

UNITIL ENERGY SYSTEMS, INC.

DEFAULT SERVICE AND
RENEWABLE ENERGY CREDITS

LEAD/LAG STUDY

FOR G1 AND NON-G1 CUSTOMERS

2018

Unitil Energy Systems, Inc.
Default Service Costs and Renewable Energy Credits Lead / Lag Study
For the Period January 1, 2018 Through December 31, 2018
Summary of Results

The results of the Unitil Energy Systems, Inc. Default Service ("DS") and Renewable Energy Credits ("RECs") Lead / Lag Study ("Study") indicate a net lead period for DS and REC costs of 28.96 days for G1 Customers and a net lag period of 12.20 days for Non-G1 Customers. The procedures used to develop the Study are as follows:

I. Determination of Revenue Lag Period

The revenue lag period includes four calculations in determining the total lag – receipt of electric service to meter reading, meter reading to recording of accounts receivable, billing to collection, and collection to receipt of available funds.

A. Receipt of Electric Service to Meter Reading

There are 365 days in the test year January through December 2018, including one 28 day month, four 30 day months, and seven 31 day months. The weighted average day delay is 15.21 days between the time a customer receives service until the meter is read. See page 5 of this Study.

B. Meter Reading to Recording of Accounts Receivable

The average delay time from meter reading to recording of accounts receivable is 1.12 days. See pages 6 - 10 of this Study.

C. Billing to Collection

Billing to Collection lag days are determined by dividing accounts receivable sales by daily electric revenues. The daily average revenues are obtained from the monthly electric sales revenues divided by the number of days in the month. This weighted average delay period from Billing to Collection is 21.84 days for G1 customers and 45.88 days for Non-G1 customers. See pages 11 and 12 of this Study.

D. Collection to Receipt of Available Funds

On average, 1.73 days are required for checks deposited at the Company's banks to be considered available funds for banking transaction purposes. See pages 13 - 19 of this Study.

The sum of all revenue lag periods is 39.90 days for G1 customers and 63.94 days for Non-G1 customers. See page 4 of this Study.

Unitil Energy Systems, Inc.
Default Service Costs and Renewable Energy Credits Lead / Lag Study
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II. Determination of the Expense Lead Period

The expense lead period consists of the lead in payment of DS supplier costs and RECs, and is calculated for the G1 and Non-G1 customer classes based upon the following calculations: lead period, average days lead, weighted cost, days lead and weighted days lead.

A. Lead Period

The lead period is generally based on a monthly cycle and consists of (1) the average days in the period that DS purchases were provided or RECs were required; and (2) the billing period from the end of the period up to and including the payment date. See pages 20 through 23 of the Study.

B. Average Days Lead

The bills for each G-1 and Non-G-1 DS supplier are analyzed to determine the days lead. The REC days lead are also analyzed. Average days lead is calculated by multiplying the lead period by the weighted percentage of aggregate costs. The weighted days are then totaled to obtain the average days lead period for DS suppliers and for the RECs. See pages 20 and 22 of this Study.

C. Weighted Cost

The cost of purchasing default service and RECs is divided by the total combined costs to determine a weighted cost. See pages 20 and 22 of this Study.

D. Weighted Days Lead

The weighted cost is multiplied by the average days lead to calculate the weighted days lead, resulting in 68.86 days for G1 customers and 51.74 days for Non-G1 customers. See pages 20 and 22 of this Study.

III. Summary

The results of the Study indicate a net Purchased Power lead period of 28.96 days for G1 customers and net lag period of 12.20 days for Non-G1 customers. See page 4 of this Study.

Unitil Energy Systems, Inc.
Number of Days Delay Between Receipt of Revenue and
Payment of Default Service Costs and Renewable Energy Credits
Based on 2018 Data

Line No.	Description	G1 Customers		Non-G1 Customers	
		Page Reference	Number of Days Delay	Page Reference	Number of Days Delay
1	Revenue Lag:				
2	Receipt of Electric Service to Meter Reading	5	15.21 days	5	15.21 days
3	Meter Reading to Recording of Accounts Receivable	6 - 10	1.12 days	6 - 10	1.12 days
4	Billing to Collection	11	21.84 days	12	45.88 days
5	Collection to Receipt of Available Funds	13 - 19	<u>1.73 days</u>	13 - 19	<u>1.73 days</u>
6	Subtotal Revenue Lag Days		39.90 days		63.94 days
Less: Lead in Payment of Default Service Costs and					
7	Renewable Energy Credits	20	<u>68.86 days</u>	22	<u>51.74 days</u>
Total Default Service and Renewable Energy Credit					
8	Lag (Line 6 Less Line 7)		<u><u>-28.96 days</u></u>		<u><u>12.20 days</u></u>

**Receipt of Electric Service to Meter Reading
Average Days Delay**

January 1, 2018 to December 31, 2018 Number of Days

January	31
February	28
March	31
April	30
May	31
June	30
July	31
August	31
September	30
October	31
November	30
December	31

1 28 Day Month	1*28	28
4 30 Day Months	4*30	120
7 31 Day Months	7*31	<u>217</u>
	Total	365 days

$$365 \text{ Days} / 12 \text{ Months} / 2 = \underline{\underline{15.21 \text{ days}}}$$

Unitil Energy Systems, Inc
Meter Reading to Recording of
Accounts Receivable

Month	Average Days
January 2018	1.03
February 2018	1.02
March 2018	1.02
April 2018	1.03
May 2018	1.15
June 2018	1.07
July 2018	1.03
August 2018	1.02
September 2018	1.23
October 2018	1.26
November 2018	1.31
December 2018	1.25
Average	1.12

Unitil Energy Systems, Inc.
Meter Reading to Recording of
Accounts Receivable
Monthly Detail

January 2018

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Weighted Days Lag
1	74,418	98.15%	1	0.98
2	1,013	1.34%	2	0.03
3	158	0.21%	3	0.01
4	47	0.06%	4	0.00
5	105	0.14%	5	0.01
6	47	0.06%	6	0.00
7	12	0.02%	7	0.00
8-14	21	0.03%	11	0.00
Over 14	2	0.00%	14	0.00
Total	75,823	100.00%		<u>1.03</u>

