

SMARTHEAT INC.
Form 10-Q
May 15, 2012

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-Q

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE
SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended March 31, 2012
OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE
SECURITIES EXCHANGE ACT OF 1934

Commission file number: 001-34246

SMARTHEAT INC.
(Exact name of registrant as specified in its charter)

Nevada
(State or other jurisdiction of incorporation
or organization)

98-0514768
(IRS Employer Identification No.)

A-1, 10, Street 7
Shenyang Economic and Technological
Development Zone
Shenyang, China
(Address of principal executive offices)

110141
(Zip Code)

+86 (24) 2519-7699
(Registrant's telephone number, including area
code)

Indicate by checkmark 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 last 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

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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

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," "non-accelerated filer," and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

(do not check if a 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

3,955,774 shares of common stock outstanding as of May 14, 2012.

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SmartHeat Inc.

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NOTE ABOUT FORWARD-LOOKING STATEMENTS

This report contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, or the Securities Act, and Section 21E of the Securities Exchange Act of 1934, as amended, or the Exchange Act, which include, but are not limited to, statements concerning our projected revenues, expenses, gross profit and income, mix of revenue, demand for our products, the benefits and potential applications for our products, the need for additional capital, our ability to obtain and successfully perform additional new contract awards and the related funding and profitability of such awards, the competitive nature of our business and markets and product qualification requirements of our customers. These forward-looking statements are based on our current expectations, estimates and projections about our industry, management's beliefs and certain assumptions made by us. Words such as "anticipates," "expects," "intends," "plans," "predicts," "potential," "believes," "seeks," "hopes," "estimates," "should," "may," "will," "with" variations of these words or similar expressions are intended to identify forward-looking statements. These statements are not guarantees of future performance and are subject to risks, uncertainties and assumptions that are difficult to predict. Therefore, our actual results could differ materially and adversely from those expressed in any forward-looking statements as a result of various factors. Such factors include, but are not limited to the following:

- our goals and strategies;
- our expansion plans;
- our future business development, financial conditions and results of operations;
- the expected growth of the market for PHE products, heat meters and heat pumps in our target markets;
 - our expectations regarding demand for our products;
- our expectations regarding keeping and strengthening our relationships with key customers;
 - our ability to stay abreast of market trends and technological advances;
- our ability to protect our intellectual property rights effectively and not infringe on the intellectual property rights of others;
 - our ability to attract and retain quality employees;
 - our ability to pursue strategic acquisitions and alliances;
 - competition in our industry in China;
- general economic and business conditions in the regions in which we sell our products;
 - relevant government policies and regulations relating to our industry; and
 - market acceptance of our products.

Additionally, this report contains statistical data that we obtained from various publicly available government publications and industry-specific third party reports. Statistical data in these publications also include projections based on a number of assumptions. The markets for PHEs, PHE Units, heat meters and heat pumps may not grow at the rates projected by market data, or at all. The failure of these markets to grow at the projected rates may have a material adverse effect on our business and the market price of our common stock. In addition, the changing nature of our customers' industries results in uncertainties in any projections or estimates relating to the growth prospects or future condition of our markets. Furthermore, if any one or more of the assumptions underlying the market data is later found to be incorrect, actual results may differ from the projections based on these assumptions.

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Unless otherwise indicated, information in this report concerning economic conditions and our industry is based on information from independent industry analysts and publications, as well as our estimates. Except where otherwise noted, our estimates are derived from publicly available information released by third party sources, as well as data from our internal research, and are based on such data and our knowledge of our industry, which we believe to be reasonable. None of the market data from independent industry publications cited in this report was prepared on our or our affiliates' behalf.

Additional information on the various risks and uncertainties potentially affecting our operating results are discussed in this report and other documents we file with the Securities and Exchange Commission, or the SEC, or available upon written request to our corporate secretary at: A-1, 10, Street 7, Shenyang Economic and Technological Development Zone, Shenyang, China 110141. We undertake no obligation to revise or update publicly any forward-looking statements for any reason, except as required by law. Given these risks and uncertainties, readers are cautioned not to place undue reliance on these forward-looking statements.

As used in this report, "SmartHeat," "Company," "we," "our" and similar terms refer to SmartHeat Inc. and its subsidiaries, unless the context indicates otherwise.

Our functional currency is the U.S. Dollar, or USD, while the functional currency of our subsidiaries in China are denominated in Chinese Yuan Renminbi, or RMB, the national currency of the People's Republic of China, which we refer to as the PRC or China, and the functional currency of our subsidiary in Germany is denominated in Euros, or EUR. The functional currencies of our foreign operations are translated into USD for balance sheet accounts using the current exchange rates in effect as of the balance sheet date and for revenue and expense accounts using the average exchange rate during the fiscal year. See Note 2 of the consolidated financial statements included herein.

Effective February 7, 2012, we implemented a one-for-ten reverse stock split of our common stock. Unless otherwise indicated, all share amounts and per share prices in this report were retroactively adjusted to reflect the effect of this reverse stock split. See Note 1 of the consolidated financial statements included herein.

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PART I. FINANCIAL INFORMATION

