

PLUG POWER INC  
Form 10-Q  
August 11, 2011

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**UNITED STATES**

**SECURITIES AND EXCHANGE COMMISSION**

**Washington, D.C. 20549**

**FORM 10-Q**

(Mark One)

**QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES  
EXCHANGE ACT OF 1934**  
FOR THE QUARTERLY PERIOD ENDED JUNE 30, 2011

OR

**TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES  
EXCHANGE ACT OF 1934**  
FOR THE TRANSITION PERIOD FROM \_\_\_\_\_ TO \_\_\_\_\_

Commission File Number: 1-34392

**PLUG POWER INC.**

(Exact name of registrant as specified in its charter)

**Delaware**

(State or Other Jurisdiction of  
Incorporation or Organization)

**968 ALBANY SHAKER ROAD, LATHAM, NEW YORK 12110**

**22-3672377**

(I.R.S. Employer  
Identification Number)

(Address of Principal Executive Offices, including Zip Code)

**(518) 782-7700**

(Registrant's telephone number, including area code)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes  No

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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. (Check one):

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

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b 2 of the Exchange Act). Yes  No

The number of shares of common stock, par value of \$.01 per share, outstanding as of August 5, 2011 was 22,665,240.



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**PLUG POWER INC.**

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Table of Contents**PART 1. FINANCIAL INFORMATION****Item 1 – Interim Financial Statements (Unaudited)****Plug Power Inc. and Subsidiaries  
Condensed Consolidated Balance Sheets  
(Unaudited)**

|  | June 30,<br>2011     | December 31,<br>2010 |
|--|----------------------|----------------------|
| <b>Assets</b>  |                      |                      |
| Current assets:  |                      |                      |
| Cash and cash equivalents  | \$ 27,151,258        | \$ 10,955,403        |
| Available-for-sale securities  | -                    | 10,403,315           |
| Accounts receivable, less allowance of \$10,160 in 2011 and \$10,160 in 2010 | 4,230,940            | 4,196,361            |
| Inventory  | 7,628,018            | 10,539,116           |
| Assets held for sale   | -                    | 1,000,000            |
| Prepaid expenses and other current assets                                    | 1,357,134            | 1,584,466            |
| <b>Total current assets</b>  | <b>40,267,350</b>    | <b>38,678,661</b>    |
| Restricted cash  | 525,000              | 525,000              |
| Property, plant and equipment, net   | 9,506,063            | 9,838,631            |
| Investment in leased property, net   | -                    | 263,239              |
| Intangible assets, net   | 8,848,390            | 9,871,394            |
| <b>Total assets</b>  | <b>\$ 59,146,803</b> | <b>\$ 59,176,925</b> |
| <b>Liabilities and Stockholders' Equity</b>                                  |                      |                      |
| Current liabilities:   |                      |                      |
| Accounts payable   | \$ 1,208,218         | \$ 3,560,048         |
| Accrued expenses   | 3,644,267            | 4,336,229            |

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|  |               |               |
|--|---------------|---------------|
| Product warranty reserve   | 971,100       | 862,480       |
| Current portion long term debt   | -             | 9,956         |
| Deferred revenue   | 3,748,253     | 4,349,749     |
| Other current liabilities  | 70,698        | 1,901,372     |
| Total current liabilities  | 9,642,536     | 15,019,834    |
| Warrant liability  | 6,977,623     | -             |
| Other liabilities  | 1,273,575     | 1,243,728     |
| Total liabilities  | 17,893,734    | 16,263,562    |
| Stockholders' equity:  |               |               |
| Common stock, \$0.01 par value per share; 245,000,000 shares authorized; |               |               |
| Issued (including shares in treasury):                                   |               |               |
| 22,574,555 at June 30, 2011 and 13,369,924 at December 31, 2010          | 22,574,555    | 1,336,992     |
| Additional paid-in capital   | 782,834,787   | 769,659,871   |
| Accumulated other comprehensive income                                   | 1,070,402     | 965,868       |
| Accumulated deficit  | (741,325,726) | (727,329,858) |
| Less common stock in treasury:   |               |               |
| 165,741 shares at June 30, 2011 and 180,449 shares at December 31, 2010  | (1,361,139)   | (1,719,510)   |
| Total stockholders' equity   | 41,253,069    | 42,913,363    |
| Total liabilities and stockholders' equity                               | \$ 59,146,803 | \$ 59,176,925 |

Note - Share and per share information for the prior periods has been retroactively adjusted to reflect the May 19, 2011 one-for-ten reverse stock split of the Company's common stock.

**The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.**





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**Condensed Consolidated Statements of Operations**  
**(Unaudited)**

|  | Three months ended    |                        | Six months ended       |                        |
|--|-----------------------|------------------------|------------------------|------------------------|
|  | June 30,              |                        | June 30,               |                        |
|  | 2011                  | 2010                   | 2011                   | 2010                   |
| Product and service revenue  | \$ 2,620,845          | \$ 2,325,769           | \$ 7,614,250           | \$ 5,488,946           |
| Research and development contract revenue                            | 1,562,719             | 778,017                | 2,347,943              | 1,985,991              |
| Licensed technology revenue  | 163,125               | -                      | 326,250                | -                      |
| <b>Total revenue</b>   | <b>4,346,689</b>      | <b>3,103,786</b>       | <b>10,288,443</b>      | <b>7,474,937</b>       |
| Cost of product and service revenue                                  | 4,931,170             | 4,542,373              | 11,621,623             | 7,830,226              |
| Cost of research and development contract revenue                    | 2,473,516             | 1,679,372              | 3,810,596              | 3,560,886              |
| Research and development expense                                     | 1,106,248             | 4,381,814              | 2,168,974              | 9,868,531              |
| Selling, general and administrative expenses                         | 3,882,917             | 10,540,814             | 7,444,515              | 14,398,531             |
| Amortization of intangible assets                                    | 588,473               | 566,880                | 1,169,962              | 1,129,055              |
| <b>Operating loss</b>  | <b>(8,635,635)</b>    | <b>(18,607,467)</b>    | <b>(15,927,227)</b>    | <b>(29,312,292)</b>    |
| Interest and other income and net realized losses                    |                       |                        |                        |                        |
| from available-for-sale securities                                   | 87,224                | 268,622                | 121,122                | 610,661                |
| Change in fair value of warrant liability                            | 1,790,520             | -                      | 1,790,520              | -                      |
| Change in fair value of auction rate securities repurchase agreement | -                     | (2,469,113)            | -                      | (3,135,032)            |
| Net trading gain   | -                     | 2,469,113              | -                      | 3,135,032              |
| Interest and other expense and foreign currency gain (loss)          | 5,223                 | (177,110)              | 19,717                 | (373,074)              |
| <b>Net loss</b>  | <b>\$ (6,752,668)</b> | <b>\$ (18,515,955)</b> | <b>\$ (13,995,868)</b> | <b>\$ (29,074,705)</b> |
| Loss per share:  |                       |                        |                        |                        |
| Basic and diluted  | \$ (0.41)             | \$ (1.41)              | \$ (0.95)              | \$ (2.22)              |
| <b>Weighted average number of common shares</b>                      |                       |                        |                        |                        |
| outstanding  | 16,320,235            | 13,116,175             | 14,781,215             | 13,080,315             |

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Note - Share and per share information for the prior periods has been retroactively adjusted to reflect the May 19, 2011 one-for-ten reverse stock split of the Company's common stock.

**The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.**

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**Plug Power Inc. and Subsidiaries**  
**Condensed Consolidated Statements of Cash Flows**  
**(Unaudited)**

|  | <b>Six months ended</b> |                 |
|--|-------------------------|-----------------|
|  | <b>June 30,</b>         |                 |
|  | <b>2011</b>             | <b>2010</b>     |
| <b>Cash Flows From Operating Activities:</b>                                     |                         |                 |
| Net loss   | \$ (13,995,868)         | \$ (29,074,705) |
| Adjustments to reconcile net loss to net cash used in operating activities:      |                         |                 |
| Depreciation of property, plant and equipment, and investment in leased property | 1,053,465               | 1,612,944       |
| Amortization of intangible assets  | 1,169,962               | 1,129,055       |
| Stock-based compensation   | 1,002,824               | 892,410         |
| Loss on disposal of property, plant and equipment                                | 308,891                 | 42,340          |
| Provision for bad debts  | -                       | 10,160          |
| Realized loss on available for sale securities                                   | 22,421                  | -               |
| Net unrealized gains on trading securities                                       | -                       | (3,135,032)     |
| Change in fair value of auction rate debt securities repurchase agreement        | -                       | 3,135,032       |
| Change in fair value of warrant liability  | (1,790,520)             | -               |
| Changes in assets and liabilities:   |                         |                 |
| Accounts receivable  | 66,054                  | (1,075,248)     |
| Inventory  | 4,164,884               | (3,751,612)     |
| Prepaid expenses and other current assets  | 227,216                 | 1,822,181       |
| Accounts payable and accrued expenses  | (4,799,707)             | 4,051,074       |
| Deferred revenue   | (601,496)               | (162,346)       |
| Net cash used in operating activities  | (13,171,874)            | (24,503,747)    |
| <b>Cash Flows From Investing Activities:</b>                                     |                         |                 |
| Purchase of property, plant and equipment  | (1,065,335)             | (1,214,992)     |
| Investment in leased property, net   | -                       | (283,561)       |
| Restricted cash  | -                       | (72)            |
| Proceeds from disposal of property, plant and equipment                          | 45,000                  | 35,000          |
| Proceeds from trading securities   | -                       | 33,925,001      |
| Proceeds from maturities and sales of available-for-sale securities              | 10,399,396              | 45,904,306      |
| Purchases of available-for-sale securities                                       | -                       | (30,011,638)    |
| Net cash provided by investing activities  | 9,379,061               | 48,354,044      |

**Cash Flows From Financing Activities:**

|   |                      |                     |
|---|----------------------|---------------------|
| Purchase of treasury stock                            | (158,492)            | (441,506)           |
| Proceeds from issuance of common stock and warrants   | 22,027,166           | -                   |
| Stock issuance costs                                  | (1,862,293)          | -                   |
| Repayment of borrowings under line of credit          | -                    | (33,925,000)        |
| Principal payments on long-term debt                  | (9,956)              | (207,751)           |
| Net cash provided by (used in) financing activities   | 19,996,425           | (34,574,257)        |
| Effect of exchange rate changes on cash               | (7,757)              | (67,709)            |
| Increase (decrease) in cash and cash equivalents      | 16,195,855           | (10,791,669)        |
| <b>Cash and cash equivalents, beginning of period</b> | 10,955,403           | 14,580,983          |
| <b>Cash and cash equivalents, end of period</b>       | <b>\$ 27,151,258</b> | <b>\$ 3,789,314</b> |

The accompanying notes are an integral part of these unaudited condensed consolidated financial statements.

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**Plug Power Inc.**

**Notes to Condensed Consolidated Financial Statements**

**(Unaudited)**

**1. Nature of Operations**

*Description of Business*

Plug Power Inc., or the Company, is a leading provider of alternative energy technology and is involved in the design, development, commercialization and manufacture of fuel cell systems for the industrial off-road (forklift or material handling) market. Plug Power has also provided product development for the back-up and stationary power markets worldwide. Effective April 1, 2010, the Company was no longer considered a development stage enterprise since its principal operations began to provide more than insignificant revenues as the Company received orders from repeat customers, increased its customer base and had a significant backlog. Prior to April 1, 2010, the Company was considered a development stage enterprise because substantially all of our resources and efforts were aimed at the discovery of new knowledge that could lead to significant improvement in fuel cell reliability and durability, and the establishment, expansion and stability of markets for our products.

The Company is focused on proton exchange membrane, or PEM, fuel cell and fuel processing technologies and fuel cell/battery hybrid technologies, from which multiple products are available. A fuel cell is an electrochemical device that combines hydrogen and oxygen to produce electricity and heat without combustion. Hydrogen is derived from hydrocarbon fuels such as liquid petroleum gas (LPG), natural gas, propane, methanol, ethanol, gasoline or biofuels. Hydrogen can also be obtained from the electrolysis of water. Hydrogen can be purchased directly from industrial gas providers or can be produced on-site at consumer locations.

The Company concentrates its efforts on developing, manufacturing and selling our hydrogen-fueled PEM GenDrive<sup>®</sup> products on commercial terms for industrial off-road (forklift or material handling) applications, with a focus on multi-shift high volume manufacturing and high throughput distribution sites.

We have previously invested in development and sales activities for low-temperature remote-prime power GenSys<sup>®</sup> products and our GenCore<sup>®</sup> product, which is a hydrogen fueled PEM fuel cell system to provide back-up power for critical infrastructure. While Plug Power will continue to service and support GenSys and/or GenCore products on a limited basis, our main focus is our GenDrive product line.

The Company sells its products worldwide, with a primary focus on North America, through our direct product sales force, original equipment manufacturers (OEMs) and their dealer networks. We sell to business, industrial and government customers.



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The Company was incorporated in the State of Delaware on August 13, 1999 and prior to that time operated as a joint venture between Edison Development Corporation and Mechanical Technology Incorporated. The Company's common stock became listed on The NASDAQ Stock Market on October 29, 1999. In 2007, we merged with and acquired all the assets, liabilities and equity of Cellex Power Products, Inc. (Cellex) and General Hydrogen Corporation (General Hydrogen). Through these acquisitions, and our continued GenDrive product development efforts, Plug Power became the first fuel cell company to offer a complete suite of products: Class 1 - sit-down counterbalance trucks, Class 2 – stand-up reach trucks and Class 3 – rider pallet trucks. The launch of our Class 2 product occurred in January of 2010.