February 2018

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Weighted Days Lag
1	75,514	99.20%	1	0.99
2	268	0.35%	2	0.01
3	162	0.21%	3	0.01
4	121	0.16%	4	0.01
5	18	0.02%	5	0.00
6	14	0.02%	6	0.00
7	7	0.01%	7	0.00
8 to 14	14	0.02%	11	0.00
Over 14	2	0.00%	14	0.00
Total	76,120	100.00%		<u>1.02</u>

March 2018

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Wtd Days Lag
1	75,355	99.18%	1	0.99
2	206	0.27%	2	0.01
3	108	0.14%	3	0.00
4	83	0.11%	4	0.00
5	108	0.14%	5	0.01
6	74	0.10%	6	0.01
7	15	0.02%	7	0.00
8 to 14	31	0.04%	11	0.00
Over 14	-	0.00%	14	-
Total	75,980	100.00%		<u>1.02</u>

Unitil Energy Systems, Inc.
Meter Reading to Recording of
Accounts Receivable
Monthly Detail

April 2018

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Wtd Days Lag
1	75,201	99.11%	1	0.99
2	269	0.35%	2	0.01
3	25	0.03%	3	0.00
4	57	0.08%	4	0.00
5	143	0.19%	5	0.01
6	36	0.05%	6	0.00
7	68	0.09%	7	0.01
8 to 14	68	0.09%	11	0.01
Over 14	7	0.01%	14	0.00
Total	75,874	100.00%		<u>1.03</u>

May 2018

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Wtd Days Lag
1	68,756	89.59%	1	0.90
2	7,346	9.57%	2	0.19
3	87	0.11%	3	0.00
4	44	0.06%	4	0.00
5	67	0.09%	5	0.00
6	125	0.16%	6	0.01
7	56	0.07%	7	0.01
8 to 14	260	0.34%	11	0.04
Over 14	-	0.00%	14	-
Total	76,741	100.00%		<u>1.15</u>

June 2018

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Wtd Days Lag
1	74,149	97.98%	1	0.98
2	576	0.76%	2	0.02
3	69	0.09%	3	0.00
4	117	0.15%	4	0.01
5	110	0.15%	5	0.01
6	513	0.68%	6	0.04
7	31	0.04%	7	0.00
8 to 14	109	0.14%	11	0.02
Over 14	-	0.00%	14	-
Total	75,674	100.00%		<u>1.07</u>

Unitil Energy Systems, Inc.
Meter Reading to Recording of
Accounts Receivable
Monthly Detail

July 2018

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Wtd Days Lag
1	74,510	99.22%	1	0.99
2	134	0.18%	2	0.00
3	121	0.16%	3	0.00
4	109	0.15%	4	0.01
5	157	0.21%	5	0.01
6	15	0.02%	6	0.00
7	10	0.01%	7	0.00
8 to 14	42	0.06%	11	0.01
Over 14	-	0.00%	14	-
Total	75,098	100.00%		<u>1.03</u>

August 2018

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Wtd Days Lag
1	74,679	99.29%	1	0.99
2	86	0.11%	2	0.00
3	258	0.34%	3	0.01
4	143	0.19%	4	0.01
5	8	0.01%	5	0.00
6	12	0.02%	6	0.00
7	5	0.01%	7	0.00
8 to 14	21	0.03%	11	0.00
Over 14	-	0.00%	14	-
Total	75,212	100.00%		<u>1.02</u>

September 2018

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Wtd Days Lag
1	58,906	78.24%	1	0.78
2	16,083	21.36%	2	0.43
3	97	0.13%	3	0.00
4	106	0.14%	4	0.01
5	50	0.07%	5	0.00
6	11	0.01%	6	0.00
7	8	0.01%	7	0.00
8 to 14	27	0.04%	11	0.00
Over 14	1	0.00%	14	0.00
Total	75,289	100.00%		<u>1.23</u>

Unitil Energy Systems, Inc.
Meter Reading to Recording of
Accounts Receivable
Monthly Detail

October 2018

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Wtd Days Lag
1	61,536	81.91%	1	0.82
2	7,712	10.27%	2	0.21
3	5,671	7.55%	3	0.23
4	143	0.19%	4	0.01
5	26	0.03%	5	0.00
6	12	0.02%	6	0.00
7	4	0.01%	7	0.00
8 to 14	18	0.02%	11	0.00
Over 14	1	0.00%	14	0.00
Total	75,123	100.00%		<u>1.26</u>

November 2018

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Wtd Days Lag
1	57,285	76.40%	1	0.76
2	12,856	17.15%	2	0.34
3	4,650	6.20%	3	0.19
4	75	0.10%	4	0.00
5	48	0.06%	5	0.00
6	15	0.02%	6	0.00
7	9	0.01%	7	0.00
8 to 14	33	0.04%	11	0.00
Over 14	5	0.01%	14	0.00
Total	74,976	100.00%		<u>1.31</u>

December 2018

Days Lag	Number of Meters	Percent of Meters	Days Lag Multiplier	Wtd Days Lag
1	66,914	88.78%	1	0.89
2	549	0.73%	2	0.01
3	7,426	9.85%	3	0.30
4	69	0	4	0.00
5	76	0.10%	5	0.01
6	38	0.05%	6	0.00
7	56	0.07%	7	0.01
8 to 14	221	0.29%	11	0.03
Over 14	21	0.03%	14	0.00
Total	75,370	100.00%		<u>1.25</u>

Unitil Energy Systems, Inc. Number Of Days Lag In Billing To Collection Twelve Months Average 1/18 - 12/18 G1 Customers				
Month	Days in Month	Electric Sales Revenues	Daily Average (1/Days)	Accounts Receivable Electric Sales
		(1)	(2)	(3)
2018				
January	31	1,757,346	56,689	1,844,784
February	28	2,628,473	93,874	1,858,678
March	31	2,570,059	82,905	1,839,912
April	30	2,555,124	85,171	1,764,349
May	31	2,718,636	87,698	1,916,539
June	30	2,807,139	93,571	2,187,745
July	31	2,710,296	87,429	2,092,480
August	31	2,830,654	91,311	1,707,717
September	30	2,635,244	87,841	1,760,192
October	31	2,504,516	80,791	1,455,432
Novemeber	30	2,236,012	74,534	1,590,424
December	31	2,310,329	74,527	1,740,928
Total		30,263,829	996,341	21,759,181
Average		2,521,986	83,028	1,813,265
Payment Lag Days (3/2)				21.84

