



**THERMASTEEL™**  
ADVANCED PANEL SYSTEMS

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### **Study Case of Energy Consumption**

This is an example of a multi-family dwelling (two families), built in 2018 by ThermaSteel. The basement unit is 1786 sqf – one family. The ground level unit - is 3212sqf on – another family. In addition, 3784 sqf of attic space. Total 5000 sqf heated space + 3784sqf of attic. The developer used 7.5" panels for the below grade and 5.5" panels for the exterior walls. Interior framing and roof were done with conventional wood framing. The mechanical systems are standard heat pumps. Every family has its own heat pump and appliances, and other household systems. In total 12 people reside in the multi-family dwelling.





The following invoice is a copy of the energy bill for the month of October (2019) for the entire multi dwelling. The invoice amount is \$143.55 including tax.

 <b>Non-Payment/Return Mail:</b> PO BOX 24401 CANTON, OH 44701-4401	Amount due on or before November 11, 2019 <b>\$143.55</b> Bill mailing date is Oct 21, 2019 Account #028-041-
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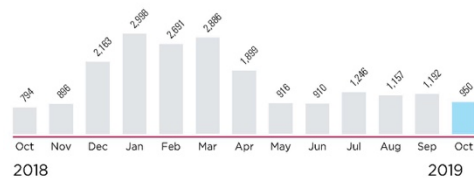
SERVICE ADDRESS:

CY 17

**Notes from APCO:**

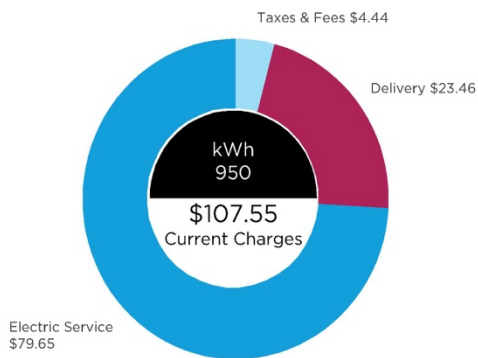
Your bill this month includes a deposit receipt. Please review the line items and please don't hesitate to contact us with questions!

**Usage History (kWh):**



**Current bill summary:**

Billing from 09/21/19 - 10/21/19 (31 days)



**Methods of Payment**

- appalachianpower.com
- PO Box 371496  
Pittsburgh, PA 15250-7496
- 1-800-611-0964 (fee may apply)

**Need to get in touch?**

Customer Operations Center: 1-800-956-4237  
 Outages: appalachianpower.com/outages  
 or 1-800-956-4237

Please tear on dotted line.

Turn over for important information!

Thank you for your prompt payment. Please include your account number on your check and return this stub with your payment.



Amount due on or before November 11, 2019 **\$143.55**

Payment Amount \$

Pay \$145.11 after 11/19/2019

Make check payable and send to:  
 APPALACHIAN POWER  
 PO BOX 371496  
 PITTSBURGH, PA 15250-7496



\$

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The following table is a daily average energy [KWH] consumed over 18 months, then translated to cost. The average use is 47.25 KWHs per day with an average daily cost of \$5.26. That is \$2.63 of energy per day per household.

Date	Days per Bill	KWH Usage	Average KW	Amount	Average Bill per Day
1/23/20	33	2,198	67	\$239.36	\$7.25
12/20/19	30	1,881	63	\$206.43	\$6.88
11/19/19	28	1,546	55	\$170.46	\$6.09
10/21/19	30	950	32	\$107.55	\$3.59
9/20/19	29	1,192	41	\$132.27	\$4.56
8/21/19	28	1,157	41	\$128.68	\$4.60
7/23/19	31	1,246	40	\$137.78	\$4.44
6/21/19	29	910	31	\$103.45	\$3.57
5/22/19	28	916	33	\$104.05	\$3.72
4/23/19	31	1,899	61	\$205.97	\$6.64
3/22/19	29	2,886	100	\$312.07	\$10.76
2/20/19	27	2,691	100	\$289.78	\$10.73
1/23/19	33	2,998	91	\$321.55	\$9.74
12/20/18	30	2,163	72	\$235.32	\$7.84
11/19/18	30	896	30	\$104.15	\$3.47
10/19/18	28	794	28	\$94.02	\$3.36
9/20/18	29	768	26	\$91.30	\$3.15
8/21/18	28	499	18	\$63.64	\$2.27
7/23/18	31	340	11	\$48.44	\$1.56
6/21/18	27	127	5	\$24.64	\$0.91
<b>Average KWHs per Day</b>			<b>47.25</b>	<b>Average cost per day</b>	<b>\$5.26</b>