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PUBLIC SERVICE COMMISSION

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March 31, 2022

VIA E-MAIL TRANSMISSION

Ms. Linda C. Bridwell, P.E. **Executive Director** Kentucky Public Service Commission P.O. Box 615 211 Sower Boulevard Frankfort, KY 40602

Re:

PSC Case Nos. 2014-00034 and 2016-00316 – Economic Development Rate

Contract Reports

Dear Ms. Bridwell:

Pursuant to the Commission's June 20, 2014 Order in Case No. 2014-00034 and its November 21, 2016 Order in Case No. 2016-00316, please find enclosed for filing the 2021 Economic Development Rate Contract Reports for East Kentucky Power Cooperative, Inc. ("EKPC").

In Case No. 2016-00316, the Commission approved EKPC's first special contract incorporating the Economic Development Rider ("EDR") since the approval of that Rider in Case No. 2014-00034. The Commission clarified that two annual reports would be required and both would be due by March 31 of each year. This first contract is between EKPC, South Kentucky RECC ("South Kentucky"), and Kroger and became effective December 1, 2016.

During 2021 EKPC had four active EDR contracts:

- EKPC, South Kentucky, and Kroger contract, effective December 1, 2016. The enclosed report for the Kroger contract reflects 12 months of operations; however, the EDR discount for Kroger ended with the November 2021 billing.
- EKPC, Owen Electric Cooperative, Inc. ("Owen"), and Wayfair LLC contract, effective March 1, 2017. The enclosed report for the Wayfair contract reflects 12 months of operations. During the last 48 months of the EDR discount period, Wayfair could have missed the 60% load factor requirement a total of eight times and still receive the EDR discount. Wayfair missed the 60% load factor requirement for the eighth time with the May 2020 billing. Wayfair missed the 60% load factor requirement in all months in 2021 except August; consequently, no EDR discount was applied to the bills for those months.

- EKPC, Owen, and Safran Landings contract, effective February 1, 2020. Safran Landings was an existing customer of Owen that undertook an expansion of its operations, which qualified for the EDR. All monthly demand over 9,600 kW is eligible for the EDR discount. The enclosed report for Safran Landings reflects 12 months of operations under the new EDR contract. It should be noted that Safran Landings is also an interruptible service customer.
- EKPC, Fleming-Mason Energy Cooperative, and AppHarvest Morehead Farm, LLC ("AppHarvest") contract. This contract was effective July 1, 2019 but AppHarvest did not commence operations until October 2020. The enclosed report for AppHarvest reflects 12 months of operations under the EDR contract. AppHarvest is also an interruptible service customer. As shown in the report and supporting spreadsheet, the net demand revenues did not cover the demand marginal cost. This is not an unexpected result, as the first year of the EDR uses the highest discount percentage. Over the five year EDR discount period, EKPC would expect that the total net demand revenues for that period will exceed the corresponding demand marginal costs.

EKPC would note that on November 16, 2020 the Commission in Case No. 2020-00193 approved a special contract between EKPC, Inter-County Energy Cooperative Corporation, and Diageo Americas Supply, Inc. ("Diageo"). This special contract is the fifth EDR contract EKPC has entered into since the adoption of the EDR tariff. While the special contract is effective November 16, 2020, the EDR does not become effective until July 1, 2022. As the EDR for Diageo was not in effect during 2021, it is not reflected in the enclosed report.

The undersigned hereby certifies that the electronic filing was transmitted to the Commission on March 31, 2022; there are currently no parties that the Commission has excused from participation by electronic means in this proceeding; and, pursuant to the Commission's July 22, 2021 Order in Case No. 2020-00085, no paper copies of this filing will be filed.

Please do not hesitate to contact me if you have any questions.

L. Allyson Honaker

Counsel for East Kentucky Power Cooperative, Inc.

Enc.

2021 Report of Revenues Received and Marginal Costs Associated with Serving the Customer

Member Distribution Cooperative: South Kentucky RECC

EDR Customer: Kroger EKPC Rate Schedule: Rate B

Revenues

Demand Charge Revenues Billed	\$40,650
Energy Charge Revenues Billed	<u>\$124,948</u>
Total Revenues	\$165,598

Marginal Costs

Demand:

Billed demand (kW) 6,126 Marginal Demand Cost \$21,272

(See attached spreadsheet for calculations)

Energy:

Billed Energy (kWh) 3,261,800

Marginal Energy Cost \$120,638

(See attached spreadsheet for calculations)

Total Marginal Costs <u>\$ 141,910</u>

The EDR discount period ended with the November 2021 bill.

2021 Report of Revenues Received and Marginal Costs Associated with Serving the Customer

Member Distribution Cooperative: Owen Electric Cooperative, Inc.