Unitil Energy Systems, Inc. Number Of Days Lag In Billing To Collection Twelve Months Average 1/18 - 12/18 Non-G1 Customers				
Month	Days in Month	Electric Sales Revenues	Daily Average (1/Days)	Accounts Receivable Electric Sales
		(1)	(2)	(3)
2018				
January	31	15,614,825	503,704	19,891,937
February	28	13,201,054	471,466	19,306,689
March	31	12,380,988	399,387	19,128,936
April	30	11,667,035	388,901	18,651,774
May	31	11,146,170	359,554	17,719,686
June	30	11,763,286	392,110	18,224,843
July	31	13,067,070	421,518	19,342,908
August	31	14,453,339	466,237	19,727,671
September	30	12,836,466	427,882	18,730,640
October	31	10,645,563	343,405	19,035,400
Novemeber	30	10,565,221	352,174	18,900,408
December	31	13,353,737	430,766	18,749,904
Total		\$ 150,694,755	\$ 4,957,104	\$ 227,410,796
Average		\$ 12,557,896	\$ 413,092	\$ 18,950,900
Payment Lag Days (3/2)				45.88

**Unitil Energy Systems, Inc.
Collection to Receipt of Available Funds**

Revenue Classification by Bank

Revenue is deposited into the remittance account on the day that the revenue is recorded as received.
The following day, the bank statement reflects the prior day's bank availability of funds.

Total Lag Days from Receipt of Funds to Notification of Availability of Funds 1.00 day

**Availability of Funds as reported on succeeding business day.
Source: Report on Previous Day Data, Citizens Bank**

2018	Percent of Funds				Weighted Lag Days		
	Available Same Day 0 Days Lag	1 Day Float 1 Day Lag	2-Day Float 2 Days Lag	Total	1 Day	2 Days	Total
January	28%	66%	6%	100%	0.66	0.12	0.78
February	31%	63%	6%	100%	0.63	0.12	0.75
March	30%	64%	6%	100%	0.64	0.12	0.76
April	27%	68%	5%	100%	0.68	0.11	0.79
May	29%	66%	5%	100%	0.66	0.10	0.76
June	29%	67%	4%	100%	0.67	0.07	0.75
July	31%	65%	4%	100%	0.65	0.09	0.73
August	35%	61%	4%	100%	0.61	0.08	0.70
September	35%	61%	4%	100%	0.61	0.08	0.70
October	34%	62%	4%	100%	0.62	0.08	0.70
November	35%	60%	5%	100%	0.60	0.09	0.69
December	38%	59%	3%	100%	0.59	0.07	0.66

Average Weighted Lag Days for Availability of Funds 0.73 days

Summary

Total Lag Days from Receipt of Funds to Notification of Availability of Funds	1.00 day
Average Weighted Lag Days for Availability of Funds	0.73 days
Total Lag Days from Collection to Availability of Funds:	1.73 days

Unitil Energy Systems, Inc.
Remittance Accounts

January, 2018	Available Balance	1 Day Float	2 Day Float	Total Available + Float
2	129,122	400,333	24,483	
3	152,614	483,678	12,093	
4	76,873	388,760	22,224	
5	49,008	48,562	21,479	
8	251,525	775,103	36,348	
9	349,245	229,621	16,875	
10	193,391	526,216	56,314	
11	63,675	186,304	59,716	
12	73,510	344,325	45,834	
16	621,190	723,854	35,557	
17	130,647	95,481	16,737	
18	25,003	325,941	27,071	
19	50,288	114,163	17,805	
22	40,311	308,531	11,492	
23	272,756	83,604	13,827	
24	87,312	263,258	16,980	
25	14,036	114,496	4,031	
26	77,752	141,686	52,441	
29	175,167	698,310	46,334	
30	5,063	177,162	18,788	
31	27,639	410,339	40,053	
	2,866,128	6,839,727	596,482	10,302,337
% of Available Funds	28%	66%	6%	100%
Float Days	0	1	2	
Weighted Float Days	-	0.66	0.12	0.78

February, 2018	Available Balance	1 Day Float	2 Day Float	Total Available + Float
1	19,362	180,402	17,060	
2	194,818	348,920	26,402	
5	105,212	805,681	177,647	
6	304,043	299,141	51,592	
7	247,770	429,275	37,439	
8	226,039	463,419	11,878	
9	123,783	366,693	42,223	
12	409,933	612,906	49,418	
13	515,603	385,424	22,637	
14	226,432	490,543	30,640	
15	5,392	302,553	25,927	
16	81,613	218,133	27,954	
20	490,114	572,565	12,944	
21	187,444	61,228	8,164	
22	30,663	206,765	21,486	
23	71,788	317,896	27,013	
26	187,518	500,954	29,012	
27	75,887	183,263	27,959	
28	46,883	367,843	30,589	
	3,550,298	7,113,604	677,984	11,341,886
% of Available Funds	31%	63%	6%	100%
Float Days	0	1	2	
Weighted Float Days	-	0.63	0.12	0.75

Unitil Energy Systems, Inc.
Remittance Accounts

March, 2018	Available Balance	1 Day Float	2 Day Float	Total Available + Float
1	1,510	95,965	12,781	
2	207,312	453,524	18,802	
5	84,305	680,390	45,040	
6	217,438	236,061	49,808	
7	157,741	546,171	31,728	
8	996	227,579	146,690	
9	64,381	226,528	29,710	
12	221,173	894,880	67,859	
13	415,602	178,857	14,303	
14	154,648	165,104	17,751	
15	34,926	266,594	35,606	
16	101,002	326,981	33,632	
19	258,843	450,620	26,094	
20	434,817	226,736	14,061	
21	145,230	216,271	9,649	
22	12,891	185,475	5,295	
23	228,450	135,697	4,855	
26	224,965	449,715	28,105	
27	211,430	87,204	13,584	
28	15,838	360,306	18,144	
29	23,054	319,413	14,448	
30	78,141	272,207	19,474	
	<u>3,294,693</u>	<u>7,002,278</u>	<u>657,419</u>	<u>10,954,390</u>
% of Available Funds	30%	64%	6%	100%
Float Days	<u>0</u>	<u>1</u>	<u>2</u>	
Weighted Float Days	<u>-</u>	<u>0.64</u>	<u>0.12</u>	<u>0.76</u>

