

SUNCOR ENERGY INC  
Form 6-K  
August 23, 2010

## FORM 6-K

# SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

**Report of Foreign Private Issuer**

**Pursuant to Rule 13a - 16 or 15d - 16 of  
the Securities Exchange Act of 1934**

**For the month of: August 2010**

**Commission File Number: 1-12384**

## SUNCOR ENERGY INC.

(Name of registrant)

**112 Fourth Avenue S.W.**

**P.O. Box 38**

**Calgary, Alberta**

**Canada, T2P 2V5**

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F:

Form 20-F

Form 40-F

Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the SEC pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934:

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Yes  No

If Yes is marked, indicate the number assigned to the registrant in connection with Rule 12g3-2(b):

N/A

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**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

**SUNCOR ENERGY INC.**

Date:

By:

August 20, 2010

Shawn Poirier  
Shawn Poirier  
Assistant Corporate Secretary

**EXHIBIT INDEX**

| <b>Exhibit</b> | <b>Description of Exhibit</b>   |
|----------------|---|
| 99.1           | Press Release Dated August 20, 2010, Suncor Energy reports oil sands hydrogen unit outage |