Item 1. Financial Statements

SMARTHEAT INC. AND SUBSIDIARIES
CONSOLIDATED BALANCE SHEETS

| | March 31, 2012 (Unaudited) | December 31, 2011 |
|---|----------------------------------|----------------------|
| ASSETS | | |
| CURRENT ASSETS | | |
| Cash & equivalents | \$15,853,549 | \$12,419,922 |
| Restricted cash | 4,595,887 | 2,688,691 |
| Accounts receivable, net | 40,103,024 | 47,055,517 |
| Retentions receivable | 3,213,372 | 3,583,898 |
| Advances to suppliers | 14,013,756 | 17,603,984 |
| Other receivables (net), prepayments and deposits | 6,184,693 | 6,663,330 |
| Taxes receivable | 585,654 | - |
| Inventories, net | 54,391,322 | 53,648,549 |
| Notes receivable - bank acceptances | 1,083,269 | 1,916,320 |
| Total current assets | 140,024,526 | 145,580,211 |
| NONCURRENT ASSETS | | |
| Restricted cash | 243,464 | 204,991 |
| Retentions receivable | 501,419 | 670,291 |
| Advance to supplier for equipment | 2,087,183 | 1,122,914 |
| Construction in progress | 1,338,051 | 522,876 |
| Property and equipment, net | 11,091,109 | 11,348,601 |
| Intangible assets, net | 15,287,187 | 15,419,805 |
| Goodwill | 2,161,368 | 2,098,332 |
| Other noncurrent asset | 5,027 | 10,044 |
| Total noncurrent assets | 32,714,808 | 31,397,854 |
| TOTAL ASSETS | \$172,739,334 | \$176,978,065 |
| LIABILITIES AND STOCKHOLDERS' EQUITY | | |
| CURRENT LIABILITIES | | |
| Accounts payable | \$9,631,362 | \$12,660,100 |
| Advance from customers | 4,964,406 | 4,585,218 |
| Taxes payable | 23,644 | 1,178,712 |
| Accrued liabilities and other payables | 3,993,972 | 4,136,298 |
| Notes payable - bank acceptances | 1,971,908 | 3,278,232 |
| Loans payable | 18,588,247 | 10,633,402 |

| | | |
|---|---------------|---------------|
| Total current liabilities | 39,173,539 | 36,471,962 |
| DEFERRED TAX LIABILITY | 164,904 | 189,516 |
| LONG-TERM PAYABLE | 2,065,361 | 2,281,023 |
| COMMITMENTS AND CONTINGENCIES | | |
| STOCKHOLDERS' EQUITY | | |
| Common stock, \$0.001 par value; 75,000,000 shares authorized, 3,955,774 shares issued and outstanding at March 31, 2012, and December 31, 2011, respectively | 3,956 | 3,956 |
| Paid-in capital | 103,004,904 | 102,985,737 |
| Statutory reserve | 5,396,014 | 5,396,014 |
| Accumulated other comprehensive income | 11,389,924 | 11,119,887 |
| Retained earnings | 10,513,268 | 17,445,733 |
| Total Company stockholders' equity | 130,308,066 | 136,951,327 |
| NONCONTROLLING INTEREST | 1,027,464 | 1,084,237 |
| TOTAL EQUITY | 131,335,530 | 138,035,564 |
| TOTAL LIABILITIES AND EQUITY | \$172,739,334 | \$176,978,065 |

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

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SMARTHEAT INC. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS
(UNAUDITED)

| | THREE MONTHS ENDED MARCH 31, | |
|---|------------------------------|-----------------|
| | 2012 | 2011 |
| Net sales | \$ 6,746,398 | \$ 7,892,149 |
| Cost of goods sold | 5,074,937 | 5,330,229 |
| Gross profit | 1,671,461 | 2,561,920 |
| Operating expenses | | |
| Selling | 2,373,762 | 1,929,155 |
| General and administrative | 4,677,214 | 3,349,354 |
| Provision for bad debt allowance | 2,495,891 | 1,797,946 |
| Total operating expenses | 9,546,867 | 7,076,455 |
| Loss from operations | (7,875,406) | (4,514,535) |
| Non-operating income (expenses) | | |
| Interest income | 48,139 | 75,334 |
| Interest expense | (282,580) | (130,172) |
| Financial expense | (51,131) | (20,427) |
| Foreign exchange transaction loss | (16,345) | (125,100) |
| Other income | 1,162,964 | 32,705 |
| Total non-operating income (expenses), net | 861,047 | (167,660) |
| Loss before income tax | (7,014,359) | (4,682,195) |
| Income tax benefit | (24,104) | (680,899) |
| Net loss before noncontrolling interest | (6,990,255) | (4,001,296) |
| Less: Loss attributable to noncontrolling interest | (57,790) | (47,494) |
| Net loss to SmartHeat Inc. | (6,932,465) | (3,953,802) |
| Other comprehensive item | | |
| Foreign currency translation gain attributable to SmartHeat Inc. | 270,037 | 1,793,230 |
| Foreign currency translation gain attributable to noncontrolling interest | 1,017 | - |
| Comprehensive loss attributable to SmartHeat Inc. | \$ (6,662,428) | \$ (2,160,572) |
| Comprehensive loss attributable to noncontrolling interest | \$ (56,773) | \$ (47,494) |

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| | | |
|---|------------|------------|
| Basic weighted average shares outstanding | 3,955,774 | 3,855,194 |
| Diluted weighted average shares outstanding | 3,955,774 | 3,855,194 |
| Basic loss per share | \$ (1.75) | \$ (1.03) |
| Diluted loss per share | \$ (1.75) | \$ (1.03) |

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

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SMARTHEAT INC. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF CASH FLOWS
(UNAUDITED)

| | THREE MONTHS ENDED MARCH 31, | |
|---|---------------------------------|----------------|
| | 2012 | 2011 |
| CASH FLOWS FROM OPERATING ACTIVITIES: | | |
| Loss including noncontrolling interest | \$(6,990,255) | \$(4,001,296) |
| Adjustments to reconcile net loss including noncontrolling interest to net cash used in operating activities: | | |
| Depreciation and amortization | 467,833 | 366,811 |
| Provision for bad debts | 2,063,016 | 1,797,946 |
| Provision for other receivables | 386,536 | - |
| Provision for inventory impairment | 126,156 | - |
| Unearned interest on accounts receivable | (26,081) | (27,755) |
| Stock option expense | 19,167 | 51,085 |
| Changes in deferred tax | (24,760) | (752,593) |
| (Increase) decrease in current assets: | | |
| Accounts receivable | 4,966,662 | (844,730) |
| Retentions receivable | 542,728 | 163,638 |
| Advances to suppliers | 3,666,981 | (4,101,704) |
| Other receivables, prepayments and deposits | 98,927 | (4,840,886) |
| Inventories | (778,158) | (2,877,453) |
| Taxes receivable | (583,212) | - |
| Increase (decrease) in current liabilities: | | |
| Accounts payable | (3,039,905) | 2,270,069 |
| Unearned revenue | 89,621 | 619,602 |
| Taxes payable | (1,155,066) | (2,020,415) |
| Accrued liabilities and other payables | (177,567) | (1,263,461) |
| Net cash used in operating activities | (347,377) | (15,461,142) |
| CASH FLOWS FROM INVESTING ACTIVITIES: | | |
| Change in restricted cash | (1,938,601) | 753,705 |
| Acquisition of property & equipment | (8,693) | (830,858) |
| Acquisition of intangible assets | (7,927) | (63,176) |
| Cash paid for acquisition | - | (13,488,030) |
| Cash from acquisition of subsidiaries | - | 448,849 |
| Notes receivable | 833,325 | 777,259 |
| Advance for equipment purchase | (964,269) | - |
| Construction in progress | (812,935) | (160,210) |
| Net cash used in investing activities | (2,899,100) | (12,562,461) |
| CASH FLOWS FROM FINANCING ACTIVITIES: | | |
| Proceeds from short-term loans | 7,927,197 | 486,086 |
| Cash contribution from noncontrolling interest | - | 744,512 |