Unless the context indicates otherwise, the terms “Company,” “Plug Power,” “we,” “our” or “us” as used herein refers to Plug Power Inc. and its subsidiaries.

Although the Company had a significant amount of available-for-sale securities, as described further below, as of December 31, 2010, neither the Company nor any of its subsidiaries was an “investment company” pursuant to the Investment Company Act of 1940, as amended.

### *Liquidity*

We have experienced recurring operating losses and we anticipate incurring substantial additional losses. Including the receipt of \$20.2 million in net proceeds from the capital raise completed in the quarter ended June 30, 2011, we had approximately \$27.2 million of cash and cash equivalents at June 30, 2011 to fund our future operations. Additionally, subsequent to June 30, 2011, we entered into a revolving credit facility arrangement with Silicon Valley Bank (SVB) providing availability to an additional \$7 million to support working capital needs (See Note 18, Subsequent Events, of the condensed consolidated financial statements of this Form 10-Q for further disclosure on the credit facility with SVB). We believe that our current cash, cash equivalents and cash generated from future sales, in conjunction with the availability of the credit facility, will provide sufficient liquidity to fund operations through the end of 2012. This projection is based on our current expectations regarding product sales, cost structure, cash burn rate and operating assumptions (including those specified in the May 2010 restructuring plan). In the event that our operating expenses are higher than anticipated or the gross margins and shipments of our GenDrive products do not increase as we expect, we may be required to implement contingency plans within our control to conserve and/or enhance our liquidity to meet operating needs. Such plans include: our ability to further reduce discretionary expenses, monetize our real estate assets through a sale-leaseback arrangement and obtain additional funding from licensing the use of our technologies. Our cash requirements relate primarily to working capital needed to operate and grow our business, including funding operating expenses, growth in inventory to support both shipments of new units and servicing the installed base, and continued development and expansion of our products. Our ability to achieve profitability, future liquidity needs and capital requirements will depend upon numerous factors, including the timing and quantity of product orders and shipments, the timing and amount of our operating expenses; the timing and costs of working capital needs; the timing and costs of building a sales base; the timing and costs of developing marketing and distribution channels; the timing and costs of product service requirements; the timing and costs of hiring and



training product staff; the extent to which our products gain market acceptance; the timing and costs of product development and introductions; the extent of our ongoing and any new research and development programs; and changes in our strategy or our planned activities. As a result, we can provide no assurance that we will be able to fund our operations beyond 2012 without additional external financing. If additional funding is required beyond 2012, alternatives the Company would consider include equity or debt financings, strategic alliances or joint ventures. Under such conditions, if we are unable to obtain additional capital prior to the end of 2012, we may not be able to sustain our future operations into 2013 and may be required to delay, reduce and/or cease our operations and/or seek bankruptcy protection. We cannot assure you that any necessary additional financing will be available on terms favorable to us, or at all. Given the difficult current economic environment, we believe that it could be difficult to raise additional funds and there can be no assurance as to the availability of additional financing or the terms upon which additional financing may be available. Additionally, even if we raise sufficient capital through equity or debt financing, strategic alliances or otherwise, there can be no assurances that the revenue or capital infusion will be sufficient to enable us to develop our business to a level where it will be profitable or generate positive cash flow. If we raise additional funds through the issuance of equity or convertible debt securities, the percentage ownership of our stockholders could be significantly diluted, and these newly issued securities may have rights, preferences or privileges senior to those of existing stockholders. If we incur additional debt, a substantial portion of our operating cash flow may be dedicated to the payment of principal and interest on such indebtedness, thus limiting funds available for our business activities. The terms of any debt securities issued could also impose significant restrictions on our operations. Broad market and industry factors may seriously harm the market price of our common stock, regardless of our operating performance, and may adversely impact our ability to raise additional funds. If we raise additional funds through collaborations and/or licensing arrangements, we might be required to relinquish significant rights to our technologies, or grant licenses on terms that are not favorable to us.

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As of June 30, 2011, we had cash and cash equivalents of \$27.2 million and working capital of \$30.6 million.

**2. Basis of Presentation**

***Principles of Consolidation:*** The accompanying unaudited condensed interim consolidated financial statements include the financial statements of the Company and its wholly-owned subsidiaries. All significant intercompany balances and transactions have been eliminated in consolidation. It is the Company's policy to reclassify prior period consolidated financial statements to conform to current period presentation.

***Interim Financial Statements:*** The accompanying unaudited condensed interim consolidated financial statements have been prepared pursuant to the rules and regulations of the Securities and Exchange Commission (SEC). In the opinion of management, all adjustments, which consist solely of normal recurring adjustments, necessary to present fairly, in accordance with U.S. generally accepted accounting principles (GAAP), the financial position, results of operations and cash flows for all periods presented, have been made. The results of operations for the interim periods presented are not necessarily indicative of the results that may be expected for the full year.

Certain information and footnote disclosures normally included in annual consolidated financial statements prepared in accordance with U.S. generally accepted accounting principles have been condensed or omitted. These unaudited condensed consolidated financial statements should be read in conjunction with the Company's audited consolidated financial statements and notes thereto included in the Company's Annual Report on Form 10-K filed for the fiscal year ended December 31, 2010.

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The information presented in the accompanying condensed consolidated balance sheet as of December 31, 2010 has been derived from the Company's December 31, 2010 audited consolidated financial statements. All other information has been derived from the Company's unaudited condensed consolidated financial statements as of June 30, 2011 and for the three and six months ending June 30, 2011 and 2010.

**Use of Estimates:** The unaudited condensed interim consolidated financial statements have been prepared in conformity with GAAP, which require management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

**Stock Split:** The financial statements for all prior periods have been retroactively adjusted to reflect the May 19, 2011 one-for-ten reverse stock split of the Company's common stock. See Note 6, Stockholders' Equity, of the condensed consolidated financial statements for more detail.

### **Significant Accounting Policies:**

#### **Warrant accounting**

We account for common stock warrants in accordance with applicable accounting guidance provided in ASC 815, Derivatives and Hedging - Contracts in Entity's Own Equity, as either derivative liabilities or as equity instruments depending on the specific terms of the warrant agreement. In compliance with applicable securities law, registered common stock warrants that require the issuance of registered shares upon exercise and do not sufficiently preclude an implied right to cash settlement are accounted for as derivative liabilities. We classify these derivative warrant liabilities on the condensed consolidated balance sheets as a long term liability, which is revalued at each balance sheet date subsequent to the initial issuance. We use the Black-Scholes pricing model to value the derivative warrant liability. The Black-Scholes pricing model, which is based, in part, upon unobservable inputs for which there is little or no market data, requires the Company to develop its own assumptions. The Company used the following assumptions for its common stock warrants. The risk-free interest rate for May 31, 2011 (issuance date) and June 30, 2011 were .75% and .56%, respectively. The volatility of the market price of the Company's common stock for May 31, 2011 (issuance date) and June 30, 2011 were 94.4% and 87.6%, respectively. The expected average term of the warrant used for both periods was 2.5 years. There was no expected dividend yield for the warrants granted. As a result, if factors change and different assumptions are used, the warrant liability and the change in estimated fair value could be materially different. Changes in the fair value of the warrants are reflected in the condensed consolidated statement of operations as change in fair value of warrant liability.

### **Recent Accounting Pronouncements:**

In May 2011, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) No. 2011-04, Fair Value Measurement (Topic 820), which provides common fair value measurement and disclosure requirements in accordance with GAAP and International Financial Reporting Standards (IFRS). The amendments explain how to measure fair value and will improve the comparability of fair value measurement presented and disclosed in financial statements prepared in accordance with GAAP and IFRS. This authoritative guidance is to be

applied prospectively and is effective during interim and annual periods beginning after December 15, 2011. The Company is currently evaluating the impact, if any, of this new accounting update and plans to adopt this new standard on January 1, 2012 and does not believe adoption of this new standard will have a material effect on its consolidated financial position, consolidated results of operations, and liquidity.

In June 2011, the FASB issued ASU No. 2011-05, Comprehensive Income (Topic 220), requiring entities to present net income and other comprehensive income in either a single continuous statement or in two separate, but consecutive, statements of net income and other comprehensive income. Reclassification adjustments between net income and other comprehensive income must be shown on the face of the statement(s), with no resulting change in net earnings. This authoritative guidance eliminates the option to present the components of other comprehensive income as part of the statement of changes in stockholder's equity. This authoritative guidance is to be applied retrospectively and is effective for fiscal years, and interim periods within those years, beginning after December 15, 2011. The Company is currently evaluating the impact, if any, of this new accounting update and plans to adopt this new standard on January 1, 2012 and does not believe adoption of this new standard will have a material effect on its consolidated financial position, consolidated results of operations, and liquidity.

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**3. Fair Value Measurements**

The Company complies with the provisions of FASB ASC No. 820, Fair Value Measurements and Disclosures (ASC 820), in measuring fair value and in disclosing fair value measurements. ASC 820 defines fair value, establishes a framework for measuring fair value and expands disclosures about fair value measurements required under other accounting pronouncements. FASB ASC No. 820-10-35, Fair Value Measurements and Disclosures- Subsequent Measurement (ASC 820-10-35), clarifies that fair value is an exit price, representing the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. ASC 820-10-35-3 also requires that a fair value measurement reflect the assumptions market participants would use in pricing an asset or liability based on the best information available. Assumptions include the risks inherent in a particular valuation technique (such as a pricing model) and/or the risks inherent in the inputs to the model.

ASC 820-10-35 discusses valuation techniques, such as the market approach (comparable market prices), the income approach (present value of future income or cash flow), and the cost approach (cost to replace the service capacity of an asset or replacement cost). The statement utilizes a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value into three broad levels. The following is a brief description of those three levels:

**Level 1 Inputs** – Level 1 inputs are unadjusted quoted prices in active markets for assets or liabilities identical to those to be reported at fair value. An active market is a market in which transactions occur for the item to be fair valued with sufficient frequency and volume to provide pricing information on an ongoing basis.

**Level 2 Inputs** – Level 2 inputs are inputs other than quoted prices included within Level 1. Level 2 inputs are observable either directly or indirectly. These inputs include: (a) Quoted prices for similar assets or liabilities in active markets; (b) Quoted prices for identical or similar assets or liabilities in markets that are not active, such as when there are few transactions for the asset or liability, the prices are not current, price quotations vary substantially over time or in which little information is released publicly; (c) Inputs other than quoted prices that are observable for the asset or liability; and (d) Inputs that are derived principally from or corroborated by observable market data by correlation or other means.

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Level 3 Inputs – Level 3 inputs are unobservable inputs for an asset or liability. These inputs should be used to determine fair value only when observable inputs are not available. Unobservable inputs should be developed based on the best information available in the circumstances, which might include internally generated data and assumptions being used to price the asset or liability.

When determining the fair value measurements for assets or liabilities required or permitted to be recorded at and/or marked to fair value, the Company considers the principal or most advantageous market in which it would transact and considers assumptions that market participants would use when pricing the asset or liability. When possible, the Company looks to active and observable markets to price identical assets. When identical assets are not traded in active markets, the Company looks to market observable data for similar assets.

The following tables summarize the basis used to measure certain financial assets and liabilities at fair value on a recurring basis in the condensed consolidated balance sheets:

## Basis of Fair Value Measurements

| <b>Balance at June 30, 2011</b> | <b>Total</b> | <b>Quoted Prices<br/>in Active<br/>Markets for<br/>Identical Items<br/>(Level 1)</b> | <b>Significant Other<br/>Observable Inputs<br/>(Level 2)</b> | <b>Significant<br/>Unobservable<br/>Inputs<br/>(Level 3)</b> |
|---------------------------------|--------------|--|--|--|
| Warrant Liability               | \$6,977,623  | \$   | \$   | \$6,977,623  |

| <b>Balance at December 31, 2010</b>                         | <b>Total</b> | <b>Quoted Prices<br/>in Active<br/>Markets for<br/>Identical Items<br/>(Level 1)</b> | <b>Significant Other<br/>Observable Inputs<br/>(Level 2)</b> | <b>Significant<br/>Unobservable<br/>Inputs<br/>(Level 3)</b> |
|---|--------------|--|--|--|
| Available-for-sale securities –<br>U.S. treasury securities | \$10,403,315 | \$10,403,315   | \$—  | \$ —   |

The following tables show reconciliations of the beginning and ending balances for liabilities measured at fair value on a recurring basis using significant unobservable inputs (i.e. Level 3) for the six months ended June 30, 2011:

| <u>Warrant Liability</u>                         | <b>Fair Value<br/>Measurements Using<br/>Significant<br/>Unobservable Inputs</b> |
|--|--|
| Beginning of period                              | \$ -   |
| Issuance of common stock warrants                | 8,768,143  |
| Change in fair value of warrant liability        | (1,790,520)  |
| Fair value of warrant liability at June 30, 2011 | \$ 6,977,623   |

The following summarizes the valuation technique for assets and liabilities measured and recorded at fair value:

Available-for-sale securities: For our level 1 securities, which represent U.S. treasury securities, fair value is based on quoted market prices.

Warrant liability: For our level 3 securities, which represent common stock warrants, fair value is based on the Black-Scholes pricing model which is based, in part, upon unobservable inputs for which there is little or no market data, requiring the Company to develop its own assumptions.

Table of Contents**4. Earnings Per Share**

Basic earnings per common share are computed by dividing net loss available to common stockholders by the weighted average number of common shares outstanding during the reporting period, adjusted for unvested restricted stock. Diluted earnings per share reflects the potential dilution that could occur if securities or other contracts to issue common stock (such as convertible preferred stock, stock options, unvested restricted stock, and warrants) were exercised or converted into common stock or resulted in the issuance of common stock (net of any assumed repurchases) that then shared in the earnings of the Company, if any. This is computed by dividing net earnings by the combination of dilutive common share equivalents, which is comprised of shares issuable under outstanding warrants, the Company's share-based compensation plans, and the weighted average number of common shares outstanding during the reporting period. Since the Company is in a net loss position, all common stock equivalents would be considered to be anti-dilutive and are, therefore, not included in the determination of diluted earnings per share. Accordingly, basic and diluted loss per share are the same. The financial statements for all prior periods have been retroactively adjusted to reflect the May 19, 2011 one-for-ten reverse stock split of the Company's common stock.

