



Variable Rate Formula for Vista Energy in Ameren Service Area

Starting from April 2018

The Variable Price (in cents per kWh) for year **yr** and month **m** is designated as $P_{yr, m}$ and is determined as follows:

$$(1) \quad EP_{yr, m} = 0.5 * \sum_{i=0}^{23} (LMP_{i, yr, m-1} * HP_{i, yr}) + 0.5 * \sum_{i=0}^{23} (LMP_{i, yr-1, m} * HP_{i, yr})$$

$$(2) \quad P_{yr, m} = LLF_{yr} * (EP_{yr, m} + RA_{yr}) + PM_{yr}$$

Where:

- EP is the Energy Component of the Variable Price.
- LMP is the hourly PJM Day Ahead Locational Marginal Price as published in the MISO website for month m and month m – 1 (the prior month) and for year yr and year yr – 1 (the prior year) at: [https://www.misoenergy.org/markets-and-operations/real-time--market-data/market-reports/#nt=%2FMarketReportType%3ADay-Ahead%2FMarketReportName%3ADay-Ahead%20Pricing%20\(xls\)&t=10&p=0&s=MarketReportPublished&sd=desc](https://www.misoenergy.org/markets-and-operations/real-time--market-data/market-reports/#nt=%2FMarketReportType%3ADay-Ahead%2FMarketReportName%3ADay-Ahead%20Pricing%20(xls)&t=10&p=0&s=MarketReportPublished&sd=desc). To access data, go to site and
 - Click “Day-Ahead Pricing (xls)”
 - Select the date from the available reports
- HP is the Hourly Profile factor for each hour of the day and is fixed for a given year based on Ameren’s average annual data available from the prior year. The “Estimated Hourly Load” data are shown below

Hour	Value	Hour	Value
0000	.03975	1200	.04236
0100	.03536	1300	.04296
0200	.03332	1400	.04344
0300	.03227	1500	.04338
0400	.03175	1600	.04445
0500	.03202	1700	.04658
0600	.03390	1800	.04920
0700	.03784	1900	.05087
0800	.04078	2000	.05107
0900	.04127	2100	.05060
1000	.04127	2200	.04894
1100	.04184	2300	.04491

- LLF is the Line Loss Factor, set at 1.072157 and updated each January.
- RA is the Retail Adder, set at 4.965 cents, consisting of an Hourly Balancing Charge of 9.21 cents and a Renewable Energy Compliance Cost of 0.275 cents, and updated each January.
- PM is the Vista Energy Profit Margin and is set at 5 cents, and updated each January.