

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 March 31, 2011

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
Commission file number 0-12627

Global Clean Energy Holdings, Inc.

(Exact name of registrant as specified in its charter)

DELAWARE

87-0407858

(State or other jurisdiction of incorporation or organization)

(IRS Employer Identification No.)

100 W. Broadway, Suite 650
Long Beach, California 90802

(Address of principal executive offices)

(310) 641-4234

(Registrant's telephone number)

(Former Name or Former Address, if Changed Since Last Report)

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 during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer or a smaller reporting company.

Large accelerated filer

Accelerated Filer

Non-accelerated filer

Smaller reporting company

Indicate the number of shares outstanding of each of the registrant's classes of common stock, as of the latest practicable date: As of May 6, 2011, the issuer had 271,089,478 shares of common stock issued and outstanding.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

Yes No

GLOBAL CLEAN ENERGY HOLDINGS, INC.

For the quarter ended March 31, 2011

FORM 10-Q

TABLE OF CONTENTS

PART I		1
	ITEM 1. FINANCIAL STATEMENTS.	1
	ITEM 2. MANAGERMENTS' DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS.	15
	ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK.	20
	ITEM 4. CONTROLS AND PROCEDURES.	20
PART II		20
	ITEM 1. LEGAL PROCEEDINGS.	20
	ITEM 1A. RISK FACTORS.	21
	ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS.	21
	ITEM 3. DEFAULTS UPON SENIOR SECURITIES.	21
	ITEM 4. REMOVED AND RESERVED.	21
	ITEM 5. OTHER INFORMATION	21
	ITEM 6. EXHIBITS	21

PART I

ITEM 1. FINANCIAL STATEMENTS.

GLOBAL CLEAN ENERGY HOLDINGS, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED BALANCE SHEETS
(Unaudited)

	<u>March 31,</u> <u>2011</u>	<u>December 31,</u> <u>2010</u>
ASSETS		
CURRENT ASSETS		
Cash and cash equivalents	\$ 1,491,757	\$ 1,096,618
Accounts receivable	17,788	6,428
Inventory	12,130	11,706
Other current assets	297,740	248,711
Total Current Assets	<u>1,819,415</u>	<u>1,363,463</u>
PROPERTY AND EQUIPMENT	9,040,739	8,103,537
INVESTMENT HELD FOR SALE	285,790	292,350
DEFERRED GROWING COST	1,774,788	1,244,419
OTHER NONCURRENT ASSETS	25,238	11,243
TOTAL ASSETS	<u>\$ 12,945,970</u>	<u>\$ 11,015,012</u>
LIABILITIES AND EQUITY (DEFICIT)		
CURRENT LIABILITIES		
Accounts payable	\$ 1,801,299	\$ 1,747,788
Accrued payroll and payroll taxes	1,728,635	1,776,465
Accrued interest payable	1,269,502	1,154,943
Accrued return on noncontrolling interest	1,754,879	1,452,744
Capital lease liability	49,797	47,139
Notes payable to shareholders	26,000	26,000
Convertible notes payable	193,200	193,200
Total Current Liabilities	<u>6,823,312</u>	<u>6,398,279</u>
LONG-TERM LIABILITIES		
Long term capital lease liability	89,413	98,372
Convertible notes payable	567,000	567,000
Mortgage notes payable	2,793,934	2,793,934
Total Long Term Liabilities	<u>3,450,347</u>	<u>3,459,306</u>
EQUITY (DEFICIT)		
Preferred stock - \$0.001 par value; 50,000,000 shares authorized Series B, convertible; 13,000 shares issued (aggregate liquidation preference of \$1,300,000)	13	13
Common stock, \$0.001 par value; 500,000,000 shares authorized; 270,464,478 and shares issued and outstanding, each period	270,464	270,464
Additional paid-in capital	23,628,818	23,580,630
Accumulated deficit	(27,137,906)	(26,933,430)
Accumulated other comprehensive loss	(2,600)	(2,195)
Total Global Clean Energy Holdings, Inc. Stockholders' Deficit	<u>(3,241,211)</u>	<u>(3,084,518)</u>
Noncontrolling interests	5,913,522	4,241,945
Total equity (deficit)	<u>2,672,311</u>	<u>1,157,427</u>
TOTAL LIABILITIES AND EQUITY (DEFICIT)	<u>\$ 12,945,970</u>	<u>\$ 11,015,012</u>

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

GLOBAL CLEAN ENERGY HOLDINGS, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS
(Unaudited)

	For the Three Months Ended	
	March 31,	
	2011	2010
Revenue	\$ 260,224	\$ 132,236
Operating Expenses		
General and administrative	570,529	761,659
Plantation operating costs	108,231	275,008
Total Operating Expenses	<u>678,760</u>	<u>1,036,667</u>
Loss from Operations	<u>(418,536)</u>	<u>(904,431)</u>
Other Income (Expenses)		
Interest income	19	622
Interest expense	(139,796)	(92,430)
Gain on settlement of liabilities	-	195,272
Foreign currency transaction adjustments	2,440	(7,555)
Total Other Income (Expenses)	<u>(137,337)</u>	<u>95,909</u>
Loss from Continuing Operations	(555,873)	(808,522)
Income (Loss) from Discontinued Operations	<u>(22,793)</u>	<u>24,847</u>
Net Loss	(578,666)	(783,675)
Net Loss Attributable to the Noncontrolling Interest	<u>(374,190)</u>	<u>(401,297)</u>
Net Loss attributable to Global Clean Energy Holdings, Inc.	<u>\$ (204,476)</u>	<u>\$ (382,378)</u>
Amounts attributable to Global Clean Energy Holdings, Inc. common shareholders:		
Loss from Continuing Operations	\$ (181,683)	\$ (407,225)
Income (Loss) from Discontinued Operations	<u>(22,793)</u>	<u>24,847</u>
Net Loss	<u>\$ (204,476)</u>	<u>\$ (382,378)</u>
Basic and Diluted Loss per Common Share:		
Loss from Continuing Operations	\$ (0.0007)	\$ (0.0017)
Income (Loss) from Discontinued Operations	<u>(0.0001)</u>	<u>0.0001</u>
Net Loss per Common Share	<u>\$ (0.0008)</u>	<u>\$ (0.0016)</u>
Basic and Diluted Weighted-Average Common Shares Outstanding	<u>270,464,478</u>	<u>237,474,635</u>

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

GLOBAL CLEAN ENERGY HOLDINGS, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS
(Unaudited)

	For the Three Months Ended	
	March 31,	
	2011	2010
Cash Flows From Operating Activities		
Net loss	\$ (578,666)	\$ (783,675)
Adjustments to reconcile net loss to net cash used in operating activities:		
Foreign currency transaction gain	(2,440)	(17,292)
Gain on settlement of liabilities	-	(195,272)
Share-based compensation	48,188	16,990
Depreciation	66,241	54,160
Changes in operating assets and liabilities:		
Accounts receivable	(11,008)	(13,675)
Inventory	(424)	(46,170)
Other current assets	(41,763)	(12,537)
Deferred growing costs	(493,774)	(250,911)
Accounts payable and accrued expenses	119,918	429,693
Net Cash Used in Operating Activities	<u>(893,728)</u>	<u>(818,689)</u>
Cash Flows From Investing Activities		
Purchase of land	-	(715,658)
Plantation development costs	(606,558)	(66,789)
Purchase of property and equipment	(164,900)	(63,155)
Net Cash Used in Investing Activities	<u>(771,458)</u>	<u>(845,602)</u>
Cash Flows From Financing Activities		
Proceeds from issuance of common stock for cash	-	500,000
Proceeds from issuance of preferred membership in GCE Mexico I, LLC	2,051,102	704,652
Proceeds from notes payable	-	742,652
Payments on notes payable	(11,448)	(477,016)
Proceeds from convertible notes payable	-	567,000
Net Cash Provided by Financing Activities	<u>2,039,654</u>	<u>2,037,288</u>
Effect of exchange rate changes on cash	<u>20,671</u>	<u>19,954</u>
Net Increase in Cash and Cash Equivalents	395,139	392,951
Cash and Cash Equivalents at Beginning of Period	<u>1,096,618</u>	<u>833,584</u>
Cash and Cash Equivalents at End of Period	<u>\$ 1,491,757</u>	<u>\$ 1,226,535</u>
Supplemental Disclosures of Cash Flow Information:		
Cash paid for interest	\$ 30,624	\$ 83,398
Noncash Investing and Financing Activities:		
Accrual of return on noncontrolling interest	302,135	167,839

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

GLOBAL CLEAN ENERGY HOLDINGS, INC. AND SUBSIDIARIES
Notes to Unaudited Condensed Consolidated Financial Statements

Note 1 – History and Basis of Presentation

History

This company was incorporated under the laws of the State of Utah on November 20, 1991. Effective as of August 6, 1992, the Company merged with and into WPI Pharmaceutical, Inc., a Utah corporation, pursuant to which WPI Pharmaceuticals, Inc. was the surviving corporation. Pursuant to the merger, the name of the surviving corporation was changed to Medical Discoveries, Inc. (“MDI”). MDI’s initial business purpose was the research and development of an anti-infection drug. In 2005, MDI acquired the assets and business associated with the SaveCream technology and carried on the research and development of this drug candidate. MDI made the decision in 2007 to discontinue further development of its drug candidates and sell the technologies.