The following table provides the components of the calculations of basic and diluted earnings per share:

|  | Three Months Ended |                  | Six Months Ended |                  |
|--|--------------------|------------------|------------------|------------------|
|  | June 30,<br>2011   | June 30,<br>2010 | June 30,<br>2011 | June 30,<br>2010 |
| <b>Numerator:</b>                        |                    |                  |                  |                  |
| Net loss                                 | \$ (6,752,668 )    | \$ (18,515,955 ) | \$ (13,995,868 ) | \$ (29,074,705 ) |
| <b>Denominator:</b>                      |                    |                  |                  |                  |
| Weighted average number of common shares | 16,320,235         | 13,116,175       | 14,781,215       | 13,080,315       |

The potential dilutive common shares are summarized as follows:

**At  
June 30,**



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|  | <b>2011</b> | <b>2010</b> |
|--|-------------|-------------|
| Stock options outstanding                  | 1,059,953   | 564,419     |
| Unvested restricted stock                  | 409,164     | 554,370     |
| Warrants <sup>(1)</sup>                    | 7,128,563   | 57,143      |
| Number of potential dilutive common shares | 8,597,680   | 1,175,932   |

- (1) On May 31, 2011, the Company granted 7,128,563 warrants as part of an underwritten public offering. On May 4, 2007, the Company granted 57,143 warrants (as adjusted for the reverse stock split) to the shareholders of General Hydrogen as part of the acquisition of that company. Those warrants expired on May 4, 2011.

Table of Contents**5. Intangible Assets**

The gross carrying amount and accumulated amortization of the Company's acquired identifiable intangible assets related to Plug Power Canada Inc. as of June 30, 2011 are as follows:

|                        | <b>Weighted<br/>Average<br/>Amortization<br/>Period</b> | <b>Gross</b>               |                                     | <b>Effect of<br/>Foreign<br/>Currency<br/>Translation</b> | <b>Total</b> |
|------------------------|---|----------------------------|-------------------------------------|---|--------------|
|                        |   | <b>Carrying<br/>Amount</b> | <b>Accumulated<br/>Amortization</b> |   |              |
| Acquired Technology    | 8 years   | \$ 15,900,000              | \$ (8,884,179)                      | \$ 1,353,369  | \$ 8,369,190 |
| Customer Relationships | 8 years   | 1,000,000                  | (520,800)                           | —   | 479,200      |
|                        |   | \$ 16,900,000              | \$ (9,404,979)                      | \$ 1,353,369  | \$ 8,448,390 |

**6. Stockholders' Equity**

On May 19, 2011, the Company implemented a one-for-ten reverse stock split of its common stock. As a result of the reverse stock split, each ten (10) outstanding shares of pre-split common stock were automatically combined into one (1) share of post-split common stock. Fractional shares received cash and proportional adjustments were made to the Company's outstanding stock options and other equity awards and to the Company's equity compensation plans to reflect the reverse stock split. The financial statements for all prior periods have been retroactively adjusted to reflect this stock split for both common stock issued and options outstanding.

On May 31, 2011, the Company completed an underwritten public offering of 8,265,000 shares of its common stock and warrants to purchase an aggregate of 7,128,563 shares of common stock (including warrants to purchase an aggregate of 929,813 shares of common stock purchased by the underwriter pursuant to the exercise of its over-allotment option). The shares and the warrants were sold together as a fixed combination, with each combination consisting of one share of common stock and 0.75 of a warrant to purchase one share of common stock, at a price to the public of \$2.42 per fixed combination. Net proceeds, after underwriting discounts and commissions and other fees and expenses payable by Plug Power, were \$18,289,883 (of this amount \$8,768,143 in fair value was recorded as warranty liability at issuance date). The warrants are exercisable upon issuance and will expire on May 31, 2016. The exercise price of the warrants is \$3.00 per share of common stock. The warrants include weighted-average anti-dilution protection and, in the event of a sale of the Company, and under certain conditions, each warrant holder has the right to require the Company to purchase such holder's warrants at a price determined using a Black-Scholes option pricing model.

On June 8, 2011, the Company sold 836,750 additional shares of common stock, pursuant to the underwriter's partial exercise of its over-allotment option, resulting in additional net proceeds to Plug Power of \$1,874,990.

On July 1, 2011, the Company sold 231,000 additional shares of common stock, pursuant to the underwriter's partial exercise of its over-allotment option, resulting in additional net proceeds to Plug Power of \$517,624.

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Changes in stockholders' equity for the six months ended June 30, 2011 are as follows:

|  | Common Stock |              | Treasury Stock   |               |          |                | Accumulated      | Total         |
|--|--------------|--------------|------------------|---------------|----------|----------------|------------------|---------------|
|  | Shares       | Amount       | Additional Paid- | Comprehensive | Shares   | Amount         |                  |               |
|  |              |              | in-Capital       | Income (Loss) |          |                |                  | Equity        |
| <b>December 31, 2010</b>                         | 13,369,924   | \$ 1,336,992 | \$ 769,659,871   | \$ 965,868    | 180,449  | \$ (1,719,510) | \$ (727,329,858) | \$ 42,913,368 |
| Net loss   | -            | -            | -                | -             | -        | -              | (13,995,868)     | (13,995,868)  |
| Foreign currency translation gain                | -            | -            | -                | 86,032        | -        | -              | -                | 86,032        |
| Unrealized gain on available-for-sale securities | -            | -            | -                | 18,502        | -        | -              | -                | 18,502        |
| Total comprehensive loss                         |              |              |                  |               |          |                |                  |               |
| Stock based compensation                         | 102,881      | 1,029        | 994,561          | -             | -        | -              | -                | 995,590       |
| Reclassification adjustment - stock split        | -            | (1,203,293)  | 1,203,293        | -             | -        | -              | -                | -             |
| Public offering common stock, net                | 9,101,750    | 91,017       | 11,305,712       | -             | -        | -              | -                | 11,396,729    |
| Issuance of treasury shares                      | -            | -            | (328,650)        | -             | (35,000) | 328,650        | -                | -             |
| Purchase of treasury shares                      | -            | -            | -                | -             | 20,292   | (161,279)      | -                | (161,279)     |
| <b>June 30, 2011</b>                             | 22,574,555   | \$ 225,745   | \$ 782,834,787   | \$ 1,070,402  | 165,741  | \$ (1,552,139) | \$ (741,325,726) | \$ 41,253,068 |

**7. Supplemental Disclosures of Cash Flows Information**

The following represents required supplemental disclosures of cash flows information and non-cash financing and investing activities which occurred during the six months ended June 30, 2011 and 2010:

|   | June 30,<br>2011 | June 30,<br>2010 |
|---|------------------|------------------|
| Stock-based compensation accrual impact                           | \$ (10,021)      | \$ 586,652       |
| Change in unrealized gain (loss) on available-for-sale securities | 18,502           | (58,237)         |
| Cash paid for interest  | -                | 360,289          |
| Transfer of leased assets to inventory                            | 263,239          | -                |
| Transfer of assets held for sale to inventory                     | 1,000,000        | -                |



Table of Contents**8. Restructuring Charges**

On May 25, 2010, the Company adopted a restructuring plan to focus and align the Company on its GenDrive business. As part of this plan, the Company consolidated all operations into its Latham, New York headquarters. At June 30, 2011, \$704,199 remains in accrued expenses on the condensed consolidated balance sheets.

The accrued restructuring charges relating to the May 2010 restructuring are comprised of the following at June 30, 2011:

|                       | <b>Accrued<br/>restructuring<br/>charges at<br/>January 1, 2011</b> | <b>Adjustments to,<br/>additional<br/>accrued<br/>restructuring<br/>charges<br/>or non-cash<br/>charges</b> | <b>Cash payments</b> | <b>Accrued<br/>restructuring<br/>charges at<br/>June 30, 2011</b> |
|-----------------------|---|---|----------------------|---|
| Personnel Related     | \$ -  | \$ 24,095   | \$ (24,095)          | \$ -  |
| Net Lease Obligations | 687,696   | 16,503  | -                    | 704,199   |
| Total                 | \$ 687,696  | \$ 40,598   | \$ (24,095)          | \$ 704,199  |

During 2008, the Company adopted two restructuring plans to focus the Company on becoming a market and sales driven organization, to drive revenue growth, improve organizational efficiency and to position the Company for long-term profitability. As part of the plans, the Company implemented reductions in workforce, terminated purchase commitments, charged off inventory related to lapsed product lines, cut back discretionary spending, and deferred non strategic projects. At June 30, 2011, \$497,642 remains in accrued expenses on the condensed consolidated balance sheets.

The accrued restructuring charges relating to the two 2008 restructurings are comprised of the following at June 30, 2011:

|                       | <b>Accrued<br/>restructuring<br/>charges at<br/>January 1, 2011</b> | <b>Adjustments to,<br/>additional<br/>accrued<br/>restructuring<br/>charges<br/>or non-cash<br/>charges</b> | <b>Cash payments</b> | <b>Accrued<br/>restructuring<br/>charges at<br/>June 30, 2011</b> |
|-----------------------|---|---|----------------------|---|
| Contract Cancellation | \$ 547,356  | \$ -  | \$ (49,714)          | \$ 497,642  |
| Net Lease Obligations | 157,516   | -   | (157,516)            | -   |
| Total                 | \$ 704,872  | \$ -  | \$ (207,230)         | \$ 497,642  |



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**9. Credit Line Agreement and Auction Rate Debt Securities Repurchase Agreement**

In December 2008, the Company entered into a Credit Line Agreement with a third-party lender with a maximum availability of \$62.9 million. The Company's auction rate debt securities included in trading securities were pledged as collateral for the Credit Line Agreement. As of December 31, 2008, the Company had drawn down \$62.9 million on this line of credit. During the six months ended June 30, 2010, approximately \$33.9 million of auction rate debt securities were sold by the third-party lender holding the collateral which resulted in a corresponding reduction in amounts outstanding under the Credit Line Agreement. The Credit Line Agreement had interest at a variable rate equal to the average rate of interest earned by the Company on the auction rate debt securities pledged as collateral for the Credit Line Agreement. Interest expense on the advances on the Credit Line Agreement was approximately \$296,000 for the six months ended June 30, 2010.

The advances on the Credit Line Agreement were repayable on demand by the third-party lender. If the third-party lender had exercised its right to demand repayment of the advances under the Credit Line Agreement prior to June 30, 2010 (the date upon which the Company could first exercise its rights under the Repurchase Agreement discussed below), the third-party lender was required to arrange alternative financing on terms substantially the same as the Credit Line Agreement or the third party lender must repurchase the auction rate debt securities pledged as collateral for the Credit Line Agreement at their par value.

In December 2008, the Company also entered into a Repurchase Agreement with the third-party lender such that the Company may require the third-party lender to repurchase the auction rate debt securities pledged as collateral for the Credit Line Agreement, at their par value, from June 30, 2010 through July 2, 2012 as full settlement for the advances on the Credit Line Agreement. The Company elected to record this item at its fair value in accordance with ASC No. 825-10-25 to allow consistent treatment of this repurchase agreement and the underlying collateral. At June 30, 2010, the fair value of this item was approximately \$2.8 million and was recorded as an asset on the condensed consolidated balance sheets. The change in the fair value of the Repurchase Agreement for the six months ended June 30, 2010 was approximately \$3.1 million and was recorded as a realized loss on the condensed consolidated statements of operations.

Effective July 1, 2010, all auction rate debt securities were repurchased at par by the third-party lender holding the collateral under the Repurchase Agreement which resulted in a corresponding reduction in amounts outstanding and the extinguishment of the Credit Line Agreement.





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**10. Debt and Lease Arrangement**

In March 2009, the Company signed a \$1.7 million promissory note issued by Key Equipment Finance Inc. (Key Equipment) for the purpose of financing GenDrive products leased to Central Grocers, beginning on April 1, 2009. Monthly installments of \$32,900 were due through March 2014 and the note was subject to interest at a fixed rate of 7.23% per annum on a 360-day year. The Company was initially required to pledge \$1.8 million in cash to collateralize the debt, which was to decrease over time in accordance with decreases in the outstanding balance of the debt. This note was also secured by the equipment that was leased to Central Grocers as described in the Master Security Agreement and Collateral Schedule No. 01 dated as of March 20, 2009, together known as the Master Security Agreement. The promissory note was paid in full during the year ended December 31, 2010.

On April 1, 2009, the Company began leasing the GenDrive products to Central Grocers. The terms of the arrangement were 60 monthly installments of \$32,900. Upon expiration of the 60 months (initial term of the lease), Central Grocers had the option to renew the lease for an additional five years at mutually agreed upon pricing, to purchase all equipment for a purchase price equal to the then fair market value thereof, or to return the equipment to the Company. The Company shall provide maintenance in accordance with the lease agreement.

In December 2010, the Company assigned all of its rights, title and interest in the lease to Somerset Capital Group, Ltd. (Somerset), but the Company will continue to provide maintenance in accordance with the lease agreement. In conjunction with the assignment of the lease, the Key Equipment promissory note was completely paid off by the Company and the collateralized cash was released to the Company. The Company sold all of the equipment under the lease to Somerset.