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| | | |
|--|--------------|---------------|
| Notes payable | (1,307,041) | - |
| Payment on notes payable | - | (1,342,691) |
| Net cash provided by (used in) financing activities | 6,620,156 | (112,093) |
| EFFECT OF EXCHANGE RATE CHANGE ON CASH & EQUIVALENTS | 59,948 | 307,134 |
| NET INCREASE (DECREASE) IN CASH & EQUIVALENTS | 3,433,627 | (27,828,562) |
| CASH & EQUIVALENTS, BEGINNING OF PERIOD | 12,419,922 | 56,806,471 |
| CASH & EQUIVALENTS, END OF PERIOD | \$15,853,549 | \$28,977,909 |
| Supplemental cash flow data: | | |
| Income tax paid | \$207,724 | \$1,343,218 |
| Interest paid | \$282,456 | \$141,263 |

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

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SMARTHEAT INC. AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
MARCH 31, 2012 (UNAUDITED) AND DECEMBER 31, 2011

1. ORGANIZATION AND DESCRIPTION OF BUSINESS

SmartHeat Inc., formerly known as Pacific Goldrim Resources, Inc. (the “Company” or “SmartHeat”), was incorporated on August 4, 2006, in the State of Nevada. The Company, through its operating subsidiaries in China and Germany, designs, manufactures, sells and services plate heat exchangers (“PHEs”), PHE Units, which combine PHEs with various pumps, temperature sensors, valves and automated control systems, heat meters and heat pumps for use in commercial and residential buildings.

On April 14, 2008, the Company entered into a Share Exchange Agreement (the “Share Exchange Agreement”) to acquire Shenyang Taiyu Machinery and Electronic Equipment Co., Ltd., subsequently renamed SmartHeat Taiyu (Shenyang) Energy Technology Co., Ltd. (“Taiyu”), a privately held Sino-foreign joint venture company formed under the laws of the People’s Republic of China (“PRC”) on July 24, 2002, and engaged in the design, manufacture, sale and servicing of plate heat exchange products in China. The Share Exchange Agreement was entered into by SmartHeat, Taiyu and the shareholders of Taiyu. Pursuant to the Share Exchange Agreement, all of the equitable and legal rights, title and interests in and to Taiyu’s share capital of Yuan 25,000,000 were exchanged for 1,850,000 shares of SmartHeat’s common stock (the “Share Exchange”). SmartHeat received PRC government approval on May 28, 2008, of its subscription for 71.6% of the registered capital of Taiyu, and approval on June 3, 2009, of the transfer of the remaining 28.4% ownership of Taiyu from the original joint venture shareholders who had received shares of SmartHeat common stock in the Share Exchange. Concurrent with the Share Exchange, one of SmartHeat’s shareholders cancelled 250,000 issued and outstanding shares of SmartHeat common stock pursuant to a split-off agreement dated April 14, 2008. As a result of the Share Exchange, Taiyu became a wholly foreign-owned enterprise of SmartHeat.

Prior to the acquisition of Taiyu, the Company was a non-operating public shell. Pursuant to Securities and Exchange Commission (“SEC”) rules, the merger or acquisition of a private operating company into or by a non-operating public shell with nominal net assets was considered a capital transaction rather than a business combination. Accordingly, for accounting purposes the transaction was treated as a reverse acquisition and recapitalization and pro-forma information was not presented. Transaction costs incurred in the reverse acquisition were expensed.

On September 25, 2008, the Company entered into a share exchange agreement with Asialink (Far East) Limited to acquire all of the outstanding capital stock of SanDeKe Co., Ltd., a Shanghai-based manufacturer of PHEs (“SanDeKe”) for \$741,516.

On June 12, 2009, the Company incorporated a new subsidiary, SmartHeat Siping Beifang Energy Technology Co., Ltd. (“SmartHeat Siping”), to manufacture PHEs.

On June 16, 2009, Taiyu closed an asset purchase transaction with Siping Beifang Heat Exchanger Manufacture Co., Ltd. (“Siping Beifang”), a company organized under the laws of the PRC, to purchase certain assets consisting of the plant, equipment and certain land use rights for RMB 54,000,000 (\$7,906,296). Taiyu then transferred all the acquired assets to SmartHeat Siping, the newly incorporated subsidiary. The Company paid RMB 7,250,000 (\$1,061,500) upon the completion of inventory inspection, with the remaining consideration paid as of June 30, 2011.

On August 14, 2009, the Company formed Beijing SmartHeat Jinhui Energy Technology Co., Ltd. (“Jinhui”), a joint venture in Beijing with registered capital of RMB 10 million (\$1.46 million), to provide consulting services and expand the Company’s sales of PHEs into new industries and regions of China. SmartHeat owns 52% of Jinhui and

invested \$765,000.

On April 7, 2010, the Company formed SmartHeat (China) Investment Co., Ltd. (“SmartHeat Investment”), an investment holding company and wholly owned subsidiary in Shenyang with registered capital of \$70 million.