On September 7, 2007, MDI entered into a share exchange agreement pursuant to which it acquired all of the outstanding ownership interests in Global Clean Energy Holdings, LLC, discussed further in Note 3 Global Clean Energy Holdings, LLC was an entity that had certain trade secrets, know-how, business plans, term sheets, business relationships, and other information relating to the start-up of a business related to the cultivation and production of seed oil from the seed of the Jatropha plant. With this transaction, MDI commenced the research and development of a business whose purpose is to provide feedstock oil intended for the production of bio-diesel.

On January 29, 2008, a meeting of shareholders was held and, among other things, the name Medical Discoveries, Inc. was changed to Global Clean Energy Holdings, Inc. (the “Company”).

Effective April 23, 2008, the Company entered into a limited liability company agreement to form GCE Mexico I, LLC (GCE Mexico) along with six unaffiliated investors. The Company owns 50% of the common membership interest of GCE Mexico and five of the unaffiliated investors own the other 50% of the common membership interest. Additionally, a total of 1,000 preferred membership units were issued to two of the unaffiliated investors. GCE Mexico owns a 99% interest in Asideros Globales Corporativo (Asideros) and a 99% interest in Asideros 2, entities organized under the laws of Mexico, and the Company owns the remaining 1% directly. GCE Mexico was organized primarily to, among other things, acquire land in Mexico through subsidiaries for the cultivation of the Jatropha plant.

On July 2, 2009, the Company acquired 100% of the equity interests of Technology Alternatives, Limited (TAL), which has developed a farm in Belize for cultivation of the Jatropha plant. TAL has also developed a nursery capable of producing Jatropha seedlings and rooted cuttings, and provided technical advisory services for the propagation of the Jatropha plant.

In March 2010, the Company formed a wholly owned subsidiary, Globales Energias Renovables(GER) which manages our bio-fuels operations in Latin America.

On July 19, 2010, the reincorporation of the company from a Utah corporation to a Delaware corporation was completed, as approved by shareholders. In the reincorporation, each outstanding share of the company’s common stock was automatically converted into one share of common stock of the surviving Delaware corporation. In addition, the par value of the Company’s capital stock changed from no par per share to \$0.001 per share. The effects of the change in par value have been reflected retroactively in the accompanying condensed consolidated financial statements and notes thereto for all periods presented. The effect of retroactively applying the par value of \$0.001 per share resulted in reclassification of \$17,644,228 of common stock and \$1,290,722 of preferred stock as of December 31, 2009 to additional paid-in capital. The reincorporation did not result in any change in the company’s name, ticker symbol, CUSIP number, business, assets or operations. The management and Board of Directors of the company remained the same.

GLOBAL CLEAN ENERGY HOLDINGS, INC. AND SUBSIDIARIES
Notes to Unaudited Condensed Consolidated Financial Statements

Principles of Consolidation

The consolidated financial statements include the accounts of Global Clean Energy Holdings, Inc., its subsidiaries, and the variable interest entities of GCE Mexico, Asideros I, and Asideros 2. All significant intercompany transactions have been eliminated in consolidation.

Generally accepted accounting principles require that if an entity is the primary beneficiary of a variable interest entity (VIE), the entity should consolidate the assets, liabilities and results of operations of the VIE in its consolidated financial statements. Global Clean Energy Holdings, Inc. considers itself to be the primary beneficiary of GCE Mexico, Asideros I, and Asideros 2, and accordingly, has consolidated these entities since their formation beginning in April 2008, with the equity interests of the unaffiliated investors in GCE Mexico presented as Noncontrolling Interests in the accompanying condensed consolidated financial statements.

Unaudited Interim Condensed Consolidated Financial Statements

The accompanying unaudited condensed consolidated financial statements have been prepared by the Company pursuant to the rules and regulations of the Securities and Exchange Commission. Certain information and footnote disclosures normally included in financial statements prepared in accordance with accounting principles generally accepted in the United States of America have been condensed or omitted pursuant to such rules and regulations. In the opinion of management, all adjustments and disclosures necessary for a fair presentation of these financial statements have been included and are of normal, recurring nature. These financial statements should be read in conjunction with the financial statements and notes thereto included in the Company's annual report on Form 10-K for the year ended December 31, 2010, as filed with the Securities and Exchange Commission. The results of operations for the three months ended March 31, 2011, may not be indicative of the results that may be expected for the year ending December 31, 2011.

Accounting for Agricultural Operations

All costs incurred until the actual planting of the Jatropha Curcas plant are capitalized as plantation development costs, and are included in "Property and Equipment" on the balance sheet. Plantation development costs are being accumulated in the balance sheet during the development period and will be accounted for in accordance with accounting standards for Agricultural Producers and Agricultural Cooperatives. The direct costs associated with each farm and the production of the Jatropha revenue streams have been deferred and accumulated as a noncurrent asset, "Deferred Growing Costs", on the balance sheet. Other general costs without expected future benefits are expensed when incurred.

Profit/Loss per Common Share

Profit/Loss per share amounts are computed by dividing profit or loss applicable to the common shareholders of the Company by the weighted-average number of common shares outstanding during each period. Diluted profit or loss per share amounts are computed assuming the issuance of common stock for potentially dilutive common stock equivalents.

GLOBAL CLEAN ENERGY HOLDINGS, INC. AND SUBSIDIARIES
Notes to Unaudited Condensed Consolidated Financial Statements

All outstanding stock options, warrants, convertible notes, and convertible preferred stock are currently antidilutive and have been excluded from the calculations of diluted profit or loss per share at March 31, 2011 and 2010, as follows:

	March 31,	
	2011	2010
Convertible notes	19,028,671	19,028,671
Convertible preferred stock - Series B	11,818,181	11,818,181
Warrants	26,475,662	31,632,552
Compensation-based stock options and warrants	68,831,483	73,459,083
	126,153,997	135,938,487

Prior Period Reclassifications

Certain December 31, 2010 balances have been reclassified in the accompanying condensed consolidated financial statements to conform to the March 31, 2011 presentation. These reclassifications had no effect on the December 31, 2010 total equity or net loss.

Note 2 – Going Concern Considerations

The accompanying unaudited condensed consolidated financial statements have been prepared assuming that the Company will continue as a going concern. As shown in the accompanying consolidated financial statements, the Company incurred a loss from continuing operations applicable to its common shareholders of \$181,683 and \$656,553 during the three-months period ended March 31, 2011 and during the year ended December 31, 2010 respectively, and has an accumulated deficit applicable to its common shareholders of \$27,137,906 at March 31, 2011. The Company also used cash in operating activities of \$893,728 and \$2,652,541 during the three-month period ended March 31, 2011 and during the year ended December 31, 2010, respectively. At March 31, 2011, the Company has negative working capital of \$5,003,897 and a stockholders' deficit attributable to its stockholders of \$3,241,211. These factors raise substantial doubt about the Company's ability to continue as a going concern.