April, 2018	Available Balance	1 Day Float	2 Day Float	Total Available + Float
2	73,174	501,567	29,013	
3	41,168	134,891	29,390	
4	37,945	448,034	28,580	
5	121,595	288,722	58,201	
6	86,851	724,170	36,192	
9	207,308	826,503	46,699	
10	319,779	478,472	62,494	
11	82,256	378,591	18,298	
12	20,520	468,762	36,390	
13	75,434	162,070	55,252	
16	318,923	322,753	14,540	
17	482,629	161,067	11,710	
18	166,890	229,897	8,285	
19	15,303	190,652	17,597	
20	134,515	174,057	3,891	
23	142,166	382,649	16,348	
24	304,486	189,278	8,152	
25	84,637	310,313	11,277	
26	7,414	177,371	11,545	
27	58,546	208,978	29,205	
30	53,392	460,689	49,199	
	<u>2,834,931</u>	<u>7,219,486</u>	<u>582,258</u>	<u>10,636,675</u>
% of Available Funds	27%	68%	5%	100%
Float Days	<u>0</u>	<u>1</u>	<u>2</u>	
Weighted Float Days	<u>-</u>	<u>0.68</u>	<u>0.11</u>	<u>0.79</u>

Unitil Energy Systems, Inc.
Remittance Accounts

May, 2018	Available Balance	1 Day Float	2 Day Float	Total Available + Float
1	24,244	145,407	18,763	
2	47,925	491,535	35,748	
3	97,346	292,663	48,237	
4	44,359	228,773	34,758	
7	116,191	1,277,377	34,716	
8	483,498	177,265	50,433	
9	95,772	335,720	44,234	
10	26,493	298,490	20,875	
11	82,722	193,978	19,129	
14	656,727	379,022	12,494	
15	87,461	194,408	10,495	
16	138,217	169,965	21,573	
17	5,761	371,688	8,634	
18	77,478	74,178	16,537	
21	287,685	375,261	12,424	
22	284,118	465,046	11,819	
23	87,908	134,807	11,050	
24	30,541	276,454	9,883	
25	43,073	155,953	8,906	
29	141,447	340,341	14,829	
30	106,683	113,201	18,763	
31	19,944	234,143	50,739	
	<u>2,985,594</u>	<u>6,725,675</u>	<u>515,039</u>	<u>10,226,308</u>
% of Available Funds	29%	66%	5%	100%
Float Days	<u>0</u>	<u>1</u>	<u>2</u>	
Weighted Float Days	<u>-</u>	<u>0.66</u>	<u>0.10</u>	<u>0.76</u>

June, 2018	Available Balance	1 Day Float	2 Day Float	Total Available + Float
1	67,027	564,231	13,715	
4	108,606	401,349	14,990	
5	111,060	323,565	46,254	
6	15,163	369,636	32,125	
7	316,821	322,023	19,181	
8	87,509	298,028	25,070	
11	203,577	821,388	27,583	
12	313,061	438,780	43,371	
13	85,135	355,743	22,085	
14	865	169,049	16,283	
15	72,055	111,439	5,947	
18	141,401	329,091	7,063	
19	465,741	248,019	8,258	
20	110,557	256,806	7,374	
21	14,943	218,918	6,515	
22	73,573	239,450	4,333	
25	172,951	278,573	5,837	
26	289,346	75,940	5,452	
27	22,500	194,357	29,186	
28	7,033	156,550	10,828	
29	101,831	236,837	6,476	
	<u>2,780,755</u>	<u>6,409,772</u>	<u>357,926</u>	<u>9,548,453</u>
% of Available Funds	29%	67%	4%	100%
Float Days	<u>0</u>	<u>1</u>	<u>2</u>	
Weighted Float Days	<u>-</u>	<u>0.67</u>	<u>0.07</u>	<u>0.75</u>

Unitil Energy Systems, Inc.
Remittance Accounts

July, 2018	Available Balance	1 Day Float	2 Day Float	Total Available + Float
2	188,261	588,849	31,294	
3	31,668	81,973	15,839	
5	55,501	587,288	38,619	
6	64,624	285,259	19,852	
9	146,790	667,365	27,019	
10	390,655	224,152	38,388	
11	185,644	286,391	42,283	
12	6,609	248,099	20,085	
13	65,245	303,802	16,475	
16	195,984	568,515	19,533	
17	24,638	167,598	17,530	
18	690,787	172,689	14,752	
19	23,221	157,647	14,015	
20	83,492	256,346	18,464	
23	235,327	578,173	29,495	
24	311,802	302,722	12,494	
25	111,754	225,609	16,341	
26	6,975	152,666	6,883	
27	84,808	183,840	9,484	
30	141,328	518,525	20,804	
31	152,548	113,848	23,554	
Total	3,197,659	6,671,356	453,203	10,322,218
% of Available Funds	31%	65%	4%	100%
Float Days	0	1	2	
Weighted Float Days	-	0.65	0.09	0.73

August, 2018	Available Balance	1 Day Float	2 Day Float	Total Available + Float
1	744	212,820	19,517	
2	58,415	335,731	20,863	
3	87,075	308,500	14,301	
6	194,438	887,562	47,551	
7	429,601	135,264	40,265	
8	129,541	364,857	41,403	
9	2,398	526,547	15,566	
10	121,394	159,604	5,197	
13	396,305	618,707	16,799	
14	404,088	198,039	10,739	
15	171,552	266,046	32,755	
16	27,649	92,507	15,558	
17	91,789	164,099	13,134	
20	259,513	381,162	17,342	
21	384,216	60,922	15,087	
22	174,723	200,848	6,544	
23	22,130	120,478	6,289	
24	139,538	175,973	9,505	
27	138,762	376,344	41,219	
28	110,685	131,381	16,297	
29	18,146	233,191	17,545	
30	132,386	223,049	7,750	
31	96,220	136,954	7,520	
Total	3,591,307	6,310,585	438,746	10,340,638
% of Available Funds	35%	61%	4%	100%
Float Days	0	1	2	
Weighted Float Days	-	0.61	0.08	0.70