On April 12, 2010, SmartHeat Investment formed SmartHeat (Shenyang) Energy Equipment Co., Ltd. (“SmartHeat Energy”), a wholly owned subsidiary in Shenyang with registered capital of \$30 million, for the research, development, manufacturing and sales of energy products.

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SMARTHEAT INC. AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
MARCH 31, 2012 (UNAUDITED) AND DECEMBER 31, 2011

On May 6, 2010, the Company formed SmartHeat (Shanghai) Trading Co., Ltd. (“SmartHeat Trading”) through a nominee to market and expand sales of the Company’s Taiyu-branded products. The Company made a capital contribution of \$1.5 million and, from inception until November 9, 2011, controlled and was entitled to 100% of the profit or loss of SmartHeat Trading pursuant to an investment agreement dated February 1, 2010. Effective as of November 9, 2011, the Company terminated the nominee-owner relationship and acquired direct control over SmartHeat Trading.

On January 7, 2011, the Company invested \$771,658 for 51% of the equity interest in Hohhot Ruicheng Technology Co., Ltd. (“Ruicheng”), a joint venture formed on December 2, 2010, in Hohhot City, China, for the design and manufacture of heat meters.

On March 1, 2011, the Company entered into a purchase agreement with Shenyang Bingchuan Refrigerating Machine Limited Company, a Shenyang-based state-owned heat pump manufacturer and designer, which was renamed SmartHeat (Shenyang) Heat Pump Technology Co., Ltd. (“SmartHeat Pump”). The Company paid RMB 50 million (\$7.6 million) to acquire 95% of the equity interest in SmartHeat Pump, with a local government entity retaining the remaining 5% equity interest.

On March 3, 2011, the Company completed the acquisition of Gustrower Warmepumpen GmbH, a designer and manufacturer of high efficiency heat pumps in Germany subsequently renamed SmartHeat Deutschland GmbH (“SmartHeat Germany”), from Conergy AG for EUR 4,248,082 (\$5,898,887) paid at closing. This acquisition will extend the Company’s clean technology heating solutions into the rapidly growing heat pump markets in Europe and China, enabling its customers to purchase technologically advanced heat pumps at competitive prices.

Effective February 7, 2012, the Company implemented a one-for-ten reverse stock split of its common stock as approved by the Board of Directors on January 19, 2012. All share amounts and per share prices were retroactively adjusted to reflect the effect of this reverse stock split.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Presentation

The consolidated financial statements have been prepared in accordance with generally accepted accounting principles in the United States of America (“U.S. GAAP”).

The consolidated interim financial information as of March 31, 2012, and for the three month periods ended March 31, 2012 and 2011, were prepared without audit, pursuant to the rules and regulations of the SEC. Certain information and footnote disclosures normally included in consolidated financial statements prepared in accordance with U.S. GAAP are not included. The interim consolidated financial information 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 fiscal year ended December 31, 2011, previously filed with the SEC.

In the opinion of management, all adjustments (which include normal recurring adjustments) necessary to present a fair statement of the Company’s consolidated financial position as of March 31, 2012, its consolidated results of operations and cash flows for the three month periods ended March 31, 2012 and 2011, as applicable, were made. The interim results of operations are not necessarily indicative of the operating results for the full fiscal year or any future

periods.

Principles of Consolidation

The accompanying consolidated financial statements include the accounts of SmartHeat's U.S. parent, Taiyu, SanDeKe, SmartHeat Siping, Jinhui, SmartHeat Investment, SmartHeat Energy, SmartHeat Trading, Ruicheng, SmartHeat Germany and SmartHeat Pump, which are collectively referred to as the "Company." All significant intercompany accounts and transactions were eliminated in consolidation.

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SMARTHEAT INC. AND SUBSIDIARIES
 NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
 MARCH 31, 2012 (UNAUDITED) AND DECEMBER 31, 2011

Noncontrolling Interest

The Company follows Financial Accounting Standards Board's ("FASB") Accounting Standards Codification ("ASC") Topic 810, "Consolidation," which established new standards governing the accounting for and reporting of noncontrolling interests ("NCIs") in partially owned consolidated subsidiaries and the loss of control of subsidiaries. Certain provisions of this standard indicate, among other things, that NCIs, previously referred to as minority interests, be treated as a separate component of equity, not as a liability, as was previously the case, that increases and decreases in the parent's ownership interest that leave control intact be treated as equity transactions rather than as step acquisitions or dilution gains or losses and that losses of a partially owned consolidated subsidiary be allocated to the NCI even when such allocation might result in a deficit balance. This standard also required changes to certain presentation and disclosure requirements. Losses attributable to the NCI in a subsidiary may exceed the NCI's interests in the subsidiary's equity. The excess attributable to the NCI is attributed to those interests. The NCI shall continue to be attributed its share of losses even if that attribution results in a deficit NCI balance.

Use of Estimates

In preparing the financial statements in conformity with U.S. GAAP, management makes estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the dates of the financial statements, as well as the reported amounts of revenues and expenses during the reporting period. Significant estimates, required by management, include the recoverability of long-lived assets, allowance for doubtful accounts and the reserve for obsolete and slow-moving inventories. Actual results could differ from those estimates.

Cash and Equivalents

For purposes of the statement of cash flows, the Company considers all highly liquid investments with an original maturity of three months or less to be cash equivalents. As of March 31, 2012, the Company maintained restricted cash of \$4.84 million in several bank accounts, of which \$1.14 million was cash deposits from customers for securing payment from such customers no later than the warranty period expiration, \$0.83 million was deposits the Company paid to a commercial bank for the bank issuing bank acceptances to the Company's vendors, \$2.86 million was deposits for earning interest income and \$11,941 was deposit for letter of credit. Of the total restricted cash at March 31, 2012, \$4.60 million will be released to the Company within one year. As of December 31, 2011, the Company maintained restricted cash of \$2.89 million in several bank accounts, of which \$1.38 million was cash deposits from customers for securing payment from such customers no later than the warranty period expiration; \$1.48 million was deposits the Company paid to a commercial bank for the bank issuing bank acceptances to the Company's vendors and \$31,742 was deposit for letter of credit. Of the total restricted cash at December 31, 2011, \$2.69 million will be released to the Company within one year.