The Company commenced its new business related to the cultivation and production of oil from the seed of the Jatropha plant in September 2007. Management plans to meet its cash needs through various means including securing financing, entering into joint ventures, and developing the new business model. In order to fund its new operations, the Company has received \$10,959,960 in capital contributions from the preferred membership interest in GCE Mexico I, LLC, has issued mortgages in the total amount of \$2,793,934 for the acquisition of land. The Company is developing the new business operation to participate in the rapidly growing bio-diesel industry. The Company continues to expect to be successful in this new venture, but there is no assurance that its business plan will be economically viable. The ability of the Company to continue as a going concern is dependent on that plan's success. The financial statements do not include any adjustments that might be necessary if the Company is unable to continue as a going concern.

Note 3 – Jatropha Business Venture

The Company entered into the bio-fuels business in 2007 by acquiring certain trade secrets, know-how, business plans, term sheets, business relationships, and other information relating to the cultivation and production of seed oil from the Jatropha plant for the production of bio-diesel, and by entering into certain employment agreements and property management agreements. Subsequent to entering into these transactions, the Company identified certain real property in Mexico it believed to be suitable for cultivating the Jatropha plant. During 2008, GCE Mexico acquired the land in Mexico for the cultivation of the Jatropha plant. In July 2009, the Company acquired TAL, which had developed a farm in Belize for cultivation of the Jatropha plant and provided technical advisory services for the propagation of the Jatropha plant. In March 2010, the Company formed Asideros 2, a Mexican corporation, which has acquired additional land in Mexico adjacent to the land acquired by Asideros. All of these transactions are described in further detail in Note 1 above and in the remainder of the notes.

GLOBAL CLEAN ENERGY HOLDINGS, INC. AND SUBSIDIARIES
Notes to Unaudited Condensed Consolidated Financial Statements

Share Exchange Agreement

The Company entered into a share exchange agreement (the Global Agreement) pursuant to which the Company acquired all of the outstanding ownership interests in Global Clean Energy Holdings, LLC, a Delaware limited liability company (Global), on September 7, 2007 from Mobius Risk Group, LLC (Mobius) and from Richard Palmer (Mr. Palmer). Mr. Palmer owned a 13.33% equity interest in Mobius and became the Company's new President and Chief Operating Officer in September 2007 and its Chief Executive Officer in December 2007.

Mobius Consulting Agreement

Concurrent with the execution of the Global Agreement, the Company entered into a consulting agreement with Mobius pursuant to which Mobius agreed to provide consulting services to the Company in connection with the Company's new Jatropha biofuel feedstock business. The Company engaged Mobius as a consultant to obtain Mobius' experience and expertise in the feedstock/bio-diesel market to assist the Company and Mr. Palmer in developing this new line of operations for the Company. Mobius agreed to provide the following services to the Company: (i) manage and supervise a contemplated research and development program contracted by the Company and conducted by the University of Texas Pan American regarding the location, characterization, and optimal economic propagation of the Jatropha plant; and (ii) assist with the management and supervision of the planning, construction, and start-up of plant nurseries and seed production plantations in Mexico, the Caribbean or Central America.

The original term of the agreement was twelve months. Under the agreement, Mobius was required to supervise the hiring of certain staff to serve in management and operations roles of the Company, or to hire such persons to provide similar services to the company as independent contractors. Mobius' compensation for the services provided under the agreement was a monthly retainer of \$45,000. The Company also reimbursed Mobius for reasonable business expenses incurred in connection with the services provided. The Company terminated the agreement in July 2008, with the termination to become effective August 2008. The Company had recorded liabilities to Mobius of \$322,897 for accrued, but unpaid, compensation and costs as of March 31, 2011 and December 31, 2010. However, the Company disputes these charges, and the additional amounts that Mobius claims that it is owed, and is currently in litigation with Mobius to resolve this liability.

LODEMO Agreement

On October 15, 2007, the Company entered into a service agreement with Corporativo LODEMO S.A DE CV, a Mexican corporation (the LODEMO Group), to provide services related to the establishment, development, and day-to-day operations of the Company's Jatropha Business in Mexico. The Company had agreed to pay the LODEMO Group a fixed fee per year of \$60 per hectare of land planted and maintained with minimum payments based on 10,000 hectares of developed land, to follow a planned planting schedule. The Agreement had a 20-year term but could be terminated or modified earlier by the Company under certain circumstances. In June 2009, the scope of work previously performed by LODEMO was reduced and modified based upon certain labor functions being provided internally by the Company and by Asideros, the Company's Mexican subsidiary, on a go-forward basis. Under this agreement, the Company has paid the LODEMO Group or accrued \$624,329 during the year ended December 31, 2009, all of which was capitalized as plantation development costs. This agreement was cancelled in 2009. As of March 31, 2011 and as of December 31, 2010, the Company's financial statement reflect that it owes the LODEMO Group \$251,500 for accrued, but unpaid, compensation and cost. The Company disputes the total of these charges and is currently in discussions with LODEMO to resolve this liability.

GLOBAL CLEAN ENERGY HOLDINGS, INC. AND SUBSIDIARIES
Notes to Unaudited Condensed Consolidated Financial Statements

GCE Mexico I, LLC, Asideros 1, and Asideros 2

GCE Mexico was organized primarily to facilitate the acquisition of approximately 5,000 acres of farm land (the Jatropa Farm) in the State of Yucatan in Mexico to be used primarily for the (i) cultivation of *Jatropha curcas*, (ii) the marketing and sale of the resulting fruit, seeds, or pre-processed crude Jatropa oil, whether as biodiesel feedstock, biomass or otherwise, and (iii) the sale of carbon value, green fuel value, or renewable energy credit value (and other similar environmental attributes) derived from activities at the Jatropa Farm.

Under the LLC Agreement, the Company owns 50% of the issued and outstanding common membership units of GCE Mexico. The remaining 50% of the common membership units was issued to five of the Investors. The Company and the other owners of the common membership interest were not required to make capital contributions to GCE Mexico.

In addition, two of the Investors agreed to invest in GCE Mexico through the purchase of preferred membership units and through the funding of the purchase of land in Mexico. An aggregate of 1,000 preferred membership units were issued to these two Investors who each agreed to make capital contributions to GCE Mexico in installments and as required, funding the development and operations of the Jatropa Farm. The preferred members have made capital contributions of \$2,051,102 and \$704,652 during the three-month periods ended March 31, 2011 and 2010, respectively, and total contributions of \$10,959,960 received by GCE Mexico from these Investors since the execution of the LLC Agreement. The LLC Agreement calls for additional contributions from the Investors, as requested by management and as required by the operation in 2011 and the following years. These Investors are entitled to earn a preferential 12% per annum cumulative compounded return on the cumulative balance of their preferred membership interest. The preferential return totaled \$302,135 and \$167,839 during the three-month periods ended March 31, 2011 and 2010, respectively, and totals \$1,754,879 since the execution of the LLC Agreement.

The two investors holding preferred membership units also directly funded the purchase by Asideros I of approximately 5,000 acres of land in the State of Yucatan in Mexico by the payment of \$2,051,282. The land was acquired in the name of Asideros I and Asideros I issued a mortgage in the amount of \$2,051,282 in favor of these two investors. These two investors also directly funded the purchase by Asideros 2 of approximately 3,700 acres of land adjacent to the land owned by Asideros I by the payment of \$742,652. The land was acquired in the name of Asideros 2 and Asideros 2 issued a mortgage in the amount of \$742,652 in favor of these two investors. These mortgages bear interest at the rate of 12% per annum, payable quarterly. The Board has directed that this interest shall continue to accrue until such time as the Board determines that there is sufficient cash flow to pay all accrued interest. The initial mortgage, including any unpaid interest, is due in April 2018. The second mortgage, including any unpaid interest, is due in February 2020.

The net income or loss of Asideros I and of Asideros 2 is allocated to its shareholders based on their respective equity ownership, which is 99% to GCE Mexico and 1% directly to the Company. GCE Mexico has no operations separate from its investments in Asideros I and Asideros 2. According to the LLC Agreement of GCE Mexico, the net loss of GCE Mexico is allocated to its members according to their respective investment balances. Accordingly, since the common membership interest did not make a capital contribution, all of the losses have been allocated to the preferred membership interest. The noncontrolling interest presented in the accompanying condensed consolidated balance sheets includes the carrying value of the preferred membership interests and of the common membership interests owned by the Investors, and exclude any common membership interest in GCE Mexico held by the Company.

