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April 12, 2017

Ms. Barcy F. McNeal, Secretary  
Public Utilities Commission of Ohio  
180 E. Broad St., 11th Floor  
Columbus, OH 43215-3793

Re: Case No. 17-0970-EL-ACP  
Calpine Energy Solutions LLC  
Public Version of Alternative Energy Resource Portfolio Report for 2016

Dear Ms. McNeal:

On behalf of Calpine Energy Solutions LLC, I am submitting a public version of its Alternative Energy Resource Portfolio Report for 2016. A motion for protective order was also filed today and a confidential version of this report is being submitted under seal.

Thank you in advance for your consideration.

Sincerely yours,

Stephen M. Howard  
Attorneys for Calpine Energy Solutions LLC

SMH/jaw  
Enclosure

COMPETITIVE RETAIL ELECTRIC SERVICE PROVIDER  
RENEWABLE PORTFOLIO STANDARD (RPS) REPORT FOR CALENDAR YEAR 2016

Calpine Energy Solutions, LLC (hereinafter "CRES") in accordance with Sections 4928.64, 4928.643 AND 4928.65, Ohio Revised Code and Commission Rules 4901:1-40-03 and 4901:1-40-05 hereby submits this RPS Report detailing compliance with the Ohio Renewable Portfolio Standards.

Check this box if applicable:

- ☐ This RPS Report also addresses the compliance obligations of an additional CRES provider, \_\_\_\_\_.

I. Determination that an Alternative Energy Resource Report is Required (check one)

- ☒ During calendar year 2016 the CRES states that it conducted retail sales of generation to customers who utilized the generation in a load center located located within the state of Ohio.
- ☐ During calendar year 2016 the CRES states that it did not conduct retail sales of generation to customers who utilized the generation in a load center located within the state of Ohio. (If this block is checked proceed to the signature line)

II. Determination of the sales baseline for 2016

The CRES will mark only one of the applicable options below in the determination of the sales baseline for 2016.

- a. The baseline is computed as an average of the three preceding calendar years (listed below) of the total annual number of kilowatt-hours of electricity sold to any and all retail electric consumers served by the CRES in Ohio, based upon the kilowatt-hours sales in the CRES' most recent quarterly market-monitoring reports or reporting forms. That average is \_\_\_\_\_ MWh.

2013 \_\_\_\_\_MWh

2014 \_\_\_\_\_MWh

2015 \_\_\_\_\_MWh

- b. The CRES has not been continuously supplying Ohio retail electric customers during the preceding three calendar years; therefore, the baseline shall be computed as an average of annual sales data for all calendar years during the preceding three years (listed below) in which the CRES was serving retail customers. That average of annual sales data for all such calendar years is \_\_\_\_\_.

2013 \_\_\_\_\_MWh

2014 \_\_\_\_\_MWh

2015 \_\_\_\_\_MWh

- c. Beginning with compliance year 2014, a CRES may choose for its baseline the total kilowatt hour sold during the compliance year to any and all applicable retail consumers

located in Ohio who are served by the CRES. Such actual sales in 2016 was 3,943,328 MWh.

- d. A CRES may file an application requesting a reduced baseline to reflect new economic growth in its service territory or service area. Any such application shall include a justification including why timely compliance based on the unadjusted baseline is not feasible, a schedule for achieving compliance based on its unadjusted baseline, quantification of a new change in the rate of economic growth, and a methodology for measuring economic activity, including objective measurement parameters and quantification methodologies.

### III. Determination of the number of Solar and Total Renewable Energy Credits (RECs) Required and Statement of the Number of RECs Claimed

RENEWABLE ENERGY CREDITS REQUIRED AND RETIRED FOR 2016			
Types	No. of RECs Required (a)	No. of RECs Retired (b)	Registry (c)
Solar	4,732	4,732	PJM-GATS
Non Solar	93,851	93,851	PJM-GATS
Total	98,583	98,583	PJM-GATS

- a. Column a above lists the unadjusted number of Solar and Total RECs Required for the CRES in 2016. The determinations were calculated by multiplying the Baseline Sales BY 12 hundredths of one per cent (.12%) for Solar RECs and 238 hundredths percent (2.38%) for non-Solar RECS. Total RECs include both Solar and Non Solar RECs.
- b. The CRES states that it has retired in accordance with the Commission's Rules the number of Solar and Non Solar RECs listed in column b above for 2016.
- c. The CRES used the PJM GATS and/or M-RETS registry as listed in column (c) for the RECs detailed above.
- d. CRES states that it did not seek and did not receive a *force majeure* determination for Solar RECs.

### IV. Compliance (check one)

- ☒ CRES states that it has retired the required number of Solar RECs and Total RECs without adjustments permitted pursuant to Rule 4901:1-40-05(A)(3).
- ☐ CRES states that it has retired the required number of Solar RECs and Total RECs after adjustments permitted pursuant to Rule 4901:1-40-05(A)(3). The type adjustment, reason for the adjustment and merit for making the requested adjustment of the proposed adjustments are detailed in an exhibit attached to this Report.
- ☐ CRES states that it is not in compliance with number of Solar RECs or Total RECs required for 2016.

