UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Post-Effective Amendment No. 2

to

Form S-3

REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

CLEAN ENERGY FUELS CORP.

(Exact Name of Registrant as Specified in Its Charter)

Delaware

(State or Other Jurisdiction of Incorporation or Organization)

33-0968580

(I.R.S. Employer Identification No.)

3020 Old Ranch Parkway, Suite 400 Seal Beach, California 90740 (562) 493-2804

(Address, Including Zip Code, and Telephone Number, Including Area Code, of Registrant's Principal Executive Offices)

Andrew J. Littlefair **President and Chief Executive Officer Clean Energy Fuels Corp.** 3020 Old Ranch Parkway, Suite 400 Seal Beach, California 90740 (562) 493-2804 (Name, address, including zip code, and telephone number,

including area code, of agent for service)

J. Nathan Jensen, Esq. Vice President and General Counsel Clean Energy Fuels Corp. 3020 Old Ranch Parkway, Suite 400 Seal Beach, California 90740 Telephone: (562) 493-2804 Facsimile: (562) 493-4956

Copies to:

Andrew D. Thorpe, Esq. Morrison & Foerster LLP 425 Market Street, 32nd Floor San Francisco, California 94105 Telephone: (415) 268-7000 Facsimile: (415) 268-7522

Approximate date of commencement of proposed sale to the public: From time to time after the effective date of this registration statement.

If the only securities being registered on this form are being offered pursuant to dividend or interest reinvestment plans, please check the following box. o

If any of the securities being registered on this form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box. x

If this form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. o

If this form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. o

If this form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box. o

If this form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box. o

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	0	Accelerated filer	х
Non-accelerated filer	0	Smaller reporting company	0

CALCULATION OF REGISTRATION FEE

	Title of each class of securities to be registered	Amount to be registered (1)(2)(3)(8)	Proposed maximum offering price per unit (3)	Proposed maximum aggregate offering price (3)(4)(5)	Amount of registration fee (3)
	y Offering				
Com	mon Stock, par value \$.0001 per share				
Prefe	erred Stock, par value \$.0001 per share				
Debt	Securities				
Warra	ants				
Right	ts				
Units	s (6)				
Total				\$ 150,475,91	.6 (7)
Second	ary Offering				
Com	mon Stock to be sold by selling stockholder	491,764	3)	3)	(8) (8)
(1)	With respect to the primary offering, also includes an inde a proposed aggregate offering price of \$150,475,916, whi and as may be issued upon conversion, redemption, repur- dilution provisions. Except as provided in Rule 462(b) un the registrant pursuant to this registration statement excee	ch may be offered by the registr chase, exchange or exercise of a der Securities Act of 1933, in no	ant from time to time ir ny securities registered	n unspecified numbers hereunder, including u	and at indeterminate prices, under any applicable anti-
(2)	Pursuant to Rule 416 under the Securities Act of 1933, als dividend or similar transaction.	so covers any additional securities	es that may be offered o	or issued in connection	with any share split, share
(3)	With respect to the primary offering, pursuant to General proceeds to be raised, but does not specify by each class is maximum aggregate offering price.				0 00 0
(4)	With respect to the primary offering, the proposed maxim Rule 457(o) under the Securities Act of 1933.	um aggregate offering price has	been estimated solely t	o calculate the registra	tion fee in accordance with
(5)	Includes consideration to be received by us, if applicable, securities.	for registered securities that are	issuable upon exercise	, conversion or exchan	ge of other registered

(6) Consisting of some or all of the securities listed above, in any combination, including common stock, preferred stock and warrants.

- (7) The securities to be sold in the primary offering were previously registered and the applicable registration fee was previously paid in accordance with Rule 456(b) and Rule 457(r) under the Securities Act of 1933 by the filing of a prospectus pursuant to Rule 424(b) under the Securities Act of 1933 on March 9, 2011 (File No. 333-168433).
- (8) The 491,764 shares of common stock to be sold by the selling stockholder consists of: (i) 210,866 shares of common stock remaining from the 2,490,599 shares of common stock that were included in Post-Effective Amendment No. 1 to this Registration Statement filed on March 9, 2011 and declared effective on March 11, 2011; and (ii) 280,898 shares of common stock (with an aggregate maximum offering price of \$3.75 million based upon the issuance price of \$13.35 per share, which is the average closing price of our common stock on the Nasdaq Global Market for the three days prior to August 31, 2012). The 491,764 shares of common stock are being re-designated from a primary offering to a secondary offering in this Post-Effective Amendment No. 2 (see the Explanatory Note below). The registration fee with respect to the 210,866 shares of common stock to be sold by the selling stockholder has been previously paid in accordance with Rule 456(b) and Rule 457(r) under the Securities Act of 1933 in connection with the registrant's previous registration of the resale of such shares by the filing of a prospectus supplement pursuant to Rule 424(b) under the Securities Act of 1933 on September 7, 2010 (File No. 333-168433) and a prospectus supplement pursuant to Rule 424(b) under the Securities Act of 1933 on March 9, 2011 (File No. 333-168433).

Table of Contents

EXPLANATORY NOTE

This Post-Effective Amendment No. 2 (this "Post-Effective Amendment No. 2") to the Registration Statement on Form S-3 (File No. 333-168433) (the "Registration Statement") is being filed to re-designate 280,898 shares of common stock (with an aggregate maximum offering price of \$3.75 million based upon the issuance price of the common stock of \$13.35 per share, which is the average closing price of our common stock on the Nasdaq Global Market for the three days prior to August 31, 2012) from the primary offering to the secondary offering registered hereunder.

Table of Contents

PROSPECTUS



Clean Energy Fuels Corp.

\$150,475,916

Common Stock Preferred Stock Debt Securities Warrants Rights Units

491,764 Shares of Common Stock

to be sold by the Selling Stockholder

We or selling securityholders may from time to time offer to sell common stock, preferred stock, debt securities, depositary shares, warrants, or units.

Each time we or a selling securityholder sells securities pursuant to this prospectus, we will provide a supplement to this prospectus. Prospectus supplements will be filed and other offering material may be provided at later dates that will contain specific information about the offering and specific terms of the securities offered. You should read this prospectus and the applicable prospectus supplement carefully before you invest in our securities.

Our common stock is listed on the Nasdaq Global Market and trades under the symbol "CLNE." On August 30, 2012, the closing sale price of our common stock was \$13.08 per share. We or selling securityholders may offer and sell these securities to or through one or more underwriters, dealers and agents, or directly to purchasers, on a continuous or delayed basis. The applicable prospectus supplement will contain information, where applicable, as to any other listing, if any, of the securities covered by the applicable prospectus supplement.

The selling stockholder identified in this prospectus is offering up to 491,764 shares of our common stock, par value \$0.0001 per share. We issued such shares of common stock to the selling stockholder in connection with our acquisition of the assets and business of I.M.W. Industries Ltd. We will not receive any proceeds from the sale of shares being sold by the selling stockholder. The selling stockholder may sell the shares of common stock from time to time in the open market, on the Nasdaq Global Market, in privately negotiated transactions or a combination of these methods, at market prices prevailing at the time of sale, at prices related to the prevailing market prices, at negotiated prices, or otherwise as described under the section of this prospectus titled "Selling Stockholder Plan of Distribution."

Investing in our securities involves a high degree of risk. See the "Risk Factors" section of our filings with the SEC and the applicable prospectus supplement for certain risks that you should consider before investing in our securities.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of this prospectus. Any representation to the contrary is a criminal offense.

The date of this prospectus is August 31, 2012.

Table of Contents

TABLE OF CONTENTS

	Page
About This Prospectus	1
Available Information	2
Incorporation of Certain Information by Reference	2
Forward-Looking Statements	3
<u>Risk Factors</u>	4
Description of Securities We May Offer	4
Description of Capital Stock	4
Description of Debt Securities	8
Description of Warrants	17
Description of Rights	19
Description of Units	20
Other Information	21
Ratio of Earnings to Fixed Charges	21
Use of Proceeds	22
<u>Plan of Distribution</u>	22
Selling Securityholders	25
Selling Stockholder	25
Selling Stockholder Plan of Distribution	25
Validity of the Securities	27
Experts	27

Table of Contents

ABOUT THIS PROSPECTUS

This document is called a prospectus and is part of a registration statement that we have filed with the Securities and Exchange Commission, or the SEC, using a "shelf" registration process. Under this shelf registration process, we or selling securityholders may, from time to time, sell any combination of the securities described in this prospectus in one or more offerings in amounts to be determined from time to time.

This prospectus provides you with a general description of the securities we or selling securityholders may offer. Each time we or selling securityholders offer a type or series of securities described in this prospectus, we will provide a prospectus supplement, or information that is incorporated by reference into this prospectus, containing more specific information about the terms of the securities that are being offered. We may also authorize one or more free writing prospectuses to be provided to you that may contain material information relating to these offerings and securities. We may also add, update or change in the prospectus supplement any of the information contained in this

prospectus or in the documents that we have incorporated by reference into this prospectus, including without limitation, a discussion of any risk factors or other special considerations that apply to these offerings or securities or the specific plan of distribution. If there is any inconsistency between the information in this prospectus and a prospectus supplement or information incorporated by reference having a later date, you should rely on the information in that prospectus supplement or incorporated information having a later date. We urge you to read carefully this prospectus, any applicable prospectus supplement and any related free writing prospectus, together with the information incorporated herein by reference as described under the heading "Where You Can Find More Information," before buying any of the securities being offered.

You should rely only on the information we have provided or incorporated by reference in this prospectus, any applicable prospectus supplement and any related free writing prospectus. We have not authorized anyone to provide you with different information. No dealer, salesperson or other person is authorized to give any information or to represent anything not contained in this prospectus, any applicable prospectus supplement or any related free writing prospectus.

The registration statement containing this prospectus, including exhibits to the registration statement, provides additional information about us and the securities offered under this prospectus and any prospectus supplement. We have filed and plan to continue to file other documents with the SEC that contain information about us and our business. Also, we will file legal documents that control the terms of the securities offered by this prospectus as exhibits to the reports that we file with the SEC. The registration statement and other reports can be read at the SEC web site or at the SEC offices mentioned under the heading "Available Information."

Table of Contents

AVAILABLE INFORMATION

1

We are required to file annual, quarterly and current reports, proxy statements and other information with the SEC. You may read and copy any documents filed by us at the SEC's public reference room at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information on the public reference room. Our filings with the SEC are also available to the public through the SEC's web site at http://www.sec.gov.

We have filed with the SEC a registration statement on Form S-3, of which this prospectus is a part, relating to the securities covered by this prospectus. This prospectus is a part of the registration statement and does not contain all the information in the registration statement. Whenever a reference is made in this prospectus to a contract or other document of the Company, the reference is only a summary and you should refer to the exhibits that are a part of the registration statement for a copy of the contract or other document. You may review a copy of the registration statement at the SEC's public reference room in Washington, D.C., as well as through the SEC's web site.

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The SEC and applicable law permits us to "incorporate by reference" into this prospectus information that we have or may in the future file with or furnish to the SEC. This means that we can disclose important information by referring you to those documents. You should read carefully the information incorporated herein by reference because it is an important part of this prospectus.

We incorporate by reference into this prospectus the following documents or information filed with the SEC (other than, in each case, documents or information deemed to have been furnished and not filed in accordance with SEC rules):

- · Our Annual Report on Form 10-K for the year ended December 31, 2011;
- · Our Quarterly Report on Form 10-Q for the periods ended March 31, 2012 and June 30, 2012;
- Our Current Reports on Form 8-K filed with the SEC on May 25, 2012 and July 10, 2012;
- The description of our common stock contained in the Registration Statement on Form S-1, which became effective on May 24, 2007, including any amendment or report filed for the purposes of updating such description; and
- All documents filed by Clean Energy Fuels Corp. under Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), on or after the date of this prospectus and before the termination of this offering shall be deemed to be incorporated by reference into this prospectus from the respective dates of filing of such documents.

In addition, all documents filed by Clean Energy Fuels Corp. with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act after the date of the filing of this prospectus included in this Post-Effective Amendment No. 2 and prior to effectiveness of this Post-Effective Amendment No. 2 shall be deemed to be incorporated by reference into this prospectus from the respective dates of filing of such documents. Any information that we subsequently file with the SEC that is incorporated by reference as described above will automatically update and supersede any previous information that is part of this prospectus.

Any information that we subsequently file with the SEC that is incorporated by reference as described above will automatically update and supersede any previous information that is part of this prospectus.

