

GenOn Energy, Inc.  
Form SC 13G  
February 15, 2011

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

**SCHEDULE 13G**

**Under the Securities Exchange Act of 1934  
(Amendment No. )\***

GenOn Energy, Inc.  
(Name of Issuer)  
COMMON STOCK  
(Title of Class of Securities)  
37244E107  
(CUSIP Number)

Paulson & Co. Inc.  
1251 Avenue of the Americas  
New York, New York 10020  
(212) 956-2221

December 31, 2010  
(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 ( Act ) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. 37244E107

**1** NAMES OF REPORTING PERSONS  
Paulson & Co. Inc.

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

**2**  
(a)   
(b)

**3** SEC USE ONLY

**4** CITIZENSHIP OR PLACE OF ORGANIZATION  
State of Delaware

**5** SOLE VOTING POWER  
NUMBER OF 51,606,409 (see Note 1 to Item 4 below)

**6** SHARED VOTING POWER  
SHARES BENEFICIALLY OWNED BY None

**7** SOLE DISPOSITIVE POWER  
EACH REPORTING PERSON 51,606,409 (see Note 1 to Item 4 below)

**8** SHARED DISPOSITIVE POWER  
WITH: None

**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
51,606,409 (see Note 1 to Item 4 below)

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

o

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

6.74%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

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**Item 1(A) Name of Issuer**

GenOn Energy, Inc.

**Item 1(B) Address of Issuer**

1000 Main Street  
Houston, TX 77002

**Item 2(A) Name of Person Filing**

Paulson & Co. Inc.

**Item 2(B) Address of Principal Business Office**

1251 Avenue of the Americas, New York, NY 10020

**Item 2(C) Citizenship**

Delaware corporation

**Item 2(D) Title of Class of Securities**

Common Stock

**Item 2(E) CUSIP Number**

**37244E107**

**Item 3**

This statement is filed pursuant to Rule 13d-1(b). The person filing it has not acquired the securities with any purpose, or with the effect of, changing or influencing the control of the issuer, or in connection with or as a participant in any transaction having that purpose or effect, including any transaction subject to Rule 13d-3(b); is not a person reporting pursuant to paragraph Rule 13d-1(b)(1); and is not directly or indirectly the beneficial owner of 20% or more of the class of securities indicated above.

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**Item 4 Ownership**

Item 4(a) Amount beneficially owned 51,606,409 (see Note 1)

Item 4(b) Percent of class: 6.74%

Item 4(c) Number of shares as to which such person has:

- (i) Sole power to vote or direct the vote: 51,606,409 (see Note 1)
  
- (ii) Shared power to vote or direct the vote: None
  
- (iii) Sole power to dispose or direct disposition of: 51,606,409 (see Note 1)
  
- (iv) Shared power to dispose or direct disposition of: None

Note 1: Paulson & Co. Inc. ( Paulson ), an investment advisor that is registered under the Investment Advisors Act of 1940, furnishes investment advice to and manages onshore and offshore investment funds and to separate managed accounts (such investment funds and accounts, the Funds ). In its role as investment advisor, or manager, Paulson possesses voting and/or investment power over the securities of the Issuer described in this schedule that are owned by the Funds. All securities reported in this schedule are owned by the Funds. Paulson disclaims beneficial ownership of such securities.

**Item 5 Ownership of 5% or Less of a Class**

[do not check box]

**Item 6 Ownership of More than 5% on Behalf of Another Person**

All securities reported in this schedule are owned by Paulson s advisory clients, none of which to Paulson s knowledge owns more than 5% of the class. Paulson itself disclaims beneficial ownership of all such securities.

**Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person**

Not applicable

**Item 8 Identification and Classification of Members of the Group**

Not applicable

**Item 9 Notice of Dissolution of Group**

Not applicable

**Item 10 Certification**

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

**Signature**

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 14, 2011

Signature:

/s/ Stuart L. Merzer

Stuart L. Merzer

General Counsel & Chief Compliance Officer, Paulson & Co. Inc.