Unitil Energy Systems, Inc.
Remittance Accounts

September, 2018	Available Balance	1 Day Float	2 Day Float	Total Available + Float
4	92,658	603,392	26,433	
5	28,516	119,258	33,424	
6	45,037	477,066	34,633	
7	338,578	456,863	24,637	
10	319,871	751,716	48,316	
11	468,791	213,490	30,365	
12	169,082	387,194	29,455	
13	20,859	162,167	16,172	
14	107,631	159,146	17,245	
17	132,327	872,681	17,343	
18	647,376	111,784	16,926	
19	133,199	183,577	7,079	
20	185,139	182,551	4,531	
21	92,240	124,638	5,990	
24	230,835	287,738	31,199	
25	309,447	145,257	9,797	
26	20,323	254,127	5,798	
27	19,867	346,873	35,040	
28	49,667	207,259	13,877	
	<u>3,411,442</u>	<u>6,046,777</u>	<u>408,260</u>	<u>9,866,479</u>
% of Available Funds	35%	61%	4%	100%
Float Days	<u>0</u>	<u>1</u>	<u>2</u>	
Weighted Float Days	<u>-</u>	<u>0.61</u>	<u>0.08</u>	<u>0.70</u>

October, 2018	Available Balance	1 Day Float	2 Day Float	Total Available + Float
1	135,065	537,044	18,211	
2	15,730	74,040	38,850	
3	75,879	359,642	25,809	
4	31,609	279,712	12,462	
5	222,404	247,227	13,708	
9	599,822	880,424	38,937	
10	209,765	60,766	23,083	
11	24,158	339,165	10,747	
12	155,524	261,025	22,907	
15	356,997	688,217	42,192	
16	455,587	245,256	21,136	
17	188,878	204,277	18,430	
18	311	170,658	14,888	
19	81,430	108,936	4,999	
22	130,500	271,937	9,696	
23	292,860	219,603	2,898	
24	92,807	126,450	2,879	
25	16,222	236,747	5,503	
26	88,697	106,001	23,636	
29	125,016	457,914	16,853	
30	141,084	74,777	12,755	
31	38,641	359,274	44,996	
	<u>3,478,987</u>	<u>6,309,092</u>	<u>425,575</u>	<u>10,213,654</u>
% of Available Funds	34%	62%	4%	100%
Float Days	<u>0</u>	<u>1</u>	<u>2</u>	
Weighted Float Days	<u>-</u>	<u>0.62</u>	<u>0.08</u>	<u>0.70</u>

Unitil Energy Systems, Inc.
Remittance Accounts

November, 2018	Available Balance	1 Day Float	2 Day Float	Total Available + Float
1	21,270	190,504	10,003	
2	117,874	145,047	11,758	
5	73,689	488,571	37,881	
6	307,337	122,830	32,169	
7	149,858	343,622	22,782	
8	7,032	350,527	18,620	
9	87,514	219,763	10,629	
13	226,717	503,671	19,558	
14	523,780	138,834	21,358	
15	20,204	199,633	27,145	
16	34,584	159,325	19,971	
19	216,300	576,530	23,570	
20	274,569	66,832	12,295	
21	359,916	205,642	3,701	
23	92,004	165,868	6,418	
26	98,205	197,410	28,972	
27	91,761	33,723	4,671	
28	20,546	171,874	20,977	
29	12,900	214,989	33,581	
30	63,685	254,367	6,818	
	2,799,745	4,749,562	372,877	7,922,184
% of Available Funds	35%	60%	5%	100%
Float Days	0	1	2	
Weighted Float Days	-	0.60	0.09	0.69

December, 2018	Available Balance	1 Day Float	2 Day Float	Total Available + Float
3	171,661	536,197	14,225	
4	32,274	106,340	25,966	
5	15,788	242,576	22,304	
6	312,471	313,212	31,200	
7	164,074	146,601	18,485	
10	249,558	483,173	33,935	
11	317,408	295,634	26,198	
12	76,602	251,930	6,755	
13	20,718	210,250	6,541	
14	103,552	99,096	3,926	
17	172,566	410,805	11,082	
18	394,831	309,581	8,070	
19	6,035	182,746	2,575	
20	49,015	143,828	18,271	
21	63,375	124,159	10,310	
24	229,600	293,528	10,213	
26	155,263	145,548	11,195	
27	362,323	149,806	8,469	
28	93,589	163,439	4,999	
31	135,981	270,146	11,356	
	3,126,684	4,878,595	286,075	8,291,354
% of Available Funds	38%	59%	3%	100%
Float Days	0	1	2	
Weighted Float Days	-	0.59	0.07	0.66

UNITIL ENERGY SYSTEMS, INC
LEAD IN PAYMENT OF DEFAULT SERVICE COSTS AND RENEWABLE ENERGY CREDITS

	Reference Page	Cost	% of Total	Average Days Lead	Weighted Days Lead
G1 Default Service Supplier Costs	Schedule DTN-2	\$ 3,779,938	95.56%	57.56 days	55.00 days
G1 Renewable Energy Credits	21	\$ 175,650	4.44%	312.10 days	13.86 days
Total		<u>\$ 3,955,588</u>	100.00%		<u>68.86 days</u>