GLOBAL CLEAN ENERGY HOLDINGS, INC. AND SUBSIDIARIES
Notes to Unaudited Condensed Consolidated Financial Statements

Technology Alternatives, Limited

On October 29, 2008, the Company entered into a stock purchase agreement with the shareholders of TAL, a company formed under the laws of Belize in Central America. Subsequently, the terms and conditions of the stock purchase agreement were modified prior to closing. The closing was primarily delayed to allow TAL to complete all required conditions for the closing. On July 2, 2009, all closing requirements were completed and the Company consummated the stock purchase agreement by issuing 8,952,757 shares of its common stock in exchange for 100% of the equity interests of TAL. TAL owns approximately 400 acres of land and has developed a Jatropha farm in stages over the last three years for the cultivation of the Jatropha plant. TAL has also developed a nursery capable of producing Jatropha seeds, seedlings and rooted cuttings. During 2009, TAL commenced selling seeds, principally to GCE Mexico.

In connection with the acquisition, certain payables to the former shareholders of TAL were renegotiated and converted into promissory notes in the aggregate principal amount of \$516,139 Belize Dollars (US \$268,036 based on exchange rates in effect at July 2, 2009). These notes payable to shareholders were interest free through September 30, 2009, and then bear interest at 8% per annum through the maturity date. The notes are secured by a mortgage on the land and related improvements. The notes, plus any related accrued interest, were originally due on December 29, 2009, but the due date had been extended to July 15, 2011. TAL and/or the Company may prepay the notes at any time without penalty, and the Company is required to prepay the notes if and when it receives future funding in an amount that, in the Company's reasonable discretion, is sufficient to permit the prepayment of the notes without adversely affecting the Company's operations or financial condition.

During 2010, it was determined to cease the TAL operations, and the assets were transferred to Investment Held for Sale.

Note 4 - Investment held for sale

As all of TAL's nursery capabilities have since been transferred to the Company's other operations in Tizimin, Mexico and the Company is in the process of selling the land, the net assets have been reclassified as Investment Held for Sale at December 31, 2010; the promissory notes are netted against the net assets. The Net Assets, measured at fair value as of March 31, 2011 were \$565,473 Belize Dollars (US \$285,790 and US \$292,350 based on exchange rates in effect at March 31, 2011 and December 31, 2010, respectively).

Note 5 – Property and Equipment

Property and equipment are as follows:

	March 31, 2011	December 31, 2010
Land	\$ 2,523,971	\$ 2,435,722
Plantation development costs	5,528,177	4,805,940
Plantation equipment	1,268,256	1,108,467
Office equipment	131,575	89,721
Total cost	<u>9,451,979</u>	<u>8,439,850</u>
Less accumulated depreciation	(411,240)	(336,313)
Property and equipment, net	<u><u>\$ 9,040,739</u></u>	<u><u>\$ 8,103,537</u></u>

Commencing in June 2008, Asideros I purchased certain equipment for purposes of rapidly clearing the land, preparing the land for planting, and actually planting the Jatropha trees. The Company has capitalized farming equipment and costs related to the development of land for farm use in accordance with generally accepted accounting principles for accounting by agricultural producers and agricultural cooperatives. Plantation equipment is depreciated using the straight-line method over estimated useful lives of 5 to 15 years. Depreciation expense has been capitalized as part of plantation development costs through the date that the plantation becomes commercially productive. The initial plantations were deemed to be commercially productive on October 1, 2009, at which date the Company commenced the depreciation of plantation development costs over estimated useful lives of 10 to 35 years, depending on the nature of the development. Developments and other improvements with indefinite lives are capitalized and not depreciated. Other developments that have a limited life and intermediate-life plants that have growth and production cycles of more than one year are being depreciated over their useful lives once they are placed in service. The land, plantation development costs, and plantation equipment are located in Mexico and in Belize.

GLOBAL CLEAN ENERGY HOLDINGS, INC. AND SUBSIDIARIES
Notes to Unaudited Condensed Consolidated Financial Statements

Note 6 – Accrued Payroll and Payroll Taxes

A significant portion of accrued payroll and payroll taxes relates to unpaid compensation for officers and directors that are no longer affiliated with the Company. Accrued payroll taxes will become due upon payment of the related accrued compensation. Accrued payroll and payroll taxes are composed of the following:

	March 31, 2011	December 31, 2010
Accrued payroll, vacation, and related payroll taxes for current officers	\$ 1,054,346	\$ 1,102,176
Former Chief Executive Officer, resigned 2007, including \$500,000 under the Release and Settlement Agreement	570,949	570,949
Other former officers and directors	77,750	77,750
Accrued payroll taxes on accrued compensation to former officers and directors	25,590	25,590
Accrued payroll and payroll taxes	\$ 1,728,635	\$ 1,776,465

On August 31, 2007, the Company entered into a Release and Settlement Agreement with Judy Robinett, the Company's then-current Chief Executive Officer. Under the agreement, Ms. Robinett agreed to, among other things, assist the Company in the sale of its legacy assets and complete the preparation and filing of the delinquent reports to the Securities and Exchange Commission. Under the agreement, Ms. Robinett agreed to (i) forgive her potential right to receive \$1,851,805 in accrued and unpaid compensation, unaccrued and pro-rata bonuses, and severance pay and (ii) the cancellation of stock options to purchase 14,000,000 shares of common stock at an exercise price of \$0.02 per share. In consideration for her services, the forgiveness of the foregoing cash payments, the cancellation of the stock options, and settlement of other issues, the Company agreed to, among other things, to pay Ms. Robinett \$500,000 upon the receipt of the cash payment under the agreement to sell the SaveCream Assets to Eucodis Pharmaceuticals Forschungs und Entwicklungs GmbH (Eucodis). Pursuant to this agreement, Ms. Robinett resigned on December 21, 2007. Despite the Company's efforts, the sale to Eucodis was never completed and Eucodis has since ceased operations. Accordingly, the conditions precedent to make the \$500,000 payment from the Eucodis proceeds described above has not been fulfilled, i.e., the Company's sale of the SaveCream Assets to Eucodis did not occur, and the Company does not believe that Ms. Robinett is entitled to this payment. Furthermore, the Company subsequently sold the SaveCream Assets to an unaffiliated third party on November 16, 2009.

There is an accrual of Director's fees included in the Accounts Payable balance as of March 31, 2011 and December 31, 2010 of \$173,000 and \$155,000, respectively.

GLOBAL CLEAN ENERGY HOLDINGS, INC. AND SUBSIDIARIES
Notes to Unaudited Condensed Consolidated Financial Statements

Note 7 – Debt

Notes Payable to Shareholders

The Company has notes payable to certain shareholders in the aggregate amount of \$26,000 at March 31, 2011 and December 31, 2010. The notes originated between 1997 and 1999, bear interest at 12%, are unsecured, and are currently in default. Accrued interest on the notes totaled \$44,065 and \$43,278 at March 31, 2011 and December 31, 2010, respectively.

As more fully disclosed in Note 3 the Company has promissory notes to the former shareholders of TAL in the amount of \$526,462 Belize dollars, (US \$266,074 based on exchange rates in effect at March 31, 2011), including capitalized interest of \$10,322 Belize Dollars. These notes payable to shareholders were interest free through September 30, 2009, and then bear interest at 8% per annum through the maturity date. The notes are secured by a mortgage on the land and related improvements. The notes, plus any related accrued interest, were originally due on December 29, 2009, but the due date has been extended to July 15, 2011.

Convertible Notes Payable

In March 2010, the Company entered into a securities purchase agreement with the preferred members of GCE Mexico pursuant to which the Company issued senior unsecured convertible promissory notes in the original aggregate principal amount of \$567,000 and warrants to acquire an aggregate of 1,890,000 shares of the Company's common stock. The Convertible Notes mature on the earlier of (i) March 16, 2012, or (ii) upon written demand of payment by the note holders following the Company's default thereunder. The maturity date of the Convertible Notes may be extended by written notice made by the note holders at any time prior to March 16, 2012. Interest accrues on the convertible notes at a rate of 5.97% per annum, and is payable quarterly in cash, in arrears, on each three-month anniversary of the issuance of the convertible notes. The Company may at its option, in lieu of paying interest in cash, pay interest by delivering a number of unregistered shares of its common stock equal to the quotient obtained by dividing the amount of such interest by the arithmetic average of the volume weighted average price for each of the five consecutive trading days immediately preceding the interest payment date. At any time following the first anniversary of the issuance of the Convertible Notes, at the option of the note holders, the outstanding balance thereof (including unpaid interest) may be converted into shares of the Company's common stock at a conversion price equal to \$0.03. The conversion price may be adjusted in connection with stock splits, stock dividends and similar events affecting the Company's capital stock. The convertible notes rank senior to all other indebtedness of the Company, and thereafter will remain senior or pari passu with all accounts payable and other similar liabilities incurred by the Company in the ordinary course of business. The Company may not prepay the convertible notes without the prior consent of the Investors.