During 2010, the Company entered into the second phase of leased assets with Central Grocers. The terms of the arrangement were 60 monthly installments of \$24,640. Upon expiration of the 60 months (initial term of the lease), Central Grocers had the option to renew the lease for an additional five years at mutually agreed upon pricing, to purchase all equipment for a purchase price equal to the then fair market value thereof, or to return the equipment to the Company. The Company shall provide maintenance in accordance with the lease agreement.

In December 2010, the Company assigned all of its rights, title and interest in the second phase lease to Somerset, but the Company will continue to provide maintenance in accordance with the lease agreement. The Company sold all of the equipment under the second phase lease to Somerset.

In July 2009, the Company signed a letter of credit with Key Bank in the amount of \$525,000. The standby letter of credit is required by the agreement negotiated between Air Products and Chemicals, Inc. (Air Products) and the Company to supply hydrogen infrastructure and hydrogen to Central Grocers at their distribution center. The standby letter of credit is collateralized by cash held in a restricted account and is recorded as restricted cash in the condensed consolidated balances sheets as of June 30, 2011 and December 31, 2010.

In October 2009, the Company entered into a 15 month financing arrangement for an electrolyzer. The outstanding balance of the debt as of December 31, 2010 was approximately \$10,000 and was recorded as current portion of long term debt in the condensed consolidated balance sheets. This debt was paid in full during the first quarter of 2011.



Table of Contents**11. Available-For-Sale Securities**

The amortized cost and fair value of the Company's available-for-sale securities as of December 31, 2010 were as follows:

|                          | <b>Amortized<br/>Cost</b> | <b>Gross<br/>Unrealized<br/>Gains</b> | <b>Gross<br/>Unrealized<br/>Losses</b> | <b>Estimated<br/>Fair Value</b> |
|--------------------------|---------------------------|---------------------------------------|--|---------------------------------|
| U.S. Treasury Securities | \$ 10,421,817             | \$ -                                  | \$ 18,502                              | \$ 10,403,315                   |

Included in the above table are two securities where the current fair value is less than the related amortized cost at December 31, 2010. These unrealized losses do not reflect any deterioration of the credit worthiness of the issuers of the securities. All securities are of investment grade. The unrealized losses on these temporarily impaired securities are a result of changes in interest rates for fixed-rate securities where the interest rate received is less than the current rate available for new offerings of similar securities and changes in market spreads as a result of shifts in supply and demand. The contractual maturities of available-for-sale securities were in the quarter ended March 31, 2011 for balances as of December 31, 2010.

The Company recognized gross gains, gross losses and proceeds on available-for-sale securities for each of the six months ended June 30 as follows:

|                        | <b>2011</b>   | <b>2010</b>   |
|------------------------|---------------|---------------|
| Proceeds on Sales      | \$ -          | \$ 9,978,083  |
| Proceeds on Maturities | \$ 10,399,396 | \$ 35,926,223 |
| Gross Realized Gains   | \$ -          | \$ -          |
| Gross Realized Losses  | \$ 22,421     | \$ -          |

**12. Fair Value of Financial Instruments**

The following disclosure of the estimated fair value of financial instruments is made in accordance with the provision of ASC 825-10-65, Financial Instruments, which requires disclosures about fair value of financial instruments in interim financial statements as well as in annual financial statements. Although the estimated fair value amounts have been determined by the Company using available market information and appropriate valuation methodologies, the estimates presented are not necessarily indicative of the amounts that the Company could realize in current market exchanges.



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The following methods and assumptions were used by the Company in estimating its fair value disclosures for financial instruments:

*Cash and cash equivalents, accounts receivable, accrued interest receivable and payable:* The carrying amounts reported in the condensed consolidated balance sheets approximate fair value because of the short maturities of these instruments.

### **13. Multiple-Deliverable Revenue Arrangements**

The Company enters into multiple-deliverable revenue arrangements that may contain a combination of fuel cell systems or equipment, installation, service, maintenance, fueling and other support services. The delivered item, equipment, does have value to the customer on a standalone basis and could be separately sold by another vendor. In addition, the Company does not include a right of return on its products. Total revenue recognized under multiple-deliverable revenue arrangements in the three and six months ended June 30, 2011 was approximately 59.6% and 70.6% of total product and service revenue, respectively. Total revenue recognized under multiple-deliverable revenue arrangements in the three and six months ended June 30, 2010 was approximately 34.6% and 47.5% of total product and service revenue, respectively. The majority of the Company's multiple-deliverable revenue arrangements ship complete within the same quarter.

Under the guidance of the FASB ASU No. 2009-13, in an arrangement with multiple-deliverables, the delivered items will be considered a separate unit of accounting if the following criteria are met:

- The delivered item or items have value to the customer on a standalone basis.
- If the arrangement includes a general right of return relative to the delivered item(s), delivery or performance of the undelivered item or items is considered probable and substantially in the control of the vendor.

Deliverables not meeting the criteria for being a separate unit of accounting are combined with a deliverable that does meet that criterion. The appropriate allocation of arrangement consideration and recognition of revenue is then determined for the combined unit of accounting.

The Company allocates arrangement consideration to each deliverable in an arrangement based on its relative selling price. The Company determines selling price using vendor-specific objective evidence (VSOE), if it exists, otherwise third-party evidence (TPE). If neither VSOE nor TPE of selling price exists for a unit of accounting, the Company uses estimated selling price (ESP).

VSOE is generally limited to the price that a vendor charges when it sells the same or similar products or services on a standalone basis. TPE is determined based on the prices charged by competitors of the Company for a similar deliverable when sold separately. The Company generally expects that it will not be able to establish VSOE or TPE for certain deliverables due to the lack of standalone sales and the nature of the markets in which the Company

competes, and, as such, the Company typically will determine selling price using ESP.

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The objective of ESP is to determine the price at which the Company would transact if the product or service were sold by the Company on a standalone basis. The Company's determination of ESP may involve a weighting of several factors based on the specific facts and circumstances of the arrangement. Specifically, the Company may consider the cost to produce the deliverable, the anticipated margin on that deliverable, the selling price and profit margin for similar parts, the Company's ongoing pricing strategy and policies, the value of any enhancements that have been built into the deliverable and the characteristics of the varying markets in which the deliverable is sold, as applicable. The Company will determine ESP for deliverables in future agreements based on the specific facts and circumstances of the arrangement.

As noted above, in determining selling price, TPE is generally not readily available due to a lack of a competitive environment in selling fuel cell technology. However, when determining selling price for certain deliverables such as service and maintenance, if available, the Company utilizes prices charged by its competitors as TPE when estimating its costs for labor hours.

Each deliverable within the Company's multiple-deliverable revenue arrangements is accounted for as a separate unit of accounting under the guidance of ASU No. 2009-13. Once a standalone selling price for all the deliverables that meet the separation criteria has been met, whether by VSOE, TPE or ESP, the relative selling price method is used to proportionately allocate each element of the arrangement to the sale consideration. The Company plans to analyze the selling prices used in its allocation of arrangement consideration at a minimum on an annual basis. Selling prices will be analyzed on a more frequent basis if a significant change in the Company's business necessitates a more timely analysis or if the Company experiences significant variances in its selling prices.

For all product and service revenue transactions entered into prior to the implementation of ASU No. 2009-13, the Company will continue to defer the recognition of product and service revenue and recognize revenue on a straight-line basis as the continued service, maintenance and other support obligations expire, which are generally for periods of twelve to thirty months, or which extend over multiple years. While contract terms for those transactions generally required payment shortly after shipment or delivery and installation of the fuel cell system and were not contingent on the achievement of specific milestones or other substantive performance, the multiple-element revenue obligations within our contractual arrangements were generally not accounted for separately based on our limited experience and lack of evidence of fair value of the undelivered components.



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**14. Licensing Agreement**

On October 26, 2010, the Company licensed the intellectual property relating to its stationary power products, GenCore and GenSys, to IdaTech plc on a non-exclusive basis. Plug Power maintains ownership of, and the right to use, the patents and other intellectual property licensed to IdaTech. As part of the transaction, Plug Power also sold inventory, equipment and certain other assets related to its stationary power business. Total consideration for the licensing and assets was \$5 million and was received during October 2010. The consideration was subject to reduction by a maximum of \$1 million in the event that the Company did not deliver certain of the assets sold. As of December 31, 2010, \$1.0 million was included in assets held for sale and \$1.0 million was included in other current liabilities in the condensed consolidated balance sheets, respectively until all assets have been sold. Upon the sale of assets in the quarter ended June 30, 2011, the \$1.0 million of consideration was released.

**15. Income Taxes**

Under Internal Revenue Code (IRC) Section 382, the use of net operating loss carryforwards, capital loss carryforwards and other tax credit carryforwards may be limited if a change in ownership of a company occurs. If it is determined that due to transactions involving the Company's shares owned by its five percent stockholders a change of ownership has occurred under the provisions of IRC Section 382, the Company's net operating loss, capital loss and tax credit carryforwards could be subject to significant IRC Section 382 limitations.

At December 31, 2010, the Company had approximately \$573.4 million in Federal and state net operating loss carryforwards and \$15.5 million in Federal research and experimentation tax credit carryforwards (of which \$5.7 million represents an uncertain tax position), which resulted in \$217.9 million and \$9.8 million, respectively, in gross deferred tax assets that are recorded on the Company's balance sheet at December 31, 2010. These gross deferred tax assets are offset by a full valuation allowance, resulting in net deferred tax assets of zero. During 2011, as a result of certain equity transactions by five percent stockholders, an ownership change occurred for IRC Section 382 purposes. As a result of the ownership change, approximately \$22 to \$60 million of the Company's Federal and state net operating loss and recognized built in loss carryforwards are available. The remaining net operating loss and recognized built in loss carryforwards will expire prior to utilization. As a result, the Company's gross deferred tax asset and related valuation allowance will decrease by approximately \$195 to \$209 million. Additionally, the \$15 million of Federal research and experimentation tax credit carryforwards will now expire prior to utilization, resulting in the Company's gross deferred tax asset and related valuation allowance decreasing by \$9.8 million. These decreases have no impact on the Company's current financial position, results of operations, or cash flows because of the full valuation allowance.

The adoption of the IRC Section 1374 approach prescribed in Notice 2003-65 with respect to the ownership change for the Company resulted in Net Unrealized Built in Losses which should result in Recognized Built in Losses during the five year recognition period of approximately \$6.5 to \$34 million. This will translate into unfavorable book to tax add backs in the Company's 2011 to 2016 U.S. Corporate Income Tax returns that will generate a gross deferred tax liability at the ownership change date of approximately \$2.5 to \$13 million and a corresponding reduction to the valuation allowance. This gross deferred tax liability will offset certain existing gross deferred tax assets (i.e. capitalized research expense). This has no impact on the Company's current financial position, results of operations, or cash flows because of the full valuation allowance.

The Company is in the process of completing a formal IRC Section 382 study to determine the actual amount of the Federal and state net operating losses available and the actual amount of Built in Losses required to be recognized during the five year recognition period.

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**16. Stock Option Plan**

On May 12, 2011, the Company's stockholders approved the 2011 Stock Option and Incentive Plan (the 2011 Plan). The 2011 Plan provides for the issuance of up to a maximum number of shares of common stock equal to the sum of (i) 1,000,000, plus (ii) the number of shares of common stock underlying any grants pursuant to the 2011 Plan or the Plug Power Inc. 1999 Stock Option and Incentive Plan that are forfeited, canceled, repurchased or are terminated (other than by exercise). The shares may be issued pursuant to stock options, stock appreciation rights, restricted stock awards and certain other equity-based awards granted to employees, directors and consultants of the Company. No grants may be made under the 2011 Plan after May 12, 2021.

**17. Commitments and Contingencies**

The Equipment Sale Agreement Addendum No. 1 between Ballard and the Company was executed on June 30, 2011. This addendum relates to a committed purchase by the Company of a total of 3,250 Ballard fuel cell stacks between the dates of July 1, 2011 and December 31, 2012. The amount of this commitment is approximately \$9.4 million. In conjunction with this agreement, the Company paid a one-time non-recurring engineering fee of \$450,000 to Ballard to be used at Ballard's sole discretion for the purposes of product development, cost reduction and production implementation.

**18. Subsequent Events**

The Company has evaluated subsequent events and transactions through the date of this filing for potential recognition or disclosure in the financial statements and has noted no other subsequent events requiring recognition or disclosure other than as stated below.

On August 9, 2011, the Company entered into a loan and security agreement (the Loan Agreement) with SVB providing that in return for paying an up front fee of \$52,250 the Company has access to up to \$7 million of financing in the form of (i) revolving loans, (ii) letters of credit, (iii) foreign exchange contracts and (iii) cash management services such as merchant services, direct deposit of payroll, business credit card and check cashing services. Advances under the Loan Agreement cannot exceed a borrowing base limit calculated using (A) an advanced rate of 80% on the Company's eligible accounts and (B) an advanced rate of 25% on the Company's eligible inventory (subject to a limit of the lesser of (a) \$2 million and (b) 30% of all outstanding advances), subject to certain reserves established by SVB and other adjustments. The aggregate amount of outstanding letters of credit, foreign exchange contract financing and amounts utilized for cash management services cannot exceed a sublimit of \$750,000 in the aggregate at any time.

Interest on advances of credit under the Loan Agreement for: (i) financed accounts receivables is equal to (a) SVB's prime rate, which is currently 3.25% per annum, plus 3.0% per annum or (b) if the Company maintains during any

month at all times an adjusted quick ratio of 2.0 to 1.0, then SVB's prime rate plus 1.50% per annum; and (ii) financed inventory is equal to (a) SVB's prime rate plus 5.25% per annum or (b) if the Company maintains during any month at all times an adjusted quick ratio of 2.0 to 1.0, then SVB's prime rate plus 3.25% per annum. The minimum monthly interest charge is \$4,000 per month. The Loan Agreement will be used by the Company to support its current working capital needs.