We will provide without charge to each person, including any beneficial owner, to whom this prospectus is delivered, upon his or her written or oral request, a copy of any or all documents referred to above which have been or may be incorporated by reference into this prospectus excluding exhibits to those documents unless they are specifically incorporated by reference into those documents. Written or telephone requests should be directed to Clean Energy Fuels Corp., Attn: Investor Relations, 3020 Old Ranch Parkway, Suite 400, Seal Beach, California 90740, (562) 493-2804.

2

Table of Contents

FORWARD-LOOKING STATEMENTS

This prospectus and any accompanying prospectus supplement, including the documents we incorporate by reference therein or that are deemed to be a part thereof, contain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended (the "Securities Act"), and Section 21E of the Exchange Act. Such statements include, without limitation, statements regarding our expectations, hopes or intentions regarding the future. These forward looking statements can often be identified by their use of words such as "expect," "believe," "anticipate," "outlook," "could," "target," "project," "intend," "plan," "seek," "estimate," "should," "may" and "assume," as well as variations of such words and similar expressions referring to the future. They also include statements concerning anticipated revenues, income or loss, capital expenditures, dividends, capital structure or other financial terms. For a non-exhaustive list of certain forward-looking statements that are incorporated by reference into or deemed to be a part of this prospectus and any prospectus supplement, please refer to the "Cautionary Note Regarding Forward-Looking Statements" in our Annual Report on Form 10-K for the year ended December 31, 2011.

Forward-looking statements involve certain risks and uncertainties, many of which are beyond our control. If any of those risks and uncertainties materialize, actual results could differ materially from those discussed in any such forward-looking statement. Among the factors that could cause actual results to differ materially from those discussed in forward-looking statements are those discussed under the heading "Risk Factors" and in other sections of (i) our Annual Report on Form 10-K for the year ended December 31, 2011, (ii) our Quarterly Report on Form 10-Q for the quarter ended June 30, 2012, (iii) our other reports filed from time to time with the SEC that are incorporated by reference into this prospectus and any prospectus supplement, or (iv) any prospectus supplement to this prospectus. See "Available Information" and "Incorporation of Certain Information by Reference" for information about how to obtain copies of those documents.

All forward-looking statements in this prospectus, any prospectus supplement and the documents incorporated by reference therein are made only as of the date of the document in which they are contained, based on information available to us as of the date of that document, and we caution you not to place undue reliance on forward-looking statements in light of the risks and uncertainties associated with them. Except as required by law, we undertake no obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise.

3

Table of Contents

RISK FACTORS

Investing in our securities involves significant risks. You should review carefully the risks and uncertainties described under the heading "Risk Factors" contained in, or incorporated by reference into, this prospectus, the applicable prospectus supplement, and any related free writing prospectus. Each of the referenced risks and uncertainties could adversely affect our business, operating results and financial condition, as well as adversely affect the value of an investment in our securities. Additional risks not known to us or that we believe are immaterial may also adversely affect our business, operating results and financial conditions.

DESCRIPTION OF SECURITIES WE MAY OFFER

We may issue, or selling securityholders may offer, from time to time, in one or more offerings the following securities:

- · shares of common stock;
- · shares of preferred stock;
- · debt securities;
- · warrants exercisable for debt securities, common stock or preferred stock;
- · or rights to purchase any of such securities; and
- · units of debt securities, common stock, preferred stock, rights or warrants, in any combination.

This prospectus contains a summary of the material general terms of the various securities that we or selling securityholders may offer. The specific terms of the securities will be described in a prospectus supplement, information incorporated by reference, or free writing prospectus, which may be in addition to or different from the general terms summarized in this prospectus. Where applicable, the prospectus supplement, information incorporated by reference or free writing prospectus will also describe any material United States federal income tax considerations relating to the securities offered and indicate whether the securities offered are or will be listed on any securities exchange. The summaries contained in this prospectus and in any prospectus supplements, information incorporated by reference or free writing prospectus may not contain all of the information that you would find useful. Accordingly, you should read the actual documents relating to any securities sold pursuant to this prospectus. See "Available Information" and "Incorporation of Certain Information by Reference" for information about how to obtain copies of those documents.

The terms of any particular offering, the initial offering price and the net proceeds to us will be contained in the prospectus supplement, information incorporated by reference or free writing prospectus relating to such offering.

DESCRIPTION OF CAPITAL STOCK

General

The following summary of the material features of our capital stock does not purport to be complete and is subject to, and qualified in its entirety by, the provisions of our restated certificate of incorporation, our amended and restated bylaws and other applicable law. See "Available Information."

Pursuant to our restated certificate of incorporation, we are currently authorized to issue 149,000,000 shares of common stock, par value \$0.0001 per share, and 1,000,000 shares of preferred stock, par value \$0.0001 per share. The authorized shares of our common stock and preferred stock will be available for issuance without further action by our stockholders, unless such action is required by applicable law or the rules of any stock exchange or automated quotation system on which our securities may be listed or traded. If the approval of our stockholders is not required, our board of directors may determine not to seek stockholder approval.

4

Table of Contents

Common Stock

Dividends

Subject to provisions of the Delaware General Corporation Law, or the DGCL, and to any future rights which may be granted to the holders of any series of our preferred stock, dividends are paid on our common stock when and as declared by our board of directors out of funds legally available for dividend payments.

Voting rights

Each holder of shares of our common stock is entitled to one vote per share on all matters submitted to a vote of our common stockholders. Holders of our common stock are not entitled to cumulative voting rights.

Liquidation

If we are liquidated, holders of our common stock are entitled to receive all remaining assets available for distribution to stockholders after satisfaction of our liabilities and the preferential rights of any of our preferred stock that may be outstanding at that time.

Preemptive rights

The holders of our common stock do not have any preemptive, conversion or redemption rights by virtue of their ownership of the common stock.

Preferred Stock

Shares of our preferred stock may be issued in one or more series, and our board of directors is authorized to determine the designation and to fix the number of shares of each series. Our board of directors is further authorized to fix and determine the dividend rate, premium or redemption rates, conversion rights, voting rights, preferences, privileges, restrictions and other variations granted to or imposed upon any wholly unissued series of our preferred stock.

Prior to the issuance of shares of a series of preferred stock, our board of directors will adopt resolutions and file a certificate of designation with the SEC. The certificate of designation will fix for each series the designation and number of shares and the rights, preferences, privileges and restrictions of the shares including, but not limited to, the following:

- the maximum number of shares in the series and the distinctive designation;
- · voting rights, if any, of the preferred stock;
- the dividend rate(s), period(s) and/or payment date(s) or method(s) of calculation applicable to the preferred stock;
- whether dividends are cumulative or non-cumulative, and if cumulative, the date from which dividends on the preferred stock will accumulate;
- the relative ranking and preferences of the preferred stock as to dividend rights and rights upon the liquidation, dissolution or winding up of our affairs;
 the terms and conditions, if applicable, upon which the preferred stock will be convertible into common stock, another series of preferred stock, or any other
- class of securities being registered hereby, including the conversion price (or manner of calculation) and conversion period;
- the provision for redemption, if applicable, of the preferred stock;
- the provisions for a sinking fund, if any, for the preferred stock;

5

Table of Contents

- · liquidation preferences;
- any limitations on the issuance of any class or series of preferred stock ranking senior to or on a parity with the class or series of preferred stock as to dividend rights and rights upon liquidation, dissolution or winding up of our affairs; and
- · any other specific terms, preferences, rights, limitations or restrictions of the preferred stock.

There shall be no limitation or restriction on any variation between any of the different series of preferred stock as to the designations, preferences and relative, participating, optional or other special rights, and the qualifications, limitations or restrictions thereof; and the several series of preferred stock may, except as otherwise expressly provided in any prospectus supplement, document incorporated by reference or any free writing prospectus, as applicable, vary in any and all respects as fixed and determined by the resolution or resolutions of our board of directors or any committee thereof, providing for the issuance of the various series; *provided, however*, that all shares of any one series of preferred stock shall have the same designation, preferences and relative, participating, optional or other special rights and qualifications, limitations and restrictions.

Except as otherwise required by law, or as otherwise fixed by resolution or resolutions of our board of directors, each stockholder shall be entitled to one vote for each share of capital stock held by such stockholder on the record date.

Certain Anti-Takeover Matters

Our restated certificate of incorporation and amended and restated bylaws include a number of provisions that may have the effect of encouraging persons considering unsolicited tender offers or other unilateral takeover proposals to negotiate with our board of directors rather than pursue non-negotiated takeover attempts. These provisions include:

Advance Notice Requirements

Our amended and restated bylaws establish advance notice procedures with regard to stockholder proposals relating to the nomination of candidates for election as directors or new business to be brought before meetings of our stockholders. These procedures provide that notice of such stockholder proposals must be timely and given in writing to our Secretary prior to the meeting at which the action is to be taken. Generally, to be timely, notice must be received at our principal executive offices not less than 60 days or more than 90 days prior to the anniversary date of the annual meeting for the preceding year. The notice must contain certain information specified in the amended and restated bylaws.

Preferred Stock

Our charter provides for 1,000,000 authorized shares of preferred stock. The existence of authorized but unissued shares of preferred stock may enable the board of directors to render more difficult or to discourage an attempt to obtain control of us by means of a merger, tender offer, proxy contest or otherwise. For example, if in the due exercise of its fiduciary obligations, the board of directors were to determine that a takeover proposal is not in our best interests, the board of directors could cause shares of preferred stock to be issued without stockholder approval in one or more private offerings or other transactions that might dilute the voting or other rights of the proposed acquiror or insurgent stockholder or stockholder group. In this regard, the charter grants our board of directors broad power to establish the rights and preferences of authorized and unissued shares of preferred stock. The issuance of shares of preferred stock could decrease the amount of earnings and assets available for distribution to holders of shares of common stock. The issuance may also adversely affect the rights and powers, including voting rights, of such holders and may have the effect of delaying, deterring or preventing a change of control of us.

Table of Contents

Delaware Takeover Statutes

We are subject to the provisions of Section 203 of the Delaware General Corporation Law regulating corporate takeovers. In general, Section 203 prohibits a Delaware corporation from engaging in any business combination with any interested stockholder for a period of three years following the date that the stockholder became an interested

- the transaction is approved by the board before the date the interested stockholder attained that status;
- upon consummation of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced; or
- on or after the date the business combination is approved by the board, the business combination is authorized at a meeting of stockholders by at least two-thirds of the outstanding voting stock that is not owned by the interested stockholder.

Section 203 defines "business combination" to include the following:

- any sale, lease, exchange, mortgage, transfer, pledge or other disposition of 10% or more of the assets of the corporation involving the interested stockholder; a any merger or consolidation involving the corporation or any majority-owned subsidiary and the interested stockholder;
- subject to certain exceptions, any transaction that results in the issuance or transfer by the corporation or by any majority-owned subsidiary of any stock of the corporation or of such subsidiary to the interested stockholder;
- any transaction involving the corporation or any majority-owned subsidiary that has the effect of increasing the proportionate share of the stock of any class or series of the corporation beneficially owned by the interested stockholder; or
- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits provided by or through the corporation or any majority-owned subsidiary.

In general, Section 203 defines "interested stockholder" to be any entity or person beneficially owning 15% or more of the outstanding voting stock of the corporation and any entity or person affiliated with or controlling or controlled by any of these entities or persons.

A Delaware corporation may opt out of this provision either with an express provision in its original Certificate of Incorporation or in an amendment to its Certificate of Incorporation or Bylaws approved by its stockholders. We have not opted out of this provision. Section 203 could prohibit or delay mergers or other takeover or change in control attempts and, accordingly, may discourage attempts to acquire us.

Limitation of Liability and Indemnification Matters

Our restated certificate of incorporation provides that a director of ours will not be liable to us or our stockholders for monetary damages for breach of fiduciary duty as a director, except in certain cases where liability is mandated by the Delaware General Corporation Law. Our amended and restated bylaws also provide for indemnification, to the fullest extent permitted by law, by us of any person made or threatened to be made a party to, or who is involved in, any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative, by reason of the fact that such person is or was our director or officer, or at our request, serves or served as a director or officer of any other enterprise, against all expenses, liabilities, losses and claims actually incurred or suffered by such person in connection with the action, suit or proceeding. Our amended and restated bylaws also provide that, to the extent authorized from time to time by our board of directors, we may provide indemnification to any one or more employees and other agents of ours to the extent and effect determined by the board of directors to be appropriate and authorized by the Delaware General Corporation Law. Our amended and restated bylaws also permit us to purchase and maintain insurance for the foregoing and we expect to maintain such insurance.

7

Table of Contents

Listing

Our common stock is listed on the Nasdaq Global Market and trades under the symbol "CLNE."

