

SIMMARIX Billing Module

The SIMMARIX billing module is a quick, powerful tool for calculating the costs associated with the sale of energy in the marketplace based on the rate tariffs in effect in that market. A unique feature of the system is that it can generate a bill for a given site down to the smallest interval of data for that site. For example, if the tariff changed for each interval of an interval-metered site, the SIMMARIX billing module would generate the bill for the billing period accurately regardless of how many tariff changes occurred in the billing period.

The wholesale billing module calculates the costs the wire services provider (WSP) charges each retailer in their service territory for the use of their transmission and distribution facilities based on the WSP's rate tariffs.

The retail billing module calculates the costs the retailer charges their individual customers for the supply of energy. These costs can include the flow through WSP charges, energy charges, and administration charges.

Wholesale Billing

The SIMMARIX wholesale billing module is setup on a schedule to automatically generate wholesale bills. The system maintains a database of current and historical rate tariffs such that any bill can be reproduced at any time using the rate tariff applicable at the time.

Some of the functions performed by the SIMMARIX wholesale billing module include:

- Calculate distribution access tariff charges daily
- Calculate distribution access tariff charges monthly
- Create summary bill for retailers
- Create summary report by rate class
- Create a report of the difference in charges between interim and final settlement
- Create monthly report based on customer requirements
- Provide web access to reports and billing data
- Provide output file format compatible to the customer's CIS system.

Reports and logs of all inputs and outputs from the billing engine are created and stored for user viewing at any time via the web interface. The user simply logs on to the system using the username and password provided to access these reports. When the user is logged in to the system and through the menu options available, he/she knows at that instant the status of all billing runs, can view reports and logs, download various report files, etc.

There are a series of standard reports that the SIMMARIX wholesale billing module produces. However, these can be easily modified to meet specific customer requirements.

SIMMARIX Billing Module

Retail Billing

The SIMMARIX retail billing module is setup on a schedule to automatically generate retail bills for individual customer sites for any billing period such as monthly or read cycles. The system maintains a database of current and historical rate tariffs, energy costs (fixed and hourly pool pricing) and retailer charges such that any bill can be reproduced at any time using the charges applicable at the time.

Some of the functions performed by the SIMMARIX retail billing module include:

- Calculate individual site bills daily
- Calculate individual site bills monthly
- Calculate individual site bills by billing period
- Create summary bill for all the retailer's customers
- Create summary report by rate class for all the retailer's customers
- Create monthly report based on retailer requirements
- Provide web access to reports and billing data for customer and retailer
- Provide output file format compatible to the retailer CIS system.

Reports and logs of all inputs and outputs from the billing engine are created and stored for user viewing at any time via the web interface. The user simply logs on to the system using the username and password provided to access these reports. When the user is logged in to the system and through the menu options available, he/she knows at that instant the status of all billing runs, can view reports and logs, download various report files, etc.

There are a series of standard reports that the SIMMARIX retail billing module produces. However, these can be easily modified to meet specific customer requirements.

The screenshot displays the SIMMARIX Energy Data Analysis web interface. The main content area shows an "ABC Utility Estimated Invoice" with the following details:

Name: Interval Load #1A
Address: #153 9660 Bonaventure Drive SE
City/Prov: Calgary Alberta Canada
Postal Code: T2J 0E6

Site Id	Account No.	Meter No.	Billing Period	Rate
0020001111111	0070001111111	1111110	May 01, 2005 to May 19, 2005	General Service > 50 KW

Billing Quantities

Peak Kva Demand During Billing Period Was	7,554.0 Kva	Metered Energy During Billing Period	2,501,468.0 Kwh
Peak Kw Demand During Billing Period Was	6,997.6 Kw	Primary Metering Reduction (-)	24,764.5 Kwh
On Peak Kva Demand During Billing Period Was	7,464.6 Kva	Adjusted Kwh	2,476,703.5 Kwh
On Peak Kw Demand During Billing Period Was	6,958.8 Kw	Calculated Losses (+)	49,529.1 Kwh
Power Factor At Peak Kva Demand Was	0.926	Net Energy	2,525,982.3 Kwh
90% Off Kva Demand During Billing Period Was	6,798.6 Kva		

Billing Charges

Monthly Service Charge	\$ 93.75
Distribution Volumetric Charge (6,997.6 x \$ 1.0900)	\$ 4,674.86
Network Service Charge (6,958.8 x \$ 2.2535)	\$ 8,407.45
Line and Transformation Connection Service Charge (6,997.6 x \$ 1.19603)	\$ 9,611.37
Debt Retirement Service Charge (2,476,453.1 Kwh x \$ 0.0070)	\$ 17,335.17
Wholesale Market Service Charge (2,525,982.2 Kwh x \$ 0.0062)	\$ 15,661.09
Standard Supply Service Administration Fee	\$ 0.15
Transformation Ownership Credit (7,554.0 Kva x \$ 0.6000)	\$ 2,777.93
Commodity Charge (2,476,453.1 Kwh x Pool Price)	\$ 137,281.91
Taxes (Rate = .07)	\$ 13,708.06

Navigation buttons: Previous, Next, Print, Change Date

Copyright 2003

Site Locations: Site ID List

Graphs/Data: Avg Weekday, Avg Weekend, Demand, Energy, Energy Cost, Load Duration, Load Factor, Max/Min Day, Power Factor, Pool Price

Reports: Estimated Invoice, Load Calendar, Peaks, Summary MTD, Summary YTD

Data Analysis: Aggregation, Coincident Peak, Compare Days, Kwh Analysis, Kwh Analysis, PF Analysis

Query Data: Hourly/Daily, Compare Sites

Alberta Reports: Create Dim Files, Create TA Files, Search Dim Logs, Search TA Logs

Settlement: Invoices

Current News: AESO Price, IMO Price, Weather

Industry Links: IMO - Ontario, AESO - Alberta, Ont Energy Bd, AB Energy Bd

Support Tools: UserSetup, Alerts