The Loan Agreement is secured by substantially all of the Company's properties, rights and assets, including substantially all of its equipment, inventory, receivables, intellectual property and general intangibles.

The Loan Agreement includes customary representations and warranties for credit facilities of this type. In addition, the Loan Agreement contains a number of covenants that will impose significant operating and financial restrictions on the Company's operations, including restrictions pertaining to, among other things: (i) the condition of inventory; (ii) maintenance of an adjusted quick ratio of at least 1.50 to 1.0; (iii) intellectual property right protection and registration; (iv) dispositions of assets; (v) changes in business, management, ownership or business locations; (vi) mergers, consolidations or acquisitions; (vii) incurrence or assumption of indebtedness; (viii) incurrence of liens on any of the Company's property; (ix) paying dividends or making distributions on, or redemptions, retirements or repurchases of, capital stock; (x) transactions with affiliates; and (xi) payments on or amendments to subordinated debt.

The Loan Agreement also contains events of default customary for credit facilities of this type with, in some cases, corresponding grace periods, including, (i) failure to pay any principal or interest when due, (ii) failure to comply with covenants, (iii) any material adverse change occurring, (iv) an attachment, levy or restraint on our business, (v) certain bankruptcy or insolvency events, (vi) payment defaults relating to, or acceleration of, other indebtedness or that could result in a material adverse change to the Company's business, (vii) the Company or its subsidiaries becoming subject to judgments, claims or liabilities in an amount individually or in aggregate in excess of \$150,000.00, (viii) any misrepresentations, or (viii) any revocation, invalidation, breach or invalidation of any subordinated debt.

The Loan Agreement will expire on August 8, 2012. The Loan Agreement may be terminated prior to August 8, 2012; however, the Company would be required to pay a \$70,000 early termination fee in connection with a termination (i) by the Company for any reason or (ii) by SVB upon notice and after the occurrence and during the continuance of an event of default.



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**Item 2 – Management’s Discussion and Analysis of Financial Condition and Results of Operations**

*The following discussion should be read in conjunction with our accompanying unaudited condensed consolidated financial statements and notes thereto included within this report, and our audited consolidated financial statements and notes thereto included in our Annual Report on Form 10-K filed for the fiscal year ended December 31, 2010. In addition to historical information, this Form 10-Q and the following discussion contain statements that are not historical facts and are considered forward-looking within the meaning of Section 27A of the Securities Act and Section 21E of the Exchange Act. These forward-looking statements contain projections of our future results of operations or of our financial position or state other forward-looking information. In some cases you can identify these statements by forward-looking words such as “anticipate,” “believe,” “could,” “continue,” “estimate,” “expect,” “intend,” “may,” “should,” “will,” “would,” “plan,” “projected” or the negative of such words or other similar words or phrases. We believe that it is important to communicate our future expectations to our investors. However, there may be events in the future that we are not able to accurately predict or control and that may cause our actual results to differ materially from the expectations we describe in our forward-looking statements. Investors are cautioned not to rely on forward-looking statements because they involve risks and uncertainties, and actual results may differ materially from those discussed as a result of various factors, including, but not limited to: expectations regarding expected shipments of GenDrive units for 2011 and 2012, the risk that we continue to incur losses and might never achieve or maintain profitability, the risk that the additional capital we may need to raise to fund our operations may not be available; the risk that the previously disclosed expected uses of the Company’s recently raised capital may change; our lack of extensive experience in manufacturing and marketing products may impact our ability to manufacture and market products on a profitable and large-scale commercial basis; the risk that unit orders will not ship, be installed and/or converted to revenue, in whole or in part; the risk that pending orders may not convert to purchase orders, in whole or in part; the cost and timing of developing, marketing and selling our products and our ability to raise the necessary capital to fund such costs; the ability to achieve the forecasted gross margin on the sale of our products; the actual net cash used for operating expenses may exceed the projected net cash for operating expenses; the cost and availability of fuel and fueling infrastructures for our products; market acceptance of our GenDrive systems; our ability to establish and maintain relationships with third parties with respect to product development, manufacturing, distribution and servicing and the supply of key product components; the cost and availability of components and parts for our products; our ability to develop commercially viable products; our ability to reduce product and manufacturing costs; our ability to successfully expand our product lines; our ability to improve system reliability for our GenDrive systems; competitive factors, such as price competition and competition from other traditional and alternative energy companies; our ability to protect our intellectual property; the cost of complying with current and future federal, state and international governmental regulations; and other risks and uncertainties discussed, but are not limited to, those set forth in Item 1A-Risk Factors in our Annual Report on Form 10-K for the fiscal year ended December 31, 2010, as filed on March 31, 2011 as updated by Part II, Item 1A*

*of our Form 10-Q for the quarter ended March 31, 2011 and this Form 10-Q. Readers should not place undue reliance on our forward-looking statements. These forward-looking statements speak only as of the date on which the statements were made and are not guarantees of future performance. Except as may be required by applicable law, we do not undertake or intend to update any forward-looking statements after the date of this Form 10-Q.*



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### **Overview**

Plug Power Inc., or the Company, is a leading provider of alternative energy technology focused on the design, development, commercialization and manufacture of fuel cell systems for the industrial off-road (forklift or material handling) market. Plug Power has also developed products for the back-up and stationary power markets worldwide. Effective April 1, 2010, the Company was no longer considered a development stage enterprise since principal operations began to provide more than insignificant revenues as the Company received orders from repeat customers, increased its customer base and had a significant backlog. Prior to April 1, 2010, the Company was considered a development stage enterprise because substantially all of our resources and efforts were aimed at the discovery of new knowledge that could lead to significant improvement in fuel cell reliability and durability and the establishment, expansion and stability of markets for our products.

We concentrate our efforts on developing, manufacturing and selling our hydrogen-fueled PEM GenDrive products on commercial terms for industrial off-road (forklift or material handling) applications, with a focus on multi-shift high volume manufacturing and high throughput distribution sites.

We have successfully introduced new GenDrive product offerings to augment our product suite and allow full site conversions. We have sold, on commercial terms, product offerings to target customers including Walmart, FedEx Freight, Coca-Cola Bottling Co., Sysco Foods and Central Grocers. Our sales to Central Grocers and Sysco Foods involve "greenfield" conversion sites. Greenfield sites offer the potential for the greatest financial benefits to our customers by eliminating the need for customers to make capital investments in batteries and the associated chargers, storage and changing systems.

In the three and six months ended June 30, 2011, we received orders for 431 and 986 GenDrive units, respectively. Our backlog of 1,296 orders as of June 30, 2011 represents approximately \$24.2 million in potential future revenue and we expect approximately 60 percent of these orders to ship throughout the remainder of 2011. With this increase in orders, and expected engineering improvements that utilize common components across product lines, we expect to drive down material costs by 30 to 40 percent. Implementation is currently underway and we expect these improvements to begin to impact our financial results by the end of 2011. We have experienced and continue to experience negative cash flows from operations and we expect to continue to incur net losses in the foreseeable future. Accordingly, in 2010, we restructured and consolidated our operations to focus on the GenDrive business. This restructuring is expected to decrease our operating expenses by \$12 to \$15 million annually starting in 2011.

Including the receipt of \$20.2 million in net proceeds from the capital raise completed in the quarter ended June 30, 2011, we had approximately \$27.2 million of cash and cash equivalents at June 30, 2011 to fund our future operations. Additionally, subsequent to June 30, 2011, we entered into a revolving credit facility arrangement with Silicon Valley Bank (SVB) providing availability to an additional \$7 million to support working capital needs (See "Liquidity and Capital Resources" for further disclosure on the credit facility with SVB). We believe that our current cash, cash equivalents and cash generated from future sales, in conjunction with the availability of the credit facility, will provide sufficient liquidity to fund operations through the end of 2012. This projection is based on our current expectations regarding product sales, cost structure, cash burn rate and operating assumptions



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(including those specified in the May 2010 restructuring plan described below). Our ability to achieve profitability, future liquidity needs and capital requirements will depend upon numerous factors, including the timing and quantity of product orders and shipments, the extent to which we can effectuate the May 2010 restructuring plan; the timing and amount of our operating expenses; the timing and costs of working capital needs; the timing and costs of building a sales base; the timing and costs of developing marketing and distribution channels; the timing and costs of product service requirements; the timing and costs of hiring and training product staff; the extent to which our products gain market acceptance; the timing and costs of product development and introductions; the extent of our ongoing and any new research and development programs; and changes in our strategy or our planned activities.

As a result, we can provide no assurance that we will be able to fund our operations beyond 2012 without external financing. If we are unable to obtain additional capital prior to the end of 2012, we may not be able to sustain our future operations into 2013 and may be required to delay, reduce and/or cease our operations and/or seek bankruptcy protection. We cannot assure you that any necessary additional financing will be available on terms favorable to us, or at all. Given the difficult current economic environment, we believe that it could be difficult to raise additional funds and there can be no assurance as to the availability of additional financing or the terms upon which additional financing may be available. Additionally, even if we raise sufficient capital through equity or debt financing, strategic alliances or otherwise, there can be no assurances that the revenue or capital infusion will be sufficient to enable us to develop our business to a level where it will be profitable or generate positive cash flow.

## **Recent Developments**

*Stock Split.* On May 19, 2011, the Company implemented a one-for-ten reverse stock split of its common stock. As a result of the reverse stock split, each ten (10) outstanding shares of pre-split common stock were automatically combined into one (1) share of post-split common stock. Fractional shares received cash and proportional adjustments were made to the Company's outstanding stock options and other equity awards and to the Company's equity compensation plans to reflect the reverse stock split. The financial statements for all prior periods have been retroactively adjusted to reflect this stock split for both common stock issued and options outstanding.

*Stock Option Plan.* On May 12, 2011, the stockholders approved the 2011 Stock Option and Incentive Plan (the 2011 Plan). The 2011 Plan provides for the issuance of up to a maximum number of shares of common stock equal to the sum of (i) 1,000,000, plus (ii) the number of shares of common stock underlying any grants pursuant to the 2011 Plan or the Plug Power Inc. 1999 Stock Option and Incentive Plan that are forfeited, canceled, repurchased or are terminated (other than by exercise). Shares tendered or held back upon exercise of an Option or settlement of an Award to cover the exercise price or tax withholding shall not be available for future issuance under the Plan. In addition, upon exercise of Stock Appreciation Rights, the gross number of shares exercised shall be deducted from the

total number of shares remaining available for issuance under the Plan. Subject to such overall limitations, shares of Stock may be issued up to such maximum number pursuant to any type or types of Award; provided, however, that Stock Options or Stock Appreciation Rights with respect to no more than 200,000 shares of Stock may be granted to any one individual grantee during any one calendar year period and no more than 1,000,000 shares of Stock shall be issued in the form of Incentive Stock Options. The shares available for issuance under the Plan may be authorized but unissued shares of Stock or shares of Stock reacquired by the Company.

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Stock options granted under the 2011 Plan may be either incentive stock options or non-qualified stock options. The exercise price per share for the common stock covered by a stock option granted shall be determined by the administrator at the time of grant but shall not be less than 100 percent of the fair market value on the date of grant. In the case of an incentive stock option that is granted to a ten percent owner, the option price of such incentive stock option shall be not less than 110 percent of the fair market value on the grant date. The term of each stock option shall be fixed by the administrator, but no stock option shall be exercisable more than ten years after the date the stock option is granted. In the case of an incentive stock option that is granted to a ten percent owner, the term of such stock option shall be no more than five years from the date of grant.

The exercise price of a stock appreciation right granted under the 2011 Plan shall not be less than 100 percent of the fair market value of the common stock on the date of grant. Stock appreciation rights may be granted by the administrator independently of any stock option granted pursuant to the 2011 Plan. Stock appreciation rights shall be subject to such terms and conditions as shall be determined from time to time by the administrator. The term of a stock appreciation right may not exceed ten years.

The 2011 Plan also provides for restricted stock awards, deferred stock awards, unrestricted stock awards, cash-based awards, performance share awards and performance-based awards to covered employees as defined in the 2011 Plan.

No grants of stock options and other awards may be made under the 2011 Plan after the tenth anniversary of the effective date of the 2011 Plan and no grants of incentive stock options may be made under the 2011 Plan after the tenth anniversary of the date the 2011 Plan is approved by the Board.

*Public Offering.* On May 31, 2011, the Company completed an underwritten public offering of 8,265,000 shares of its common stock and warrants to purchase an aggregate of 7,128,563 shares of common stock (including warrants to purchase an aggregate of 929,813 shares of common stock purchased by the underwriter pursuant to the exercise of its over-allotment option). The shares and the warrants were sold together as a fixed combination, with each combination consisting of one share of common stock and 0.75 of a warrant to purchase one share of common stock, at a price to the public of \$2.42 per fixed combination. Net proceeds, after underwriting discounts and commissions and other fees and expenses payable by Plug Power, were \$18,289,883. The warrants are exercisable upon issuance and will expire on May 31, 2016. The exercise price of the warrants is \$3.00 per share of common stock. The warrants include weighted-average anti-dilution protection and, in the event of a sale of the Company, each warrant holder has the right to require the Company to purchase such holder's warrants at a price determined using a Black-Scholes option pricing model.

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On June 8, 2011, the Company sold 836,750 additional shares of common stock, pursuant to the underwriter's partial exercise of its over-allotment option, resulting in additional net proceeds to Plug Power of \$1,874,990.

On July 1, 2011, the Company sold 231,000 additional shares of common stock, pursuant to the underwriter's partial exercise of its over-allotment option, resulting in additional net proceeds to Plug Power of \$517,624.