The warrants have an exercise price of \$0.03 per share and the exercise price of the warrants may be adjusted in connection with stock splits, stock dividends and similar events affecting the Company's capital stock. The warrants expire on March 16, 2013. The fair value of the warrants was immaterial, accordingly, all of the proceeds from the issuance of the debt were allocated to the Convertible Notes. The Company used substantially all of the proceeds received from the sale of the convertible promissory notes to repay, in full, an outstanding promissory note in the amount of \$475,000, plus accrued interest of \$81,909.

The Company has other convertible notes payable to certain individuals in the aggregate amount of \$193,200 at March 31, 2011 and December 31, 2010. The notes originated in 1996, bear interest at 12%, are unsecured, and are currently in default. Each \$1,000 note is convertible into 667 shares of the Company's common stock. Accrued interest on the convertible notes totaled \$300,884 and \$295,167 at March 31, 2011 and December 31, 2010, respectively.

GLOBAL CLEAN ENERGY HOLDINGS, INC. AND SUBSIDIARIES
Notes to Unaudited Condensed Consolidated Financial Statements

Note 8 – Changes in Equity (Deficit)

A summary of the composition of Equity (Deficit) of the Company at March 31, 2011 and 2010, and the changes during the three months then ended is presented in the following table:

	Total Global Clean Holdings, Inc. stockholders' equity (deficit)	Noncontrolling interest	Total equity (deficit)
Balance at December 31, 2010	\$ (3,084,518)	\$ 4,241,945	\$ 1,157,427
Issuance of common stock	-	-	-
Capital contribution from noncontrolling interest	-	2,051,102	2,051,102
Share-based compensation	48,188	-	48,188
Accrual of preferential return for the noncontrolling interest	-	(302,135)	(302,135)
Net loss	(204,476)	(374,190)	(578,666)
Other comprehensive loss	(405)	296,800	296,395
Balance at March 31, 2011	<u>\$ (3,241,211)</u>	<u>\$ 5,913,522</u>	<u>\$ 2,672,311</u>
	Total Global Clean Holdings, Inc. stockholders' equity (deficit)	Noncontrolling interest	Total equity (deficit)
Balance at December 31, 2009	\$ (3,078,412)	\$ 2,485,792	\$ (592,620)
Issuance of common stock	500,000	-	500,000
Capital contribution from noncontrolling interest	-	704,652	704,652
Share-based compensation	16,990	-	16,990
Accrual of preferential return for the noncontrolling interest	-	(167,839)	(167,839)
Net loss	(382,378)	(401,297)	(783,675)
Other comprehensive loss	2,567	274,004	276,571
Balance at March 31, 2010	<u>\$ (2,941,233)</u>	<u>\$ 2,895,312</u>	<u>\$ (45,921)</u>

Common Stock

On March 30, 2010 the Company entered into a stock purchase agreement whereby the Company agreed to issue and sell 25,000,000 shares of the Company's common stock at a price of \$0.02 per share, for an aggregate purchase price of \$500,000, which was paid in cash.

Note 9 – Stock Options and Warrants

Stock Options and Compensation-Based Warrants

The Company has three incentive stock option plans wherein 44,000,000 shares of the Company's common stock are reserved for issuance there under. As further explained in Note 10 to these condensed consolidated financial statements, the Company granted stock options during the year ended December 31, 2010 to acquire 12,000,000 shares of the Company's common stock to the Company's Chief Executive Officer. During the year ended December 31, 2010, the Company also issued compensation-based stock warrants to an investment banking firm to acquire 7,700,000 shares of the Company's common stock at \$0.0325 per share, and compensation-based warrants to purchase 250,000 shares of common stock to a law firm. Effective April 1, 2010, the Company appointed Martin Wenzel to its board of directors. Mr. Wenzel was granted an option to purchase 500,000 shares of the Company's common stock at an exercise price of \$0.01 per share. The option vests over ten equal monthly installments commencing May 1, 2010 and expires on April 1, 2015.

GLOBAL CLEAN ENERGY HOLDINGS, INC. AND SUBSIDIARIES
Notes to Unaudited Condensed Consolidated Financial Statements

On July 19, 2010, the stockholders approved the 2010 Stock Incentive Plan. The granting of options and other stock awards is an important incentive tool for the Company's employees, officers and directors. The 2010 Plan provides a means by which employees, directors and consultants of the Company may be given an opportunity to benefit from increases in the value of our common stock, and to attract and retain the services of such persons. All of our employees, directors and consultants are eligible to participate in the 2010 Plan. The total number of shares of common stock which may be offered, or issued as restricted stock or on the exercise of options or Stock Appreciation Rights (SARs) under the Plan shall not exceed twenty million (20,000,000) shares of common stock. The shares subject to an option or SAR granted under the Plan that expire, terminate or are cancelled unexercised shall become available again for grants under this Plan. If shares of restricted stock awarded under the Plan are forfeited to the Company or repurchased by the Company, the number of shares forfeited or repurchased shall again be available under the Plan. Where the exercise price of an option is paid by means of the optionee's surrender of previously owned shares of common stock or the Company's withholding of shares otherwise issuable upon exercise of the option as may be permitted herein, only the net number of shares issued and which remain outstanding in connection with such exercise shall be deemed "issued" and no longer available for issuance under this Plan. No eligible person shall be granted options or other awards during any twelve-month period covering more than Five Hundred Thousand (500,000) shares of common stock.

No income tax benefit has been recognized for share-based compensation arrangements. The Company has recognized plantation development costs totaling \$124,565 related to a liability that was satisfied by the issuance of warrants in 2008. Otherwise, no share-based compensation cost has been capitalized in the condensed consolidated balance sheet.

A summary of the status of options and compensation-based warrants at March 31, 2011, and changes during the three months then ended is presented in the following table:

	Shares Under Option	Weighted Average Exercise Price	Weighted Average Remaining Contractual Life	Aggregate Intrinsic Value
Outstanding at December 31, 2010	69,531,483	\$ 0.03	5.1 years	\$ 450,970
Granted	-			
Exercised	-			
Expired	(700,000)	0.05		
Outstanding at March 31, 2011	68,831,483	\$ 0.03	5 years	\$ 186,833
Exercisable at March 31, 2011	54,993,983	\$ 0.03	4.1 years	\$ 169,646

At March 31, 2011, options to acquire 80,000 shares of common stock have no stated contractual life. The fair value of other stock option grants and compensation-based warrants is estimated on the date of grant or issuance using the Black-Scholes option pricing model. No options or warrants were issued in the three-month period ended March 31, 2011. The expected life of stock options represents the period of time that the stock options granted are expected to be outstanding prior to exercise. The expected volatility is based on the historical price volatility of the Company's common stock. The risk-free interest rate represents the U.S. Treasury constant maturities rate for the expected life of the related stock options. The dividend yield represents anticipated cash dividends to be paid over the expected life of the stock options. The intrinsic values are based on a March 31, 2011 closing price of \$0.021 per share.

GLOBAL CLEAN ENERGY HOLDINGS, INC. AND SUBSIDIARIES
Notes to Unaudited Condensed Consolidated Financial Statements

Share-based compensation from all sources recorded during the three months ended March 31, 2011 and 2010 was \$48,188 and \$16,990, respectively, and is reported as general and administrative expense in the accompanying condensed consolidated statements of operations. As of March 31, 2011, there is approximately \$14,500 of unrecognized compensation cost related to stock-based payments that will be recognized over a weighted average period of approximately 0.6 years.