UNITIL ENERGY SYSTEMS, INC
LEAD IN PAYMENT OF RENEWABLE ENERGY CREDITS

G1	2018												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
RECs*													
Period Begin	1/1/2018	2/1/2018	3/1/2018	4/1/2018	5/1/2018	6/1/2018	7/1/2018	8/1/2018	9/1/2018	10/1/2018	11/1/2018	12/1/2018	
Period End	1/31/2018	2/28/2018	3/31/2018	4/30/2018	5/31/2018	6/30/2018	7/31/2018	8/31/2018	9/30/2018	10/31/2018	11/30/2018	12/31/2018	
\$ Amount	\$0	\$0	\$0	\$13,048	\$16,541	\$13,646	\$14,377	\$15,844	\$14,029	\$12,477	\$11,813	\$11,042	\$122,816
% to Total	0.00%	0.00%	0.00%	7.43%	9.42%	7.77%	8.19%	9.02%	7.99%	7.10%	6.73%	6.29%	69.92%
Payment Date**	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	
Lead Period	531.50	502.00	472.50	442.00	411.50	381.00	350.50	319.50	289.00	258.50	228.00	197.50	
Weighted Days	-	-	-	32.83	38.75	29.60	28.69	28.82	23.08	18.36	15.33	12.42	227.88 days
REC Purchases***													
Period Begin	1/1/2018	1/1/2018	1/1/2018	1/1/2018	1/1/2018	1/1/2018	1/1/2018	1/1/2018	2/1/2018	2/1/2018	2/1/2018	2/1/2018	
Period End	1/31/2018	1/31/2018	1/31/2018	1/31/2018	1/31/2018	1/31/2018	1/31/2018	1/31/2018	2/28/2018	2/28/2018	2/28/2018	2/28/2018	
\$ Amount	\$2,069	\$2,136	\$1,951	\$1,804	\$1,741	\$2,537	\$1,898	\$2,633	\$840	\$3,869	\$2,404	\$209	
% to Total	1.18%	1.22%	1.11%	1.03%	0.99%	1.44%	1.08%	1.50%	0.48%	2.20%	1.37%	0.12%	
Payment Date	4/20/2018	5/18/2018	6/8/2018	7/13/2018	7/31/2018	8/30/2018	9/14/2018	10/26/2018	10/26/2018	10/31/2018	12/5/2018	12/18/2018	
Lead Period	94.50	122.50	143.50	178.50	196.50	226.50	241.50	283.50	254.00	259.00	294.00	307.00	
Weighted Days	1.11	1.49	1.59	1.83	1.95	3.27	2.61	4.25	1.21	5.71	4.02	0.37	
REC Purchases***													
Period Begin	2/1/2018	2/1/2018	2/1/2018	3/1/2018	3/1/2018	3/1/2018	3/1/2018	4/1/2018					
Period End	2/28/2018	2/28/2018	2/28/2018	3/31/2018	3/31/2018	3/31/2018	3/31/2018	4/30/2018					
\$ Amount	\$2,416	\$5,896	\$862	\$6,671	\$1,028	\$2,183	\$6,409	\$3,279					\$52,835
% to Total	1.38%	3.36%	0.49%	3.80%	0.58%	1.24%	3.65%	1.87%					30.08%
Payment Date	1/11/2019	1/25/2019	1/30/2019	1/30/2019	2/4/2019	2/15/2019	2/28/2019	2/28/2019					
Lead Period	331.00	345.00	350.00	320.50	325.50	336.50	349.50	319.00					
Weighted Days	4.55	11.58	1.72	12.17	1.90	4.18	12.75	5.96					84.22 days
Total \$ Amount													\$175,650

Weighted Days 312.10 days

* Estimated cost of RECs included in rates in 2018
** The last day to acquire 2018 Renewable Energy Credits and/or make alternative compliance payments is July 1, 2019
*** Actual purchasing activity for 2018 RECs applied in chronological order to monthly budgeted amounts.

UNITIL ENERGY SYSTEMS, INC
LEAD IN PAYMENT OF DEFAULT SERVICE COSTS AND RENEWABLE ENERGY CREDITS

	Reference Page	Cost	% of Total	Average Days Lead	Weighted Days Lead
Non-G1 Default Service Supplier Costs	Schedule DTN-2	\$ 54,952,961	94.73%	36.59 days	34.66 days
Non-G1 Renewable Energy Credits	23	\$ 3,054,745	5.27%	324.38 days	17.08 days
Total		<u>\$ 58,007,706</u>	100.00%		<u>51.74 days</u>

UNITIL ENERGY SYSTEMS, INC
LEAD IN PAYMENT OF RENEWABLE ENERGY CREDITS

NON-G1	2018												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
RECs*													
Period Begin	1/1/2018	2/1/2018	3/1/2018	4/1/2018	5/1/2018	6/1/2018	7/1/2018	8/1/2018	9/1/2018	10/1/2018	11/1/2018	12/1/2018	
Period End	1/31/2018	2/28/2018	3/31/2018	4/30/2018	5/31/2018	6/30/2018	7/31/2018	8/31/2018	9/30/2018	10/31/2018	11/30/2018	12/31/2018	
\$ Amount	\$0	\$0	\$116,965	\$291,463	\$259,446	\$205,338	\$253,109	\$256,329	\$217,668	\$197,494	\$204,629	\$170,441	\$2,172,883
% to Total	0.00%	0.00%	3.83%	9.54%	8.49%	6.72%	8.29%	8.39%	7.13%	6.47%	6.70%	5.58%	71.13%
Payment Date**	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	7/1/2019	
Lead Period	531.50	502.00	472.50	442.00	411.50	381.00	350.50	319.50	289.00	258.50	228.00	197.50	
Weighted Days	-	-	18.09	42.17	34.95	25.61	29.04	26.81	20.59	16.71	15.27	11.02	240.26 days
REC Purchases***													
Period Begin	1/1/2018	1/1/2018	1/1/2018	1/1/2018	1/1/2018	1/1/2018	1/1/2018	1/1/2018	1/1/2018	1/1/2018	2/1/2018	2/1/2018	
Period End	1/31/2018	1/31/2018	1/31/2018	1/31/2018	1/31/2018	1/31/2018	1/31/2018	1/31/2018	1/31/2018	1/31/2018	2/28/2018	2/28/2018	
\$ Amount	\$31,855	\$32,888	\$30,037	\$27,764	\$29,455	\$42,931	\$32,114	\$58,767	\$65,475	\$4,561	\$36,112	\$3,541	
% to Total	1.04%	1.08%	0.98%	0.91%	0.96%	1.41%	1.05%	1.92%	2.14%	0.15%	1.18%	0.12%	
Payment Date	4/20/2018	5/18/2018	6/8/2018	7/13/2018	7/31/2018	8/30/2018	9/14/2018	10/26/2018	10/31/2018	12/5/2018	12/5/2018	12/18/2018	
Lead Period	94.50	122.50	143.50	178.50	196.50	226.50	241.50	283.50	288.50	323.50	294.00	307.00	
Weighted Days	0.99	1.32	1.41	1.62	1.89	3.18	2.54	5.45	6.18	0.48	3.48	0.36	
REC Purchases***													
Period Begin	2/1/2018	2/1/2018	2/1/2018	2/1/2018	2/1/2018	3/1/2018	3/1/2018						
Period End	2/28/2018	2/28/2018	2/28/2018	2/28/2018	2/28/2018	3/31/2018	3/31/2018						
\$ Amount	\$40,880	\$99,763	\$127,467	\$17,387	\$8,299	\$28,635	\$163,934						\$881,862
% to Total	1.34%	3.27%	4.17%	0.57%	0.27%	0.94%	5.37%						28.87%
Payment Date	1/11/2019	1/25/2019	1/30/2019	2/4/2019	2/15/2019	2/15/2019	2/28/2019						
Lead Period	331.00	345.00	350.00	355.00	366.00	336.50	349.50						
Weighted Days	4.43	11.27	14.60	2.02	0.99	3.15	18.76						84.12 days
Total \$ Amount													\$3,054,745

Weighted Days 324.38 days

* Estimated cost of RECs included in rates in 2018
** The last day to acquire 2018 Renewable Energy Credits and/or make alternative compliance payments is July 1, 2019
*** Actual purchasing activity for 2018 RECs applied in chronological order to monthly budgeted amounts

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UNITIL ENERGY SYSTEMS, INC.