*Nasdaq Listing.* On June 6, 2011, the Company received a letter from The Nasdaq Stock Market advising that the Company had regained compliance with the Nasdaq Capital Market's minimum bid price requirement for continued listing as set forth in Nasdaq Listing Rule 5550(a)(2).

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*Equipment Sale Agreement.* The Equipment Sale Agreement Addendum No. 1 between Ballard and the Company was executed on June 30, 2011. This addendum relates to a committed purchase by the Company of a total of 3,250 Ballard fuel cell stacks between the dates of July 1, 2011 and December 31, 2012. The amount of this commitment is approximately \$9.4 million. In conjunction with this agreement, the Company paid a one-time non-recurring engineering fee of \$450,000 to Ballard to be used at Ballard's sole discretion for the purposes of product development, cost reduction and production implementation.

*Loan and Security Agreement.* The Company entered into a revolving credit facility arrangement with Silicon Valley Bank (SVB) providing availability to an additional \$7 million to support working capital needs (See "Liquidity and Capital Resources" for further disclosure on the credit facility with SVB).

*Customer Growth.* On April 5, 2011, the Company announced that WinCo Foods LLC will use 184 GenDrive fuel cell units to power its electric lift truck fleet at its 800,000 sq. ft. grocery distribution center in Modesto, California. This transaction with WinCo Foods marks Plug Power's first large grocery installation in California. At the same time, the GenDrive units being developed for WinCo's European-style moving mast lift trucks will offer Plug Power a segue into the European material handling industry with a reliable product. The material handling industry in Europe is approximately a \$5.7B USD market and provides an opportunity for expansion for Plug Power.

On June 29, 2011, the Company announced that Kroger Co. will use 161 GenDrive fuel cell units in its food distribution center in Compton, California.

## **Results of Operations**

*Product and service revenue.* Effective April 1, 2010, the Company adopted ASU No. 2009-13 on Topic 605, Revenue Recognition— Multiple Deliverable Revenue Arrangements retroactive to January 1, 2010. ASU No. 2009-13 amends the FASB ASC to eliminate the residual method of allocation for multiple-deliverable revenue arrangements, and requires that arrangement consideration be allocated at the inception of an arrangement to all deliverables using the relative selling price method. As a result of implementing ASU No. 2009-13, we recognized approximately \$1.6 million and \$5.4 million of revenue during the three and six months ended June 30, 2011, respectively, that would have been deferred under the Company's previous guidance for multiple-deliverable revenue arrangements. We recognized approximately \$805,000 and \$2.6 million of revenue during the three and six months ended June 30, 2010, respectively, that would have been deferred under the Company's previous guidance for multiple-deliverable revenue arrangements. The Company anticipates that the effect of the adoption of this guidance on subsequent periods will be

primarily based on the arrangements entered into and the timing of shipment of deliverables. See Note 13, Multiple-Deliverable Revenue Arrangements, of the condensed consolidated financial statements, Part I, Item 1 of this Form 10-Q for further discussion of our multiple-deliverable revenue arrangements.

For all product and service revenue transactions entered into prior to the implementation of ASU No. 2009-13, the Company will continue to defer the recognition of product and service revenue and recognize revenue on a straight-line basis as the continued service, maintenance and other support obligations expire, which are generally for periods of twelve to thirty months, or which can extend over multiple years. While contract terms for those transactions generally required payment shortly after shipment or delivery and installation of the fuel cell system and were not contingent on the achievement of specific milestones or other substantive performance, the multiple-element revenue obligations within our contractual arrangements were generally not accounted for separately based on our limited experience and lack of evidence of fair value of the undelivered components.

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Product and service revenue for the three months ended June 30, 2011 increased \$295,000, or 12.7%, to \$2.6 million from \$2.3 million for the three months ended June 30, 2010. Despite a decrease in shipments quarter over quarter, the increase is primarily related to more revenue being recognized on the current year shipments as a result of contractual terms of the sale agreements. The prior year revenue did not include \$1.4 million of revenue on 67 units since certain contractual terms were not met. The change in revenue recorded on current quarter shipments was also partially offset by a decrease in revenue from prior period system shipments that have now been fully accreted into income. A portion of product and service revenue represents revenue associated with replacement parts or services not covered by service agreements or other similar types of sales where the Company has no continuing obligation after the parts are shipped or delivered or after services are rendered. This portion of product and service revenue is approximately \$733,000 and \$789,000, respectively for the three months ended June 30, 2011 and 2010.

In the product and service revenue category, during the three months ended June 30, 2011, we shipped 73 fuel cell systems as compared to 97 fuel cell systems shipped during the three months ended June 30, 2010. In the three months ended June 30, 2011, we recognized approximately \$2.3 million of revenue for products shipped or delivered or services rendered in the three months ended June 30, 2011, as compared to approximately \$1.6 million of revenue recognized in the three months ended June 30, 2010 for products shipped or delivered or services rendered in that quarter. Additionally, in the three months ended June 30, 2011, we recognized approximately \$290,000 of product and services revenue from fuel cell shipments made prior to 2011, whereas in the three months ended June 30, 2010, we recognized approximately \$731,000 of product and service revenue from fuel cell shipments made prior to 2010.

Product and service revenue for the six months ended June 30, 2011 increased \$2.1 million, or 38.7%, to \$7.6 million from \$5.5 million for the six months ended June 30, 2010. The increase is primarily related to an increase in current period system shipments partially offset by a decrease in revenue from prior period system shipments that have now been fully accreted into income. A portion of product and service revenue represents revenue associated with replacement parts or services not covered by service agreements or other similar types of sales where the Company has no continuing obligation after the parts are shipped or delivered or after services are rendered. This portion of product and service revenue is approximately \$1.4 million and \$1.3 million, respectively for the six months ended June 30, 2011 and 2010.

In the product and service revenue category, during the six months ended June 30, 2011, we shipped 217 fuel cell systems as compared to 201 fuel cell systems (191 were related to sales to end customers and 10 were delivered to Central Grocers under a lease arrangement whereby Plug Power retained title and ownership of the equipment until it subsequently sold the leases) shipped during the six months ended June 30, 2010. In the six months ended June 30, 2011, we recognized approximately \$6.8 million of revenue for products shipped or delivered or services rendered in the six months ended June 30, 2011, as compared to approximately \$3.9 million of revenue recognized in the six months ended June 30, 2010 for products shipped or delivered or services rendered in that quarter. Additionally, in the six months ended June 30, 2011, we recognized approximately \$764,000 of product and services revenue from fuel

cell shipments made prior to 2011, whereas in the six months ended June 30, 2010, we recognized approximately \$1.6 million of product and service revenue from fuel cell shipments made prior to 2010.

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*Research and development contract revenue.* Research and development contract revenue primarily relates to cost reimbursement research and development contracts associated with the development of PEM fuel cell technology. We generally share in the cost of these programs with our cost-sharing percentages generally ranging from 30% to 50% of total project costs. Revenue from time and material contracts is recognized on the basis of hours expended plus other reimbursable contract costs incurred during the period. Revenue from fixed fee contracts is recognized on the basis of percentage of completion. We expect to continue certain research and development contract work that is directly related to our current product development efforts.

Research and development contract revenue for the three months ended June 30, 2011 increased approximately \$785,000, or 100.9%, to \$1.6 million from \$778,000 for the three months ended June 30, 2010. The increase is primarily related to billings under programs that began in the second quarter of 2011.

Research and development contract revenue for the six months ended June 30, 2011 increased approximately \$362,000, or 18.2%, to \$2.3 million from \$2.0 million for the six months ended June 30, 2010. The increase is primarily related to billings under programs that began in the second quarter of 2011.

*Licensed technology revenue.* Licensed technology revenue relates to the sale of licensing rights and engineering assistance. This revenue is being amortized over a twelve month period.

Licensed technology revenue for the three and six months ended June 30, 2011 was approximately \$163,000 and \$326,000, respectively.

*Cost of product and service revenue.* Cost of product and service revenue includes the direct material and labor cost as well as an allocation of overhead costs that relate to the manufacturing of products we sell. In addition, cost of product and service revenue also includes the labor and material costs incurred for product maintenance, replacement parts and service under our contractual obligations.

Cost of product and service revenue for the three months ended June 30, 2011 increased approximately \$389,000, or 8.6%, to \$4.9 million from \$4.5 million for the three months ended June 30, 2010. There were 73 fuel cell system shipments for the three months ended June 30, 2011 as compared to 97 for the three months ended June 30, 2010. Despite the decrease in system shipments, the increase is primarily related to additional costs charged to cost of product and service revenue as a result of the restructuring of the Company to focus on commercial production of our product. Accordingly, some of these costs were included in research and development expense prior to this quarter, due to the Company's focus on research and development at that time.

Cost of product and service revenue for the six months ended June 30, 2011 increased approximately \$3.8 million, or 48.4%, to \$11.6 million from \$7.8 million for the six months ended June 30, 2010. The increase is primarily related to increased product and service fuel cell system shipments to end customers. There were 217 fuel cell system shipments for the six months ended June 30, 2011 as compared to 201 for the six months ended June 30, 2010. There were zero and 10 fuel cell system shipments being accounted for under a lease arrangement during the six months ended June 30, 2011 and 2010, respectively. The cost of leased units is recorded on the unaudited condensed consolidated balance sheets as investment in leased property. The increase also includes additional costs charged to cost of product and service revenue as a result of the restructuring of the Company to focus on commercial production of our product.

Accordingly, some of these costs were included in research and development expense prior to this quarter, due to the Company's focus on research and development at that time.

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*Cost of research and development contract revenue.* Cost of research and development contract revenue includes costs associated with research and development contracts including: cash and non-cash compensation and benefits for engineering and related support staff, fees paid to outside suppliers for subcontracted components and services, fees paid to consultants for services provided, materials and supplies used and other directly allocable general overhead costs allocated to specific research and development contracts.

Cost of research and development contract revenue for the three months ended June 30, 2011 increased approximately \$794,000, or 47.3%, to \$2.5 million from \$1.7 million for the three months ended June 30, 2010. This increase is primarily related to billings under programs that began in the second quarter of 2011.

Cost of research and development contract revenue for the six months ended June 30, 2011 increased approximately \$250,000, or 7.0%, to \$3.8 million from \$3.6 million for the six months ended June 30, 2010. This increase is primarily related to billings under programs that began in the second quarter of 2011.

*Research and development expense.* Research and development expense includes: materials to build development and prototype units, cash and non-cash compensation and benefits for the engineering and related staff, expenses for contract engineers, fees paid to outside suppliers for subcontracted components and services, fees paid to consultants for services provided, materials and supplies consumed, facility related costs such as computer and network services and other general overhead costs associated with our research and development activities.

Research and development expense for the three months ended June 30, 2011 decreased approximately \$3.3 million, or 74.8%, to \$1.1 million from \$4.4 million for the three months ended June 30, 2010. This decrease was primarily a result of the corporate restructuring plan announced in May 2010 to focus and align the Company on its GenDrive business as well as the wind-down of our operations in Plug Power Energy India Private Limited and Plug Power Canada Inc. The decrease was also coupled with our allocation of overhead costs charged to cost of product and service revenue as a result of increased sales and a focus on commercial production of our product. Accordingly, some of these costs were included in research and development expense in the prior year comparable quarter, due to the Company's focus on research and development at that time.

Research and development expense for the six months ended June 30, 2011 decreased approximately \$7.7 million, or 78.0%, to \$2.2 million from \$9.9 million for the three months ended June 30, 2010. This decrease was primarily a result of the corporate restructuring plan announced in May 2010 to focus and align the Company on its GenDrive business as well as the wind-down of our operations in Plug Power Energy India Private Limited and Plug Power Canada Inc. The decrease was also coupled with our allocation of overhead costs charged to cost of product and service revenue as a result of increased sales and a focus on commercial production of our product. Accordingly, some of these costs were included in research and development expense in the prior year comparable quarter, due to the Company's focus on research and development at that time.

*Selling, general and administrative expenses.* Selling, general and administrative expenses includes cash and non-cash compensation, benefits and related costs in support of our general corporate functions, including general management, finance and accounting, human resources, selling and marketing, information technology and legal services.



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Selling, general and administrative expenses for the three months ended June 30, 2011 decreased approximately \$6.7 million, or 63.2%, to \$3.9 million from \$10.5 million for the three months ended June 30, 2010. The decrease was primarily the result of the corporate restructuring plan announced in May 2010 to focus and align the Company on its GenDrive business as well as the wind-down of our operations in Plug Power Energy India Private Limited and Plug Power Canada Inc. The Company incurred \$6.4 million in selling, general and administrative expenses during the three months ended June 30, 2010 related to the restructuring.

Selling, general and administrative expenses for the six months ended June 30, 2011 decreased approximately \$7.0 million, or 48.3%, to \$7.4 million from \$14.4 million for the six months ended June 30, 2010. The decrease was primarily the result of the corporate restructuring plan announced in May 2010 to focus and align the Company on its GenDrive business as well as the wind-down of our operations in Plug Power Energy India Private Limited and Plug Power Canada Inc. The Company incurred \$6.4 million in selling, general and administrative expenses during the three months ended June 30, 2010 related to the restructuring.

*Amortization of intangible assets.* Amortization of intangible assets represents the amortization associated with the Company's acquired identifiable intangible assets from Plug Power Canada Inc., including acquired technology and customer relationships, which are being amortized over eight years.

Amortization of intangible assets increased to approximately \$588,000 for the three months ended June 30, 2011, compared to approximately \$567,000 for the three months ended June 30, 2010. The increase is related to foreign currency fluctuations.

Amortization of intangible assets increased to approximately \$1.2 million for the six months ended June 30, 2011, compared to approximately \$1.1 million for the six months ended June 30, 2010. The increase is related to foreign currency fluctuations.