Transfer Agent and Registrar

The Transfer Agent and Registrar for our common stock is Computershare Trust Company, N.A.

DESCRIPTION OF DEBT SECURITIES

The following sets forth certain general terms and provisions of the base indenture to be entered into between us and an entity identified in the applicable prospectus supplement, as trustee, under which the debt securities are to be issued from time to time. We have filed a form of the base indenture as an exhibit to the registration statement of which this prospectus is a part. When the debt securities are offered in the future, the applicable offering material will explain the particular terms of those securities and the extent to which the general provisions may apply. The base indenture, as it may be supplemented, amended or modified from time to time, is referred to in this prospectus as the "indenture." Wherever particular sections or defined terms of the indenture are referred to, it is intended that such sections or defined terms shall be incorporated herein by reference. In this section of the prospectus, the term "the Company" refers only to Clean Energy Fuels Corp. and not to any of its subsidiaries.

This summary and any description of the indenture and any debt securities in the applicable prospectus supplement, information incorporated by reference or free writing prospectus is subject to and is qualified in its entirety by reference to all the provisions of the indenture, any indenture supplement and the terms of the debt securities, including, in each case, the definitions therein of certain terms. We will file each of these documents, as applicable, with the SEC and incorporate them by reference as an exhibit to the registration statement of which this prospectus is a part on or before the time we issue a series of debt securities. See "Available Information" and "Incorporation of Certain Information by Reference" for information on how to obtain a copy of a document when it is filed. The specific terms of the debt securities as described in a prospectus supplement, information incorporated by reference, or free writing prospectus will supplement and, if applicable, may modify or replace the general terms described in this section.

The debt securities will represent unsecured general obligations of the Company, unless otherwise provided in the applicable offering material. As indicated in the applicable offering material, the debt securities will be either senior debt or subordinated debt.

General

The indenture does not limit the amount of debt securities that may be issued thereunder. The applicable prospectus supplement, documents incorporated by reference, or free writing prospectus with respect to any debt securities will set forth the following terms of the debt securities offered pursuant thereto:

· the title and series of such debt securities;

- · any limit upon the aggregate principal amount of such debt securities of such series;
- · whether such debt securities will be in global or other form;

Table of Contents

- the date or dates and method or methods by which principal and any premium on such debt securities is payable;
- the interest rate or rates (or method by which such rate will be determined), if any;
- the dates on which any such interest will be payable and the method of payment;
- whether and under what circumstances any additional amounts are payable with respect to such debt securities;
- the notice, if any, to holders of such debt securities regarding the determination of interest on a floating rate debt security;
- the basis upon which interest on such debt securities shall be calculated, if other than that of a 360 day year of twelve 30-day months;
- the place or places where the principal of and interest or additional amounts, if any, on such debt securities will be payable;
- any redemption or sinking fund provisions, or the terms of any repurchase at the option of the holder of the debt securities;
- the denominations of such debt securities, if other than \$1,000 and integral multiples thereof;
- any rights of the holders of such debt securities to convert the debt securities into, or exchange the debt securities for, other securities or property;
- the terms, if any, on which payment of principal or any premium, interest or additional amounts on such debt securities will be payable in a currency other than U.S. dollars;
- the terms, if any, by which the amount of payments of principal or any premium, interest or additional amounts on such debt securities may be determined by reference to an index, formula, financial or economic measure or other methods;
- · if other than the principal amount hereof, the portion of the principal amount of such debt securities that will be payable upon declaration of acceleration of the maturity thereof or provable in bankruptcy;
- any events of default or covenants in addition to or in lieu of those described herein and remedies therefor;
- · whether such debt securities will be subject to defeasance or covenant defeasance;
- the terms, if any, upon which such debt securities are to be issuable upon the exercise of warrants, units or rights;
- · any trustees and any authenticating or paying agents, transfer agents or registrars or any other agents with respect to such debt securities;
- the terms, if any, on which such debt securities will be subordinate to other debt of the Company;
- · whether such debt securities will be guaranteed and the terms thereof;
- · whether such debt securities will be secured by collateral and the terms of such security; and
- any other specific terms of such debt securities and any other deletions from or additions to or modifications of the indenture with respect to such debt securities.

9

Table of Contents

Debt securities may be presented for exchange, conversion or transfer in the manner, at the places and subject to the restrictions set forth in the debt securities and the applicable offering material. Such services will be provided without charge, other than any tax or other governmental charge payable in connection therewith, but subject to the limitations provided in the indenture.

The indenture does not contain any covenant or other specific provision affording protection to holders of the debt securities in the event of a highly leveraged transaction or a change in control of the Company, except to the limited extent described below under "— Consolidation, Merger and Sale of Assets."

Modification and Waiver

The indenture provides that supplements to the indenture and the applicable supplemental indentures may be made by the Company and the trustee for the purpose of adding any provisions to or changing in any manner or eliminating any of the provisions of the indenture or of modifying in any manner the rights of the holders of debt securities of a series under the indenture or the debt securities of such series, with the consent of the holders of a majority (or such greater amount as is provided for a particular series of debt securities) in principal amount of the outstanding debt securities issued under such indenture that are affected by the supplemental indenture, voting as a single class; provided that no such supplemental indenture may, without the consent of the holder of each such debt security affected thereby, among other things:

(a) change the stated maturity of the principal of, or any premium, interest or additional amounts on, such debt securities, or reduce the principal amount thereof, or reduce the rate or extend the time of payment of interest or any additional amounts thereon, or reduce any premium payable on redemption thereof or otherwise, or reduce the amount of the principal of debt securities issued with original issue discount that would be due and payable upon an acceleration of the maturity thereof or the amount thereof provable in bankruptcy, or change the redemption provisions or adversely affect the right of repayment at the option of the holder, or change the place of payment or currency in which the principal of, or any premium, interest or additional amounts with respect to any debt security is payable, or impair or affect the right of any holder of debt securities to institute suit for the payment after such payment is due (except a rescission and annulment of acceleration with respect to a series of debt securities by the holders of at least a majority in aggregate principal amount of the then outstanding debt securities of such series and a waiver of the payment default that resulted from such acceleration);

(b) reduce the percentage of outstanding debt securities of any series, the consent of the holders of which is required for any such supplemental indenture, or the consent of whose holders is required for any waiver or reduce the quorum required for voting;

(c) modify any of the provisions of the sections of such indenture relating to supplemental indentures with the consent of the holders, waivers of past defaults or securities redeemed in part, except to increase any such percentage or to provide that certain other provisions of such indenture cannot be modified or waived without the consent of each holder affected thereby; or

(d) make any change that adversely affects the right to convert or exchange any security into or for common stock or other securities, cash or other property in accordance with the terms of the applicable debt security.

The indenture provides that a supplemental indenture that changes or eliminates any covenant or other provision of the indenture that has expressly been included solely for the benefit of one or more particular series of debt securities, or that modifies the rights of the holders of such series with respect to such covenant or other provision, shall be deemed not to affect the rights under the indenture of the holders of debt securities.

10

Table of Contents

The indenture provides that the Company and the trustee may, without the consent of the holders of any series of debt securities issued thereunder, enter into additional supplemental indentures for one of the following purposes:

(a) to evidence the succession of another corporation to the Company and the assumption by any such successor of the covenants of the Company in such indenture and in the debt securities issued thereunder;

(b) to add to the covenants of the Company or to surrender any right or power conferred on the Company pursuant to the indenture;

(c) to establish the form and terms of debt securities issued thereunder;

(d) to evidence and provide for a successor trustee under such indenture with respect to one or more series of debt securities issued thereunder or to provide for or facilitate the administration of the trusts under such indenture by more than one trustee;

(e) to cure any ambiguity, to correct or supplement any provision in the indenture that may be defective or inconsistent with any other provision of the indenture or to make any other provisions with respect to matters or questions arising under such indenture; provided that no such action pursuant to this clause (e) shall adversely affect the interests of the holders of any series of debt securities issued thereunder in any material respect;

(f) to add to, delete from or revise the conditions, limitations and restrictions on the authorized amount, terms or purposes of issue, authentication and delivery of securities under the indenture;

(g) to add any additional events of default with respect to all or any series of debt securities;

(h) to supplement any of the provisions of the indenture as may be necessary to permit or facilitate the defeasance and discharge of any series of debt securities, provided that such action does not adversely affect the interests of any holder of an outstanding debt security of such series or any other security in any material respect;

(i) to make provisions with respect to the conversion or exchange rights of holders of debt securities of any series;

(j) to pledge to the trustee as security for the debt securities of any series any property or assets;

(k) to add guarantees in respect of the debt securities of one or more series;

(1) to change or eliminate any of the provisions of the indenture, provided that any such change or elimination become effective only when there is no security of any series outstanding created prior to the execution of such supplemental indenture which is entitled to the benefit of such provision;

(m) to provide for certificated securities in addition to or in place of global securities;

(n) to qualify such indenture under the Trust Indenture Act of 1939, as amended;

(o) with respect to the debt securities of any series, to conform the text of the indenture or the debt securities of such series to any provision of the description thereof in the Company's offering memorandum or prospectus relating to the initial offering of such debt securities, to the extent that such provision, in the good faith judgment of the Company, was intended to be a verbatim recitation of a provision of the indenture or such securities; or

(p) to make any other change that does not adversely affect the rights of holders of any series of debt securities issued thereunder in any material respect.

Table of Contents

Events of Default

Unless otherwise provided in any applicable prospectus supplement, documents incorporated by reference or free writing prospectus, the following will be events of default under the indenture with respect to each series of debt securities issued thereunder:

(a) default for 30 days in the payment when due of interest on, or any additional amount in respect of, any series of debt securities;

(b) default in the payment of principal or any premium on any series of the debt securities outstanding under the indenture when due;

(c) default in the payment, if any, of any sinking fund installment when and as due by the terms of any debt security of such series, subject to any cure period that may be specified in any debt security of such series;

¹¹

(d) failure by the Company for 60 days after receipt by registered or certified mail of written notice from the trustee upon instruction from holders of at least 25% in principal amount of the then outstanding debt securities of such series to comply with any of the other agreements in the indenture and stating that such notice is a "Notice of Default" under the indenture; provided, that if such failure cannot be remedied within such 60-day period, such period shall be automatically extended by another 60 days so long as (i) such failure is subject to cure and (ii) the Company is using commercially reasonable efforts to cure such failure; and provided, further, that a failure to comply with any such other agreement in the indenture that results from a change in generally accepted accounting principles shall not be deemed to be an event of default;

(e) certain events of bankruptcy, insolvency or reorganization of the Company; and

(f) any other event of default provided in a supplemental indenture with respect to a particular series of debt securities, provided that any event of default that results from a change in generally accepted accounting principles shall not be deemed to be an event of default.

In case an event of default specified in clause (a) or (b) above shall occur and be continuing with respect to any series of debt securities, holders of at least 25%, and in case an event of default specified in any clause other than clause (a), (b) or (e) above shall occur and be continuing with respect to any series of debt securities, holders of at least a majority, in aggregate principal amount of the debt securities of such series then outstanding may declare the principal (or, in the case of discounted debt securities, the amount specified in the terms thereof) of such series to be due and payable. If an event of default described in (e) above shall occur and be continuing then the principal amount (or, in the case of discounted debt securities, the amount specified in the terms thereof) of all the terms thereof) of all the terms thereof) of all the debt securities outstanding shall be and become due and payable immediately, without notice or other action by any holder or the trustee, to the full extent permitted by law. Any past or existing default or event of default with respect to particular series of debt securities of such series, except in each case a continuing default (1) in the payment of the principal of, any premium or interest on, or any additional amounts with respect to, any debt security of such series, or (2) in respect of a covenant or provision which cannot be modified or amended without the consent of each holder affected thereby.

The indenture provides that the trustee may withhold notice to the holders of any default with respect to any series of debt securities (except in payment of principal of or interest or premium on, or sinking fund payment in respect of, the debt securities) if the trustee considers it in the interest of holders to do so.

