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APPLICATION OF CENTERPOINT § BEFORE THE STATE OFFICE
ENERGY HOUSTON ELECTRIC, LLC §
FOR AUTHORITY TO CHANGE §
RATES § ADMINISTRATIVE HEARINGS

**SOLAR ENERGY INDUSTRIES ASSOCIATION'S
SECOND SET OF REQUESTS FOR INFORMATION TO
CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC**

Pursuant to § 22.144 of the Commission's Procedural Rules, the Solar Energy Industries Association ("SEIA") requests that CenterPoint Energy Houston Electric, LLC ("CenterPoint") provide the information requested in Exhibit "A" within the period specified in the procedural schedule in this proceeding.

Pursuant to P.U.C. Proc. R. 22.144(c)(2), SEIA further requests that answers to the requests for information be made under oath. Each answer should identify the person responsible for preparing that answer (other than the purely clerical aspects of its preparation) and the name of the witness in this proceeding who will sponsor the answer and who can vouch for its accuracy. In producing documents pursuant to this request for information, please indicate the specific request(s) to which the document is being produced. These requests are continuing in nature, and should there be, for any reason, a change in circumstances which would modify or change an answer supplied by you, such changed answer should be submitted immediately as a supplement to your original answer pursuant to P.U.C. Proc. R. 22.144(i). Please answer each request and sub-request in the order in which they are listed and in sufficient detail to provide a complete and accurate answer to the request. SEIA further requests that each item of information be made available as it is completed, rather than upon compilation of all information requested. If any RFI appears confusing, please request clarification from the undersigned counsel.

All information responsive to the requests on the attached Exhibit "A" should be sent to the following person on a piecemeal basis as individual items become available:

Mr. Michael J. Jewell
Jewell & Associates, PLLC
4304 Balcones Drive
Austin, TX 78731
(512) 423-4065
(512) 236-5170 (FAX)
michael@jewellandassociates.com

DEFINITIONS AND INSTRUCTIONS

A. "CenterPoint", "the Company", "you", "yours", and "your" refer to CenterPoint Energy Houston Electric, LLC, and its affiliates, subsidiaries, and any person acting or purporting to act on their behalf, including without limitation, directors, officers, attorneys, agents, advisors, investigators, representatives, consultants, employees or other persons.

B. "Applicant" refers to CenterPoint Energy Houston Electric, LLC, and its affiliates, subsidiaries, and any person acting or purporting to act on its behalf, as it relates to this and related appeals, including without limitation, attorneys, agents, advisors, investigators, representatives, employees or other persons.

C. The terms "document" or "documents" are used in their broadest sense to include, by way of illustration and not limitation, all written or graphic matter of every kind and description whether printed, produced, reproduced or stored by any process whether visually, magnetically, mechanically, electronically or by hand, whether final or draft, original or reproduction, whether or not claimed to be privileged or otherwise excludable from discovery, and whether or not in your actual or constructive possession, custody, or control. The terms include writings, correspondence, telegrams, memoranda, studies, reports, surveys, statistical compilations, notes, calendars, tapes, computer disks, data on computer drives, e-mails, cards, recordings, contracts, agreements, invoices, licenses, diaries, journals, accounts, pamphlets, books, ledgers, publications, microfilm, microfiche and any other data compilations from which information can be obtained and translated, by you if necessary, into reasonably usable form. The definition includes electronic information that has been deleted. "Document" or "documents" shall also include every copy of a document where the copy contains any commentary or notation of any kind that does not appear on the original or any other copy.

D. Pursuant to Rule 196.4 of the Texas Rules of Civil Procedure, SEIA specifically requests that any electronic or magnetic information (which is included in the definition of "document") that is responsive to a request herein be produced on CD-Rom in a format that is compatible with Adobe Acrobat and/or Microsoft Office and be produced with your response to these requests. If emails are responsive to these requests, please provide a searchable .pdf copy of the entire email string. Attachments to emails should be provided with the email in searchable .pdf form, unless it is stored in a different format, in which the attachment should be produced in its native format and provided on CD-Rom.

E. The terms "and" and "or" shall be construed both disjunctively and conjunctively is necessary to make the request inclusive rather than exclusive.

F. "Each" shall be construed to include the word "every" and "every" shall be construed to include the word "each."

G. "Any" shall be construed to include "all" and "all" shall be construed to include "any".

H. The term "concerning," or one of its inflections, includes the following meanings: relating to; referring to; pertaining to; regarding; discussing; mentioning; containing; reflecting; evidencing; describing; showing; identifying; providing; disproving; consisting of; supporting; contradicting; in any way legally, logically or factually connected with the matter to which the term refers; or having a tendency to prove or disprove the matter to which the term refers.

I. The term "including," or one of its inflections, means and refers to "including but not limited to."

J. Words used in the plural shall also be taken to mean and include the singular. Words used in the singular shall also be taken to mean and include the plural.

K. The present tense shall be construed to include the past tense, and the past tense shall be construed to include the present tense.

L. If any document is withheld under any claim of privilege, please furnish a list identifying each document for which a privilege is claimed, together with the following information: date, sender, recipients of copies, subject matter of the document, and the basis upon which such privilege is claimed.