EDR Customer: Wayfair LLC EKPC Rate Schedule: Rate B

Revenues

Demand Charge Revenues Billed	\$43,141
Energy Charge Revenues Billed	\$ 90,592
Total Revenues	\$133,733

Marginal Costs

Demand:

Billed demand (kW) 6,000 Marginal Demand Cost \$19,770

(See attached spreadsheet for calculations)

Energy:

Billed Energy (kWh) 2,446,744

Marginal Energy Cost \$90,778

(See attached spreadsheet for calculations)

Total Marginal Costs \$110,548

2021 Report of Revenues Received and Marginal Costs Associated with Serving the Customer

Member Distribution Cooperative: Owen Electric Cooperative, Inc.

EDR Customer: Safran Landings

EKPC Rate Schedule: Rate B with Interruptible Service

Revenues

Demand Charge Revenues Billed	\$615,857
Energy Charge Revenues Billed	\$3,148,126
Total Revenues	\$3,763,983

Marginal Costs

Demand:

Billed demand (kW) 130,145

Marginal Demand Cost \$456,124

(See attached spreadsheet for calculations)

Energy:

Billed Energy (kWh) 80,021,552

Marginal Energy Cost \$3,093,410

(See attached spreadsheet for calculations)

Total Marginal Costs \$3,549,534

2021 Report of Revenues Received and Marginal Costs Associated with Serving the Customer

Member Distribution Cooperative: Fleming-Mason Energy Cooperative

EDR Customer: AppHarvest Morehead Farm, LLC EKPC Rate Schedule: Rate B with Interruptible Service

Revenues

Demand Charge Revenues Billed	\$270,907
Energy Charge Revenues Billed –	
Actual Energy Use, Buy-through & FAC	\$1,594,824
Minimum Energy Requirement Billed	\$ 129,003
Total Revenues	<u>\$1,994,734</u>

Marginal Costs

Demand:

Billed demand (kW) 125,701

Marginal Demand Cost \$392,125

(See attached spreadsheet for calculations)

Energy:

Billed Energy (kWh) 45,544,298

Marginal Energy Cost \$1,376,482

(See attached spreadsheet for calculations)

Total Marginal Costs \$1,768,607

The Billed Energy reported under "Marginal Costs" includes 9,537,564 kWh in energy billed to AppHarvest to meet minimum energy requirements per the contract and applicable tariffs. EKPC did not have to provide this energy to AppHarvest nor was it reflected in any market purchases made by EKPC. The Marginal Energy Cost shown above does not include the 9,537,564 kWh for the minimum energy requirements.

ECONOMIC DEVELOPMENT RATE CONTRACT REPORT

UTILITY: East Kentucky Power Cooperative, Inc. YEAR: 2021

			Current Reporting <u>Period</u>	<u>Cumulative</u>
1)	Numb	er of EDR Contracts –		
		Total:	0	4
		Existing Customers:	0	1
		New Customers:	0	3
2)	Numb	per of Jobs Created –		
_/		Total:	0	865
		Existing Customers:	0	80
		New Customers:	0	785
3)	Δmou	ant of Capital Investment –		
3)	7111100	Total:	\$0	\$215.7M
		Existing Customers:	\$0	\$100.0M
		New Customers:	\$0	\$115.7M
4)	Consu	ımption –		
• /	Const	anpuon		
			Current	
			Reporting	
			<u>Period</u>	<u>Cumulative</u>
	(A)	DEMAND		
	()	Total:	267,972 kW	456,766 kW
		Existing Customers:	130,145 kW	224,109 kW
		New Customers:	137,827 kW	232,657 kW
	(B)	ENERGY/CONSUMPTION		
		Total:	131,274,394 kWh	237,245,423 kWh
		Existing Customers:	80,021,552 kWh	141,950,642 kWh
		New Customers:	51,252,842 kWh	95,294,781 kWh
			•	