12

Table of Contents

The indenture contains a provision entitling the trustee to be indemnified by the holders before proceeding to exercise any trust or power under the indenture at the request of such holders. The indenture provides that the holders of a majority in aggregate principal amount of the then outstanding debt securities of any series may direct the time, method and place of conducting any proceedings for any remedy available to the trustee or of exercising any trust or power conferred upon the trustee with respect to the debt securities of such series; provided, however, that the trustee may decline to follow any such direction if, among other reasons, the trustee determines in good faith that the actions or proceedings as directed may not lawfully be taken or would be unduly prejudicial to the holders of the debt securities of such series not joining in such direction. The right of a holder to institute a proceeding with respect to a series of debt securities will be subject to certain conditions precedent including, without limitation, that in case of an event of default specified in clause (a), (b) or (e) of the first paragraph above under "— Events of Default," holders of at least 25%, or in case of an event of default other than specified in clause (a), (b) or (e) of the first paragraph above under "— Events of Default," holders of at least 25%, or in case of an event of default other than specified in clause (a), (b) or (e) of the first paragraph above under "— Events of Default," holders of at least 25%, or in case of an event of default other than specified in clause (a), (b) or (e) of the first paragraph above under "— Events of Default," holders of at least a majority, in aggregate principal amount of the debt securities of such series then outstanding make a written request upon the trustee to exercise its powers under such indenture, indemnify the trustee and afford the trustee reasonable opportunity to act. Notwithstanding the foregoing, the holder has an absolute right to receipt of the principal of, pre

Consolidation, Merger and Sale of Assets

The indenture provides that the Company may not directly or indirectly consolidate with or merge with or into, or sell, assign, transfer, lease, convey or otherwise dispose of all or substantially all of its assets and properties and the assets and properties of its subsidiaries (taken as a whole) to another person in one or more related transactions unless the successor person is a person organized under the laws of any domestic jurisdiction and assumes the Company's obligations on the debt securities issued thereunder, and under the indenture, and after giving effect thereto no event of default, and no event that, after notice or lapse of time or both, would become an event of default, shall have occurred and be continuing, and that certain other conditions are met.

Certain Covenants

Payment of Principal, any Premium, Interest or Additional Amounts. The Company will duly and punctually pay the principal of, and premium and interest on or any additional amounts payable with respect to, any debt securities of any series in accordance with their terms.

Maintenance of Office or Agency. The Company will be required to maintain an office or agency in each place of payment for each series of debt securities for notice and demand purposes and for the purposes of presenting or surrendering debt securities for payment, registration of transfer, or exchange.

Reports. So long as any debt securities of a particular series are outstanding under the indenture, the Company will file with the trustee, within 30 days after the Company has filed the same with the Commission, unless such reports are available on the Commission's EDGAR filing system (or any successor thereto), copies of the annual reports and of the information, documents and other reports (or copies of such portions of any of the foregoing as the Commission may from time to time by rules and regulations prescribe) which the Company may be required to file with the Commission pursuant to Section 13 or Section 15(d) of the Exchange Act; or, if the Company is not required to file information, documents or reports pursuant to either of said Sections, then it shall file with the trustee and the Commission, in accordance with rules and regulations prescribed from time to time by the Commission, such of the supplementary and periodic information, documents and reports which may be required pursuant to Section 13 of the Exchange Act in respect of a security listed and registered on a national securities exchange as may be prescribed from time to time in such rules and regulations.

Table of Contents

Additional Covenants. Any additional covenants of the Company with respect to any series of debt securities will be set forth in the applicable prospectus supplement, documents incorporated by reference or free writing prospectus relating thereto.

Conversion Rights

The terms and conditions, if any, upon which the debt securities are convertible into common stock or preferred stock will be set forth in the applicable prospectus supplement, documents incorporated by reference or free writing prospectus relating thereto. Such terms will include the conversion price (or manner of calculation thereof),

the conversion period, provisions as to whether conversion will be at the option of the holders or the Company, the events requiring an adjustment of the conversion price and provisions affecting conversion in the event of redemption of such debt securities and any restrictions on conversion.

Redemption; Repurchase at the Option of the Holder; Sinking Fund

The terms and conditions, if any, upon which (a) the debt securities are redeemable at the option of the Company, (b) the holder of debt securities may cause the Company to repurchase such debt securities or (c) the debt securities are subject to any sinking fund will be set forth in the applicable prospectus supplement, documents incorporated by reference or free writing prospectus relating thereto.

Repurchases on the Open Market

The Company or any affiliate of the Company may at any time or from time to time repurchase any debt security in the open market or otherwise. Such debt securities may, at the option of the Company or the relevant affiliate of the Company, be held, resold or surrendered to the trustee for cancellation.

Discharge, Defeasance and Covenant Defeasance

The indenture provides, with respect to each series of debt securities issued thereunder, that the Company may satisfy and discharge its obligations under such debt securities of a series and such indenture with respect to debt securities of such series if:

(a) all debt securities of such series previously authenticated and delivered, with certain exceptions, have been accepted by the trustee for cancellation; or

(b) (i) the debt securities of such series have become due and payable, or mature within one year, or all of them are to be called for redemption within one year under arrangements satisfactory to the trustee for giving the notice of redemption and the Company irrevocably deposits in trust with the trustee, as trust funds solely for the benefit of the holders of such debt securities, for that purpose, money or governmental obligations or a combination thereof sufficient (in the opinion of a nationally recognized independent registered public accounting firm expressed in a written certification thereof delivered to the trustee) to pay the entire indebtedness on the debt securities of such series to maturity or redemption, as the case may be, and pays all other sums payable by it under such indenture; and

(ii) the Company delivers to the trustee an officers' certificate and an opinion of counsel, in each case stating that all conditions precedent provided for in such indenture relating to the satisfaction and discharge of such indenture with respect to the debt securities of such series have been complied with.

Notwithstanding such satisfaction and discharge, the obligations of the Company to compensate and indemnify the trustee, to pay additional amounts, if any, in respect of debt securities in certain circumstances and to convert or exchange debt securities pursuant to the terms thereof and the obligations of the Company and the trustee to hold funds in trust and to apply such funds pursuant to the terms of the indenture, with respect to issuing temporary debt securities, with respect to the registration, transfer and exchange of debt securities, with respect to the replacement of mutilated, destroyed, lost or stolen debt securities and with respect to the maintenance of an office or agency for payment, shall in each case survive such satisfaction and discharge.

```
14
```

Table of Contents

Unless inapplicable to debt securities of a series pursuant to the terms thereof, the indenture provides that (i) the Company will be deemed to have paid and will be discharged from any and all obligations in respect of the debt securities issued thereunder of any series, and the provisions of such indenture will, except as noted below, no longer be in effect with respect to the debt securities of such series ("defeasance") and (ii) (1) the Company may omit to comply with the covenant under "— Consolidation, Merger and Sale of Assets" and any other additional covenants established pursuant to the terms of such series, and such omission shall be deemed not to be an event of default under clause (d) or (f) of the first paragraph of "— Events of Default" and (2) the occurrence of any event described in clause (f) of the first paragraph of "— Events of Default" shall not be deemed to be an event of default, in each case with respect to the outstanding debt securities of such series ((1) and (2) of this clause (ii), "covenant defeasance"); provided that the following conditions shall have been satisfied with respect to such series:

(a) the Company has irrevocably deposited in trust with the trustee as trust funds solely for the benefit of the holders of the debt securities of such series, for payment of the principal of and interest of the debt securities of such series, money or government obligations or a combination thereof sufficient (in the opinion of a nationally recognized independent registered public accounting firm expressed in a written certification thereof delivered to the trustee) without consideration of any reinvestment to pay and discharge the principal of and accrued interest on the outstanding debt securities of such series to maturity or earlier redemption (irrevocably provided for under arrangements satisfactory to the trustee), as the case may be;

(b) such defeasance or covenant defeasance will not result in a breach or violation of, or constitute a default under, such indenture or any other material agreement or instrument to which the Company is a party or by which it is bound;

(c) no event of default or event which with notice or lapse of time would become an event of default with respect to such debt securities of such series shall have occurred and be continuing on the date of such deposit;

(d) the Company shall have delivered to such trustee an opinion of counsel as described in the indenture to the effect that the holders of the debt securities of such series will not recognize income, gain or loss for Federal income tax purposes as a result of the Company's exercise of its option under this provision of such indenture and will be subject to federal income tax on the same amount and in the same manner and at the same times as would have been the case if such deposit and defeasance or covenant defeasance had not occurred;

(e) the Company has delivered to the trustee an officers' certificate and an opinion of counsel, in each case stating that all conditions precedent provided for in such indenture relating to the defeasance contemplated have been complied with;

(f) if the debt securities are to be redeemed prior to their maturity, notice of such redemption shall have been duly given or in another manner satisfactory to the trustee; and

(g) any such defeasance or covenant defeasance shall comply with any additional or substitute terms provided for by the terms of such debt securities of such series.

Notwithstanding a defeasance or covenant defeasance, the Company's obligations with respect to the following in respect of debt securities of such series will survive with respect to such securities until otherwise terminated or discharged under the terms of the indenture or no debt securities of such series are outstanding:

(a) the rights of holders of outstanding debt securities of such series to receive payments in respect of the principal of, interest on or premium or additional amounts, if any, payable in respect of, such debt securities when such payments are due from the trust referred in clause (a) in the preceding paragraph;

(b) the issuance of temporary debt securities, the registration, transfer and exchange of debt securities, the replacement of mutilated, destroyed, lost or stolen debt securities and the maintenance of an office or agency for payment and holding payments in trust;

(c) the rights, powers, trusts, duties and immunities of the trustee, and the Company's obligations in connection therewith; and

(d) the defeasance or covenant defeasance provisions of the indenture.

Applicable Law

The indenture provides that the debt securities and the indenture will be governed by and construed in accordance with the laws of the State of New York.

16

Table of Contents

DESCRIPTION OF WARRANTS

General

We may issue warrants to purchase debt securities, common stock, preferred stock or any combination of these securities. We may issue the warrants independently or together with any underlying securities, and the warrants may be attached or separate from the underlying securities. We may also issue a series of warrants under a separate warrant agreement to be entered into between us and a warrant agent. The warrant agent will act solely as our agent in connection with the warrants of such series and will not assume any obligation or relationship of agency for or with holders or beneficial owners of warrants.

The following description is a summary of selected provisions relating to the warrants that we may issue. The summary is not complete. When warrants are offered in the future, a prospectus supplement, information incorporated by reference or free writing prospectus as applicable, will explain the particular terms of those securities and the extent to which these general provisions may apply. The specific terms of the warrants as described in a prospectus supplement information, incorporated by reference or free writing prospectus will supplement and, if applicable, may modify or replace the general terms described in this section.

This summary and any description of warrants in the applicable prospectus supplement, information incorporated by reference or free writing prospectus is subject to and is qualified in its entirety by reference to all the provisions of any specific warrant document or agreement, which we will file with the SEC for incorporation by reference into this prospectus. See "Available Information" and "Incorporation of Certain Information by Reference" for information on how to obtain a copy of a warrant document when it is filed.

When we refer to a series of warrants, we mean all warrants issued as part of the same series under the applicable warrant agreement.

Terms

The applicable prospectus supplement, information incorporated by reference or free writing prospectus, may describe the terms of any warrants that we may offer, including but not limited to the following:

- \cdot the title of the warrants;
- · the total number of warrants;
- the price or prices at which the warrants will be issued;
- the currency or currencies that investors may use to pay for the warrants;
- the date on which the right to exercise the warrants will commence and the date on which the right will expire;
- whether the warrants will be issued in registered form or bearer form;
- · information with respect to book-entry procedures, if any;
- · if applicable, the minimum or maximum amount of warrants that may be exercised at any one time;
- if applicable, the designation and terms of the underlying securities with which the warrants are issued and the number of warrants issued with each underlying security;
- · if applicable, the date on and after which the warrants and the related underlying securities will be separately transferable;
- · if applicable, a discussion of material United States federal income tax considerations;
- · if applicable, the terms of redemption of the warrants;
- the identity of the warrant agent, if any;
- · the procedures and conditions relating to the exercise of the warrants; and
- · any other terms of the warrants, including terms, procedures, and limitations relating to the exchange and exercise of the warrants.

17

Table of Contents

Warrant Agreements

We may issue the warrants in one or more series under one or more warrant agreements, each to be entered into between us and a bank, trust company, or other financial institution as warrant agent. We may add, replace, or terminate warrant agents from time to time. We may also choose to act as our own warrant agent or may choose one of our subsidiaries to do so.

The warrant agent under a warrant agreement will act solely as our agent in connection with the warrants issued under that agreement. The warrant agent will not assume any obligation or relationship of agency or trust for or with any holders of those warrants. Any holder of warrants may, without the consent of any other person, enforce

by appropriate legal action, on its own behalf, its right to exercise those warrants in accordance with their terms. Until the warrant is properly exercised, no holder of any warrant will be entitled to any rights of a holder of the warrant property purchasable upon exercise of the warrant.