Stock Warrants

A summary of the status of the warrants outstanding at March 31, 2011, and changes during the three months then ended is presented in the following table:

	Shares Under Warrant	Weighted Average Exercise Price
Outstanding at December 31, 2010	26,475,662	\$ 0.01
Issued	-	
Exercised	-	
Expired	-	
Outstanding at March 31, 2011	26,475,662	\$ 0.01

Note 10 – Employment Agreement

On March 16, 2010, the Company and Richard Palmer, the Company's Chief Executive Officer, entered into an amendment of Mr. Palmer's employment agreement originally entered into in September 2007. Pursuant to the amendment, the Company extended the term of Mr. Palmer's employment as the Company's President, Chief Executive Officer and Chief Operating Officer for an additional two years through September 30, 2012. Thereafter, the term of employment shall automatically renew for successive one-year periods unless otherwise terminated by either party 90 days before the renewal period. In connection with the amendment, the Company granted Mr. Palmer an option to purchase up to 12,000,000 shares of the Company's common stock at an exercise price of \$0.02, subject to the Company's achievement of certain market capitalization goals. According to the terms of the option, the option to purchase up to 6,000,000 shares vests when the Company's market capitalization first reaches \$30 million and the option to purchase the other 6,000,000 shares vests when the Company's market capitalization first reaches \$60 million. The option expires on March 16, 2020, ten years after the date of amendment. The remaining terms of the original employment agreement remain in effect.

Note 11 - Discontinued Operations

Pursuant to accounting rules for discontinued operations, the Company has classified all gain, revenue and expense related to the operations, assets, and liabilities of its bi-pharmaceutical business as discontinued operations. For the three-month period ended March 31, 2011 and year ended December 31, 2010, Income from Discontinued Operations consists of the foreign currency transaction gains related to current liabilities associated with the discontinued operations that are denominated in Euros.

ITEM 2. MANAGERMENTS' DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS.

This Report, including any documents which may be incorporated by reference into this Report, contains "Forward-Looking Statements" within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. All statements other than statements of historical fact are "Forward-Looking Statements" for purposes of these provisions, including our plans to cultivate, produce and market non-food based feedstock for applications in the bio-fuels market, any projections of revenues or other financial items, any statements of the plans and objectives of management for future operations, any statements concerning proposed new products or services, any statements regarding future economic conditions or performance, and any statements of assumptions underlying any of the foregoing. All Forward-Looking Statements included in this document are made as of the date hereof and are based on information available to us as of such date. We assume no obligation to update any Forward-Looking Statement. In some cases, Forward-Looking Statements can be identified by the use of terminology such as "may," "will," "expects," "plans," "anticipates," "intends," "believes," "estimates," "potential," or "continue," or the negative thereof or other comparable terminology. Although we believe that the expectations reflected in the Forward-Looking Statements contained herein are reasonable, there can be no assurance that such expectations or any of the Forward-Looking Statements will prove to be correct, and actual results could differ materially from those projected or assumed in the Forward-Looking Statements. Future financial condition and results of operations, as well as any Forward-Looking Statements are subject to inherent risks and uncertainties, including any other factors referred to in our press releases and reports filed with the Securities and Exchange Commission. All subsequent Forward-Looking Statements attributable to the company or persons acting on its behalf are expressly qualified in their entirety by these cautionary statements. Additional factors that may have a direct bearing on our operating results are described under "Risk Factors" and elsewhere in this report.

Introductory Comment

Throughout this Quarterly Report on Form 10-Q, the terms "GCEH," "we," "us," "our," and "our company" refer to Global Clean Energy Holdings, Inc., a Delaware corporation (which used to be a Utah corporation until July 19, 2010), formerly known as Medical Discoveries, Inc., and, unless the context indicates otherwise, also includes: (i) MDI Oncology, Inc., a Delaware corporation, and a wholly-owned subsidiary; (ii) Global Clean Energy Holdings LLC, a wholly-owned Delaware limited liability company; (iii) Technology Alternative, Limited, a wholly-owned subsidiary formed under the laws of Belize; and (iv) Globales Energia Renovables, a wholly-owned subsidiary formed under the laws of Mexico. To the extent applicable, depending on the context of the disclosure, the terms "we," "us," "our," and "our company" may also include GCE Mexico I, LLC a Delaware limited liability company, in which we manage and own approximately 50% of the common membership interests.

Global Clean Energy Holdings, Inc. is not related to, or affiliated in any manner with "Global Clean Energy, Inc.," an unaffiliated public company. Readers are cautioned to confirm the entity that they are evaluating or in which they are making an investment before completing any such investment.

Overview

Global Clean Energy Holdings, Inc. ("GCEH") is a California-based energy agri-business focused on the development of non-food based bio-fuel feedstock. GCEH is focusing on the commercialization of oil and biomass derived from the seeds of *Jatropha curcas* ("Jatropha") - a native non-edible plant indigenous to many tropical and sub-tropical regions of the world, including Mexico, the Caribbean and Central America. Jatropha oil is high-quality plant oil used as a direct replacement for fossil fuels or as feedstock for the production of high quality first and second generation biofuels like bio-diesel, renewable diesel or bio-jet, which are direct replacements for diesel fuel and jet fuel.

Jatropha trees require less water and fertilizer than many conventional crops, and can be grown on land that is not suitable for the production of food. Jatropha oil is very high quality plant oil that is particularly well suited for the production of first and second generation biofuels. Without post processing, Jatropha oil can be used as a direct replacement for diesel and other fossil fuels in many applications. Bio-diesel and renewable-diesel is a diesel-equivalent, and bio-jet is a jet fuel-equivalent; both are processed fuels derived from biological sources (such as plant oils), which can be used as a replacement for fossil based fuels in diesel engines, jet engines or other fuel oil based combustion equipment.

Our business plan and current principal business activities include the planting, cultivation, harvesting and processing of Jatropha to generate plant based oils and biomass for use as replacements for fossil fuels. Our strategy is to leverage our agricultural operations management experience and specifically our Jatropha based bio-fuels knowledge, experience and capabilities through the following means:

- Own and operate Jatropha farms for our own account.
- Own, operate and manage Jatropha farms through joint ownership agreements. We currently operate two farms located in Mexico under joint ownership arrangements: the first farm comprises 5,149 acres; the second farm, consisting of 3,700 acres. The first farm is fully planted and is expected to produce its first commercial quantities of Jatropha seeds in 2011. We anticipate that the second farm will substantially be planted by the end of the third quarter of 2011.
- Provide Jatropha farm development and management services to third party owners of Jatropha farms. We currently provide such development and advisory services and plan to greatly expand this initiative in the next 12 months.
- Provide turnkey franchise operations for individuals and/or companies that wish to establish Jatropha farms in suitable geographical areas.

In addition to generating revenues from the sale of non-food based plant oils and biomass, our goal is to monetize the carbon credits from the farms we own and manage. Under the 1997 Kyoto Protocol, a worldwide carbon credit trading market has been established where sellers sell their excess carbon credits and buyers purchase the carbon credits they need to meet their greenhouse gas reduction requirements. We have commenced the certification process necessary to sell carbon credits, but have not yet made any carbon credit sales.

Organizational History/Current Operations

This company was originally incorporated under the laws of the State of Utah on November 20, 1991. In 2007, we entered into bio-fuels business. On July 19, 2010, we changed our state of incorporation to the State of Delaware.

Our bio-fuels operations in Latin America are managed through our wholly owned subsidiary in Mexico, Globales Energia Renovables. Our principal farming operations are conducted on our two farms, consisting of an aggregate of 8,849 acres located near the town of Tizimin in the State of Yucatan, Mexico. The following is a summary of certain factors relevant to an understanding of the operations of the Tizimin farms:

1. The Jatropha trees which were planted on the Tizimin farm approximately two and a half years ago are now flowering, and we expect to begin harvesting commercial quantities of Jatropha fruit from our first, and older farm in the second quarter of 2011. As a result, we expect to generate our first revenues from the commercial sale of Jatropha seeds/oil during 2011. Jatropha seeds can be harvested twice a year. Accordingly, as the trees that were planted during the past two years mature, our harvests of Jatropha seeds will increase, improving our future revenues from our Tizimin operations.
2. Our Tizimin operations are eligible for agricultural and other subsidies provided to certain farming operations by the federal government of Mexico. We have applied and have been approved for over \$900,000 in subsidies. To date we have received \$565,000 and expect to receive the balance in 2011 and 2012. In the first quarter of 2011, we received \$172,000 of those subsidies. These subsidies will help defray some of the initial start-up costs that we have incurred in establishing these farms.