REDACTED WORKPAPERS

FOR THE

DEFAULT SERVICE AND
RENEWABLE ENERGY CREDITS

LEAD/LAG STUDY

FOR G1 AND NON-G1 CUSTOMERS

2018

REDACTED

UNITIL ENERGY SYSTEMS, INC
LEAD IN PAYMENT OF DEFAULT SERVICE COSTS AND RENEWABLE ENERGY CREDITS

	Reference Page	Cost	% of Total	Average Days Lead	Weighted Days Lead
Summary					
Total G1 Default Service Supplier Costs	Detail below	\$ 3,779,938	95.56%	57.56 days	55.00 days
G1 Renewable Energy Credits	Schedule DTN-1 p 21	\$ 175,650	4.44%	312.10 days	13.86 days
Total		<u>\$ 3,955,588</u>	100.00%		<u>68.86 days</u>
<u>Detail for G1 Default Service Supplier Costs</u>					
Supplier A	3	\$ 3,519,020	93.10%		
Supplier B	4	\$ 260,918	6.90%		
Total G1 Default Service Supplier Costs		<u>\$ 3,779,938</u>	100.00%		57.56 days

REDACTED
UNITIL ENERGY SYSTEMS, INC
LEAD IN PAYMENT OF ELECTRIC COSTS

DS SERVICE POWER SUPPLY CONTRACTS

G1 SUPPLIERS	MONTH ENERGY PURCHASES DELIVERED												
	2018												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Supplier A													
Normal Service													
Period Begin	1/1/2018	2/1/2018	3/1/2018	4/1/2018	5/1/2018	6/1/2018	7/1/2018	8/1/2018	9/1/2018	10/1/2018	11/1/2018		
Period End	1/31/2018	2/28/2018	3/31/2018	4/30/2018	5/31/2018	6/30/2018	7/31/2018	8/31/2018	9/30/2018	10/31/2018	11/30/2018		
\$ Amount	\$ 462,447	\$ 187,157	\$ 177,826	\$ 186,391	\$ 191,751	\$ 188,602	\$ 176,190	\$ 398,827	\$ 285,640	\$ 268,689	\$ 311,020		\$ 2,834,540
% to Total	13.14%	5.32%	5.05%	5.30%	5.45%	5.36%	5.01%	11.33%	8.12%	7.64%	8.84%		80.55%
Payment Date													
Lead Period													
Weighted Days													
Prior Period Adjustments (shown in billing period in 2018)													
Period Begin	1/1/2018	2/1/2018	3/1/2018	4/1/2018	5/1/2018	6/1/2018	7/1/2018		9/1/2018	10/1/2018			
Period End	1/31/2018	2/28/2018	3/31/2018	4/30/2018	5/31/2018	6/30/2018	7/31/2018		9/30/2018	10/31/2018			
\$ Amount	\$ 70,708	\$ 23,147	\$ (1,237)	\$ 120,688	\$ 192,272	\$ 147,778	\$ 121,724		\$ 12,116	\$ (2,717)			\$ 684,480
% to Total	2.01%	0.66%	-0.04%	3.43%	5.46%	4.20%	3.46%		0.34%	-0.08%			19.45%
Payment Date													
Lead Period													
Weighted Days													
Total \$ Amount	\$ 533,155	\$ 210,304	\$ 176,589	\$ 307,079	\$ 384,024	\$ 336,381	\$ 297,914	\$ 398,827	\$ 297,756	\$ 265,972	\$ 311,020	\$ -	\$ 3,519,020
Weighted Days													

00287

REDACTED
UNITIL ENERGY SYSTEMS, INC
LEAD IN PAYMENT OF ELECTRIC COSTS

DS SERVICE POWER SUPPLY CONTRACTS

G1 SUPPLIERS	MONTH ENERGY PURCHASES DELIVERED												
	2018												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Supplier B													
Normal Service													
Period Begin													
Period End													
\$ Amount													\$ -
% to Total													0.00%
Payment Date													
Lead Period													
Weighted Days													
Prior Period Adjustments (shown in billing period in 2018)													
Period Begin												12/1/2018	
Period End												12/31/2018	
\$ Amount												\$ 260,918	\$ 260,918
% to Total												100.00%	100.00%
Payment Date													
Lead Period													
Weighted Days													
Total \$ Amount	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 260,918	\$ 260,918
Weighted Days													

00288

REDACTED

UNITIL ENERGY SYSTEMS, INC
LEAD IN PAYMENT OF DEFAULT SERVICE COSTS AND RENEWABLE ENERGY CREDITS

	Reference Page	Cost	% of Total	Average Days Lead	Weighted Days Lead
Summary					
Total Non-G1 Default Service Supplier Costs	see below	\$ 54,952,961	94.73%	36.59 days	34.66 days
Renewable Energy Credits	Schedule DTN-1 p 23	\$ 3,054,745	5.27%	324.38 days	17.08 days
Total		<u>\$ 58,007,706</u>	100.00%		<u>51.74 days</u>
<u>Detail for Non-G1 Default Service Supplier Costs</u>					
Supplier C	6	\$ 15,358,355	27.95%		
Supplier D	7	\$ 14,161,286	25.77%		
Supplier E	8	\$ 9,198,362	16.74%		
Supplier F	9	\$ 16,234,958	29.54%		
Total Non-G1 Default Service Supplier Costs		\$ 54,952,961	100.00%		36.59 days

