SUNCOR ENERGY INC Form 6-K November 01, 2012

QuickLinks -- Click here to rapidly navigate through this document

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: November 2012 Commission File Number: 1-12384

SUNCOR ENERGY INC.

(Name of registrant)

150 - 6th Avenue S.W. P.O. Box 2844 Calgary, Alberta Canada, T2P 3E3

| Canada, T2P 3E3 | | |
|---|---|--|
| Indicate by check mark whether the registrant files or will file annua | al reports under cover of Form 20-F or Form 40-F: | |
| Form 20-F Indicate by check mark whether the registrant by furnishing the info the SEC pursuant to Rule 12g3-2(b) under the Securities Exchange | ormation contained in this Form is also thereby furnishing the information to | |
| Yes If "Yes" is marked, indicate the number assigned to the registrant in | No X connection with Rule 12g3-2(b): | |
| N/A | | |

INCORPORATION BY REFERENCE

The Registrant's Management's Discussion and Analysis for the third quarter ended September 30, 2012, included as Exhibit 99.2 of this Form 6-K, and the Unaudited Consolidated Financial Statements for the third quarter ended September 30, 2012, included as Exhibit 99.3 of this Form 6-K, are incorporated by reference into and as an exhibit to the Registration Statement on Form F-9 (File No. 333-181421) of the Registrant, Suncor Energy Inc.

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: | Ву: |
| November 1, 2012 | "Shawn Poirier" |
| | Shawn Poirier Assistant Corporate Secretary |

EXHIBIT INDEX

| Exhibit | Description of Exhibit |
|---------|--|
| 99.1 | Report to Shareholders for the third quarter ended September 30, 2012 |
| 99.2 | Management's Discussion and Analysis for the third quarter ended September 30, 2012 |
| 99.3 | Unaudited Consolidated Financial Statements for the third quarter ended September 30, 2012 |
| 99.4 | Certification of the President and Chief Executive Officer |
| 99.5 | Certification of the Chief Financial Officer |

QuickLinks

INCORPORATION BY REFERENCE SIGNATURES EXHIBIT INDEX