

SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM 8-A

**FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES
PURSUANT TO SECTION 12(b) OR (g) OF THE
SECURITIES EXCHANGE ACT OF 1934**

**HANNON ARMSTRONG SUSTAINABLE INFRASTRUCTURE
CAPITAL, INC.**

(Exact Name of Registrant as Specified in Its Charter)

Maryland
(State of Incorporation or Organization)

46-1347456
(I.R.S. Employer Identification Number)

1906 Towne Centre Blvd, Suite 370
Annapolis, Maryland
(Address of Principal Executive Offices)

21401
(Zip Code)

If this form relates to the registration of a class of securities pursuant to Section 12(b) of the Exchange Act and is effective pursuant to General Instruction A.(c), check the following box.

If this form relates to the registration of a class of securities pursuant to Section 12(g) of the Exchange Act and is effective pursuant to General Instruction A.(d), check the following box.

Securities Act registration statement file number to which this form relates: 333-186711

Securities to be registered pursuant to Section 12(b) of the Act:

Title of Each Class to be so Registered
Common Stock, \$0.01 par value per share

Name of Each Exchange on Which Each Class is to be Registered
The New York Stock Exchange

Securities to be registered pursuant to Section 12(g) of the Act:

None

INFORMATION REQUIRED IN REGISTRATION STATEMENT

ITEM 1. DESCRIPTION OF REGISTRANT'S SECURITIES TO BE REGISTERED.

Hannon Armstrong Sustainable Infrastructure Capital, Inc. (the "Registrant") hereby incorporates by reference herein the description of its common stock, par value \$0.01 per share (the "Common Stock"), to be registered hereunder set forth under the heading "Description of Capital Stock" in the Registrant's prospectus forming part of its Registration Statement on Form S-11 (File No. 333-186711), as amended (the "Registration Statement"), filed with the Securities and Exchange Commission pursuant to the Securities Act of 1933, as amended. In addition, incorporated by reference herein is information relating to the Common Stock under the caption "Certain provisions of the Maryland General Corporation Law and Our Charter and Bylaws" in the Registration Statement.

ITEM 2 EXHIBITS.

Not applicable.

SIGNATURES

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, the Registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereto duly authorized.

**HANNON ARMSTRONG SUSTAINABLE INFRASTRUCTURE CAPITAL,
INC.**

Date: April 15, 2013

By: /s/ Jeffrey W. Eckel

Name: Jeffrey W. Eckel

Title: Chairman of the Board, President and Chief Executive Officer