1 EDR Analysis CY 2021.xlsx

2 Analysis of EDR Customers' Billings for Calendar Year 2021

5 Cooperative: 6 Customer:

South Kentucky RECC Kroger Limited Partnership

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9	Billed	Units		Billed Revenues		Ma	rginal Cost - Demand	d	Ma	arginal Cost - Energy	1
10 Month	Demand (kW)	Energy (kWh)	Demand	Energy	FAC	\$ / kW-month	Monthly Cost	Difference	Purchase Cost	Monthly Cost	Difference
11											
12 January 2021	500	236,435	\$3,226	\$9,217	(\$939)	\$2.33	\$1,165	\$2,061	\$0.026178	\$6,189	\$2,089
13 February	500	208,852	\$3,226	\$8,141	(\$1,019)	\$2.33	\$1,165	\$2,061	\$0.035569	\$7,429	(\$307)
14 March	500	250,147	\$3,226	\$9,751	\$538	\$2.33	\$1,165	\$2,061	\$0.025291	\$6,326	\$3,963
15 April	500	246,916	\$3,226	\$9,625	(\$1,035)	\$2.33	\$1,165	\$2,061	\$0.024044	\$5,937	\$2,653
16 May	500	279,065	\$3,226	\$10,879	(\$1,973)	\$2.33	\$1,165	\$2,061	\$0.025577	\$7,138	\$1,768
17 June	534	315,938	\$3,531	\$12,316	(\$1,472)	\$4.26	\$2,275	\$1,256	\$0.031509	\$9,955	\$889
18 July	540	349,376	\$3,585	\$13,619	(\$1,408)	\$4.26	\$2,300	\$1,285	\$0.037172	\$12,987	(\$776)
19 August	542	342,158	\$3,603	\$13,338	(\$1,191)	\$4.26	\$2,309	\$1,294	\$0.034528	\$11,814	\$333
20 September	510	300,488	\$3,316	\$11,714	(\$802)	\$4.26	\$2,173	\$1,143	\$0.049538	\$14,886	(\$3,974)
21 October	500	272,911	\$3,370	\$10,885	(\$246)	\$4.26	\$2,130	\$1,240	\$0.057107	\$15,585	(\$4,946)
22 November	500	221,411	\$3,370	\$8,831	\$2,491	\$4.26	\$2,130	\$1,240	\$0.058512	\$12,955	(\$1,633)
23 December 2021	500	238,103	\$3,745	\$9,497	\$4,191	\$4.26	\$2,130	\$1,615	\$0.039633	\$9,437	\$4,251
24						-			-		
25 Totals	6,126	3,261,800	\$40,650	\$127,813	(\$2,865)	_	\$21,272	\$19,378	_	\$120,638	\$4,310
26						-			-		

a 30% discount factor; December 2019 to November 2020 a 20% discount factor; December 2020 to November 2021 a 10% discount factor. The EDR discount ended with the November 2021 bill.

Marginal Cost - Energy

Monthly Cost

\$5,236

\$7,114

\$5,058

\$4,809

\$5.115

\$6 473

\$7,677

\$7,574

\$10,672

\$11,421

\$11 702

\$7,927

\$90,778

Difference

\$1,189

(\$1,226)

\$2,628

\$1,789

\$1,123

\$578

(\$459)

\$214

(\$2,849)

(\$3,682)

(\$2.286)

\$2,795

(\$186)

Net Billed Revenues - Energy

\$124,948

Notes: Billed demand in June through September was greater than contract demand; excess demand billed at \$9.98 per kW times 10% discount.

Contract started in December 2016; from December 2016 to November 2017 a 50% discount factor; from December 2017 to November 2018 a 40% discount factor; from December 2018 to November 2019

Owen Electric

Wavfair LLC

6.000

32 33

34 Cooperative: 35 Customer:

36 37 38

Billed Revenues Billed Units Marginal Cost - Demand 39 Month \$ / kW-month Monthly Cost Demand (kW) Energy (kWh) Demand Energy Difference Purchase Cost 40 41 January 2021 200,000 \$3,585 \$7,116 (\$691) \$2.33 \$1,165 \$2,420 \$0.026178 (\$763) 42 February 500 200,000 \$3,585 \$6,651 \$2.33 \$1,165 \$2,420 \$0.035569 43 March 500 200,000 \$3,585 \$7,297 \$389 \$2.33 \$1,165 \$2,420 \$0.025291 44 April \$3,585 \$2.33 \$0.024044 500 200,000 \$7,368 (\$770) \$1,165 \$2,420 45 May 500 200.000 \$3.585 \$7.599 (\$1,361) \$2.33 \$1.165 \$2,420 \$0.025577 500 205,440 \$3.585 \$8,008 \$2.33 \$1,165 \$2,420 \$0.031509 46 June (\$957)47 July 500 206,515 \$3,585 \$8,050 (\$832) \$4.26 \$2,130 \$1,455 \$0.037172 48 August 500 219,366 \$3,226 \$8,551 (\$763) \$4.26 \$2,130 \$1,096 \$0.034528 49 September 500 215,423 \$3,585 \$8,398 (\$575) \$4.26 \$2,130 \$1,455 \$0.049538 50 October 500 200,000 \$3,745 \$7,917 (\$178) \$4.26 \$2,130 \$1,615 \$0.057107 \$3,745 \$0.058512 51 November 500 200,000 \$7 409 \$2,007 \$4.26 \$2 130 \$1 615 \$3,745 52 December 2021 200,000 \$7,513 \$4.26 \$2,130 500 \$3,209 \$1,615 \$0.039633 53

\$91,877

60

61 62 Totals

Net Billed Revenues - Energy \$90,592

\$43,141

2,446,744

Notes: During the last 48 months of the discount period, Wayfair is permitted to miss the 60% load factor requirement 8 times and still receive the EDR discount. Wayfair missed the 60% load factor for the 8th time with the May 2020 billing. During 2021 Wayfair achieved a 60% load factor only in the month of August and a 10% EDR credit was applied to the billing. Contract started in March 2017; from March 2017 to February 2018 a 50% discount factor; from March 2018 to February 2019 a 40% discount factor; from March 2017 to February 2020 a 30% discount factor;

\$19,770

\$23,371

from March 2020 to February 2021 a 20% discount factor; from March 2021 to December 2021 a 10% discount factor.

