



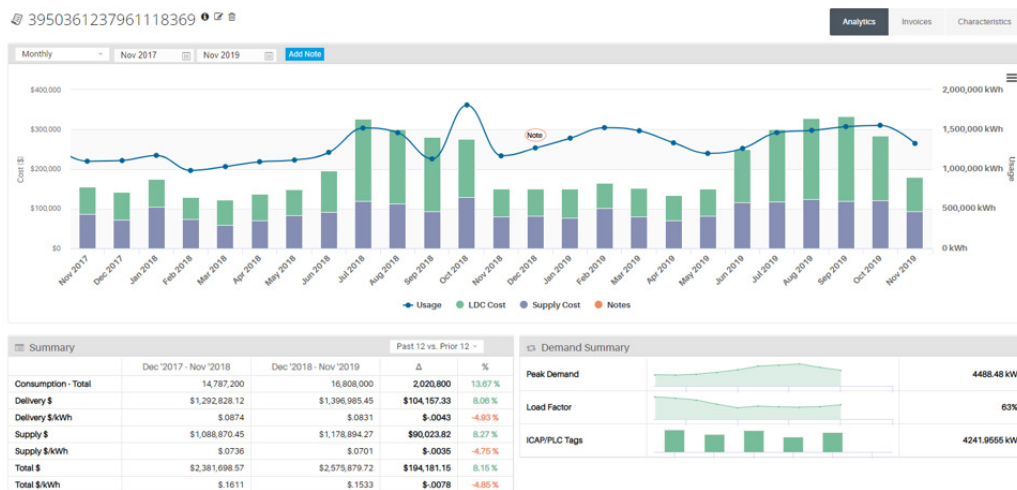
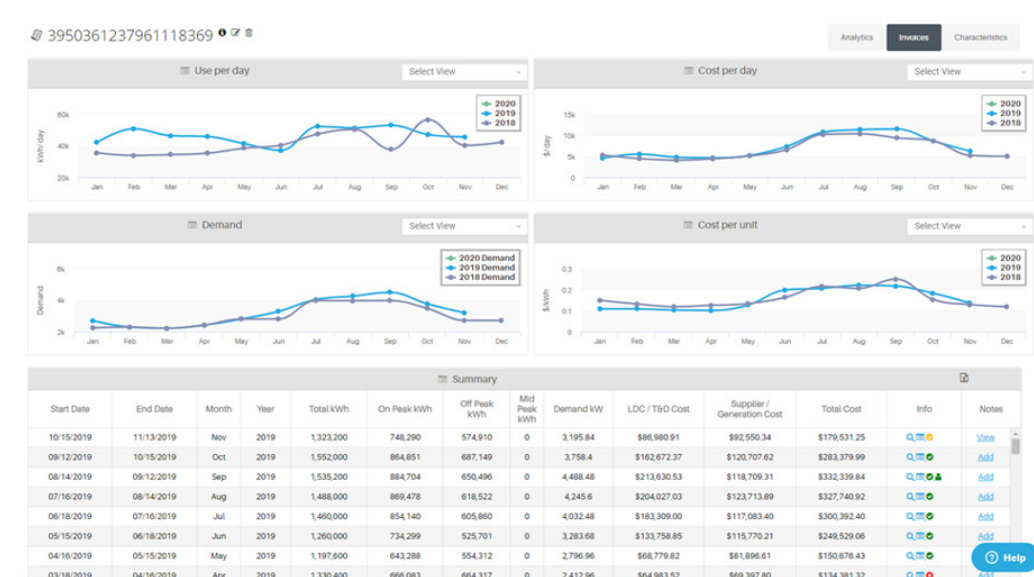
# INVOICE MANAGEMENT & AUDITING

Effectively managing your utility invoices is the backbone of an Energy Management Platform (EMP). Your energy management platform should be able to ingest invoices from multiple sources in as automated a fashion as possible. Look for platforms that provide automatic utility data acquisition and PDF capture.

# Invoice Management & Auditing

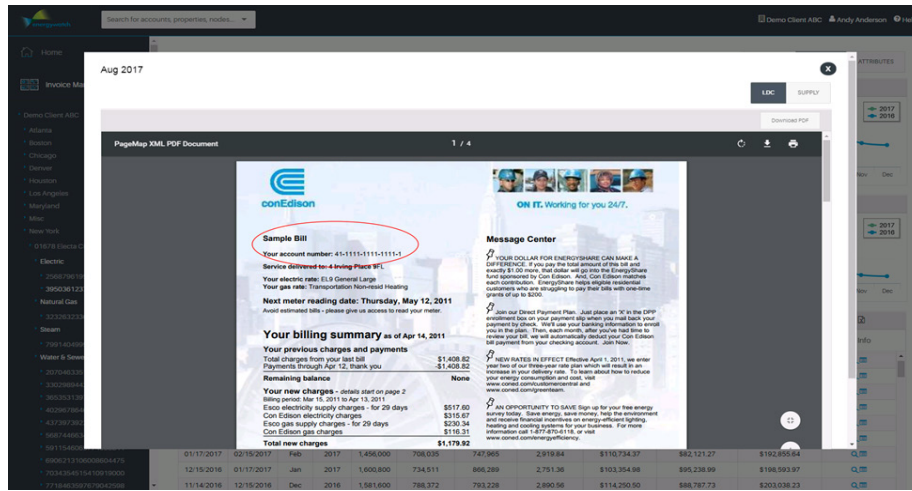
## Invoice Management

Top of the line platforms are now able to provide a variety of normalizations to make sense of invoice data alongside the factors that are influencing it. These leverage statistical modeling to make sense of how usage, demand, and costs trend with both business KPIs and weather at the facility location.