*Interest and other income and net realized losses from available-for-sale securities.* Interest and other income and net realized losses from available-for-sale securities consists primarily of interest earned on our cash, cash equivalents, available-for-sale securities, trading securities and other income.

Interest and other income and net realized losses from available-for-sale securities for the three months ended June 30, 2011 decreased approximately \$181,000, or 67.5%, to \$87,000 from \$269,000 for the three months ended June 30, 2010. The decrease is primarily related to the sale of trading securities and available-for-sale securities during 2011 and 2010. Also contributing were lower cash balances coupled with lower yields on our investments due to a declining interest rate environment. Interest income on trading securities and available-for-sale securities for the three months ended June 30, 2010 was approximately \$76,000 and \$32,000, respectively. Rental income for the three months ended June 30, 2011 and 2010 was approximately \$87,000 and \$92,000, respectively.





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Interest and other income and net realized losses from available-for-sale securities for the six months ended June 30, 2011 decreased approximately \$490,000, or 80.2%, to \$121,000 from \$611,000 for the six months ended June 30, 2010. The decrease is primarily related to the sale of trading securities and available-for-sale securities during 2011 and 2010. Also contributing were lower cash balances coupled with lower yields on our investments due to a declining interest rate environment and decreased rental income received from our Latham facility. Interest income on trading securities and available-for-sale securities for the six months ended June 30, 2011 was approximately \$0 and \$5,000, respectively. Interest income on trading securities and available-for-sale securities for the six months ended June 30, 2010 was approximately \$253,000 and \$108,000, respectively. Rental income for the six months ended June 30, 2011 and 2010 was approximately \$138,000 and \$180,000, respectively.

*Change in fair value of warrant liability.* We account for common stock warrants in accordance with applicable accounting guidance provided in ASC 815, Derivatives and Hedging Contracts in Entity's Own Equity, as either derivative liabilities or as equity instruments depending on the specific terms of the warrant agreement. Derivative warrant liabilities are valued using the Black-Scholes pricing model at the date of initial issuance and each subsequent balance sheet date. Changes in the fair value of the warrants are reflected in the condensed consolidated statement of operations as change in the fair value of warrant liability.

The change in fair value of warrant liability for the three and six months ended June 30, 2011 resulted in income of \$1.8 million and \$1.8 million, respectively due to a decrease in the Company's common stock share price and changes in volatility of our common stock during the period of warrant issuance through June 30, 2011.

*Gain on auction rate debt securities repurchase agreement.* In December 2008, the Company entered into a Repurchase Agreement with the third-party lender such that the Company may require the third-party lender to repurchase the auction rate debt securities pledged as collateral for a Credit Line Agreement, at their par value, from June 30, 2010 through July 2, 2012. As a result of the Repurchase Agreement entered into with a third party lender in December 2008, the Company reclassified the auction rate debt securities from available-for-sale securities to trading securities. The Company elected to record this item at its fair value in accordance with FASB ASC No. 825-10-25, Fair Value Option. The third-party lender repurchased the securities on July 1, 2010 in accordance with the Repurchase Agreement. The corresponding Credit Line Agreement was paid in full on July 1, 2010 in conjunction with the repurchase of the auction rate debt securities. The change in fair value of approximately \$2.5 million and \$3.1 million during the three and six months ended June 30, 2010 was recorded as a loss in the condensed consolidated statements of operations which is offset by the change in fair value of the auction rate debt securities held as collateral of approximately \$2.5 million and \$3.1 million that is recorded as a gain in the condensed consolidated statements of operations for the three and six months ended June 30, 2010.

*Interest and other expense and foreign currency gain (loss).* Interest and other expense and foreign currency gain (loss) consists of interest on repayable government assistance amounts related to the activities of Cellex and General Hydrogen, interest related to the Credit Line Agreement and long term debt, and foreign currency exchange gain (loss).

Interest and other expense and foreign currency gain (loss) for the three months ended June 30, 2011 and 2010 was approximately \$5,000 and (\$177,000), respectively. Interest expense related to the Credit Line Agreement was approximately \$0 and \$139,000, respectively, for the three months ended June 30, 2011 and 2010.

Interest and other expense and foreign currency gain (loss) for the six months ended June 30, 2011 and 2010 was approximately \$20,000 and (\$373,000), respectively. Interest expense related to the Credit Line Agreement was approximately \$0 and \$296,000, respectively, for the six months ended June 30, 2011 and 2010.

*Income taxes.* We did not report a benefit for federal and state income taxes in the condensed consolidated financial statements for the three and six months ended June 30, 2011 and 2010 as the deferred tax asset generated from our net operating loss has been offset by a full valuation allowance because it is more likely than not that the tax benefits of the net operating loss carry forward will not be realized.

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**Liquidity and Capital Resources**

We have experienced recurring operating losses and as of June 30, 2011, we had an accumulated deficit of approximately \$741.3 million. Substantially all of our losses resulted from costs incurred in connection with our operating expenses, research and development expenses and from general and administrative costs associated with our operations. To date, we have funded our operations primarily through private and public offerings of our common and preferred stock, our line of credit and maturities and sales of our available-for-sale securities. We anticipate incurring substantial additional losses and may never achieve profitability. Our May 2010 restructuring plan, which involves focusing on our GenDrive business and consolidating our operations into our Latham, New York facility, is expected to reduce these losses going forward. We anticipate that the restructuring will reduce our annual operating expenses by approximately \$12 to \$15 million annually starting in 2011.

Including the receipt of \$20.2 million in net proceeds from the capital raise completed in the quarter ended June 30, 2011, we had approximately \$27.2 million of cash and cash equivalents at June 30, 2011 to fund our future operations. Additionally, subsequent to June 30, 2011, we entered into a revolving credit facility arrangement with Silicon Valley Bank (SVB) providing availability to an additional \$7 million to support working capital needs. See the below discussion for additional information regarding the revolving credit facility. We believe that our current cash, cash equivalents and cash generated from future sales, in conjunction with the availability of the credit facility, will provide sufficient liquidity to fund operations through the end of 2012. This projection is based on our current expectations regarding product sales, cost structure, cash burn rate and operating assumptions (including those specified in the May 2010 restructuring plan). In the event that our operating expenses are higher than anticipated or the gross margins and shipments of our GenDrive products do not increase as we expect, we may be required to implement contingency plans within our control to conserve and/or enhance our liquidity to meet operating needs. Such plans include: our ability to further reduce discretionary expenses, monetize our real estate assets through a sale-leaseback arrangement and obtain additional funding from licensing the use of our technologies. Our cash requirements relate primarily to working capital needed to operate and grow our business, including funding operating expenses, growth in inventory to support both shipments of new units and servicing the installed base, and continued development and expansion of our products. Our ability to achieve profitability, future liquidity needs and capital requirements will depend upon numerous factors, including the timing and quantity of product orders and shipments, the timing and amount of our operating expenses; the timing and costs of working capital needs; the timing and costs of building a sales base; the timing and costs of developing marketing and distribution channels; the timing and costs of product service requirements; the timing and costs of hiring and training product staff; the extent to which our products gain market acceptance; the timing and costs of product development and introductions; the extent of our ongoing and any new research and development programs; and changes in our strategy or our planned activities. As a result, we can provide no assurance that we will be able to fund our operations beyond 2012 without additional external financing. If additional funding is required beyond 2012, alternatives the Company would consider include equity or debt financings, strategic alliances or joint ventures. Under such conditions, if we are unable to obtain additional capital prior to the end of 2012, we may not be able to sustain our future operations into 2013 and may be required to delay, reduce and/or cease our operations and/or seek bankruptcy protection. We cannot assure you that any necessary additional financing will be available on terms favorable to us, or at all. Given the difficult current economic environment, we believe that it could be difficult to raise additional funds and there can be no assurance as to the availability of additional financing or the terms upon which additional financing may be available. Additionally, even if we raise sufficient capital through equity or debt financing, strategic alliances or otherwise, there can be no assurances that the revenue or capital infusion will be sufficient to enable us to develop our business to a level where it will be profitable or generate positive cash flow. If we raise additional funds through the issuance of equity or

convertible debt securities, the percentage ownership of our stockholders could be significantly diluted, and these newly issued securities may have rights, preferences or privileges senior to those of existing stockholders. If we incur additional debt, a substantial portion of our operating cash flow may be dedicated to the payment of principal and interest on such indebtedness, thus limiting funds available for our business activities. The terms of any debt securities issued could also impose significant restrictions on our operations. Broad market and industry factors may seriously harm the market price of our common stock, regardless of our operating performance, and may adversely impact our ability to raise additional funds. If we raise additional funds through collaborations and/or licensing arrangements, we might be required to relinquish significant rights to our technologies, or grant licenses on terms that are not favorable to us.

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Several key indicators of liquidity are summarized in the following table:

| <b>(in thousands)</b>  | <b>Six months<br/>ended or at<br/>June 30,<br/>2011</b> | <b>Six months<br/>ended or at<br/>June 30,<br/>2010</b> | <b>Year<br/>ended or at<br/>December 31,<br/>2010</b> |
|--|---|---|---|
| Cash and cash equivalents at end of period                         | \$ 27,151   | \$ 3,789  | \$ 10,955   |
| Available-for-sale securities at end of period                     | -   | 32,009  | 10,403  |
| Trading securities – auction rate debt securities at end of period | -   | 22,607  | -   |
| Borrowings under line of credit at end of period                   | -   | 25,450  | -   |
| Working capital at end of period                                   | 30,625  | 33,005  | 23,659  |
| Net loss   | 13,996  | 29,075  | 46,959  |
| Net cash used in operating activities                              | 13,172  | 24,504  | 40,770  |
| Purchase of property, plant and equipment                          | 1,065   | 1,215   | 1,100   |

Effective July 1, 2010, all auction rate debt securities were repurchased at par by the third-party lender holding the collateral under the Repurchase Agreement which resulted in a corresponding reduction in amounts outstanding and the extinguishment of the Credit Line Agreement (See Note 9, Credit Line Agreement and Auction Rate Debt Securities Repurchase Agreement, of the condensed consolidated financial statements).

Our cash requirements depend on numerous factors, including completion of our product development activities, ability to commercialize our fuel cell systems, market acceptance of our systems and other factors. As of June 30, 2011, we had cash and cash equivalents of \$27.2 million and working capital of \$30.6 million.

On August 9, 2011, the Company entered into a loan and security agreement (the Loan Agreement) with SVB providing that in return for paying an up front fee of \$52,250 the Company has access to up to \$7 million of financing in the form of (i) revolving loans, (ii) letters of credit, (iii) foreign exchange contracts and (iii) cash management services such as merchant services, direct deposit of payroll, business credit card and check cashing services. Advances under the Loan Agreement cannot exceed a borrowing base limit calculated using (A) an advanced rate of 80% on the Company's eligible accounts and (B) an advanced rate of 25% on the Company's eligible inventory (subject to a limit of the lesser of (a) \$2 million and (b) 30% of all outstanding advances), subject to certain reserves established by SVB and other adjustments. The aggregate amount of outstanding letters of credit, foreign exchange contract financing and amounts utilized for cash management services cannot exceed a sublimit of \$750,000 in the aggregate at any time.

Interest on advances of credit under the Loan Agreement for: (i) financed accounts receivables is equal to (a) SVB's prime rate, which is currently 3.25% per annum, plus 3.0% per annum or (b) if the Company maintains during any month at all times an adjusted quick ratio of 2.0 to 1.0, then SVB's prime rate plus 1.50% per annum; and (ii) financed

inventory is equal to (a) SVB's prime rate plus 5.25% per annum or (b) if the Company maintains during any month at all times an adjusted quick ratio of 2.0 to 1.0, then SVB's prime rate plus 3.25% per annum. The minimum monthly interest charge is \$4,000 per month. The Loan Agreement will be used by the Company to support its current working capital needs.

The Loan Agreement is secured by substantially all of the Company's properties, rights and assets, including substantially all of its equipment, inventory, receivables, intellectual property and general intangibles.

The Loan Agreement includes customary representations and warranties for credit facilities of this type. In addition, the Loan Agreement contains a number of covenants that will impose significant operating and financial restrictions on the Company's operations, including restrictions pertaining to, among other things: (i) the condition of inventory; (ii) maintenance of an adjusted quick ratio of at least 1.50 to 1.0; (iii) intellectual property right protection and registration; (iv) dispositions of assets; (v) changes in business, management, ownership or business locations; (vi) mergers, consolidations or acquisitions; (vii) incurrence or assumption of indebtedness; (viii) incurrence of liens on any of the Company's property; (ix) paying dividends or making distributions on, or redemptions, retirements or repurchases of, capital stock; (x) transactions with affiliates; and (xi) payments on or amendments to subordinated debt.

The Loan Agreement also contains events of default customary for credit facilities of this type with, in some cases, corresponding grace periods, including, (i) failure to pay any principal or interest when due, (ii) failure to comply with covenants, (iii) any material adverse change occurring, (iv) an attachment, levy or restraint on our business, (v) certain bankruptcy or insolvency events, (vi) payment defaults relating to, or acceleration of, other indebtedness or that could result in a material adverse change to the Company's business, (vii) the Company or its subsidiaries becoming subject to judgments, claims or liabilities in an amount individually or in aggregate in excess of \$150,000.00, (viii) any misrepresentations, or (viii) any revocation, invalidation, breach or invalidation of any subordinated debt.

The Loan Agreement will expire on August 8, 2012. The Loan Agreement may be terminated prior to August 8, 2012; however, the Company would be required to pay a \$70,000 early termination fee in connection with a termination (i) by the Company for any reason or (ii) by SVB upon notice and after the occurrence and during the continuance of an event of default.