1 EDR Analysis CY 2021.xlsx 2 Analysis of EDR Customers' Billings for Calendar Year 2021

63 Cooperative:

Owen Electric Safran Landings

64	Customer:
65	
66	
67	

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67	Billed	Units		Billed Revenues		Ma	rginal Cost - Demand	d	M	arginal Cost - Energy	,
68 Month	Demand (kW)	Energy (kWh)	Demand	Energy	FAC	\$ / kW-month	Monthly Cost	Difference	Purchase Cost	Monthly Cost	Difference
69											
70 January 2021	7,000	4,565,306	\$44,590	\$177,965	(\$18,124)	\$2.33	\$16,310	\$28,280	\$0.026178	\$119,511	\$40,330
71 February	7,750	4,442,899	\$45,768	\$173,266	(\$21,681)	\$2.33	\$18,058	\$27,710	\$0.035569	\$158,029	(\$6,444)
72 March	8,068	5,520,352	\$46,267	\$215,194	\$11,869	\$2.33	\$18,798	\$27,469	\$0.025291	\$139,615	\$87,448
73 April	9,809	5,827,509	\$48,870	\$227,168	(\$24,417)	\$2.33	\$22,855	\$26,015	\$0.024044	\$140,117	\$62,634
74 May	9,831	6,308,642	\$48,889	\$245,923	(\$44,602)	\$2.33	\$22,906	\$25,983	\$0.025577	\$161,356	\$39,965
75 June	8,471	6,270,972	\$46,899	\$245,293	(\$29,223)	\$2.33	\$19,737	\$27,162	\$0.031509	\$197,592	\$18,478
76 July	9,366	7,565,149	\$48,304	\$295,728	(\$30,488)	\$4.26	\$39,899	\$8,405	\$0.037172	\$281,212	(\$15,972)
77 August	12,365	8,265,776	\$51,277	\$330,789	(\$28,765)	\$4.26	\$52,675	(\$1,398)	\$0.034528	\$285,401	\$16,623
78 September	12,485	8,209,784	\$61,389	\$321,202	(\$21,920)	\$4.26	\$53,186	\$8,203	\$0.049538	\$406,696	(\$107,414)
79 October	15,500	8,243,835	\$58,435	\$328,797	(\$7,419)	\$4.26	\$66,030	(\$7,595)	\$0.057107	\$470,781	(\$149,403)
80 November	15,500	7,758,831	\$58,435	\$309,453	\$87,287	\$4.26	\$66,030	(\$7,595)	\$0.058512	\$453,985	(\$57,245)
81 December 2021	14,000	7,042,497	\$56,734	\$280,883	\$123,948	\$4.26	\$59,640	(\$2,906)	\$0.039633	\$279,115	\$125,716
82											
83 Totals	130,145	80,021,552	\$615,857	\$3,151,661	(\$3,535)	_	\$456,124	\$159,733	_	\$3,093,410	\$54,716
84						-			-		

Net Billed Revenues - Energy

\$3,148,126

Notes: Safran Landings is an existing customer who expanded operations and the EDR is applicable only to monthly demand in excess of 9,600 kW; if demand is lower than 9,600 kW, no EDR credit for the month. Sarran Landings is an existing customer who expanded operations and the EDR is applicable only to monthly demand in excess or 9,000 kW, in demand is lower than 9,000 EDR credits were not provided for January through March, June, and July 2021.

Safran Landings is also an interruptible service customer; the EDR discount is applied to demand charges after the interruptible demand credit has been applied to the bill. Billing analysis is for total company operations and reflects any applicable interruptible demand credits; the expanded operations are not separately metered.

New contract started in February 2020; from February 2020 to January 2021 a 50% discount factor; from February 2021 to December 2021 a 40% discount factor.