The following table presents in U.S. dollars ("USD") the amount of cash and cash equivalents held by the Company as of March 31, 2012, and December 31, 2011, based on the jurisdiction of deposit. The Company's U.S. parent holds cash and cash equivalents in U.S. bank accounts denominated in USD.

| As of March 31, 2012 | United States | China | Germany | Total |
|-------------------------|---------------|---------------|--------------|---------------|
| Cash in bank | \$ 27,469 | \$ 14,570,831 | \$ 1,247,402 | \$ 15,845,702 |
| Cash on hand | - | 7,847 | - | 7,847 |

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| | | | | | | | | |
|------------|----|--------|----|------------|----|-----------|----|------------|
| Total cash | \$ | 27,469 | \$ | 14,578,678 | \$ | 1,247,402 | \$ | 15,853,549 |
|------------|----|--------|----|------------|----|-----------|----|------------|

As of December

| 31, 2011 | United States | China | Germany | Total |
|--------------|---------------|---------------|--------------|---------------|
| Cash in bank | \$ 282,359 | \$ 10,555,706 | \$ 1,570,632 | \$ 12,408,697 |
| Cash on hand | - | 11,225 | - | 11,225 |
| Total cash | \$ 282,359 | \$ 10,566,931 | \$ 1,570,632 | \$ 12,419,922 |

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SMARTHEAT INC. AND SUBSIDIARIES
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
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Accounts and Retentions Receivable

The Company maintains reserves for potential credit losses on accounts receivable. Management reviews the composition of accounts receivable and analyzes historical bad debts, customer concentrations, customer credit worthiness, current economic trends and changes in customer payment patterns to evaluate the adequacy of these reserves. Based on historical collection activity, the Company had allowances of \$12.66 million and \$10.58 million at March 31, 2012, and December 31, 2011, respectively.

At March 31, 2012, and December 31, 2011, the Company had retentions receivable from customers for product quality assurance of \$3.7 million and \$4.3 million, respectively. The retention rate varies from 5% to 20% of the sales price with variable terms from 3 to 24 months depending on the shipping date, and for PHE Units, the customer acceptance date, of the products and the number of heating seasons that the warranty period covers.

Accounts receivable is net of unearned interest of \$31,753 and \$57,828 at March 31, 2012, and December 31, 2011, respectively. Unearned interest is imputed interest on accounts receivable with due dates over 1 year from the invoice date discounted at the Company's borrowing rate of 6.56% at March 31, 2012, and December 31, 2011.

Advance to Suppliers

The Company makes advances to certain vendors to purchase material and equipment. The advances are interest-free and unsecured.

Inventories

Inventories are valued at the lower of cost or market, with cost determined on a moving weighted-average basis. Cost of work in progress and finished goods comprises direct material, direct labor and an allocated portion of production overheads.

Property and Equipment

Property and equipment are stated at cost, net of accumulated depreciation. Expenditures for maintenance and repairs are expensed as incurred; additions, renewals and betterments are capitalized. When property and equipment are retired or otherwise disposed of, the related cost and accumulated depreciation are removed from the respective accounts and any gain or loss is included in operations. Depreciation of property and equipment is provided using the straight-line method with a 10% salvage value and estimated lives as follows:

| | |
|----------------------|------------|
| Building | 20 years |
| Vehicles | 5 years |
| Office equipment | 5 years |
| Production equipment | 5-10 years |

Land Use Rights

Right to use land is stated at cost less accumulated amortization. Amortization is provided using the straight-line method over 50 years.

Impairment of Long-Lived Assets

Long-lived assets, which include tangible assets, such as property, plant and equipment, goodwill and other intangible assets, are reviewed for impairment whenever events or changes in circumstances indicate the carrying amount of an asset may not be recoverable.

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Recoverability of long-lived assets to be held and used is measured by comparing the carrying amount of an asset to the estimated undiscounted future cash flows expected to be generated by the asset. If the carrying amount of an asset exceeds its estimated undiscounted future cash flows, an impairment charge is recognized based on the excess of the carrying amount over the fair value of the assets. Fair value generally is determined using the asset's expected future discounted cash flows or market value, if readily determinable. The Company evaluates goodwill and intangible assets with indefinite lives for impairment annually using a two-step approach. Based on this valuation approach, the Company concluded that the goodwill balance of \$6.06 million for SmartHeat Pump and \$2.90 million for SmartHeat Germany was impaired as of December 31, 2011, as discussed following under Goodwill. Based on its review, the Company believes that, as of March 31, 2012, and December 31, 2011, there were no significant impairments of its other long-lived assets.

Warranties

The Company offers to all customers standard warranties on its products for one or two heating seasons depending on the terms negotiated. The Company accrues for warranty costs based on estimates of the costs that may be incurred under its warranty obligations. The warranty expense and related accrual is included in the Company's selling expenses and other payables respectively, and is recorded when revenue is recognized. Factors that affect the Company's warranty liability include the number of units sold, its estimates of anticipated rates of warranty claims, costs per claim and estimated support labor costs and the associated overhead. The Company periodically assesses the adequacy of its recorded warranty liabilities and adjusts the amounts as necessary.

Activity in the Company's warranty reserve from January 1, 2011, to March 31, 2012, is as follows:

| | 2012 | 2011 |
|---|------------|------------|
| Beginning balance | \$ 515,812 | \$ 398,292 |
| Provisions | 401,771 | 620,722 |
| Actual costs incurred | (401,771) | (503,202) |
| Due to exchange rate | 541 | - |
| Ending balance in current liabilities (See Note 10) | \$ 516,353 | \$ 515,812 |

Research and Development Costs

Research and development costs are expensed as incurred and included in general and administrative expenses. These costs primarily consist of cost of materials used, salaries paid for the Company's development department and fees paid to third parties. Research and development costs for the three months ended March 31, 2012 and 2011, were \$50,934 and \$128,982, respectively.