V. Ten Year Forecast

a. Ten Year Forecast of Solar and Non-Solar RECs

In accordance with Rule 4901:1-40-03(C) the CRES hereby provides a projection for the next 10 years for RECs and Solar RECs.

Year	Solar RECs	Non-solar RECs	Total RECs
2017			
2018			
2019			
2020			
2021			
2022			
2023			
2024			
2025			
2026			

b. The Supply Portfolio projection is based upon:

*Because the generation market is one of great volatility and because customers are free to contract with any CRES supplier, governmental aggregator or utilize a utility standard service offer, Calpine Energy Solutions, LLC has projected out sales to the end of the current Electric Security Plan period for each of the utility service areas in which it conducts sales based on its most current business plan available at the time of submission of this Report. Since the price to compare will change at the end of the Electric Security Plan, projecting the ability to maintain sales, let alone increase sales, is problematic at best. Thus, the CRES has assumed that load will remain constant, and the increase in total RECs comes from the increase in requirement percentages.*

c. The Methodology used to evaluate compliance is based upon:

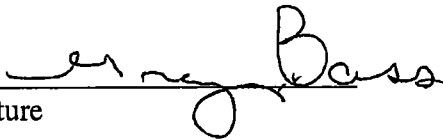
*Calpine Energy Solutions, LLC states that it intends to purchase all required RECs, both Solar RECs and Non-Solar RECs from suppliers who have received a renewable energy facility certificate from the Public Utilities Commission, have joined an approved REC registry and will transfer RECs from the generator's account to the CRES account.*

- d. Optional comments on any perceived impediment(s) to achieving compliance with the Solar and Non Solar REC requirements, as well as any discussion addressing such impediments.

*Calpine Energy Solutions, LLC has no comments at this time.*

COMPETITIVE RETAIL ELECTRIC SERVICE PROVIDER  
RENEWABLE PORTFOLIO STANDARD (RPS) REPORT FOR CALENDAR YEAR 2016

I, Greg Bass, am the duly authorized representative of Calpine Energy Solutions, LLC. To the best of my knowledge all the information contained in the foregoing report including any exhibits and attachments are true, accurate and complete.

  
Signature

Any questions from the Commission Staff regarding this report should be directed to:

Bryan White at 619-684-8200 or  
Name Phone Number

bryan.white@calpinesolutions.com.  
E-Mail Address

**Compliance Plan Status Report for Compliance Year 2016  
Summary Sheet**

	Sales Unadjusted (MWHs)	Proposed Adjustments (MWHs)	Sales Adjusted (MWHs)	Source of Sales Volume Data
2013		0	0	(A)
2014		0	0	(B)
2015		0	0	(C)

**Baseline for 2016 Compliance Obligation (MWHs)**

**3,943,328**

(D) = AvgABC

(Note: If using 2016 sales as your baseline, insert that figure in cell I14 and indicate in cell K16 if 2016 sales are adjusted or not.

**Not Adjusted**

2.50%

**2016 Statutory Compliance Obligation**

2016 Non-Solar Renewable Benchmark

**2.38%**

(E)

2016 Solar Renewable Benchmark

**0.12%**

(F)

Per R.C., 4928.64(B)(2)

**2016 Compliance Obligation**

Non-Solar RECs Needed for Compliance

**93,851**

(G) = (D) \* (E)

Solar RECs Needed for Compliance

**4,732**

(H) = (D) \* (F)

**Carry-Over from Previous Year(s), if applicable**

Non-Solar (RECs)

**0**

(I)

Solar (S-RECs)

**0**

(J)

**Total 2016 Compliance Obligations**

Non-Solar RECs Needed for Compliance

**93,851**

(K) = (G) + (I)

Solar RECs Needed for Compliance

**4,732**

(L) = (H) + (J)

**2016 Performance (Per GATS and/or MRETS Data)**

Non-Solar (RECs)

**93,851**

(M)

Solar (S-RECs)

**4,732**

(N)

**Under Compliance in 2016, if applicable**

Non-Solar (RECs)

**0**

(O) = (K) - (M)

Solar (S-RECs)

**0**

(P) = (L) - (N)

**2016 Alternative Compliance Payments**

Non-Solar, per REC (Refer to Case 16-0714-EL-ACP)

**\$49.75**

(Q)

Solar, per S-REC (Refer to R.C. 4928.64(C)(2)(a))

**\$300.00**

(R)

**2016 Payments, if applicable**

Non-Solar Total

**\$0.00**

(S) = (O) \* (Q)

Solar Total

**\$0.00**

(T) = (P) \* (R)

**TOTAL**

**\$0.00**

(U) = (S) + (T)

*This compliance worksheet was developed by Staff for internal review purposes. However, it may be useful for your company in preparation of its RPS annual compliance status report for the 2016 compliance year. Your company is not required to include this form in its filing, but that is an option. If using this form, your company should insert data in the blue shaded boxes (as applicable). The remaining cells should auto-calculate. However, you should still independently verify the accuracy of the calculations. Questions concerning this worksheet can be addressed to Stuart.Siegfried@puc.state.oh.us*

**This foregoing document was electronically filed with the Public Utilities**

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Summary: Report Public Version of Alternative Energy Resource Portfolio Report for 2016  
electronically filed by Mr. Stephen M Howard on behalf of Calpine Energy Solutions LLC