
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

**POST-EFFECTIVE AMENDMENT NO. 1 TO
FORM S-3
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933**

KANSAS CITY POWER & LIGHT COMPANY

(Exact name of registrant as specified in its charter)

Missouri
(State of incorporation)

44-0308720
(I.R.S. Employer Identification No.)

**1200 Main Street
Kansas City, Missouri 64105
(816) 556-2200**
(Address, including zip code and telephone number, including area code, of registrant's principal executive offices)

**Heather A. Humphrey
Senior Vice President, General Counsel and Corporate Secretary
1200 Main Street
Kansas City, Missouri 64105
(816) 556-2200**

**With Copies to:
Peter K. O'Brien
S. Christina Kwon
Hunton Andrews Kurth LLP
200 Park Avenue
New York, New York 10166**
(Name, address, including zip code, and telephone number, including area code, of agent for service)

Approximate date of commencement of proposed sale to the public: Not applicable.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act of 1933, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act of 1933, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act. (Check one):

Large Accelerated Filer

Accelerated Filer

Non-accelerated Filer

Smaller reporting company

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of Securities Act.

EXPLANATORY NOTE
DEREGISTRATION OF SECURITIES

This Post-Effective Amendment No. 1 (this “Post-Effective Amendment”) to the Registration Statement referred to below is being filed by Kansas City Power & Light Company (the “Company” or the “Registrant”) in order to remove from registration all securities registered for issuance pursuant to the Registration Statement on Form S-3 (File No. 333-223601) originally filed with the Securities and Exchange Commission on March 12, 2018 and declared effective on April 9, 2018 (the “Registration Statement”).

The Company has decided to terminate the offerings under the Registration Statement. Accordingly, the Company is filing this Post-Effective Amendment to terminate the effectiveness of the Registration Statement, and, in accordance with the undertakings made by the Company in the Registration Statement, to remove from registration any and all of the registered securities that remain unsold as of the date hereof. The Registration Statement is hereby amended, as appropriate, to reflect the deregistration of all such securities.

