

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

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

**GREENIDGE GENERATION HOLDINGS INC.**

(Exact name of registrant as specified in its charter)

**Delaware**  
(State or other jurisdiction of  
incorporation or organization)

**7374**  
(Primary Standard Industrial  
Classification Code Number)

**86-1746728**  
(I.R.S. Employer  
Identification Number)

**590 Plant Road  
Dresden, NY 14441  
(315) 536-2359**

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

**Jeffrey E. Kirt  
Chief Executive Officer  
590 Plant Road  
Dresden, NY 14441  
(315) 536-2359**

(Names, address, including zip code, and telephone number, including area code, of agent for service)

*Copies to:*

**Louis A. Bevilacqua  
Bevilacqua PLLC  
1050 Connecticut Avenue, NW,  
Suite 500  
Washington, DC 20036  
(202) 869-0888**

**Chris Zochowski  
Richard Alsop  
Alan Bickerstaff  
Shearman & Sterling LLP  
401 9th Street, NW  
Suite 800  
Washington, DC 20004  
(202) 508-8000**

**Approximate date of commencement of proposed sale to the public:** As soon as practicable after this Registration Statement becomes effective.

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, 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, 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, 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(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, 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.

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 comply with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of Securities Act.

**THIS POST-EFFECTIVE AMENDMENT NO. 1 TO S-1 REGISTRATION STATEMENT SHALL BECOME EFFECTIVE UPON FILING WITH THE SEC IN ACCORDANCE WITH RULE 462(d) UNDER THE SECURITIES ACT OF 1933.**

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## EXPLANATORY NOTE

This Post-Effective Amendment No. 1 to Form S-1 Registration Statement (File No. 333-259247) originally filed by Greenidge Generation Holdings Inc. (the “Company”) on September 1, 2021, as amended on September 13, 2021 and declared effective on September 14, 2021 (the “Registration Statement”) is being filed pursuant to Rule 462(d) solely for the purpose of filing Exhibits 2.1 and 10.4 with respect to such Registration Statement. Accordingly, this Amendment consists only of the facing page, this explanatory note, Item 16(a) of Part II of the Registration Statement and the signature page. This Amendment does not modify any other provision of the prospectus contained in Part I or Part II of the Registration Statement.

**PART II**  
**INFORMATION NOT REQUIRED IN THE PROSPECTUS**

**Item 16. Exhibits.**

(a) Exhibits.

<u>Exhibit No.</u>	<u>Description</u>
2.1	<a href="#"><u>Agreement and Plan of Merger, dated as of March 19, 2021, among Greenidge Generation Holdings Inc., Support.com, Inc. and GGH Merger Sub, Inc. (incorporated herein by reference to Annex A to the proxy statement/prospectus forming part of the Registration Statement on Form S-4 filed May 4, 2021).</u></a>
3.1	<a href="#"><u>Amended and Restated Certificate of Incorporation of Greenidge Generation Holdings Inc. (incorporated by reference to Exhibit 3.1 to the Registration Statement on Form S-4 filed on May 4, 2021)</u></a>
3.2	<a href="#"><u>Amended and Restated Bylaws of Greenidge Generation Holdings Inc. (incorporated by reference to Exhibit 3.2 to the Registration Statement on Form S-4 filed on July 16, 2021)</u></a>
3.3†	<a href="#"><u>Certificate of Amendment of Amended and Restated Certificate of Incorporation of Greenidge Generation Holdings Inc.</u></a>
4.1	<a href="#"><u>Form of Registration Rights Agreement, dated January 29, 2021 (incorporated by reference to Exhibit 4.1 to the Registration Statement on Form S-4 filed on May 4, 2021)</u></a>
4.2	<a href="#"><u>Form of Right of First Refusal and Co-Sale Agreement, dated January 29, 2021 (incorporated by reference to Exhibit 4.2. to the Registration Statement on Form S-4 filed on May 4, 2021)</u></a>
4.3†	<a href="#"><u>Form of Stock Purchase Warrant, dated September, 2021.</u></a>
4.4†	<a href="#"><u>Form of Registration Compliance Agreement dated September 1, 2021</u></a>
4.5†	<a href="#"><u>Investor Agreement by and between 210 Capital, LLC and Greenidge Generation Holdings Inc., dated September 9, 2021.</u></a>
5.1†	<a href="#"><u>Opinion of Shearman &amp; Sterling LLP regarding validity of the shares being registered hereunder</u></a>
10.1†	<a href="#"><u>Greenidge Generation Holdings Inc. 2021 Equity Incentive Plan</u></a>
10.2	<a href="#"><u>Form of Stock Option Agreement for Greenidge Generation Holdings Inc. 2021 Equity Incentive Plan (incorporated by reference to Exhibit 10.2 to the Registration Statement on Form S-4 filed on May 4, 2021)</u></a>
10.3	<a href="#"><u>Form of Restricted Stock Award Agreement for Greenidge Generation Holdings Inc. 2021 Equity Incentive Plan (incorporated by reference to Exhibit 10.3 to the Registration Statement on Form S-4 filed on May 4, 2021)</u></a>
10.4	<a href="#"><u>Agreement between Greenidge Generation and Empire Pipeline Inc. (incorporated by reference to Exhibit 10.7 to the Registration Statement on Form S-4 filed on June 25, 2021)</u></a>
21.1†	<a href="#"><u>Subsidiaries of Greenidge Generation Holdings Inc.</u></a>
23.1†	<a href="#"><u>Consent of Plante &amp; Moran, PLLC</u></a>
23.2†	<a href="#"><u>Consent of Armanino LLP</u></a>
23.3†	<a href="#"><u>Consent of Shearman &amp; Sterling LLP (included in Exhibit 5.1)</u></a>

\* Filed herewith

† Previously filed

## SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the Town of Torrey, State of New York, on September 15, 2021.

### GREENIDGE GENERATION HOLDINGS INC.

By: /s/ Jeffrey E. Kirt  
Jeffrey E. Kirt  
Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
* <u>Jeffrey E. Kirt</u>	Chief Executive Officer (Principal Executive Officer) and Director	September 15, 2021
* <u>Timothy Rainey</u>	Chief Financial Officer (Principal Financial and Accounting Officer)	September 15, 2021
* <u>Ted Rogers</u>	Vice Chairman of the Board of Directors	September 15, 2021
* <u>Timothy Fazio</u>	Chairman of the Board of Directors	September 15, 2021
* <u>Jerome Lay</u>	Director	September 15, 2021
* <u>Andrew M. Bursky</u>	Director	September 15, 2021
* <u>Timothy Lowe</u>	Director	September 15, 2021
* <u>Daniel Rothaupt</u>	Director	September 15, 2021
* <u>David Filippelli</u>	Director	September 15, 2021
* <u>Michael Neuscheler</u>	Director	September 15, 2021
*By: <u>/s/ Jefferey E. Kirt</u> Jefferey E. Kirt Attorney-in-Fact		