# Invoice Management & Auditing

Lastly, ensure that the platform can track and leverage all the information coming from your bills. Gone are the days when kWh and cost are the only meaningful factors; today's complicated utility tariffs and supply contracts contort fees and tie them to things such as demand, reactive power, and even recurring flat charges. Your EMP should be able to bucket all line item charges properly, analyze the variable vs fixed charges accurately, and allow you to download copies of your DF bills individually and in bulk.



## Automated Utility Auditing

Ensure that your platform has a robust auditing and quality assurance process to catch billing errors such as overlapping date ranges, abnormal variances, and unreasonable usage. Auditing hundreds or thousands of utility accounts manually is nearly impossible. Utilizing a solution that can do statistical auditing of your bills to bring anomalies to the surface is critical for scale and accuracy.

Start Date	End Date	Month	Year	Total kWh	On Peak kWh	Off Peak kWh	Mid Peak kWh	Demand kW	LDC / T&D Cost	Supplier / Generation Cost	Total Cost	Info	Notes
10/15/2019	11/13/2019	Nov	2019	1,323,200	748,290	574,910	0	3,195.84	\$86,980.91	\$92,550.34	\$179,531.25	Q, M, E	View
09/12/2019	10/15/2019	Oct	2019	1,552,000	864,851	687,149	0	3,758.4	\$162,672.37	\$120,707.62	\$283,379.99	Q, M, E	Add
08/14/2019	09/12/2019	Sep	2019	1,535,200	884,704	650,496	0	4,488.48	\$213,630.53	\$118,709.31	\$332,339.84	Q, M, E	Add
07/16/2019	08/14/2019	Aug	2019	1,488,000	869,478	618,522	0	4,245.6	\$204,027.03	\$123,713.89	\$327,740.92	Q, M, E	Add
06/18/2019	07/16/2019	Jul	2019	1,460,000	854,140	605,860	0	4,032.48	\$183,309.00	\$117,083.40	\$300,392.40	Q, M, E	Add
05/15/2019	06/18/2019	Jun	2019	1,260,000	734,299	525,701	0	3,283.68	\$133,758.85	\$115,770.21	\$249,529.06	Q, M, E	Add
04/16/2019	05/15/2019	May	2019	1,197,600	643,288	554,312	0	2,796.96	\$68,779.82	\$81,896.61	\$150,676.43	Q, M, E	Add
03/18/2019	04/16/2019	Apr	2019	1,330,400	666,083	664,317	0	2,412.96	\$64,983.52	\$69,397.80	\$134,381.32	Q, M, E	Add
02/14/2019	03/18/2019	Mar	2019	1,483,200	783,326	699,874	0	2,218.08	\$73,006.04	\$79,410.12	\$152,416.16	Q, M, E	Add
01/15/2019	02/14/2019	Feb	2019	1,522,400	793,957	728,443	0	2,290.08	\$63,134.03	\$101,775.44	\$164,909.47	Q, M, E	Add

The above graphic shows monthly invoices and the status of passing or failing statistical audits. Once it has been determined that an audit has failed, the platform will notify either your analyst to research the exception or our service analysts to do the research on your behalf depending on your service level.

# Invoice Management & Auditing

The below graphic shows the status of each audit check. The parameters of each audit check are customizable by the client.

The screenshot displays an auditing interface for April 2019. At the top, there are navigation arrows and a date selector 'Apr 2019'. Below this, there are tabs for 'INVOICE IMAGES', 'LINE ITEMS', and 'AUDITS'. The 'AUDITS' tab is active. On the right side, there are buttons for 'LDC' and 'Supply'. The main area shows a list of audit checks:

Audit Check	Status
Daily Cost Variance: The daily cost variance check passed with a difference of 5.77%. Data set used: Previous Invoice: 4 2018	Passed (Green checkmark)
Daily Usage Variance: The daily usage variance check failed with a difference of 30.23%. Data set used: Previous Invoice: 4 2018	Failed (Red X)
Total Cost Variance: The cost variance check passed with a difference of -1.06%. Data set used: Previous Invoice: 4 2018	Passed (Green checkmark)
Total Demand Variance: The demand variance check passed with a difference of 0.0%. Data set used: Previous Invoice: 4 2018	Passed (Green checkmark)
Total Usage Variance: The usage variance check passed with a difference of 21.83%. Data set used: Previous Invoice: 4 2018	Passed (Green checkmark)

At the bottom right, there is a link labeled 'Set Audit Threshold'.