3. We continue to operate two nurseries for new Jatropha trees in the Tizimin area, which provide seedlings for our new farm and any additional farms that we acquire or develop in the future. We can also sell seedlings from these nurseries to other Jatropha farmers or developers.
4. Fruit and seed handling, oil extraction facilities, germplasm resources, and sheep herding capabilities are all being expanded in anticipation of our expanding Jatropha operations. Oil extraction facilities are currently located on-site and we expect to relocate them to an industrial site during 2011.
5. Our Tizimin farms are being developed for the purpose of producing feedstock for bio-fuels from Jatropha seeds. However, our development and cultivation of these farms has also enabled us to generate ancillary revenues from these operations. For example, we now receive revenue from the sale of biomass (waste wood removed from our farms as the land is prepared for Jatropha planting), sales of sheep that graze on our lands and control weeds, and the sale of the presscake from the Jatropha seeds which remains after oil extraction.
6. Total capital received for expenses and operations, since inception, for the two farms in the Tizimin area (through March 31, 2011) was \$10,959,960.

We also own a 400 acre Jatropha research farm in Belize. The Belize farm currently is inactive, and we are currently evaluating the future use and/or disposition of this farm. Research efforts have now been centralized at our farms near Tizimin, Mexico.

Critical Accounting Policies

The preparation of financial statements in conformity with accounting principles generally accepted in the United States require management to make estimates and assumptions that affect the reported assets, liabilities, sales and expenses in the accompanying financial statements. Critical accounting policies are those that require the most subjective and complex judgments, often employing the use of estimates about the effect of matters that are inherently uncertain.

Operational Company. On October 1, 2009, we commenced our planned principal operations, which indicated that we were no longer subject to the accounting standards for accounting and reporting by development stage enterprises. Our financials therefore are presented for an operational company.

Agricultural Producer. All costs incurred until the actual planting of Jatropha are capitalized as plantation development costs, and are included in "Property and Equipment" on the balance sheet. Plantation development costs are being accumulated in the balance sheet during the development period and will be accounted for in accordance with accounting standards for Agricultural Producers and Agricultural Cooperatives. The direct costs associated with each farm and the production of the Jatropha revenue streams have been deferred and accumulated as a noncurrent asset and are included in "Deferred Growing Costs" on the balance sheet. Other general costs without expected future benefits are expensed when incurred.

Certain other critical accounting policies, including the assumptions and judgments underlying them, are disclosed in Note A to the Consolidated Financial Statements included in the Annual Report on Form 10-K for the fiscal year ended December 31, 2010. However, we do not believe that there are any alternative methods of accounting for our operations that would have a material effect on our financial statements.

Results of Operations

Three-months ended March 31, 2011 compared to the three-months ended March 31, 2010

Revenues and Gross Profit. During the three months ended March 31, 2011 we recognized revenue of \$260,224 as compared with \$132,236 for the same period in 2010. The revenues that we generated in 2011 and 2010 represented (i) fees for Jatropha related advisory services we rendered to third parties, (ii) subsidies from Government agencies, and (iii) sales of Jatropha seeds and other products (waste wood, Jatropha seed husks, etc.). The Jatropha plants that we have planted over the last three years are maturing and starting to produce commercial quantities of Jatropha fruit that will be harvested later this year. The increase in revenues compared with the same period in 2010 is the result of an increase in our Jatropha farm advisory services to third parties and, from revenues generated from the sale of our Jatropha farm products and the receipt of government subsidies. Our goal is to increase the amount of advisory and management services that we render to third parties in 2011. In addition, now that some of the Jatropha trees that we planted are maturing, we anticipate that sales of Jatropha seeds will become a material source of revenues for our Mexico operations commencing in 2011.

General and Administrative Expenses. Our general and administrative expenses related to the three months ended March 31, 2011 were \$570,529 compared to \$761,659 for the same period in 2010. General and administrative expense principally includes officer compensation; outside services, such as legal, accounting, and consulting expenses; share-based compensation; and other general expenses such as insurance, occupancy costs, travel, etc. The net decrease in general and administrative expenses for the three months ended March 31, 2011, compared to the prior year was principally the result of bonuses being accrued in the prior year. No such bonuses were accrued or paid in 2011. This decrease in general and administrative expenses was partially offset by an increase in administrative staffing and other administrative costs related to, and as a result of the continuing expansion of operations of our Tizimin farms.

Plantation Operating Costs. For the three months ended March 31, 2011, we recorded Plantation Operating Costs from the operations of the farms of \$108,231, as compared with \$275,008 in the same period in 2010. Even though operations have expanded, the decrease is related to better farm efficiency and more cost being deferred into the long term asset "Deferred Growing Cost". As costs related to the cultivation of the trees increase and are capitalized until the trees are mature, the Plantation Operating Costs may continue to decrease.

Other Income/Expense. The principal component of Other Income/Expense for the current three month period is Interest Expense. Interest Expense for the three ended March 31, 2011, was \$139,796. Interest Expense for the three ended March 31, 2010 was \$92,430. This increase in interest expense is primarily due to the increase in debt associated with the acquisition of additional land for our farm operations in Tizimin, Mexico. We currently own 8,850 acres of land in Mexico that is subject to interest bearing mortgages. Because we purchased additional land late in the first quarter of 2010, we did not pay interest on the additional mortgages during the entire first quarter of 2010.

Income (Loss) from Discontinued Operations. During the three months ended March 31, 2011, we recognized a loss from discontinued operations of \$22,793, compared to gain from discontinued operations of \$24,847 for the comparable period in 2010. The income or loss from discontinued operations for the three months ended March 31, 2011 and 2010 principally relates to foreign currency exchange rate gains or losses on liabilities associated with our former bio-pharmaceutical business, which are denominated in euros.

Net loss attributable to the non-controlling interest. Effective April 23, 2008, we entered into a limited liability company agreement to form GCE Mexico I, LLC, a Delaware limited liability company ("GCE Mexico"), with six unaffiliated investors (collectively, the "Investors"). Under GCE Mexico I, LLC's agreement, the net loss allocated from Asideros 1 and Asideros 2 to GCE Mexico is then further allocated to the members of GCE Mexico according to the investment balances. We own 50% of the common membership interests in GCE Mexico I, LLC. Accordingly, since the common membership interest did not make a direct capital contribution, all of the losses allocated to GCE Mexico have been further allocated to the preferred membership interest. The net loss attributable to the non-controlling interest in the accompanying Consolidated Statement of Operations represents the allocation of the net loss of GCE Mexico I, LLC to the preferred membership interests.

Net income/loss attributable to Global Clean Energy Holdings, Inc. The Company recorded net loss of \$204,476 for the three months ended March 31, 2011, as compared to a loss of \$382,378 for the same three-month period in 2010.

Liquidity and Capital Resources

As of March 31, 2011, we had \$1,491,757 in cash or cash equivalents and had a working capital deficit of \$5,033,897, as compared with \$1,096,618 in cash and a working capital deficit of \$5,034,816 as of December 31, 2010. However, substantially all of our cash balances represent funds provided to us by the investors for the operations of the Tizimin farms owned by Asideros 1 and Asideros 2 and, therefore, are not available to us for our working capital or other purposes, and are not available to us to reduce our legacy indebtedness. In order to fund our short-term working capital needs, we will have to obtain additional funding from the sale of additional securities, additional borrowings, or from an increase in operating revenues. Outstanding indebtedness at March 31, 2011 totaled \$10,273,659. The existence of the foregoing working capital deficit and liabilities is expected to negatively impact our ability to obtain future equity or debt financing and the terms on which such additional financing, if available, can be obtained.

