be Displayed Here

A **negative** number = payments are higher than billed amounts. Therefore, funds are owed back to balance the account.

A **positive** number = payments are lower than billed amounts. Therefore, more needs to pay more to balance the account.

**Zero** = the account balances, so nothing is owed to either party.

This is the ultimate value of PowerBill™.

## 5. Troubleshooting:

FAQs <https://mysaas.website/powerbill/faq>

## 6. Maintenance and Updates:

As the application is developed further updates will be made available in the live version.

## 7. Security and Privacy:

Data is held and managed through the Browser on the users device (Laptop or Desktop), so once the user clears their cache and browsing history and closes the browser window, the information is deleted.

PowerBill™ holds no personal data during the calculation processes.  
For further information on Data Management please visit the products privacy page.

## 8. Support and Resources:

The current product Support contact for PowerBill is: [saas@mysaas.website](mailto:saas@mysaas.website).

## 9. Legal Information:

Terms of use <https://mysaas.website/terms-and-conditions/>  
Privacy Policy <https://mysaas.website/privacy-policy/>