Form, Exchange, and Transfer

We may issue the warrants in registered form or bearer form. Warrants issued in registered form, *i.e.*, book-entry form, will be represented by a global security registered in the name of a depository, which will be the holder of all the warrants represented by the global security. Those investors who own beneficial interests in a global warrant will do so through participants in the depository's system, and the rights of these indirect owners will be governed solely by the applicable procedures of the depository and its participants. In addition, we may issue warrants in non-global form, *i.e.*, bearer form. If any warrants are issued in non-global form, warrant certificates may be exchanged for new warrant certificates of different denominations, and holders may exchange, transfer, or exercise their warrants at the warrant agent's office or any other office indicated in the applicable prospectus supplement, information incorporated by reference or free writing prospectus.

Prior to the exercise of their warrants, holders of warrants exercisable for debt securities will not have any of the rights of holders of the debt securities purchasable upon such exercise and will not be entitled to payments of principal (or premium, if any) or interest, if any, on the debt securities purchasable upon such exercise. Prior to the exercise of their warrants, holders of warrants exercisable for shares of preferred stock or common stock will not have any rights of holders of the preferred stock or common stock purchasable upon such exercise and will not be entitled to dividend payments, if any, or voting rights of the preferred stock or common stock purchasable upon such exercise.

Exercise of Warrants

A warrant will entitle the holder to purchase for cash an amount of securities at an exercise price that will be stated in, or that will be determinable as described in, the applicable prospectus supplement, information incorporated by reference or free writing prospectus. Warrants may be exercised at any time up to the close of business on the expiration date set forth in the applicable prospectus supplement, information incorporated by reference or free writing prospectus. After the close of business on the expiration date, unexercised warrants will become void. Warrants may be redeemed as set forth in the applicable prospectus supplement, information incorporated by reference or free writing prospectus supplement, information incorporated by reference or free writing prospectus.

Warrants may be exercised as set forth in the applicable prospectus supplement, information incorporated by reference or free writing prospectus. Upon receipt of payment and the warrant certificate properly completed and duly executed at the corporate trust office of the warrant agent or any other office indicated in the prospectus supplement, information incorporated by reference or free writing prospectus, we will forward, as soon as practicable, the securities purchasable upon such exercise. If less than all of the warrants represented by such warrant certificate are exercised, a new warrant certificate will be issued for the remaining warrants.

18

Table of Contents

DESCRIPTION OF RIGHTS

General

We may issue rights to purchase our debt securities, common stock, preferred stock or other securities. These rights may be issued independently or together with any other security offered hereby and may or may not be transferable by the stockholder receiving the rights in such offering. In connection with any offering of such rights, we may enter into a standby arrangement with one or more underwriters or other purchasers pursuant to which the underwriters or other purchasers may be required to purchase any securities remaining unsubscribed for after such offering.

Each series of rights will be issued under a separate rights agreement which we will enter into with a bank or trust company, as rights agent, all which will be set forth in the relevant offering material. The rights agent will act solely as our agent in connection with the certificates relating to the rights and will not assume any obligation or relationship of agency or trust with any holders of rights certificates or beneficial owners of rights.

The following description is a summary of selected provisions relating to rights that we may offer. The summary is not complete. When rights are offered in the future, a prospectus supplement, information incorporated by reference or a free writing prospectus, as applicable, will explain the particular terms of those securities and the extent to which these general provisions may apply. The specific terms of the rights as described in a prospectus supplement, information incorporated by reference, or other offering material will supplement and, if applicable, may modify or replace the general terms described in this section.

This summary and any description of rights in the applicable prospectus supplement, information incorporated by reference or free writing prospectus is subject to and is qualified in its entirety by reference to the rights agreement and the rights certificates. We will file each of these documents, as applicable, with the SEC and incorporate them by reference as an exhibit to the registration statement of which this prospectus is a part on or before the time we issue a series of rights. See "Available Information" and "Incorporation of Certain Information by Reference" for information on how to obtain a copy of a document when it is filed.

The applicable prospectus supplement, information incorporated by reference or free writing prospectus may describe:

- . In the case of a distribution of rights to our stockholders, the date of determining the stockholders entitled to the rights distribution;
- . In the case of a distribution of rights to our stockholders, the number of rights issued or to be issued to each stockholder;
- the exercise price payable for each share of debt securities, common stock, preferred stock or other securities upon the exercise of the rights;
- the number and terms of the shares of debt securities, common stock, preferred stock or other securities which may be purchased per each right;
- the extent to which the rights are transferable;
- the date on which the holder's ability to exercise the rights shall commence, and the date on which the rights shall expire;
- the extent to which the rights may include an over-subscription privilege with respect to unsubscribed securities;
- · if applicable, the material terms of any standby underwriting or purchase arrangement entered into by us in connection with the offering of such rights; and
- any other terms of the rights, including, but not limited to, the terms, procedures, conditions and limitations relating to the exchange and exercise of the rights.

The provisions described in this section, as well as those described under "Description of Debt Securities" and "Description of Capital Stock," will apply, as applicable, to any rights we offer.

Table of Contents

DESCRIPTION OF UNITS

General

We may issue units composed of any combination of our debt securities, common stock, preferred stock and warrants. We will issue each unit so that the holder of the unit is also the holder of each security included in the unit. As a result, the holder of a unit will have the rights and obligations of a holder of each included security. The unit agreement under which a unit is issued may provide that the securities included in the unit may not be held or transferred separately, at any time or at any time before a specified date.

The following description is a summary of selected provisions relating to units that we may offer. The summary is not complete. When units are offered in the future, a prospectus supplement, information incorporated by reference or free writing prospectus as applicable, will explain the particular terms of those securities and the extent to which these general provisions may apply. The specific terms of the units as described in a prospectus supplement or information incorporated by reference will supplement and, if applicable, may modify or replace the general terms described in this section.

This summary and any description of units in the applicable prospectus supplement, information incorporated by reference or free writing prospectus is subject to and is qualified in its entirety by reference to the unit agreement, collateral arrangements and depositary arrangements, if applicable. We will file these documents with the SEC for incorporation by reference into this prospectus, as applicable. See "Available Information" and "Incorporation of Certain Information by Reference" for information on how to obtain a copy of a document when it is filed.

The applicable prospectus supplement, information incorporated by reference or free writing prospectus may describe:

- the designation and terms of the units and of the securities comprising the units, including whether and under what circumstances those securities may be held or transferred separately;
- any provisions for the issuance, payment, settlement, transfer, or exchange of the units or of the securities composing the units;
- \cdot whether the units will be issued in fully registered or global form; and

 \cdot any other terms of the units.

The applicable provisions described in this section, as well as those described under "Description of Debt Securities," "Description of Capital Stock" and "Description of Warrants," will apply to each unit and to each security included in each unit, respectively.

20

Table of Contents

OTHER INFORMATION

Effective January 1, 2012, we adopted the Financial Accounting Standards Board's ("FASB") Accounting Standards Update ("ASU") No. 2011-05, Comprehensive Income (Topic 220): Presentation of Comprehensive Income, which required a separate statement of Comprehensive Income that follows the Statement of Operations. As this standard requires retrospective application, we are including the impact of the adoption of ASU No. 2011-05 below to reflect retrospective application for each of the years for the three-year period ended December 31, 2011, as those financial statements are incorporated by reference into this Registration Statement.

Consolidated Statements of Comprehensive Income (In thousands)

	Year Ended December 31, 2009						Year E	December 31, 2010		Year Ended December 31, 2011								
		lean Energy Fuels Corp	N	oncontrolling Interest		Total	(Clean Energy Fuels Corp	N	Noncontrolling Interest		Total		ean Energy Juels Corp	ľ	Noncontrolling Interest		Total
Net income (loss)	\$	(33,249)	\$	(439)	\$	(33,688)	\$	(2,516)	\$	(257)	\$	(2,773)	\$	(47,633)	\$	178	\$	(47,455)
Other comprehensive income, net of tax:																		
Foreign currency translation adjustments		345		_		345		(1,778)		_		(1,778)		815		_		815
Unrealized losses on available-for sale securities		_		_		_		_		_		_		(126)		_		(126)
Unrecognized gains (losses) on derivatives		814				814		(4,231)				(4,231)		2,091				2,091
Total other comprehensive income, net of tax		1,159				1,159		(6,009)				(6,009)		2,780				2,780
Comprehensive income (loss)	\$	(32,090)	\$	(439)	\$	(32,529)	\$	(8,525)	\$	(257)	\$	(8,782)	\$	(44,853)	\$	178	\$	(44,675)

RATIO OF EARNINGS TO FIXED CHARGES

The following table sets forth our consolidated ratio of earnings to fixed charges or our deficiency of earnings to fixed charges for the periods indicated. For purposes of determining the amounts, earnings are defined as pre-tax income (loss) from continuing operations (including income or loss of noncontrolling interest), and adjusted for income or loss from equity method investees, plus fixed charges (as defined), plus amortization of capitalized interest, less interest capitalized. Fixed charges consist of interest expense and capitalized interest, plus amortization of capitalized debt issuance costs, plus a reasonable approximation of the interest portion of rental expense.

			(In thousands)				Six Months Ended
		•	Year F	Inded December 31	,			June
	 2007	2008		2009		2010	2011	30, 2012
Ratio of Earning to Fixed Charges:	_	_	_	_		_	 _	 _
Deficiency of Earnings to Fixed Charges:	\$ 7,672	\$ 44,558	\$	34,091	\$	4,994	\$ 50,036	\$ 45,760

USE OF PROCEEDS

Unless otherwise indicated in the applicable prospectus supplement, information incorporated by reference or free writing prospectus, we intend to use the net proceeds from the sale of securities for working capital and other general corporate purposes, which may include capital expenditures related to station construction activities, investment in our LNG plants and biomethane production plants, or future acquisitions of natural gas fueling infrastructure, vehicle or services businesses and biomethane production assets. We have not determined the amounts we plan to spend on any of the areas listed above or the timing of those expenditures. As a result, our management will have broad discretion to allocate the net proceeds from any offering and investors will be relying on the judgment of management with regard to the use of proceeds. Pending application of the net proceeds, we may temporarily invest the net proceeds in short-term marketable securities.

PLAN OF DISTRIBUTION

We or a selling securityholder may sell the securities through underwriters or dealers, through agents, directly to one or more purchasers, through a rights offering, or otherwise. We will describe the terms of the offering of the securities in a prospectus supplement, information incorporated by reference or free writing prospectus, including:

• the name or names of any underwriters, if any;

• the purchase price of the securities and the proceeds we will receive from the sale;

· any underwriting discounts and other items constituting underwriters' compensation;

- · any initial public offering price;
- · any discounts or concessions allowed or reallowed or paid to dealers; and
- · any securities exchange or market on which the securities may be listed.

Only underwriters we name in the prospectus supplement, information incorporated by reference or free writing prospectus are underwriters of the securities offered thereby.

22

Table of Contents

The distribution of securities may be effected, from time to time, in one or more transactions, including:

- · block transactions (which may involve crosses) and transactions on the Nasdaq Global Market or any other organized market where the securities may be traded;
- purchases by a broker-dealer as principal and resale by the broker-dealer for its own account pursuant to a prospectus supplement;
- · ordinary brokerage transactions and transactions in which a broker-dealer solicits purchasers;
- · sales "at the market" to or through a market maker or into an existing trading market, on an exchange or otherwise; and
- · sales in other ways not involving market makers or established trading markets, including direct sales to purchasers.

The securities may be sold at a fixed price or prices, which may be changed, or at market prices prevailing at the time of sale, at prices relating to the prevailing market prices or at negotiated prices. The consideration may be cash or another form negotiated by the parties. Agents, underwriters or broker-dealers may be paid compensation for offering and selling the securities. That compensation may be in the form of discounts, concessions or commissions to be received from us or from the purchasers of the securities. Dealers and agents participating in the distribution of the securities may be deemed to be underwriters, and compensation received by them on resale of the securities may be deemed to be underwriting discounts and commissions under the Securities Act. If such dealers or agents were deemed to be underwriters, they may be subject to statutory liabilities under the Securities Act.

We may also make direct sales through subscription rights distributed to our existing stockholders on a pro rata basis, which may or may not be transferable. In any distribution of subscription rights to our stockholders, if all of the underlying securities are not subscribed for, we may then sell the unsubscribed securities directly to third parties or may engage the services of one or more underwriters, dealers or agents, including standby underwriters, to sell the unsubscribed securities to third parties.

Some or all of the securities that we offer though this prospectus may be new issues of securities with no established trading market. Any underwriters to whom we sell our securities for public offering and sale may make a market in those securities, but they will not be obligated to do so and they may discontinue any market making at any time without notice. Accordingly, we cannot assure you of the liquidity of, or continued trading markets for, any securities that we offer.