Income Taxes

The Company utilizes Statement of Financial Accounting Standards ("SFAS") No. 109, "Accounting for Income Taxes" (codified in FASB ASC Topic 740), which requires recognition of deferred tax assets and liabilities for expected future tax consequences of events included in the financial statements or tax returns. Under this method, deferred income taxes are recognized for the tax consequences in future years of differences between the tax bases of assets and liabilities and their financial reporting amounts at each period end based on enacted tax laws and statutory tax

rates applicable to the periods in which the differences are expected to affect taxable income. Valuation allowances are established, when necessary, to reduce deferred tax assets to the amount expected to be realized.

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The Company follows the provisions of FASB Interpretation No. 48, “Accounting for Uncertainty in Income Taxes” (codified in FASB ASC Topic 740). When tax returns are filed, it is likely that some positions taken would be sustained upon examination by the taxing authorities, while others are subject to uncertainty about the merits of the position taken or the amount of the position that would be ultimately sustained. The benefit of a tax position is recognized in the financial statements in the period during which, based on all available evidence, management believes it is more likely than not that the position will be sustained upon examination, including the resolution of appeals or litigation processes, if any. Tax positions taken are not offset or aggregated with other positions. Tax positions that meet the more-likely-than-not recognition threshold are measured as the largest amount of tax benefit that is more than 50 percent likely of being realized upon settlement with the applicable taxing authority. The portion of the benefits associated with tax positions taken that exceeds the amount measured as described above is reflected as a liability for unrecognized tax benefits in the accompanying balance sheets along with any associated interest and penalties that would be payable to the taxing authorities upon examination.

Interest associated with unrecognized tax benefits is classified as interest expense and penalties are classified as selling, general and administrative expense in the statements of income. At March 31, 2012, the Company had not taken any significant uncertain tax position on its tax returns for 2011 or prior years, or in computing its tax provision for 2012.

Revenue Recognition

The Company’s revenue recognition policies are in compliance with SEC Staff Accounting Bulletin (“SAB”) 104 (codified in FASB ASC Topic 605). Sales revenue is recognized when PHEs, heat meters and heat pumps are delivered, and for PHE Units when customer acceptance occurs, the price is fixed or determinable, no other significant obligations of the Company exist and collectability is reasonably assured. Payments received before all of the relevant criteria for revenue recognition met are recorded as unearned revenue under “Advance from customers.”

The Company’s sales generally provide for 30% of the purchase price on placement of an order, 30% on delivery, 30% upon installation and acceptance of the equipment after customer testing and 10% no later than the termination of the standard warranty period, which ranges from 3 to 24 months from the acceptance date.

Sales revenue is the invoiced value of goods, net of value-added tax (“VAT”). All of the Company’s products sold in the PRC are subject to a VAT of 17% of the gross sales price. This VAT may be offset by the VAT paid by the Company on raw materials and other materials purchased in China and included in the cost of producing the Company’s finished product. The Company recorded VAT payable and VAT receivable net of payments in the financial statements. The VAT tax return is filed offsetting the payables against the receivables. SmartHeat Germany, the Company’s German subsidiary, is subject to 19% VAT.

Sales and purchases are recorded net of VAT collected and paid as the Company acts as an agent for the government. VAT taxes are not affected by the income tax holiday.

Sales returns and allowances were \$0 for the three months ended March 31, 2012 and 2011. The Company does not provide a right of return, price protection or any other concessions to its customers.

The Company provides a standard warranty to all customers, which is not considered an additional service; rather, an integral part of the product’s sale. The Company believes the existence of its standard product warranty in a sales

contract does not constitute a deliverable in the arrangement and thus there is no need to apply the EITF 00-21 (codified in FASB ASC Topic 605-25) separation and allocation model for a multiple deliverable arrangement. SFAS 5 (codified in FASB ASC Topic 450) specifically addresses the accounting for standard warranties and neither SAB 104 nor EITF 00-21 supersedes SFAS 5. The Company believes that accounting for its standard warranty pursuant to SFAS 5 does not impact revenue recognition because the cost of honoring the warranty can be reliably estimated.

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The Company charges for after-sales services provided after the expiration of the warranty period, with after-sales services mainly consisting of cleaning PHEs and repairing and exchanging parts. The Company recognizes such revenue when service is provided. For the three months ended March 31, 2012 and 2011, revenue from after-sales services after the expiration of the warranty period was \$175,900 and \$84,800, respectively, which was recorded in other income.

Cost of Goods Sold

Cost of goods sold consists primarily of material costs and direct labor and manufacturing overhead that are directly attributable to the products. Write-down of inventories to the lower of cost or market is also recorded in cost of goods sold.

Advance from Customers

The Company records payments received from customers in advance of their orders to advance account. These orders normally are delivered within a reasonable period of time based upon contract terms with the customers.

Concentration of Credit Risk

Cash includes cash on hand and demand deposits in accounts maintained within China. Balances at financial institutions within China are not covered by insurance. The Company has not experienced any losses in such accounts.

Certain other financial instruments, which subject the Company to concentration of credit risk, consist of accounts and other receivables. The Company does not require collateral or other security to support these receivables. The Company conducts periodic reviews of its customers' financial condition and customer payment practices to minimize collection risk on accounts receivable.

The operations of the Company are located primarily in China. Accordingly, the Company's business, financial condition and results of operations may be influenced by the political, economic and legal environments in China, as well as by the general state of the PRC economy.

Goodwill

Goodwill is the excess of purchase price and related costs over the value assigned to the net tangible and identifiable intangible assets of businesses acquired. In accordance with SFAS No. 142, "Goodwill and Other Intangible Assets" ("Statement No. 142"), codified in ASC Topic 350, goodwill is not amortized but is tested for impairment, annually or when circumstances indicate a possible impairment may exist. Impairment testing is performed at a reporting unit level. An impairment loss generally would be recognized when the carrying amount of the reporting unit exceeds its fair value, with the fair value of the reporting unit determined using discounted cash flow ("DCF") analysis. A number of significant assumptions and estimates are involved in the application of the DCF analysis to forecast operating cash flows, including the discount rate, the internal rate of return and projections of realizations and costs to produce. Management considers historical experience and all available information at the time the fair values of its reporting units are estimated.