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1 EDR Analysis CY 2021.xlsx

2 Analysis of EDR Customers' Billings for Calendar Year 2021

94 Cooperative:

Fleming-Mason Energy 95 Customer: AppHarvest Morehead Farm

96 97 As Billed Basis

97	As Billed Basis:											
98		Billed	Units	E	Billed Revenues		Ma	rginal Cost - Demand	d	Marginal	Cost - Energy - Bille	d Basis
99	Month	Demand (kW)	Energy (kWh)	Demand	Energy	FAC	\$ / kW-month	Monthly Cost	Difference	Purchase Cost	Monthly Cost	Difference
100												
101	January 2021	19,815	4,869,714	\$35,518	\$189,831	(\$19,333)	\$2.33	\$46,169	(\$10,651)	\$0.026178	\$127,479	\$43,019
102	February	20,021	5,693,812	\$35,680	\$222,107	(\$27,786)	\$2.33	\$46,649	(\$10,969)	\$0.035569	\$202,523	(\$8,202)
103	March	13,386	3,866,352	\$30,472	\$150,718	\$8,313	\$2.33	\$31,189	(\$717)	\$0.025291	\$97,784	\$61,247
104	April	18,199	2,025,073	\$18,290	\$78,941	(\$8,485)	\$2.33	\$42,404	(\$24,114)	\$0.024044	\$48,691	\$21,765
105	May	1,430	1,375,449	\$5,126	\$53,618	(\$9,724)	\$2.33	\$3,332	\$1,794	\$0.025577	\$35,180	\$8,714
106	June	1,430	572,000	\$5,126	\$16,477	(\$1,632)	\$2.33	\$3,332	\$1,794	\$0.031509	\$18,023	(\$3,178)
107	July	1,430	572,000	\$5,126	\$14,926	(\$1,173)	\$4.26	\$6,092	(\$966)	\$0.037172	\$21,262	(\$7,509)
108	August	1,430	572,000	\$5,126	\$12,056	(\$632)	\$4.26	\$6,092	(\$966)	\$0.034528	\$19,750	(\$8,326)
109	September	1,430	572,000	\$5,126	\$12,875	(\$568)	\$4.26	\$6,092	(\$966)	\$0.049538	\$28,336	(\$16,029)
110	October	27,130	10,852,000	\$54,723	\$215,413	(\$2,310)	\$4.26	\$115,574	(\$60,851)	\$0.057107	\$619,725	(\$406,622)
111	November	10,000	5,401,405	\$35,297	\$232,156	\$60,766	\$4.26	\$42,600	(\$7,303)	\$0.058512	\$316,047	(\$23,125)
112	December 2021	10,000	9,172,493	\$35,297	\$365,836	\$161,436	\$4.26	\$42,600	(\$7,303)	\$0.039633	\$363,533	\$163,739
113												
114	Totals	125,701	45,544,298	\$270,907	\$1,564,954	\$158,872	_	\$392,125	(\$121,218)	_	\$1,898,333	(\$174,507)
115							-			-		

Net Billed Revenues - Energy

Net Billed Revenues - Energy

\$1,723,826

Marginal Cost Analysis excluding Minimum Energy Billings 118

118	8 Marginal Cost Analysis excluding Minimum Energy Billings:											
119		Un	its		Revenues		Ma	rginal Cost - Demand	Ė	Marginal Cos	t - Energy - Excludin	g Minimum
120	Month	Demand (kW)	Energy (kWh)	Demand	Energy	FAC	\$ / kW-month	Monthly Cost	Difference	Purchase Cost	Monthly Cost	Difference
121												_
122	January 2021	19,815	4,869,714	\$35,518	\$189,831	(\$19,333)	\$2.33	\$46,169	(\$10,651)	\$0.026178	\$127,479	\$43,019
123	February	20,021	5,693,812	\$35,680	\$222,107	(\$27,786)	\$2.33	\$46,649	(\$10,969)	\$0.035569	\$202,523	(\$8,202)
124	March	13,386	3,866,352	\$30,472	\$150,718	\$8,313	\$2.33	\$31,189	(\$717)	\$0.025291	\$97,784	\$61,247
125	April	18,199	2,025,073	\$18,290	\$78,941	(\$8,485)	\$2.33	\$42,404	(\$24,114)	\$0.024044	\$48,691	\$21,765
126	May	1,430	1,375,449	\$5,126	\$53,618	(\$9,724)	\$2.33	\$3,332	\$1,794	\$0.025577	\$35,180	\$8,714
127	June	1,430	350,174	\$5,126	\$13,650	(\$1,632)	\$2.33	\$3,332	\$1,794	\$0.031509	\$11,034	\$984
128	July	1,430	291,064	\$5,126	\$11,346	(\$1,173)	\$4.26	\$6,092	(\$966)	\$0.037172	\$10,819	(\$646)
		1,430	181,668	\$5,126	\$7,082	(\$632)	\$4.26	\$6,092	(\$966)	\$0.034528	\$6,273	\$177
130	September	1,430	212,896	\$5,126	\$8,299	(\$568)	\$4.26	\$6,092	(\$966)	\$0.049538	\$10,546	(\$2,815)
131	October	27,130	2,566,634	\$54,723	\$102,368	(\$2,310)	\$4.26	\$115,574	(\$60,851)	\$0.057107	\$146,573	(\$46,515)
132	November	10,000	5,401,405	\$35,297	\$232,156	\$60,766	\$4.26	\$42,600	(\$7,303)	\$0.058512	\$316,047	(\$23,125)
133	December 2021	10,000	9,172,493	\$35,297	\$365,836	\$161,436	\$4.26	\$42,600	(\$7,303)	\$0.039633	\$363,533	\$163,739
134												
135	Totals	125,701	36,006,734	\$270,907	\$1,435,952	\$158,872	_	\$392,125	(\$121,218)	_	\$1,376,482	\$218,342