M. Pursuant to P.U.C. Proc. R. 22.144(h)(4), if the response to any request is voluminous, please provide a detailed index of the voluminous material.

N. If the information requested is included in previously furnished exhibits, workpapers, and responses to other discovery inquiries or otherwise, in hard copy or electronic format, please furnish specific references thereto, including Bates Stamp page citations and detailed cross-references.

O. The term "emails" includes the entire email string and all attachments found anywhere within the email string. Please refer to paragraph "D." regarding specific instructions for producing such items.

P. "Communications" refers to correspondence of any kind, including emails.

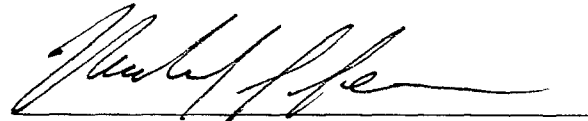
Q. "Identify" and "describe" shall have the meaning set forth below according to the context in which the term is used:

i. When used in reference to an individual, shall mean to state his or her full

name, present or last known residence address, business affiliation and business address, and residence and business telephone number;

- ii. When used in reference to a corporation, shall mean to state its full name, its state of incorporation, its address and its principal place of business;
- iii. When used in reference to any entity other than an individual or corporation, shall mean to state its official name, its organizational form and its address;
- iv. When used in reference to a document, shall mean to state the type of document, date, author, addressee, title, its present location, the name and address of its custodian, and the substance of the contents thereof. In lieu of identifying any document, copies thereof may be furnished; and
- v. When used in reference to a communication, shall mean to state the form of the communication (e.g., telephone conversation, letter, telegram, teletype, telecopy, written memorandum, face to face conversation, or any other form), the date of the communication or the dates on which the communication was sent and/or received if not the same, the parties to the communication, the party who initiated it, the substance of the communication, and the present location and the name and address of the custodian if the communication was non-verbal and/or of any written memorialization of the communication.

Respectfully submitted,



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(512) 236-5170 (FAX)

ATTORNEY FOR THE SOLAR ENERGY
INDUSTRIES ASSOCIATION

CERTIFICATE OF SERVICE

I, Michael J. Jewell, Attorney and Representative for the Solar Energy Industries Association, certify that a copy of this document was served on all parties of record in this proceeding on the 6th day of June 2019 in accordance with PUC Proc. R. 22.74.

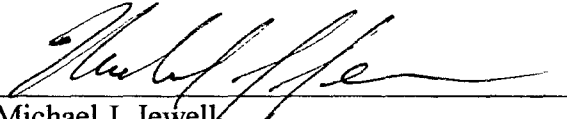

Michael J. Jewell

EXHIBIT A

SOLAR ENERGY INDUSTRIES ASSOCIATION'S SECOND SET OF REQUESTS FOR INFORMATION TO CENTERPOINT ENERGY HOUSTON ELECTRIC, LLC

SEIA 2-1 Please refer to CenterPoint's response to SEIA 1-12:

- a. When a non-exporting system reduces the load profile of a distribution circuit, how is this load reduction different from a customer reducing their load through other means, such as through reducing their demand or turning off a high-powered piece of equipment?
- b. Suppose a customer has a high-powered piece of equipment that they turn on and off. Can this increase and reduction of load cause system level operational impacts circuit level transient effects?
- c. The Company's response states: "Non-exporting DGs typically reduce the load profile of a distribution circuit and will cause system level operational impacts as the ratio of generation to load approaches 1." i) At what ratio of generation to load will these system-level operational impacts begin to manifest? ii) How many circuits does the Company have where the ratio of generation to load is greater than 0.8?
- d. How many upgrades has the Company performed for the purpose of estimating or monitoring the status of DG systems? If any upgrades were performed, what does the Company do with the information from the DG system?
- e. How many upgrades has the Company required DG system owners make for the purpose of estimating or monitoring the status of DG systems? If any upgrades were performed, what does the Company do with the information from the DG system?
- f. How many voltage or frequency controllers has the Company installed specifically to stabilize system voltage and frequency issues caused by the installation of DG systems?
- g. How many upgrades to equipment, such as wires, transformers, voltage regulators, protective devices, etc. have been installed to address thermal loading issues caused specifically from the load reduction of non-exporting DG systems on circuits with existing exporting DG systems?
- h. How many upgrades to breakers or fuses have been performed due to the contribution of distribution grid fault current of DG systems?
- i. How many neutral reactors and substation transfers have been installed or upgraded to ensure the maximum fault currents at the substation did not exceed the planning design criteria due to the installation of DG systems?
- j. For items d) through i) above, would these issues typically be identified during the interconnection study process? If so, would the customer be responsible for the costs for equipment upgrades required to safely and reliably interconnect the DG system?

- k. How many times has the Company re-evaluated the protection scheme coordination required to maintain safety and reliability of the system due to the installation of DG systems?
- l. Can a reduction of load from other sources (such as demand response or shutting off a powerful piece of equipment) also increase the potential for transient over-voltage of circuits with high existing exporting DGs?