During the six months ended June 30, 2011, cash used for operating activities was \$13.2 million, consisting primarily of a net loss of \$14.0 million offset, in part, by non-cash expenses in the amount of \$1.8 million, including \$2.2 million for amortization and depreciation, \$1.0 million for stock based compensation, \$309,000 for loss on disposal of property, plant and equipment and a \$1.8 million reduction for the change in fair value of warranty liability. Cash provided by investing activities for the six months ended June 30, 2011 was \$9.4 million, consisting primarily of \$10.4 million of maturities (net of purchases) of available-for-sale securities offset by \$1.1 million used to purchase property, plant and equipment. Cash provided by financing activities for the six months ended June 30, 2011 was approximately \$20.0 million consisting primarily of \$22.0 million in proceeds from the public offering offset by \$1.9 million in public offering costs, \$158,000 for the purchase of treasury stock and \$10,000 in principal payments on long-term debt.

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**Income Taxes**

Under Internal Revenue Code (IRC) Section 382, the use of net operating loss carryforwards, capital loss carryforwards and other tax credit carryforwards may be limited if a change in ownership of a company occurs. If it is determined that due to transactions involving the Company's shares owned by its five percent stockholders a change of ownership has occurred under the provisions of IRC Section 382, the Company's net operating loss, capital loss and tax credit carryforwards could be subject to significant IRC Section 382 limitations.

At December 31, 2010, the Company had approximately \$573.4 million in Federal and state net operating loss carryforwards and \$15.5 million in Federal research and experimentation tax credit carryforwards (of which \$5.7 million represents an uncertain tax position), which resulted in \$217.9 million and \$9.8 million, respectively, in gross deferred tax assets that are recorded on the Company's balance sheet at December 31, 2010. These gross deferred tax assets are offset by a full valuation allowance, resulting in net deferred tax assets of zero. During 2011, as a result of certain equity transactions by five percent stockholders, an ownership change occurred for IRC Section 382 purposes. As a result of the ownership change, approximately \$22 to \$60 million of the Company's Federal and state net operating loss and recognized built in loss carryforwards are available. The remaining net operating loss and recognized built in loss carryforwards will expire prior to utilization. As a result, the Company's gross deferred tax asset and related valuation allowance will decrease by approximately \$195 to \$209 million. Additionally, the \$15 million of Federal research and experimentation tax credit carryforwards will now expire prior to utilization, resulting in the Company's gross deferred tax asset and related valuation allowance decreasing by \$9.8 million. These decreases have no impact on the Company's current financial position, results of operations, or cash flows because of the full valuation allowance.

The adoption of the IRC Section 1374 approach prescribed in Notice 2003-65 with respect to the ownership change for the Company resulted in Net Unrealized Built in Losses which should result in Recognized Built in Losses during the five year recognition period of approximately \$6.5 to \$34 million. This will translate into unfavorable book to tax add backs in the Company's 2011 to 2016 U.S. Corporate Income Tax returns that will generate a gross deferred tax liability at the ownership change date of approximately \$2.5 to \$13 million and a corresponding reduction to the valuation allowance. This gross deferred tax liability will offset certain existing gross deferred tax assets (i.e. capitalized research expense). This has no impact on the Company's current financial position, results of operations, or cash flows because of the full valuation allowance.

The Company is in the process of completing a formal IRC Section 382 study to determine the actual amount of the Federal and state net operating losses available and the actual amount of Built in Losses required to be recognized during the five year recognition period.

## Critical Accounting Policies and Estimates

Management's discussion and analysis of our financial condition and results of operations are based upon our consolidated financial statements, which have been prepared in accordance with U.S. generally accepted accounting principles. The preparation of these consolidated financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses, and related disclosure of contingent assets and liabilities at the date of and during the reporting period. On an on-going basis, we evaluate our estimates and judgments, including those related to bad debts, inventories, intangible assets, equity investments, unbilled revenue, income taxes and contingencies. We base our estimates and judgments on historical experience and on various other factors and assumptions that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

We refer to the policies and estimates set forth in the section "Management's Discussion and Analysis of Financial Condition and Results of Operations—Critical Accounting Estimates" of our Annual Report on Form 10-K for the fiscal year ended December 31, 2010. The following material change or modification has been made to the policies since December 31, 2010:

On May 31, 2011, the Company granted 7,128,563 warrants as part of an underwritten public offering. We account for common stock warrants in accordance with applicable accounting guidance provided in ASC 815, Derivatives and Hedging—Contracts in Entity's Own Equity, as either derivative liabilities or as equity instruments depending on the specific terms of the warrant agreement. In compliance with applicable securities law, registered common stock warrants that require the issuance of registered shares upon exercise and do not sufficiently preclude an implied right to cash settlement are accounted for as derivative liabilities. We classify these derivative warrant liabilities on the condensed consolidated balance sheets as a long term liability, which is revalued at each balance sheet date subsequent to the initial issuance. We use the Black-Scholes pricing model to value the derivative warrant liability. The Black-Scholes pricing model, which is based, in part, upon unobservable inputs for which there is little or no market data, requires the Company to develop its own assumptions. The Company used the following assumptions for its common stock warrants. The risk-free interest rate for May 31, 2011 (issuance date) and June 30, 2011 were .75% and .56%, respectively. The volatility of the market price of the Company's common stock for May 31, 2011 (issuance date) and June 30, 2011 were 94.4% and 87.6%, respectively. The expected average term of the warrant used for both periods was 2.5 years. There was no expected dividend yield for the warrants granted. As a result, if factors change and different assumptions are used, the warrant liability and the change in estimated fair value could be materially different. Changes in the fair value of the warrants are reflected in the condensed consolidated statement of operations as change in fair value of warrant liability.



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**Recent Accounting Pronouncements**

A discussion of recent accounting pronouncements is included in Note 2, Basis of Presentation, of the unaudited condensed consolidated financial statements in Part I, Item 1 of this Form 10-Q.

**Item 3 – Quantitative and Qualitative Disclosures about Market Risk**

We generally invest our excess cash in government, government backed and interest-bearing investment-grade securities that we generally hold for the duration of the term of the respective instrument. We do not utilize derivative financial instruments, derivative commodity instruments or other market risk sensitive instruments, positions or transactions in any material fashion. Accordingly, we believe that, while the investment-grade securities we may hold are subject to changes in the financial standing of the issuer of such securities, we are not subject to any material risks arising from changes in interest rates, foreign currency exchange rates, commodity prices, equity prices or other market changes that affect market risk sensitive instruments.

As of December 31, 2010, all of the Company's operations have been relocated to the United States. A portion of the Company's total financial performance was attributable to residual operations from both Canada and India. Our exposure to changes in foreign currency rates primarily related from short-term inter-company transactions with our previous Canadian and Indian subsidiaries and from client receivables in different currencies. As exchange rates vary, the Company's results can be materially affected.

In addition, the Company may source inventory among its worldwide suppliers. This practice can give rise to foreign exchange risk resulting from the varying cost of inventory to the receiving location as well as from the revaluation of intercompany balances. The Company mitigates this risk through local sourcing efforts.

**Item 4 – Controls and Procedures**

(a) Evaluation of disclosure controls and procedures

As required by Rule 13a-15(b) under the Securities and Exchange Act of 1934, our management, including the Chief Executive Officer and Chief Financial Officer, conducted an evaluation as of the end of the period covered by this

report, of the effectiveness of the Company's disclosure controls and procedures as defined in Exchange Act Rule 13a-15(e). Based on that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that the Company's disclosure controls and procedures were effective at a reasonable assurance level as of the end of the period covered by this report.

(b) Changes in internal controls over financial reporting

As required by Rule 13a-15(d) under the Securities Exchange Act of 1934, our management, including the Chief Executive Officer and Chief Financial Officer, also conducted an evaluation of the Company's internal control over financial reporting to determine whether any changes occurred during the period covered by this report that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting. Based on that evaluation, there has been no such change during the period covered by this report.

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**PART II. OTHER INFORMATION**

**Item 1 – Legal Proceedings**

On May 26, 2011, Plug Power Inc. was served with a complaint that was filed by Alpha Equities Ltd. on May 6, 2011 in the Supreme Court of British Columbia against Plug Power Inc. and Plug Power Canada Inc. alleging breach of contract related to Plug Power Canada Inc.'s lease of premises in Richmond, British Columbia. The plaintiff is seeking damages relating to the restoration of the premises and unpaid rent. On July 28, 2011, Plug Power Inc. submitted a Response to plaintiff's Civil Claim and we intend to vigorously defend this action. Accordingly, while there continue to be on-going discussions between the parties, the Company believes it is too early to determine that 1) there is likely exposure to an adverse outcome; and 2) whether or not the probability of an adverse outcome is more than remote.

**Item 1A - Risk Factors**

Part II, Item 1A, "Risk Factors" of our most recently filed Annual Report on Form 10-K with the Securities and Exchange Commission, filed on March 31, 2011, sets forth information relating to important risks and uncertainties that could materially adversely affect our business, financial condition and operating results. Except to the extent that information disclosed elsewhere in this Quarterly Report on Form 10-Q relates to such risk factors (including, without limitation, the matters described in Part I, Item 2, "Management's Discussion and Analysis of Financial Condition and Results of Operations"), there have been no material changes to our risk factors disclosed in our most recently filed Annual Report on Form 10-K. However, those risk factors continue to be relevant to an understanding of our business, financial condition and operating results and, accordingly, you should review and consider such risk factors in making any investment decision with respect to our securities.

**Item 2 - Unregistered Sales of Equity Securities and Use of Proceeds**

(a) During the three months ended June 30, 2011, we issued 121,068 shares of our common stock in connection with matching contributions under our 401(k) Savings & Retirement Plan. The issuance of these shares is exempt from

registration under Section 3(a)(2) of the Securities Act of 1933, as amended.

(b) Not applicable.

(c) None.

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**Item 3 – Defaults Upon Senior Securities**

None.

**Item 4 – Removed and Reserved**

None.

**Item 5 – Other Information**

(a) None.

(b) None.

**Item 6 – Exhibits**

|      |   |
|------|---|
| 3.1  | Amended and Restated Certificate of Incorporation of Plug Power Inc. (1)  |
| 3.2  | Third Amended and Restated By-laws of Plug Power Inc. (3)   |
| 3.3  | Certificate of Amendment to Amended and Restated Certificate of Incorporation of Plug Power Inc. (1)  |
| 3.4  | Certificate of Designations, Preferences and Rights of a Series of Preferred Stock of Plug Power Inc. classifying and designating the Series A Junior Participating Cumulative Preferred Stock. (2) |
| 3.5  | Second Certificate of Amendment of Amended and Restated Certificate of Incorporation of Plug Power Inc. (5)   |
| 4.1  | Form of Warrant (6)   |
| 10.1 | 2011 Stock Option and Incentive Plan (4)  |
| 10.2 | Form of Incentive Stock Option Agreement (7)  |

- 10.3 Form of Non-Qualified Stock Option Agreement for Employees (7)
- 10.4 Form of Non-Qualified Stock Option Agreement for Independent Directors (7)
- 10.5 Form of Restricted Stock Award Agreement (7)
- 10.6 Loan and Security Agreement, dated as of August 9, 2011, by and between Plug Power Inc. and Silicon Valley Bank (7)

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- 31.1 and 31.2 Certifications pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (7)
- 32.1 and 32.2 Certifications pursuant to 18 U.S.C. Section 1350, adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002. (7)
- 101.INS\* XBRL Instance Document (7)
- 101.SCH\* XBRL Taxonomy Extension Schema Document (7)
- 101.CAL\* XBRL Taxonomy Extension Calculation Linkbase Document (7)
- 101.DEF\* XBRL Taxonomy Extension Definition Linkbase Document (7)
- 101.LAB\* XBRL Taxonomy Extension Labels Linkbase Document (7)
- 101.PRE\* XBRL Taxonomy Extension Presentation Linkbase Document (7)
- (1) Incorporated by reference from the Company's Annual Report on Form 10-K for the period ended December 31, 2008.
- (2) Incorporated by reference from the Company's Registration Statement on Form 8-A dated June 24, 2009.
- (3) Incorporated by reference from the Company's Current Report on Form 8-K dated October 28, 2009.
- (4) Incorporated by reference from the Company's Current Report on Form 8-K dated May 12, 2011.
- (5) Incorporated by reference from the Company's Current Report on Form 8-K dated May 19, 2011.
- (6) Incorporated by reference from the Company's Current Report on Form 8-K dated May 24, 2011.

(7) Furnished herewith

\* Submitted electronically herewith. Attached as Exhibit 101 are the following materials from the Company's Quarterly Report on Form 10-Q for the quarter ended June 30, 2011, formatted in eXtensible Business Reporting Language (XBRL) and tagged as blocks of text: (i) Condensed Consolidated Balance Sheets at June 30, 2011 and December 31, 2010; (ii) Condensed Consolidated Statements of Operations for the Three and Six Months Ended June 30, 2011 and 2010; (iii) Condensed Consolidated Statements of Cash Flows for the Six Months Ended June 30, 2011 and 2010; and (iv) related notes, tagged as blocks of text. Pursuant to Rule 406T of Regulation S-T this data is deemed not filed or part of a registration statement or prospectus for purposes of sections 11 or 12 of the Securities Act of 1933, as amended, is deemed not filed for purposes of section 18 of the Securities and Exchange Act of 1934, as amended, and otherwise is not subject to liability under these sections.



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**Signatures**

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

**PLUG POWER INC.**

Date: August 11, 2011

By: /s/ Andrew Marsh  
Andrew Marsh  
President, Chief Executive Officer  
and Director (Principal Executive  
Officer)

Date: August 11, 2011

By: /s/ Gerald A. Anderson  
Gerald A. Anderson  
Chief Financial Officer (Principal  
Financial Officer)

