UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 UNDER THE SECURITIES EXCHANGE ACT OF 1934

For the month of September 2015

Commission File Number: 001-33107

CANADIAN SOLAR INC.

545 Speedvale Avenue West Guelph, Ontario, Canada N1K 1E6

(Address of principal executive office)

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 if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

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Form 6-K

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SIGNATURE

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.

CANADIAN SOLAR INC.

By: /s/ Shawn (Xiaohua) Qu Name: Shawn (Xiaohua) Qu Chairman, President and Chief Executive Officer Title:

Date: September 11, 2015

EXHIBIT INDEX

Exhibit 99.1 — Press Release





Canadian Solar Subsidiary Recurrent Energy Secures Debt Financing for 200 MW Tranquillity Solar Power Project

GUELPH, Ontario, Canada, September 10, 2015 — Canadian Solar Inc. (the "Company", or "Canadian Solar") (NASDAQ: CSIQ), one of the world's largest solar power companies, today announced that its wholly owned subsidiary, Recurrent Energy, one of North America's largest solar project developers, has closed on a combined construction and term debt facility, with a syndicate of six banks, for the 200-megawatt (MW) Tranquillity Solar Power Project in California. The project, developed by Recurrent Energy, is currently under construction.

With NORD/LB as the Coordinating Lead Arranger, six banks, including Rabobank, Santander, KeyBanc, CIT, and CIBC, will provide project-level construction debt, LC facilities and a back-leveraged term facility, totaling \$337 million.

"At a time when the U.S. utility-scale solar industry is experiencing record growth, top tier financiers find high-quality solar projects to be an attractive asset class," said Dr. Shawn Qu, Chairman and Chief Executive Officer of Canadian Solar. "We are proud to partner with this leading group of lenders on the Tranquillity project which underscores our broader team's ability to consistently deliver bankable solar projects."

"We are delighted to support Recurrent Energy on this important transaction. Tranquillity builds on our commitment to finance renewable projects with strong fundamentals," Nicolai Dillow, Head of North American Originations at NORD/LB commented.

The Tranquillity project, covering an area of 1,900 acres in Fresno County, is expected to reach commercial operation in the fourth quarter of 2016. The project is expected to generate enough clean solar energy to power approximately 55,000 homes.

About Recurrent Energy

Recurrent Energy, a subsidiary of Canadian Solar Inc., is redefining what it means to be a mainstream clean energy company, with utility-scale solar plants that provide competitive clean electricity. The company has more than 4 GW of solar projects in development in North America. Additional details are available at: www.recurrentenergy.com

About Canadian Solar Inc.

Founded in 2001 in Canada, Canadian Solar is one of the world's largest and foremost solar power companies. As a leading manufacturer of solar photovoltaic modules and a provider of solar energy solutions, Canadian Solar has a geographically diversified pipeline of utility-scale power projects. In the past 14 years, Canadian Solar has successfully deployed over 11 GW of premium quality modules in over 70 countries around the world. Canadian Solar is one of the most bankable companies in the solar industry, and has been publically listed on NASDAQ since 2006. For additional information about the company, follow Canadian Solar on Facebook, Twitter, LinkedIn, or on the website.

Safe Harbor/Forward-Looking Statements

Certain statements in this press release are forward-looking statements that involve a number of risks and uncertainties that could cause actual results to differ materially. These statements are made under the "Safe Harbor" provisions of the U.S. Private Securities Litigation Reform Act of 1995. In some cases, you can identify forward-looking statements by such terms as "believes," "expects," "anticipates," "intends," "estimates," the negative of these terms, or other comparable terminology. Factors that could cause actual results to differ include the risks regarding general business and economic conditions and the state of the solar industry; governmental support for the deployment of solar power; future available supplies of solar grade silicon; demand for solar products by consumers and inventory levels of such products in the supply chain; changes in demand from significant customers; changes in demand in our project markets, including Canada, the U.S., Japan and China; changes in customer order patterns; capacity utilization; level of competition; pricing pressure and declines in average selling price; delays in new product introduction; continued success in technological innovations and delivery of products with the features customers demand; utility-scale project approval process delays; utility-scale project construction delays; utility-scale project cancelation due to failure to obtain all the necessary permits; shortage in supply of materials or capacity requirements; availability of financing; exchange rate fluctuations; trade protectionism in Europe, the U.S. and India; litigation and other risks as described in the Company's SEC filings, including its annual report on Form 20-F filed on April 28, 2014. Although the Company believes that the expectations reflected in its forward looking statements are reasonable, it cannot guarantee future results, level of activity, performance, or achievements. Investors should not place undue reliance on these forward-looking statements are reasonable, it canno