The excess of the purchase price for SmartHeat Germany over the fair value of the net assets acquired of \$5.1 million (EUR 3.69 million at acquisition date) was recorded as goodwill. The excess of the purchase price for SmartHeat Pump over the fair value of the net assets acquired of \$5.6 million was recorded as goodwill.

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The Company performed annual goodwill impairment assessment for SmartHeat Germany and SmartHeat Pump as of December 31, 2011. The goodwill balance prior to the impairment charge was \$10.97 million and was established primarily as a result of the acquisitions of SmartHeat Germany and SmartHeat Pump in 2011. The Company completed the step one analysis using DCF, which involved comparing the fair value of the reporting unit with the unit's book value. The DCF method uses revenue and expense projections and risk-adjusted discount rates. The process of determining fair value is subjective and requires management to exercise judgment in determining future growth rates, discount and tax rates and other factors. The current economic environment has impacted the Company's ability to forecast future demand and has in turn resulted in the use of higher discount rates, reflecting the risk and uncertainty in current markets. The results of the step one analysis indicated potential impairment in the SmartHeat Germany and SmartHeat Pump reporting units corroborated by a combination of factors including a decline in the market capitalization, which is below the book value, and the deteriorating macro environment, which has resulted in a decline in expected future demand. The Company therefore performed the second step of the goodwill impairment assessment to quantify the amount of impairment. This process involved calculating the implied fair value of goodwill, determined in a manner similar to a purchase price allocation, and comparing the residual amount to the carrying amount of goodwill. This analysis incorporated the declining market capitalization in 2011 and the significant end market deterioration and economic uncertainties impacting expected future demand, including the continued tightened fiscal policy in China and difficulties in obtaining bank leasing loans that have contributed to a general slowdown in many sectors of China's economy and caused the abandonment of certain projects by the Company's customers, which in turn resulted in an unexpected cancelation of orders and delays in the performance of PHE Unit and PHE contracts. Based on this analysis, the Company concluded that the goodwill balance of \$6.06 million for SmartHeat Pump and \$2.90 million for SmartHeat Germany was impaired as of December 31, 2011. The goodwill impairment charge is non-cash in nature. The goodwill impairment charge is not deductible for income tax purposes and, therefore, the Company has not recorded a corresponding tax benefit in 2011.

Statement of Cash Flows

In accordance with SFAS No. 95, "Statement of Cash Flows," codified in FASB ASC Topic 230, cash flows from the Company's operations are calculated based upon the local currencies. As a result, amounts shown on the statement of cash flows may not necessarily agree with changes in the corresponding asset and liability on the balance sheet.

Basic and Diluted Earnings (Loss) per Share (EPS)

Basic EPS is computed by dividing income available to common shareholders by the weighted average number of common shares outstanding for the period. Diluted EPS is computed similarly, except that the denominator is increased to include the number of additional common shares that would have been outstanding if the potential common shares had been issued and if the additional common shares were dilutive. Diluted EPS are based on the assumption that all dilutive convertible shares and stock options were converted or exercised. Dilution is computed by applying the treasury stock method. Under this method, options and warrants are assumed to have been exercised at the beginning of the period (or at the time of issuance, if later), and as if funds obtained thereby were used to purchase common stock at the average market price during the period.

The following table presents a reconciliation of basic and diluted loss per share for the three months ended March 31, 2012 and 2011:

| | 2012 | 2011 |
|--|------|------|
|--|------|------|

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| | | | | |
|---|----|-------------|----|-------------|
| Net loss | \$ | (6,932,465) | \$ | (3,953,802) |
| Weighted average shares outstanding - basic | | 3,955,774 | | 3,855,194 |
| Effect of dilutive securities: | | | | |
| Unexercised warrants and options | | - | | - |
| Weighted average shares outstanding - diluted | | 3,955,774 | | 3,855,194 |
| Loss per share - basic | \$ | (1.75) | \$ | (1.03) |
| Loss per share - diluted | \$ | (1.75) | \$ | (1.03) |

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Basic and diluted loss per share are the same for the three months ended March 31, 2012 and 2011, because the common stock equivalent of the convertible securities outstanding, consisting of unexercised warrants issued to investors and options issued to the Company's directors and an officer, are antidilutive and, accordingly, were excluded from the computation of diluted earnings (loss) per share. At March 31, 2012, and December 31, 2011, options to purchase 6,000 and 6,000 shares of common stock were outstanding, respectively, of which options to purchase 3,500 and 3,500 shares of common stock were exercisable, respectively, and warrants to purchase 0 shares of common stock were outstanding and exercisable.

Fair Value of Financial Instruments

For certain of the Company's financial instruments, including cash and equivalents, restricted cash, accounts receivable, accounts payable, accrued liabilities and short-term debt, the carrying amounts approximate their fair values due to their short maturities. ASC Topic 820, "Fair Value Measurements and Disclosures," requires disclosure of the fair value of financial instruments held by the Company. ASC Topic 825, "Financial Instruments," defines fair value, and establishes a three-level valuation hierarchy for disclosures of fair value measurement that enhances disclosure requirements for fair value measures. The carrying amounts reported in the consolidated balance sheets for receivables and current liabilities each qualify as financial instruments and are a reasonable estimate of their fair values because of the short period of time between the origination of such instruments and their expected realization and their current market rate of interest. The three levels of valuation hierarchy are defined as follows:

- Level 1 inputs to the valuation methodology are quoted prices for identical assets or liabilities in active markets.
- Level 2 inputs to the valuation methodology include quoted prices for similar assets and liabilities in active markets, and inputs that are observable for the asset or liability, either directly or indirectly, for substantially the full term of the financial instrument.
- Level 3 inputs to the valuation methodology are unobservable and significant to the fair value measurement.