To date, we have funded our operations from loans we have obtained, from the proceeds of the sale of equity and debt securities of the Company, and from the management fees we have received from commercial clients and GCE Mexico I, LLC. We also generate cash from Jatropa related advisory and management services that we provide to third parties. We anticipate that we will continue to generate such consulting services in the near term, and that such consulting fees will fund our immediate, short-term working capital needs. However, we do not have any long-term consulting agreements in place, nor do we have sufficient cash in hand to continue our current operations through the next twelve months. Accordingly, we may need to raise funds in the future in order to continue to operate. Although we anticipate that revenues from our Jatropa farms in Mexico will significantly increase in 2011 and thereafter, net cash generated from those operations will first have to be used to repay the capital contributed by the Investors (plus their preferred return), for a combined total of \$12,714,839 as of March 31, 2011. As a result, the improved operations of the Mexico farms will not produce short-term cash for this Company that we can use for working capital purposes or for additional Jatropa farms. In addition, our business plan calls for significant infusion of additional capital to establish additional Jatropa farms that are owned for our own account in Mexico and other locations. Because of our negative working capital position, we currently do not have the funds necessary to acquire and cultivate additional farms for our own account. Accordingly, in order to increase our farm ownership and operations, we will have to obtain significant additional capital through the sale of equity and/or debt securities, the forward sale of Jatropa oil and carbon offset credits, and from other financing activities, such as strategic partnerships and joint ventures.

Effective July 2, 2009, we purchased all of the outstanding capital stock of Technology Alternatives Limited, a company formed under the laws of Belize ("TAL"), from its four shareholders. TAL owned and operated a 400-acre farm in subtropical Belize, Central America. The Belize farm currently is inactive, and we are currently evaluating the future use and/or disposition of this farm. Research efforts have now been centralized at our farms near Tizimin, Mexico.

Under the Stock Purchase Agreement, as amended, in consideration for the purchase of all of the shares of TAL, (i) promissory notes were issued by TAL to the four former owners as evidence of its indebtedness to them in the aggregate amount of \$516,139 Belize Dollars (US \$268,036 based on exchange rates in effect at July 2, 2009), and (ii) an aggregate of 8,952,757 unregistered shares of our common stock were issued to the four former owners. The maturity date of the promissory notes has been extended through July, 2011. Since the TAL promissory notes are secured by a mortgage on the 400-acre farm, our failure to pay these notes upon their maturity could result in the loss of that farm and our investment in the Belizean Jatropa farm.

While we have commenced negotiations with various third parties to obtain additional funding from strategic partnerships and for the sale of carbon credits, no assurance can be given that we will be able to enter into any agreements to obtain funding, sell carbon credits or form additional strategic partnerships. We have submitted an application for funding to the Overseas Private Investment Corporation, ("OPIC"), an agency of the United States government that helps U.S. businesses invest overseas, fosters economic development in new and emerging markets, and assists the private sector in managing risks associated with foreign direct investment. The Company is applying to OPIC for up to \$19 million of loans to fund the expansion of our existing Jatropa farms in Mexico. We anticipate that a decision will be made regarding the OPIC application later in 2011. If approved, initial funding could commence within three months of final approval. However, the Company can make no assurance if the OPIC application will be approved or when, if ever, such funding will be made available.

We presently do not have any available credit, bank financing or other external sources of liquidity. In the absence of additional outside funding (including from OPIC, proceeds from the sale of our securities or entering into other joint venture relationships), and unless our operating revenues significantly increase, we do not expect to have sufficient cash on hand to fund our projected working capital needs for the next twelve months. If we issue additional equity or debt securities to fund our working capital needs, stockholders may experience additional dilution or the new equity securities may have rights, preferences or privileges senior to those of existing holders of our common stock. Should we not be able to increase the amount of revenues we receive from our advisory services and/or raise additional debt or equity funding, we will have to scale back our current and proposed operations or take other actions to preserve our on-going operations.

On December 22, 2009, we sold all patents, rights, and data associated with our legacy pharmaceutical assets for 350,000 Euros and a revenue sharing arrangement that could pay up to 2,000,000 Euros should such legacy pharmaceutical assets ever be commercialized by the buyer. Although we are hopeful that the legacy pharmaceutical assets will be commercialized, no assurance can be given if or when any additional cash will be provided to the Company from the pharmaceutical assets that we sold. We will continue to maintain a security interest in such assets until the final 2,000,000 Euro payment is made, if ever. This contingent right to receive future payments will not affect our short-term liquidity position.

Inflation and changing prices have had no effect on our continuing operations over our two most recent fiscal years.

We have no off-balance sheet arrangements as defined in Item 303(a) of Regulation S-K.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK.

Not applicable.

ITEM 4. CONTROLS AND PROCEDURES.

We maintain disclosure controls and procedures that are designed to ensure that information required to be disclosed in the reports that we file with, or submit to, the Securities and Exchange Commission (the "SEC") under the Securities Exchange Act of 1934 (the "Exchange Act") is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms and that such information is accumulated and communicated to our management, including our chief executive and financial officers, as appropriate, to allow timely decisions regarding required disclosure. As required by SEC Rule 13a-15(b), we carried out an evaluation, under the supervision and with the participation of our management, including our chief executive and financial officers, of the effectiveness of the design and operation of our disclosure controls and procedures as of the end of the period covered by this report. Based on that evaluation, our chief executive and financial officers concluded that our disclosure controls and procedures were effective as of the end of the period covered by this report.

Based upon our evaluation, we also concluded that there was no change in our internal control over financial reporting during our most recent fiscal quarter that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II

ITEM 1. LEGAL PROCEEDINGS.

Not applicable.

ITEM 1A. RISK FACTORS.

Information regarding risk factors appears under “Risk Factors” included in Item 1A, Part I, and under Item 7, Management’s Discussion and Analysis of Financial Condition and Results of Operations, of our Annual Report on Form 10-K for the year ended December 31, 2010. There have been no material changes from the risk factors previously disclosed in the above-mentioned periodic report.

ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS.

We did not issue any unregistered securities during the three-month period ended March 31, 2011 that were not previously reported in a Current Report on Form 8-K.

ITEM 3. DEFAULTS UPON SENIOR SECURITIES.

Not applicable

ITEM 4. REMOVED AND RESERVED.

ITEM 5. OTHER INFORMATION

Not applicable.

ITEM 6. EXHIBITS

- 31.1 Rule 13a-14(a) Certification, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 31.2 Rule 13a-14(a) Certification, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
- 32.1 Certification pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
- 32.2 Certification pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

SIGNATURES

In accordance with Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Dated: May 6, 2011

GLOBAL CLEAN ENERGY HOLDINGS, INC.

By: /s/ BRUCE K. NELSON
Bruce K. Nelson
Chief Financial Officer

**CERTIFICATIONS PURSUANT TO
SECTION 302 OF
THE SARBANES-OXLEY ACT OF 2002**

I, Richard Palmer, certify that:

1. I have reviewed this report on Form 10-Q of Global Clean Energy Holdings, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this quarterly report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under their supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting.
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Dated: May 6, 2011

By: /s/ RICHARD PALMER
Richard Palmer
Chief Executive Officer

**CERTIFICATIONS PURSUANT TO
SECTION 302 OF
THE SARBANES-OXLEY ACT OF 2002**

I, Bruce Nelson, certify that:

1. I have reviewed this report on Form 10-Q of Global Clean Energy Holdings, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this quarterly report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under their supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting.
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Dated: May 6, 2011

By: /s/ BRUCE K. NELSON
Bruce Nelson
Chief Financial Officer

**CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED
PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

Pursuant to 18 U.S.C. § 1350, as created by Section 906 of the Sarbanes-Oxley Act of 2002, the undersigned officer of Global Clean Energy Holdings, Inc. (the "Company") hereby certifies that, to the best of his knowledge:

- (i) The Quarterly Report on Form 10-Q of the Company for the quarter ended March 31, 2011 (the "Report") fully complies with the requirements of Section 13(a) or Section 15(d), as applicable, of the Securities Exchange Act of 1934, as amended; and
- (ii) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: May 6, 2011

By: /s/ RICHARD PALMER

Richard Palmer
Chief Executive Officer

**CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED
PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

Pursuant to 18 U.S.C. § 1350, as created by Section 906 of the Sarbanes-Oxley Act of 2002, the undersigned officer of Global Clean Energy Holdings, Inc. (the "Company") hereby certifies that, to the best of his knowledge:

- (i) The Quarterly Report on Form 10-Q of the Company for the quarter ended March 31, 2011 (the "Report") fully complies with the requirements of Section 13(a) or Section 15(d), as applicable, of the Securities Exchange Act of 1934, as amended; and
- (ii) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: May 6, 2011

By: /s/ BRUCE NELSON
Bruce Nelson
Chief Financial Officer