Agents may, from time to time, solicit offers to purchase the securities. If required, we will name in the applicable prospectus supplement, document incorporated by reference or free writing prospectus, as applicable, any agent involved in the offer or sale of the securities and set forth any compensation payable to the agent. Unless otherwise indicated, any agent will be acting on a best efforts basis for the period of its appointment. Any agent selling the securities covered by this prospectus may be deemed to be an underwriter, as that term is defined in the Securities.

If underwriters are used in an offering, securities will be acquired by the underwriters for their own account and may be resold, from time to time, in one or more transactions, including negotiated transactions, at a fixed public offering price or at varying prices determined at the time of sale, or under delayed delivery contracts or other contractual commitments. Securities may be offered to the public either through underwriting syndicates represented by one or more managing underwriters or directly by one or more firms acting as underwriters. If an underwriter or underwriters are used in the sale of securities, an underwriting agreement will be executed with the underwriter or underwriters at the time an agreement for the sale is reached. The applicable prospectus supplement will set forth the managing underwriters, as well as any other underwriters or underwriters, with respect to a particular underwritten offering of securities, and will set forth the terms of the transactions, including compensation of the underwriters and dealers and the public offering price, if applicable. The prospectus, and the applicable prospectus supplement and any applicable free writing prospectus will be used by the underwriters to resell the securities.

Table of Contents

If a dealer is used in the sale of the securities, we, a selling securityholder, or an underwriter will sell the securities to the dealer, as principal. The dealer may then resell the securities to the public at varying prices to be determined by the dealer at the time of resale. To the extent required, we will set forth in the prospectus supplement, document incorporated by reference or free writing prospectus, as applicable, the name of the dealer and the terms of the transactions.

We or a selling securityholder may directly solicit offers to purchase the securities and may make sales of securities directly to institutional investors or others. These persons may be deemed to be underwriters within the meaning of the Securities Act with respect to any resale of the securities. To the extent required, the prospectus supplement, document incorporated by reference or free writing prospectus, as applicable, will describe the terms of any such sales, including the terms of any bidding or auction process, if used.

Agents, underwriters and dealers may be entitled under agreements which may be entered into with us or selling securityholders to indemnification against specified liabilities, including liabilities incurred under the Securities Act, or to contribution to payments they may be required to make in respect of such liabilities. If required, the prospectus supplement, document incorporated by reference or free writing prospectus, as applicable, will describe the terms and conditions of such indemnification or contribution. Some of the agents, underwriters or dealers, or their affiliates may be customers of, engage in transactions with or perform services for us, our subsidiaries or affiliates in the ordinary course of business.

Under the securities laws of some states, the securities offered by this prospectus may be sold in those states only through registered or licensed brokers or dealers.

Any person participating in the distribution of common stock registered under the registration statement that includes this prospectus will be subject to applicable provisions of the Exchange Act, and the applicable SEC rules and regulations, including, among others, Regulation M, which may limit the timing of purchases and sales of any of our common stock by any such person. Furthermore, Regulation M may restrict the ability of any person engaged in the distribution of our common stock to engage in market-making activities with respect to our common stock. These restrictions may affect the marketability of our common stock and the ability of any person or entity to engage in market-making activities with respect to our common stock.

Certain persons participating in an offering may engage in over-allotment, stabilizing transactions, short-covering transactions and penalty bids in accordance with Regulation M under the Exchange Act that stabilize, maintain or otherwise affect the price of the offered securities. If any such activities will occur, they will be described in the applicable prospectus supplement.

To the extent required, this prospectus may be amended or supplemented from time to time to describe a specific plan of distribution.

All securities we or a selling securityholder offer other than common stock will be new issues of securities with no established trading market. Any underwriters may make a market in these securities, but will not be obligated to do so and may discontinue any market making at any time without notice. We cannot guarantee the liquidity of the trading markets for any securities.

In compliance with the guidelines of the Financial Industry Regulatory Authority ("FINRA"), the aggregate maximum discount, commission or agency fees or other items constituting underwriting compensation to be received by any FINRA member or independent broker-dealer will not exceed 8% of any offering pursuant to this prospectus and any applicable prospectus supplement, as the case may be.

24

Table of Contents

SELLING SECURITYHOLDERS

Except as set forth below, information about selling securityholders, where applicable, will be set forth in a prospectus supplement, in a post-effective amendment, or in filings we make with the SEC under the Exchange Act that are incorporated by reference.

SELLING STOCKHOLDER

The following table, which was prepared based on information supplied to us by the selling stockholder, sets forth the name of the selling stockholder, the number of shares beneficially owned by the selling stockholder and the number of shares to be offered by the selling stockholder pursuant to this prospectus. The table also provides information regarding the beneficial ownership of our common stock by the selling stockholder as adjusted to reflect the assumed sale of all of the shares of common stock offered under this prospectus. The ownership percentage indicated in the following table is based on 86,929,434 outstanding shares of common stock of the Company as of July 30, 2012.

Beneficial ownership is determined in accordance with the rules of the SEC. The address of the selling stockholder is: c/o Clean Energy Fuels Corp., 3020 Old Ranch Parkway, Suite 400, Seal Beach, California 90740.

			Number of		
	Beneficial O	wnership	Shares	Beneficial O	Ownership
	Prior to C	Offering	Offered	After Of	ffering
Name of Selling Stockholder	Number	Percentage	Hereby	Number	Percentage
B&M Miller Equity Holdings Inc.(1)	491,764	*	491,764		%

* Represents beneficial ownership of less than one percent (1%).

(1) Bradley N. Miller has sole voting and dispositive power over the shares of common stock reported in the table above. Mr. Miller was the President of I.M.W. Industries Ltd. The shares being registered hereunder are a portion of the consideration received by IMW and its affiliates in connection with our acquisition of the assets and business of I.M.W. Mr. Miller is employed by us as President of our Clean Energy Compression Corp. subsidiary.

SELLING STOCKHOLDER PLAN OF DISTRIBUTION

The selling stockholder, and its pledges, assignees, donees, or other successors-in-interest may, from time to time, sell any or all of his shares of common stock on any stock exchange, market or trading facility on which the shares are traded or in private transactions. If the shares of common stock are sold through underwriters, broker-dealers

or agents, the selling stockholder will be responsible for underwriting discounts or commissions or agent's commissions. These sales may be at fixed prices, at prevailing market prices at the time of the sale, at varying prices determined at the time of sale, or negotiated prices. The selling stockholder may use any one or more of the following methods when selling shares:

- · block transactions (which may involve crosses) and transactions on the Nasdaq Global Market or any other organized market where the securities may be traded;
- · purchases by a broker-dealer as principal and resale by the broker-dealer for its own account;
- · ordinary brokerage transactions and transactions in which a broker-dealer solicits purchasers;
- · sales "at the market" to or through a market maker or into an existing trading market, on an exchange or otherwise;

25

Table of Contents

· sales in other ways not involving market makers or established trading markets, including direct sales to purchasers in privately negotiated transactions;

- · a combination of any such methods of sale; and
- \cdot any other method permitted pursuant to applicable law.

The selling stockholder may also engage in short sales against the box, puts and calls and other transactions in our securities or derivatives of our securities and may sell or deliver shares in connection with these trades.

Broker-dealers engaged by the selling stockholder may arrange for other broker-dealers to participate in sales. Broker-dealers may receive commissions or discounts from the selling stockholder (or, if any broker-dealer acts as agent for the purchaser of shares, from the purchaser) in amounts to be negotiated. The selling stockholder does not expect these commissions and discounts to exceed what is customary in the types of transactions involved. Any profits on the resale of shares of common stock by a broker-dealer acting as principal might be deemed to be underwriting discounts or commissions under the Securities Act. Discounts, concessions, commissions and similar selling expenses, if any, attributable to the sale of shares will be borne by the selling stockholder. The selling stockholder may agree to indemnify any agent, dealer or broker-dealer that participates in transactions involving sales of the shares if liabilities are imposed on that person under the Securities Act.

In connection with the sale of the shares of common stock or otherwise, the selling stockholder may enter into hedging transactions with broker-dealers, which may in turn engage in short sales of the shares of common stock in the course of hedging in positions they assume. The selling stockholder may also sell shares of common stock short and deliver shares of common stock covered by this prospectus to close out short positions and to return borrowed shares in connection with such short sales. The selling stockholder may also loan or pledge shares of common stock to broker-dealers that in turn may sell such shares.

The selling stockholder may from time to time pledge or grant a security interest in some or all of the shares of common stock owned by him and, if he defaults in the performance of his secured obligations, the pledgees or secured parties may offer and sell the shares of common stock from time to time under this prospectus after we have filed an update to this prospectus under Rule 424(b) under the Securities Act or other applicable provision of the Securities Act amending the list of selling stockholder to include the pledgee, transferee or other successors in interest as selling stockholder under this prospectus.

The selling stockholder also may transfer the shares of common stock in other circumstances, in which case the transferees, pledgees or other successors in interest will be the selling beneficial owners for purposes of this prospectus and may sell the shares of common stock from time to time under this prospectus after we have filed an update to this prospectus under Rule 424(b) or other applicable provision of the Securities Act amending the list of selling stockholder to include the pledgee, transferee or other successors in interest as selling stockholder under this prospectus. The selling stockholder also may transfer and donate the shares of common stock in other circumstances in which case the transferees, donees, pledgees or other successors in interest will be the selling beneficial owners for purposes of this prospectus.

The selling stockholder and any broker-dealers or agents that are involved in selling the shares may be deemed to be "underwriters" within the meaning of the Securities Act in connection with such sales. In such event, any commissions paid, or any discounts or concessions allowed to, such broker-dealers or agents and any profit realized on the resale of the shares purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act. At the time a particular offering of the shares of common stock is made, a prospectus supplement, if required, will be filed that will set forth the aggregate amount of shares of common stock being offered and the terms of the offering, including the name or names of any broker-dealers or agents, any discounts, commissions and other terms constituting

26

Table of Contents

compensation from the selling stockholder and any discounts, commissions or concessions allowed or reallowed or paid to broker-dealers. Under the securities laws of some states, the shares of common stock may be sold in such states only through registered or licensed brokers or dealers. There can be no assurance that the selling stockholder will sell any or all of the shares of common stock registered pursuant to the shelf registration statement, of which this prospectus is deemed a part.

The anti-manipulation rules of Regulation M under the Exchange Act may apply to sales of our common stock and activities of the selling stockholder, which may limit the timing of purchases and sales of any of the shares of common stock by the selling stockholder and any other participating person. Regulation M may also restrict the ability of any person engaged in the distribution of the shares of common stock to engage in passive market-making activities with respect to the shares of common stock. Passive market-making involves transactions in which a market-maker acts as both our underwriter and as a purchaser of our common stock in the secondary market. All of the foregoing may affect the marketability of the shares of common stock and the ability of any person or entity to engage in market-making activities with respect to the shares of common stock.

VALIDITY OF THE SECURITIES

Morrison & Foerster LLP, San Francisco, California, will pass upon the validity of the securities offered hereby.

EXPERTS

The consolidated financial statements and schedule of Clean Energy Fuels Corp. as of December 31, 2010 and 2011 and for each of the years in the three-year period ended December 31, 2011, and management's assessment of the effectiveness of internal control over financial reporting as of December 31, 2011 have been incorporated by

reference herein in reliance upon the report of KPMG LLP, independent registered public accounting firm, incorporated by reference herein and upon the authority of said firm as experts in auditing and accounting.

The audit report covering the December 31, 2010, consolidated financial statements refers to a change in the method of accounting for revenue recognition on transactions with multiple deliverables.

Table of Contents

PART II

27

Information Not Required in Prospectus

Item 14. Other Expenses of Issuance and Distribution

The following is a statement of the estimated expenses (other than underwriting discounts and commissions) to be incurred by Clean Energy Fuels Corp. in connection with the issuance and distribution of the securities registered under this registration statement.

SEC registration fee	\$ 17,905
FINRA filing fee	*
Accounting fees and expenses	*
Legal fees and expenses	*
Listing fees	*
Printing fees	*
Trustee fees and expenses	*
Miscellaneous fees and expenses	*
Total	\$ 17,905

* Estimated expenses are not presently known.

Item 15. Indemnification of Directors and Officers

Section 145 of the Delaware General Corporation Law provides that a corporation may indemnify directors and officers as well as other employees and individuals against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by such person in connection with any threatened, pending or completed actions, suits or proceedings in which such person is made a party by reason of such person being or having been a director, officer, employee or agent to the corporation. The Delaware General Corporation Law provides that Section 145 is not exclusive of other rights to which those seeking indemnification may be entitled under any bylaw, agreement, vote of stockholders or disinterested directors or otherwise.