Notes: AppHarvest started operations in October 2020. During the first 12 months of the EDR discount period, the 60% load factor requirement is waived. During the remaining 48

months of the discount period, AppHarvest is permitted to miss the 60% load factor requirement 8 times and still receive the EDR discount.

During 2021 AppHarvest failed to meet the 60% load factor requirement in eight months; however, as a result of the waiver, only 1 of those months counted against the 8 allowed misses in the last 48.

AppHarvest is also an interruptible service customer; the EDR discount is applied to demand charges after the interruptible demand credit has been applied to the bill.

The billing analysis above reflects the total company operations as billed and any applicable interruptible demand credits; contract demand was adjusted in November to better reflect actual operational characteristics.

However, the billing analysis includes 9,537,564 kWh of billed energy that reflects minimum energy requirements per the contract. As EKPC did not have to provide or purchase this minimum energy

requirement, it should not be included in the Marginal Cost - Energy analysis.

Please see the detailed AppHarvest billing analysis for the Marginal Cost - Energy analysis exclusive of the minimum energy requirement reflected in the billed energy totals. Contract started in October 2020; from October 2020 to September 2021 a 50% discount factor; from October 2021 to December 2021 a 40% discount factor.

\$1,594,824

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142 143 144

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1 EDR Analysis CY 2021.xlsx
   2 Analysis of EDR Customers' Billings for Calendar Year 2021
150 Recap:
151 Total Billed Demand, all EDR customers
                                                                                                                267,972 kW
152 2020 Reported Cumulative Demand, all EDR customers
153 Total Cumulative Demand for 2021, all EDR customers
                                                                                                                188,794 kW
                                                                                                                456,766 kW
154

    Total Billed Energy, all EDR customers
    2020 Reported Cumulative Energy, all EDR customers
    Total Cumulative Energy for 2021, all EDR customers

                                                                                                           131,274,394 kWh
                                                                                                           105,971,029 kWh
                                                                                                           237,245,423
158
159 Margin Cost:
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160 Demand -

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PJM BRA Results 2020-2021 Delivery Year - Conversion to \$ / kW-month: 161 162

\$76.53 / MW-day x 365 days ÷ 1,000 ÷ 12 = \$2.33 / kW-month

PJM BRA Results 2021-2022 Delivery Year - Conversion to \$ / kW-month:

\$140.00 / MW-day x 365 days ÷ 1,000 ÷ 12 = \$4.26 / kW-month

Energy - Purchase Cost is the Cost of Market Purchases taken from the applicable EKPC FAC monthly reports. The Difference compares the billed Energy and FAC revenues with the monthly marginal energy cost. 166

168	Month	Purchases \$	Purchases kWh	Purchase Cost
169				
170	January 2021	\$9,568,740	365,530,992	\$0.026178
171	February	\$11,632,879	327,050,704	\$0.035569
172	March	\$9,457,447	373,937,943	\$0.025291
173	April	\$2,254,190	93,753,875	\$0.024044
174	May	\$4,917,295	192,257,692	\$0.025577
175	June	\$3,825,832	121,422,051	\$0.031509
176	July	\$3,842,737	103,378,079	\$0.037172
177	August	\$2,193,981	63,541,655	\$0.034528
178	September	\$6,293,299	127,040,783	\$0.049538
179	October	\$19,894,632	348,373,323	\$0.057107
180	November	\$30,415,785	519,822,138	\$0.058512
181	December 2021	\$20,390,578	514,489,367	\$0.039633
182				
183				

1 EDR Analysis CY 2021.xlsx

2 Detailed Analysis of Customer Billing - AppHarvest

4 Energy Charges:

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7	Mo
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9	January
	Fabruary.