REDACTED
UNITIL ENERGY SYSTEMS, INC
LEAD IN PAYMENT OF ELECTRIC COSTS

DS SERVICE POWER SUPPLY CONTRACTS

NON-G1 SUPPLIERS	MONTH ENERGY PURCHASES DELIVERED												
	2018												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Supplier C													
Normal Service													
Period Begin							7/1/2018	8/1/2018	9/1/2018	10/1/2018	11/1/2018		
Period End							7/31/2018	8/31/2018	9/30/2018	10/31/2018	11/30/2018		
\$ Amount							\$ 3,597,793	\$ 3,534,574	\$ 2,699,624	\$ 2,540,440	\$ 3,019,695		\$ 15,392,126
% to Total							23.43%	23.01%	17.58%	16.54%	19.66%		100.22%
Payment Date													
Lead Period													
Weighted Days													
Prior Period Adjustments (shown in billing period in 2018)													
Period Begin			3/1/2018	4/1/2018	5/1/2018	6/1/2018	7/1/2018		9/1/2018	10/1/2018			
Period End			3/31/2018	4/30/2018	5/31/2018	6/30/2018	7/31/2018		9/30/2018	10/31/2018			
\$ Amount			\$ (129,694)	\$ (1,440)	\$ 22,792	\$ (59,396)	\$ (21,262)		\$ 41,119	\$ 114,111			\$ (33,770)
% to Total			-0.84%	-0.01%	0.15%	-0.39%	-0.14%		0.27%	0.74%			-0.22%
Payment Date													
Lead Period													
Weighted Days													
Total \$ Amount	\$ -	\$ -	\$ (129,694)	\$ (1,440)	\$ 22,792	\$ (59,396)	\$ 3,576,531	\$ 3,534,574	\$ 2,740,743	\$ 2,654,551	\$ 3,019,695	\$ -	\$ 15,358,355
Weighted Days													

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REDACTED
UNITIL ENERGY SYSTEMS, INC
LEAD IN PAYMENT OF ELECTRIC COSTS

DS SERVICE POWER SUPPLY CONTRACTS

NON-G1 SUPPLIERS	MONTH ENERGY PURCHASES DELIVERED												
	2018												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Supplier D													
Normal Service													
Period Begin						6/1/2018	7/1/2018	8/1/2018	9/1/2018	10/1/2018	11/1/2018	12/1/2018	
Period End						6/30/2018	7/31/2018	8/31/2018	9/30/2018	10/31/2018	11/30/2018	12/31/2018	
\$ Amount						\$ 975,029	\$ 1,187,482	\$ 1,282,301	\$ 1,166,261	\$ 1,113,753	\$ 1,160,397	\$ 7,102,526	\$ 13,987,748
% to Total						6.89%	8.39%	9.05%	8.24%	7.86%	8.19%	50.15%	98.77%
Payment Date													
Lead Period													
Weighted Days													
Prior Period Adjustments (shown in billing period in 2018)													
Period Begin						6/1/2018	7/1/2018	8/1/2018	9/1/2018	10/1/2018			
Period End						6/30/2018	7/31/2018	8/31/2018	9/30/2018	10/31/2018			
\$ Amount						\$ 68,676	\$ 147,692	\$ 46,474	\$ (40,391)	\$ (48,914)			\$ 173,538
% to Total						0.48%	1.04%	0.33%	-0.29%	-0.35%			1.23%
Payment Date													
Lead Period													
Weighted Days													
Total \$ Amount	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,043,706	\$ 1,335,173	\$ 1,328,776	\$ 1,125,870	\$ 1,064,839	\$ 1,160,397	\$ 7,102,526	\$ 14,161,286
Weighted Days													

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REDACTED
UNITIL ENERGY SYSTEMS, INC
LEAD IN PAYMENT OF ELECTRIC COSTS

DS SERVICE POWER SUPPLY CONTRACTS

NON-G1 SUPPLIERS	MONTH ENERGY PURCHASES DELIVERED												
	2018												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Supplier E													
Normal Service													
Period Begin	1/1/2018	2/1/2018	3/1/2018	4/1/2018	5/1/2018	6/1/2018							
Period End	1/31/2018	2/28/2018	3/30/2018	4/30/2018	5/31/2018	6/30/2018							
\$ Amount	\$ 1,996,803	\$ 1,302,619	\$ 1,537,585	\$ 819,877	\$ 786,641	\$ 2,586,507							\$ 9,030,031
% to Total	21.71%	14.16%	16.72%	8.91%	8.55%	28.12%							98.17%
Payment Date													
Lead Period													
Weighted Days													
Prior Period Adjustments (shown in billing period in 2018)													
Period Begin	1/1/2018	2/1/2018											
Period End	1/31/2018	2/28/2018											
\$ Amount	\$ 155,088	\$ 13,243											\$ 168,331
% to Total	1.69%	0.14%											1.83%
Payment Date													
Lead Period													
Weighted Days													
Total \$ Amount	\$ 2,151,891	\$ 1,315,863	\$ 1,537,585	\$ 819,877	\$ 786,641	\$ 2,586,507	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,198,362
Weighted Days													

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REDACTED
UNITIL ENERGY SYSTEMS, INC
LEAD IN PAYMENT OF ELECTRIC COSTS

DS SERVICE POWER SUPPLY CONTRACTS

NON-G1 SUPPLIERS	MONTH ENERGY PURCHASES DELIVERED												
	2018												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Supplier F													
Normal Service													
Period Begin	1/1/2018	2/1/2018	3/1/2018	4/1/2018	5/1/2018								
Period End	1/31/2018	2/28/2018	3/30/2018	4/30/2018	5/31/2018								
\$ Amount	\$ 4,964,301	\$ 3,773,698	\$ 2,827,237	\$ 2,283,951	\$ 2,109,021								\$ 15,958,208
% to Total	30.58%	23.24%	17.41%	14.07%	12.99%								98.30%
Payment Date													
Lead Period													
Weighted Days													
Prior Period Adjustments													
(shown in billing period in 2018)													
Period Begin	1/1/2018	2/1/2018	3/1/2018										
Period End	1/31/2018	2/28/2018	3/30/2018										
\$ Amount	\$ (15,983)	\$ 60,487	\$ 232,246										\$ 276,750
% to Total	-0.10%	0.37%	1.43%										1.70%
Payment Date													
Lead Period													
Weighted Days													
Total \$ Amount	\$ 4,948,318	\$ 3,834,185	\$ 3,059,483	\$ 2,283,951	\$ 2,109,021	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,234,958
Weighted Days													

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