Our restated certificate of incorporation and our amended and restated bylaws provide in effect that, subject to certain limited exceptions, we may indemnify our directors and officers to the extent authorized and permitted by the Delaware General Corporation Law. We have also maintained policies to insure our directors and officers, subject to the limits of the policies, against certain losses arising from any claims made against them by reason of being or having been such directors or officers. In addition, we have entered into contracts with certain of our directors and officers providing for indemnification of such persons by us to the full extent authorized or permitted by law, subject to certain limited exceptions.

Section 102(b)(7) of the Delaware General Corporation Law permits a corporation to provide in its certificate of incorporation that a director of the corporation shall not be personally liable to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, except for liability (i) for any breach of the director's duty of loyalty to the corporation or its stockholders, (ii) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, (iii) for unlawful payments of dividends or unlawful stock repurchases, redemptions or other distributions, or (iv) for any transaction from which the director derived an improper personal benefit.

Our restated certificate of incorporation provides that, to the fullest extent permitted by the Delaware General Corporation Law, a director shall not be liable to us or our stockholders for monetary damages for breach of fiduciary duty as a director.

II-1

Table of Contents

Item 16. Exhibits

Exhibit No.	Description
1.1*	Form of Underwriting Agreement with respect to Debt Securities
1.2*	Form of Underwriting Agreement with respect to Common Stock
1.3*	Form of Underwriting Agreement with respect to Preferred Stock
1.4*	Form of Underwriting Agreement with respect to Warrants
1.5*	Form of Underwriting Agreement with respect to Units
4.1	Form of Specimen Common Stock Certificate (incorporated by reference to Exhibit 4.1 to the Registrant's registration statement on Form S-1/A (No. 333-
	137124) filed on March 27, 2007).
4.2†	Form of Indenture (including Form of Debt Securities) with respect to Debt Securities
4.7*	Form of Specimen Preferred Stock Certificate
4.8*	Form of Certificate of Designation of Preferred Stock
4.9*	Form of Warrant Agreement (including Warrant Certificate) with respect to Warrants to purchase Debt Securities
4.10*	Form of Warrant Agreement (including Warrant Certificate) with respect to Warrants to purchase Common Stock
4.11*	Form of Warrant Agreement (including Warrant Certificate) with respect to Warrants to purchase Preferred Stock
4.12*	Form of Warrant Agreement (including Warrant Certificate) with respect to Warrants to purchase Units
1 12*	Form of Unit Agroamant (including Unit Cartificata)

4.13* Form of Unit Agreement (including Unit Certificate)

4.14*	Form of Rights Agreement (including Form of Rights Certificate)
4.15†	Form of Subscription Agreement
5.1	Opinion of Morrison & Foerster LLP
12.1	Statement regarding computation of ratio of earnings to fixed charges
23.1	Consent of Morrison & Foerster LLP (included in Exhibits 5.1)
23.2	Consent of Independent Public Accounting Firm KPMG LLP
24.1†	Powers of Attorney (included on signature page to this registration statement)
25.1**	Form T-1 Statement of Eligibility under Trust Indenture Act of 1939 of Debt Trustee (to be filed prior to any issuance)

Form T-1 Statement of Eligibility under Trust Indenture Act of 1939 of Debt Trustee (to be filed prior to any issuance of Debt Securities)

* To be filed as an amendment or as an exhibit to a document filed under the Exchange Act and incorporated by reference into this registration statement.

** To be filed in accordance with the requirements of Section 305(b)(2) of the Trust Indenture Act of 1939.

* Previously filed.

II-2

Table of Contents

Item 17. Undertakings

The undersigned Registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) to include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;

(ii) to reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement;

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

provided, however, that paragraphs (1)(i), (1)(ii) and (1)(iii) above do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission by the Registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

(2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the

offering.

(4) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:

(i) Each prospectus filed by the Registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and

(ii) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5) or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii) or (x) for the purpose of providing the information required by Section 10(a) of the Securities Act of 1933 shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which the prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date.

(5) That, for the purpose of determining liability of the Registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities, the undersigned Registrant undertakes that in a primary offering of securities of the undersigned Registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned Registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

Table of Contents

(i) Any preliminary prospectus or prospectus of the undersigned Registrant relating to the offering required to be filed pursuant to Rule 424;

(ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned Registrant or used or referred to by the undersigned

Registrant;

(iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned Registrant or its securities provided by or on behalf of the undersigned Registrant; and

(iv) Any other communication that is an offer in the offering made by the undersigned Registrant to the purchaser.

(6) That, for purposes of determining any liability under the Securities Act of 1933, each filing of the Registrant's annual report pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.

(7) To supplement the prospectus, after the expiration of the subscription period to set forth the results of the subscription offer, the transactions by the underwriters during the subscription period, the amount of unsubscribed securities to be purchased by the underwriters, and the terms of any subsequent reoffering thereof. If any public offering by the underwriters is to be made on terms differing from those set forth on the cover page of the prospectus, a post-effective amendment will be filed to set forth the terms of such offering.

(8) To use its best efforts to distribute prior to the opening of bids, to prospective bidders, underwriters, and dealers, a reasonable number of copies of a prospectus which at that time meets the requirements of Section 10(a) of the Act, and relating to the securities offered at competitive bidding, as contained in the registration statement, together with any supplements thereto, and (2) to file an amendment to the registration statement reflecting the results of bidding, the terms of the reoffering and related matters to the extent required by the applicable form, not later than the first use, authorized by the issuer after the opening of bids, of a prospectus relating to the securities offered at competitive bidding, unless no further public offering of such securities by the issuer and no reoffering of such securities by the purchasers is proposed to be made.

(9) To file an application for the purpose of determining the eligibility of the trustee to act under subsection (a) of Section 310 of the Trust Indenture Act in accordance with the rules and regulations prescribed by the Commission under Section 305(b)(2) of the Trust Indenture Act.

(10) That, insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act of 1933 and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act of 1933 and will be governed by the final adjudication of such issue.

II-4

Table of Contents

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Seal Beach, State of California, on the 31st day of August, 2012.

CLEAN ENERGY FUELS CORP. By: /s/ Richard R. Wheeler

By:	/s/ Richard R. Wheeler
Name:	Richard R. Wheeler
Title:	Chief Financial Officer

Pursuant to the requirements of the Securities Act of 1933, as amended, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

Signature	Title	Date
*	Director, Chief Executive Officer and	August 31, 2012
Andrew J. Littlefair	President (principal executive officer)	
/s/ Richard R. Wheeler	Chief Financial Officer (principal	August 31, 2012
Richard R. Wheeler	financial and accounting officer)	
*	Director and Chairman of the Board	August 31, 2012
Warren I. Mitchell		
*	Director	August 31, 2012
John S. Herrington		
*	Director	August 31, 2012
James C. Miller III		•
*	Director	August 31, 2012
Boone Pickens		
*	Director	August 31, 2012
Kenneth M. Socha		
*	Director	August 31, 2012
Vincent C. Taormina		
	Director	August 31, 2012
James E. O'Connor		
* By: /s/ Richard R. Wheeler		
Richard R. Wheeler		
(Attorney-in-fact)		
	II <i>6</i>	
	II-5	

EXHIBIT INDEX

Exhibit No.	Description
1.1*	Form of Underwriting Agreement with respect to Debt Securities
1.2*	Form of Underwriting Agreement with respect to Common Stock
1.3*	Form of Underwriting Agreement with respect to Preferred Stock
1.4*	Form of Underwriting Agreement with respect to Warrants
1.5*	Form of Underwriting Agreement with respect to Units
4.1	Form of Specimen Common Stock Certificate (incorporated by reference to Exhibit 4.1 to the Registrant's registration statement on Form S-1/A (No. 333-
	137124) filed on March 27, 2007).
4.2†	Form of Indenture (including Form of Debt Securities) with respect to Debt Securities
4.7*	Form of Specimen Preferred Stock Certificate
4.8*	Form of Certificate of Designation of Preferred Stock
4.9*	Form of Warrant Agreement (including Warrant Certificate) with respect to Warrants to purchase Debt Securities
4.10*	Form of Warrant Agreement (including Warrant Certificate) with respect to Warrants to purchase Common Stock
4.11*	Form of Warrant Agreement (including Warrant Certificate) with respect to Warrants to purchase Preferred Stock
4.12*	Form of Warrant Agreement (including Warrant Certificate) with respect to Warrants to purchase Units
4.13*	Form of Unit Agreement (including Unit Certificate)
4.14*	Form of Rights Agreement (including Form of Rights Certificate)
4.15†	Form of Subscription Agreement
5.1	Opinion of Morrison & Foerster LLP
12.1	Statement regarding computation of ratio of earnings to fixed charges
23.1	Consent of Morrison & Foerster LLP (included in Exhibits 5.1)
23.2	Consent of Independent Public Accounting Firm KPMG LLP
24.1†	Powers of Attorney (included on signature page to this registration statement)
25.1**	Form T-1 Statement of Eligibility under Trust Indenture Act of 1939 of Debt Trustee (to be filed prior to any issuance of Debt Securities)

* To be filed as an amendment or as an exhibit to a document filed under the Exchange Act and incorporated by reference into this registration statement.
** To be filed in accordance with the requirements of Section 305(b)(2) of the Trust Indenture Act of 1939.
† Previously filed.

II-6

Exhibit 5.1

MORRISON | FOERSTER

425 MARKET STREET SAN FRANCISCO CALIFORNIA 94105-2482

TELEPHONE: 415.268.7000 FACSIMILE: 415.268.7522

WWW.MOFO.COM

MORRISON & FOERSTER LLP

NEW YORK, SAN FRANCISCO, LOS ANGELES, PALO ALTO, SACRAMENTO, SAN DIEGO, DENVER, NORTHERN VIRGINIA, WASHINGTON, D.C.

TOKYO, LONDON, BRUSSELS, BEIJING, SHANGHAI, HONG KONG

August 31, 2012

Clean Energy Fuels Corp. 3020 Old Ranch Parkway, Suite 400 Seal Beach, California 90740

Re: Registration Statement on Form S-3 (Registration No. 333-168433)

Ladies and Gentlemen:

We have acted as counsel to Clean Energy Fuels Corp., a Delaware corporation (the "*Company*"), in connection with the Post-Effective Amendment No. 2 to the Registration Statement on Form S-3 (Registration No. 333-168433) (including the prospectus which is a part thereof, the "*Registration Statement*"), being filed by the Company with the Securities and Exchange Commission (the "*Commission*") on the date hereof, relating to, among other things, the registration under the Securities Act of 1933, as amended (the "*Act*"), of an indeterminate amount of the following securities of the Company, which may be offered and sold from time to time on a delayed or continuous basis pursuant to Rule 415 under the Act, up to an aggregate offering price of \$150,475,916: (i) shares of the Company's common stock, par value \$.0001 per share (the "*Common Stock*"); (ii) shares of the Company's preferred stock, par value \$.0001 per share (the "*Preferred Stock*"), to be issued in one or more series; (iii) debt securities, which may be issued in one or more series; (iii) debt securities of indenture filed as Exhibit 4.1 to the Registration Statement, as may be amended or supplemented from time to time (the "*Indenture*"); (iv) warrants to purchase the Common Stock, Preferred Stock and Debt Securities or any combination of these securities (the "*Warrants*"); (v) rights to purchase the Common Stock, Preferred Stock and Debt Securities or any combination of these securities, Warrants, Rights, and Units are referred to herein collectively as the "Securities." In addition, the Registration Statement covers the resale by B&M Miller Equity Holdings Inc. (the "*Selling Stockholder*") of 491,764 shares of the Commany's Common Stock (the "*Selling Stockholder Shares*").

In connection with this opinion, we have examined originals or copies, certified or otherwise identified to our satisfaction, of: (i) the Restated Certificate of Incorporation of the Company, as amended through the date hereof (the "*Certificate of Incorporation*"); (ii) the Amended and Restated Bylaws of the Company, as amended through the date hereof (the "*Bylaws*"); (iii) certain resolutions of the Board of Directors of the Company relating to the issuance, sale and registration of the Securities; (iv) the Registration Statement; and (v) the

Indenture. In addition, we have examined originals or copies, certified or otherwise identified to our satisfaction, of certain other corporate records, documents, instruments and certificates of public officials and of the Company, and we have made such inquiries of officers of the Company and public officials and considered such questions of law as we have deemed necessary for purposes of rendering the opinions set forth herein.