6		Energy (kWh)		Energy Rates	(\$ per kWh)	Net Interruptible				Energy Charges		
7 Month	Actual Use	Minimum Added	Total	Actual	Minimum Billing	Buy-through	FAC Factor	Actual Use	Minimum Added	Net Buy-through	FAC	Net Energy
8												
9 January	4,869,714	0	4,869,714	\$0.038982	\$0.012742	\$0	(\$0.003970)	\$189,831	\$0	\$0	(\$19,333)	\$170,498
10 February	5,693,812	0	5,693,812	\$0.038982	\$0.012742	\$151	(\$0.004880)	\$221,956	\$0	\$151	(\$27,786)	\$194,321
11 March	3,866,352	0	3,866,352	\$0.038982	\$0.012742	\$0	\$0.002150	\$150,718	\$0	\$0	\$8,313	\$159,031
12 April	2,025,073	0	2,025,073	\$0.038982	\$0.012742	\$0	(\$0.004190)	\$78,941	\$0	\$0	(\$8,485)	\$70,456
13 May	1,375,449	0	1,375,449	\$0.038982	\$0.012742	\$0	(\$0.007070)	\$53,618	\$0	\$0	(\$9,724)	\$43,894
14 June	350,174	221,826	572,000	\$0.038982	\$0.012742	\$0	(\$0.004660)	\$13,650	\$2,827	\$0	(\$1,632)	\$14,845
15 July	291,064	280,936	572,000	\$0.038982	\$0.012742	\$0	(\$0.004030)	\$11,346	\$3,580	\$0	(\$1,173)	\$13,753
16 August	181,668	390,332	572,000	\$0.038982	\$0.012742	\$0	(\$0.003480)	\$7,082	\$4,974	\$0	(\$632)	\$11,424
17 September	212,896	359,104	572,000	\$0.038982	\$0.012742	\$0	(\$0.002670)	\$8,299	\$4,576	\$0	(\$568)	\$12,307
18 October	2,566,634	8,285,366	10,852,000	\$0.039884	\$0.013644	\$0	(\$0.000900)	\$102,368	\$113,046	\$0	(\$2,310)	\$213,104
19 November	5,401,405	0	5,401,405	\$0.039884	\$0.013644	\$16,726	\$0.011250	\$215,430	\$0	\$16,726	\$60,766	\$292,922
20 December	9,172,493	0	9,172,493	\$0.039884	\$0.013644	\$0	\$0.017600	\$365,836	\$0	\$0	\$161,436	\$527,272
21			<u> </u>		-		_	•				
22 Totals	36.006.734	9.537.564	45.544.298			\$16.877		\$1,419,075	\$129.003	\$16.877	\$158.872	\$1,723,827

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25 Energy Marginal Cost Analysis - Exclusive of Minimum Energy Billings:

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	Energy Cha	rges		Marginal Cost - Exclusive of Minimum Energy Billings				
Actual Use	Net Buy-through	FAC	Net Energy	Actual Use - kWh	Purchase Cost	Monthly Cost	Difference	
\$189,831	\$0	(\$19,333)	\$170,498	4,869,714	\$0.026178	\$127,479	\$43,019	
\$221,956	\$151	(\$27,786)	\$194,321	5,693,812	\$0.035569	\$202,523	(\$8,202)	
\$150,718	\$0	\$8,313	\$159,031	3,866,352	\$0.025291	\$97,784	\$61,247	
\$78,941	\$0	(\$8,485)	\$70,456	2,025,073	\$0.024044	\$48,691	\$21,765	
\$53,618	\$0	(\$9,724)	\$43,894	1,375,449	\$0.025577	\$35,180	\$8,714	
\$13,650	\$0	(\$1,632)	\$12,018	350,174	\$0.031509	\$11,034	\$984	
\$11,346	\$0	(\$1,173)	\$10,173	291,064	\$0.037172	\$10,819	(\$646)	
\$7,082	\$0	(\$632)	\$6,450	181,668	\$0.034528	\$6,273	\$177	
\$8,299	\$0	(\$568)	\$7,731	212,896	\$0.049538	\$10,546	(\$2,815)	
\$102,368	\$0	(\$2,310)	\$100,058	2,566,634	\$0.057107	\$146,573	(\$46,515)	
\$215,430	\$16,726	\$60,766	\$292,922	5,401,405	\$0.058512	\$316,047	(\$23,125)	
\$365,836	\$0	\$161,436	\$527,272	9,172,493	\$0.039633	\$363,533	\$163,739	
					_			
\$1,419,075	\$16,877	\$158,872	\$1,594,824	36,006,734		\$1,376,482	\$218,342	
					_			
	\$189,831 \$221,956 \$150,718 \$78,941 \$53,618 \$13,650 \$11,346 \$7,082 \$8,299 \$102,368 \$215,430 \$365,836	Actual Use Net Buy-through \$189,831 \$0 \$221,956 \$151 \$150,718 \$0 \$78,941 \$0 \$53,618 \$0 \$13,650 \$0 \$11,346 \$0 \$7,082 \$0 \$8,299 \$0 \$102,368 \$0 \$215,430 \$16,726 \$365,836 \$0	\$189,831 \$0 (\$19,333) \$221,956 \$151 (\$27,786) \$150,718 \$0 \$8,313 \$78,941 \$0 (\$8,485) \$53,618 \$0 (\$9,724) \$13,650 \$0 (\$1,632) \$11,346 \$0 (\$1,173) \$7,082 \$0 (\$632) \$8,299 \$0 (\$632) \$102,368 \$0 (\$2,310) \$215,430 \$16,726 \$60,766 \$365,836 \$0 \$161,436	Actual Use Net Buy-through FAC Net Energy \$189,831 \$0 (\$19,333) \$170,498 \$221,956 \$151 (\$27,786) \$194,321 \$150,718 \$0 \$8,313 \$159,031 \$78,941 \$0 (\$8,485) \$70,456 \$53,618 \$0 (\$9,724) \$43,894 \$13,650 \$0 (\$1,632) \$12,018 \$11,346 \$0 (\$1,173) \$10,173 \$7,082 \$0 (\$632) \$6,450 \$8,299 \$0 (\$568) \$7,731 \$102,368 \$0 (\$2,310) \$100,058 \$215,430 \$16,726 \$60,766 \$292,922 \$365,836 \$0 \$161,436 \$527,272	Actual Use Net Buy-through FAC Net Energy Actual Use - kWh \$189,831 \$0 (\$19,333) \$170,498 4,869,714 \$221,956 \$151 (\$27,786) \$194,321 5,693,812 \$150,718 \$0 \$8,313 \$159,031 3,866,352 \$78,941 \$0 (\$8,485) \$70,456 2,025,073 \$53,618 \$0 (\$9,724) \$43,894 1,375,449 \$13,650 \$0 (\$1,632) \$12,018 350,174 \$11,346 \$0 (\$1,173) \$10,173 291,064 \$7,082 \$0 (\$632) \$6,450 181,668 \$8,299 \$0 (\$568) \$7,731 212,896 \$102,368 \$0 (\$2,310) \$100,058 2,566,634 \$215,430 \$16,726 \$60,766 \$292,922 5,401,405 \$365,836 \$0 \$161,436 \$527,272 9,172,493	Actual Use Net Buy-through FAC Net Energy Actual Use - kWh Purchase Cost \$189,831 \$0 (\$19,333) \$170,498 4,869,714 \$0.026178 \$221,956 \$151 (\$27,786) \$194,321 5,693,812 \$0.035569 \$150,718 \$0 \$8,313 \$159,031 3,866,352 \$0.025291 \$78,941 \$0 (\$8,485) \$70,456 2,025,073 \$0.024044 \$53,618 \$0 (\$9,724) \$43,894 1,375,449 \$0.025577 \$13,650 \$0 (\$1,632) \$12,018 350,174 \$0.031509 \$11,346 \$0 (\$1,173) \$10,173 291,064 \$0.037172 \$7,082 \$0 (\$632) \$6,450 181,668 \$0.034528 \$8,299 \$0 (\$568) \$7,731 212,896 \$0.049538 \$102,368 \$0 (\$2,310) \$100,058 2,556,634 \$0.057107 \$215,430 \$16,726 \$60,766 \$292,922 5,401,405 \$0.058512	Actual Use Net Buy-through FAC Net Energy Actual Use - kWh Purchase Cost Monthly Cost \$189,831 \$0 (\$19,333) \$170,498 4,869,714 \$0.026178 \$127,479 \$221,956 \$151 (\$27,786) \$194,321 5,693,812 \$0.035569 \$202,523 \$150,718 \$0 \$8,313 \$159,031 3,866,352 \$0.025291 \$97,784 \$78,941 \$0 (\$8,485) \$70,456 2,025,073 \$0.024044 \$48,691 \$53,618 \$0 (\$9,724) \$43,894 1,375,449 \$0.025577 \$35,180 \$11,346 \$0 (\$1,632) \$12,018 350,174 \$0.031509 \$11,034 \$7,082 \$0 (\$632) \$10,173 291,064 \$0.037172 \$10,819 \$7,082 \$0 (\$632) \$6,450 181,668 \$0.034528 \$6,273 \$8,299 \$0 (\$568) \$7,731 212,896 \$0.049538 \$10,546 \$102,368 \$0 (\$2,310)	

Notes: Pursuant to EKPC's Rate B tariff, a minimum level of energy is to be billed based on the product of the contract demand multiplied by 400 hours. If the actual energy usage for a billing period is less than the required minimum, the incremental difference between the actual and minimum is priced at EKPC's energy charge for Rate B minus the fuel base per kWh established in the FAC. This incremental amount of energy is not generated or purchased for the customer and it is not provided to the customer for the customer's use. As this incremental amount of energy is only needed to meet the minimum energy requirement of the tariff, it should not be reflected in the determination of the marginal cost associated with energy.