In connection with this opinion, we have assumed the genuineness of all signatures and the authenticity of all items submitted to us as originals and the conformity with originals of all items submitted to us as copies. In making our examination of documents executed by parties other than the Company, we have assumed that each other party has the power and authority to execute and deliver, and to perform and observe the provisions of, such documents and has duly authorized, executed and delivered such documents, and that such documents constitute the legal, valid and binding obligations of each such party. We also have assumed the integrity and completeness of the minute books of the Company presented to us for examination. With respect to certain factual matters we have relied upon certificates of officers of the Company.

We have assumed that the Indenture, any warrant agreement (each a "Warrant Agreement") relating to the Warrants, any rights agreement (each a "Rights Agreement") relating to the Rights, any unit agreement (each a "Unit Agreement") relating to the Units, and the issuance and sale of the Securities by the Company will not, in each case, violate or constitute a default or breach under (i) any agreement or instrument to which the Company or its properties is subject, (ii) any law, rule or regulation to which the Company is subject, (iii) any judicial or regulatory order or decree of any governmental authority, or (iv) any consent, approval, license, authorization or validation of, or filing, recording or registration with any governmental authority.

We have further assumed that (i) the Registration Statement and any amendments thereto will have become effective under the Act and comply with all applicable laws at the time the Securities are offered or issued as contemplated by the Registration Statement; (ii) an appropriate prospectus supplement, free writing prospectus or term sheet relating to the Securities offered thereby will be prepared and filed with the Commission in compliance with the Act and will comply with all applicable laws at the time the Securities are offered or issued as contemplated by the Registration Statement; (iii) all Securities will be issued and sold in compliance with the applicable provisions of the Act, the Trust Indenture Act of 1939, as applicable, and the securities or blue sky laws of various states and in the manner stated in the Registration Statement and the applicable prospectus supplement; (iv) the Indenture, any Warrant Agreement, Rights Agreement, Unit Agreement, purchase, underwriting or similar agreement (collectively, the *"Securities Agreements"*) relating to Securities being offered will be duly authorized, executed and delivered by the Company and the other parties thereto; (v) that the truste under the Indenture shall have been qualified pursuant to the Trust Indenture Act of 1939 at the time the Securities are offered or issued (or such later time as may be permitted pursuant to the rules, regulations, interpretations or positions of the Commission) as contemplated by the Registration Statement; and (vi) the number of shares of Common Stock or Preferred Stock, as the case may be, offered pursuant to the Registration Statement does not exceed, at the time of issuance, the authorized but unissued shares of Common Stock or Preferred Stock, as the case may be.

Our opinions are subject to the following qualifications and exceptions:

(i) The effect of bankruptcy, insolvency, reorganization, arrangement, moratorium or other similar laws relating to or affecting the rights of creditors generally, including, without limitation, laws relating to fraudulent transfers or conveyances, preferences and equitable subordination.

(ii) Limitations imposed by general principles of equity upon the availability of equitable remedies or the enforcement of provisions of the Securities Agreements and the effect of judicial decisions which have held that certain provisions are unenforceable where their enforcement would violate the implied covenant of good faith and fair dealing, or would be commercially unreasonable, or where a default under the Securities Agreements is not material.

(iii) We express no opinion as to the enforceability of any provision of the Securities Agreements which purports to transfer rights under a contract the transfer of which is prohibited or restricted (by a requirement of consent or otherwise) by the contract or by law.

(iv) We express no opinion as to the enforceability of any provision of the Securities Agreements which purports to prohibit or restrict a transfer of rights under the Securities Agreements.

(v) We express no opinion as to the enforceability of any provision of the Securities Agreements imposing or which are construed as effectively imposing a penalty.

(vi) We express no opinion as to the enforceability of any provision of the Securities Agreements to the extent it permits any purchaser of a security to set off or apply any deposit, property or indebtedness with respect to any security.

(vii) We express no opinion as to the enforceability of any provision of the Securities Agreements which purports to establish evidentiary standards or to make determinations conclusive or powers absolute.

(viii) We express no opinion as to the effect of judicial decisions which may permit the introduction of extrinsic evidence to supplement the terms of the Securities Agreements or to aid in the interpretation of the Securities Agreements.

(ix) We express no opinion as to the enforceability of any provision of the Securities Agreements providing for arbitration of disputes to the extent that arbitration of a particular dispute would be against public policy.

Based upon, subject to and limited by the foregoing, we are of the opinion that:

1. With respect to shares of the Common Stock, when (A) the Board of Directors of the Company or a duly constituted and acting committee thereof (such Board of Directors or committee thereof being hereinafter collectively referred to as the "*Board*") has taken all necessary corporate action in conformity with the Certificate of Incorporation and Bylaws to approve the issuance of the Common Stock, the terms of the offering thereof and related matters, and (B) if certificated, certificates representing shares of the Common Stock have been duly executed, registered and delivered either (i) in accordance with the applicable definitive purchase, underwriting or similar agreement approved by the Board against payment of the

consideration therefor (not less than the par value of the Common Stock) as provided therein; or (ii) upon conversion, exchange or exercise of any other Security in accordance with the terms of the Security or the instrument governing the Security providing for the conversion, exchange or exercise as approved by the Board, for the consideration approved by the Board (not less than the par value of the Common Stock), such shares of Common Stock will be validly issued, fully paid and nonassessable.

2. With respect to shares of the Preferred Stock, when (A) the Board has taken all necessary corporate action in conformity with the Certificate of Incorporation and Bylaws to approve the issuance and terms of a particular series of shares of Preferred Stock, the terms of the offering thereof and related matters, including the adoption of a Certificate of Designation for such Preferred Stock in accordance with applicable law relating to such shares of Preferred Stock and the filing of such Certificate of Designation with the Secretary of State of the State of Delaware, and (B) if certificated, certificates representing shares of the Preferred Stock have been duly executed, registered and delivered either (i) in accordance with the applicable definitive purchase, underwriting or similar agreement approved by the Board against payment of the consideration therefor (not less than the par value of the Preferred Stock) as provided therein; or (ii) upon conversion, exchange or exercise of any other Security in accordance with the terms of the Security or the instrument governing the Security providing for the conversion, exchange or exercise as approved by the Board, for the consideration approved by the Board (not less than the par value of the Preferred Stock), such shares of Preferred Stock will be validly issued, fully paid and nonassessable.

3. With respect to the Debt Securities, when (A) the Indenture relating to the Debt Securities has been duly authorized, executed and delivered by the Company, (B) the Board has taken all necessary corporate action in conformity with the Certificate of Incorporation and Bylaws to approve the issuance and terms of a particular series of such Debt Securities, the terms of the offering thereof and related matters, and (C) such Debt Securities have been duly executed, authenticated, issued and delivered either (i) in accordance with the Indenture, applicable definitive purchase, underwriting or similar agreement approved by the Board against payment of the consideration therefor as provided therein; or (ii) upon conversion, exchange or exercise of any other Security in accordance with the terms of the Securities will constitute binding obligations of the Company.

4. With respect to the Warrants, when (A) the Board has taken all necessary corporate action in conformity with the Certificate of Incorporation and Bylaws to approve the form, terms, execution and delivery of a Warrant Agreement (including a form of certificate evidencing the Warrants), the issuance of the Warrants, the terms of the offering thereof and related matters, and (B) the certificates evidencing the Warrants with such terms are duly executed, attested, issued and delivered by duly authorized officers of the Company in accordance with the provisions of the applicable Warrant Agreement and the applicable definitive purchase, underwriting or similar agreement approved by the Board against payment of the consideration therefor as provided therein, such Warrants will be binding obligations of the Company.

5. With respect to the Rights, when (A) the Board has taken all necessary corporate action in conformity with the Certificate of Incorporation and Bylaws to approve the form, terms, execution and delivery of a Rights Agreement (including a form of certificate evidencing the Rights), the issuance of the Rights, the terms of the offering thereof and related matters, and (B) the certificates evidencing the Rights with such terms are duly executed, attested, issued and delivered by duly authorized officers of the Company in accordance with the provisions of the applicable Rights Agreement and the applicable definitive purchase, underwriting or similar agreement approved by the Board against payment of the consideration therefor as provided therein, such Rights will be binding obligations of the Company.

6. With respect to the Units, when (A) the Board has taken all necessary corporate action in conformity with the Certificate of Incorporation and Bylaws to approve the form, terms, execution and delivery of a Unit Agreement (including a form of certificate evidencing the Units), the issuance of the Units, the terms of the offering thereof and related matters, and (B) the certificates evidencing Units with such terms are duly executed, attested, issued and delivered by duly authorized officers of the

Company in accordance with the provisions of the applicable Unit Agreement and the applicable definitive purchase, underwriting or similar agreement approved by the Board against payment of the consideration therefor as provided therein, such Units will constitute binding obligations of the Company.

7. The Selling Stockholder Shares have been duly authorized, validly issued, and are fully paid and nonassessable.

We express no opinion as to matters governed by any laws other than the laws of the State of California and the General Corporation Law of the State of Delaware, and, with respect to the Securities Agreements, the substantive laws of the State of New York and the State of California (without reference to choice-of-law rules), as in effect on the date hereof. We express no opinion as to enforceability of the New York choice-of-law provision contained in the Indenture.

We hereby consent to the filing of this opinion letter as Exhibit 5.1 to the Registration Statement and to reference to us under the caption "Legal Matters." In giving such consent, we do not hereby admit that we are acting within the category of persons whose consent is required under Section 7 of the Act or the rules or regulations of the Commission thereunder.

Very truly yours,

/s/ Morrison & Foerster LLP

CLEAN ENERGY FUELS CORP. STATEMENT OF COMPUTATION OF DEFICIENCY OF EARNINGS TO FIXED CHARGES (In thousands)

		Year Ended December 31,										Six Months Ended		
		2007			2008		2009		2010		2011		June 30, 2012	
Earnings														
Pretax Income (loss)		\$	(7,672)	\$	(44,278)	\$	(33,384)	\$	(4,209)	\$	(48,158)	\$	(42,560)	
Plus:	Equity (earnings) losses from equity investees		—		188		(244)		(427)		(637)		(163)	
Plus:	Fixed charges		786		1,452		3,354		4,374		15,560		15,248	
Plus:	Amortization of capitalized interest				25		76		76		111		147	
Less:	Interest capitalized				(493)		(539)		(434)		(1,352)		(3,184)	
Total Earnings		\$	(6,886)	\$	(43,106)	\$	(30,737)	\$	(620)	\$	(34,476)	\$	(30,512)	
Fixed Char	068													
Interest expensed and capitalized		\$	73	\$	523	\$	1.567	\$	2.251	\$	13.049	\$	13,693	
Amortization of debt issuance costs			_		23		60		60		339		230	
Interest within rental expense			713		906		1,727		2,063		2,172		1,325	
Total Fixed Charges		\$	786	\$	1,452	\$	3,354	\$	4,374	\$	15,560	\$	15,248	
Deficiency of earnings to fixed charges		\$	(7,672)	\$	(44,558)	\$	(34,091)	\$	(4,994)	\$	(50,036)	\$	(45,760)	
Plus: Plus: Less: Total Earnin Fixed Char Interest es Amortizat Interest w Total Fixed o	Fixed charges Amortization of capitalized interest Interest capitalized gs ges xpensed and capitalized tion of debt issuance costs ithin rental expense Charges	\$ \$ \$ \$	786 	\$ \$ \$ \$	1,452 25 (493) (43,106) 523 23 906 1,452	\$ \$ \$ \$	3,354 76 (539) (30,737) 1,567 60 1,727 3,354	\$	4,374 76 (434) (620) 2,251 60 2,063 4,374	\$ \$ \$	15,560 111 (1,352) (34,476) 13,049 339 2,172 15,560	\$ \$ \$ \$	(30 (30 11	

Consent of Independent Registered Public Accounting Firm

The Board of Directors Clean Energy Fuels Corp.:

We consent to the use of our report dated March 12, 2012, with respect to the consolidated balance sheets of Clean Energy Fuels Corp. and subsidiaries as of December 31, 2010 and 2011, and the related consolidated statements of operations, stockholders' equity and comprehensive income (loss), and cash flows for each of the years in the threeyear period ended December 31, 2011, and the related financial statement schedule, and the effectiveness of internal control over financial reporting as of December 31, 2011, incorporated herein by reference and to the reference to our firm under the heading "Experts" in the prospectus.

Our report dated March 12, 2012 refers to a change in the method of accounting for revenue recognition on transactions with multiple deliverables.

/s/ KPMG LLP

Los Angeles, California August 31, 2012