The Company analyzes all financial instruments with features of both liabilities and equity under ASC 480, "Distinguishing Liabilities from Equity," and ASC 815.

As of March 31, 2012, and December 31, 2011, the Company did not identify any assets and liabilities that are required to be presented on the balance sheet at fair value.

Foreign Currency Translation and Comprehensive Income (Loss)

The accounts of the U.S. parent company are maintained in USD. The functional currency of the Company's China subsidiaries is the Chinese Yuan Renminbi ("RMB") and the functional currency of SmartHeat Germany, the Company's subsidiary in Germany, is the Euro ("EUR"). The accounts of the China subsidiaries and German subsidiary were translated into USD in accordance with SFAS No. 52, "Foreign Currency Translation" (codified in FASB ASC Topic 830). According to SFAS No. 52, all assets and liabilities were translated at the exchange rate on the balance sheet date, stockholders' equity was translated at the historical rates and statement of operations items were translated at

the average exchange rate for the year. The resulting translation adjustments are reported under other comprehensive income in accordance with SFAS No. 130, "Reporting Comprehensive Income" (codified in FASB ASC Topic 220).

The RMB to USD exchange rates in effect as of March 31, 2012, and December 31, 2011, were RMB6.2943 = \$1 and RMB6.3009 = \$1, respectively. The weighted-average RMB to USD exchange rates in effect for the three months ended March 31, 2012 and 2011, were RMB6.3074 = \$1 and RMB6.5832 = \$1, respectively. The exchange rates used in translation from RMB to USD were published by the People's Bank of the People's Republic of China.

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The EUR to USD exchange rate in effect as of March 31, 2012, and December 31, 2011, were EUR0.7497 = \$1 and EUR0.7723 = \$1, respectively. The weighted-average EUR to USD exchange rate in effect for the three months ended March 31, 2012 and 2011, were EUR0.7630 = \$1 and EUR 0.7319 = \$1, respectively. The exchange rates used in translation from EUR to USD were published by OANDA Rates.

Stock-Based Compensation

The Company accounts for its stock-based compensation in accordance with SFAS No. 123R, “Share-Based Payment, an Amendment of FASB Statement No. 123” (codified in FASB ASC Topics 718 and 505). The Company recognizes in the income statement the grant date fair value of stock options and other equity-based compensation issued to employees and non-employees.

Segment Reporting

SFAS No. 131, “Disclosures about Segments of an Enterprise and Related Information” (codified in FASB ASC Topic 280), requires use of the “management approach” model for segment reporting. The management approach model is based on the way a company’s management organizes segments within the company for making operating decisions and assessing performance. Reportable segments are based on products and services, geography, legal structure, management structure, or any other manner in which management disaggregates a company.

SFAS No. 131 has no effect on the Company’s financial statements as management determined that substantially all of the Company’s operations are conducted in one industry segment.

The following table sets forth a summary of sales by product line for the three months ended March 31, 2012 and 2011:

| | 2012 | 2011 |
|-------------|---------------|---------|
| | (in millions) | |
| PHEs | \$ 3.40 | \$ 3.39 |
| PHE Units | 2.83 | 3.06 |
| Heat meters | 0.03 | 0.92 |
| Heat pumps | 0.49 | 0.52 |
| | \$ 6.75 | \$ 7.89 |

Reclassifications

Certain prior period amounts were reclassified to conform to the presentation in the current period, including reclassification of \$1,797,946 provision for bad debt allowance from changes in accounts receivable in the consolidated cash flow statement.

New Accounting Pronouncements

In May 2011, the FASB issued ASU No. 2011-04, “Amendments to Achieve Common Fair Value Measurement and Disclosure Requirements in U.S. GAAP and IFRSs,” which is adopted for fiscal years, and interim periods within those years, beginning after December 15, 2011, for public entities with retrospective application. There was no material

impact on the Company's consolidated financial statements upon adoption.

In June 2011, the FASB issued ASU No. 2011-05, "Presentation of Comprehensive Income." Under the amendments in this ASU, an entity has two options for presenting its total comprehensive income: (1) to present total comprehensive income and its components along with the components of net income in a single continuous statement or (2) in two separate but consecutive statements. The amendments in this ASU are required to be applied retrospectively and are effective for fiscal years, and interim periods within those years, beginning after December 15, 2011, with early adoption permitted. There was no material impact on the Company's consolidated financial statements upon adoption.

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In September 2011, the FASB issued ASU No. 2011-08, “Intangibles—Goodwill and Other (Topic 350)—Testing Goodwill for Impairment,” to simplify how entities test goodwill for impairment. ASU No. 2011-08 allows entities to first assess qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If greater than 50 percent likelihood exists that the fair value is less than the carrying amount, then a two-step goodwill impairment test as described in Topic 350 must be performed. The guidance provided by this update becomes effective for annual and interim goodwill impairment tests performed for fiscal years beginning after December 15, 2011. The Company adopted this ASU beginning with its Quarterly Report on Form 10-Q for the three months ended March 31, 2012. There was no material impact on the Company’s consolidated financial statements upon adoption.

As of March 31, 2012, there is no other recently issued accounting standards not yet adopted that would have a material effect on the Company’s consolidated financial statements.

3. INVENTORIES

Inventories at March 31, 2012, and December 31, 2011, were as follows:

| | 2012 | 2011 |
|---------------------|---------------|---------------|
| Raw materials | \$ 41,911,493 | \$ 39,280,141 |
| Work in process | 10,026,502 | 6,496,349 |
| Finished goods | 6,410,708 | 11,699,008 |
| Total | 58,348,703 | 57,465,498 |
| Inventory allowance | (3,957,381) | (3,826,949) |
| Net | \$ 54,391,322 | \$ 53,648,549 |

4. NOTES RECEIVABLE – BANK ACCEPTANCES

The Company sold goods to its customers and received commercial notes (bank acceptance) from them in lieu of payments for accounts receivable. The Company discounted the commercial notes with the bank or endorsed the commercial notes to vendors for payment of their own obligations or to get cash from third parties. Most of the commercial notes have a maturity of less than six months. As of March 31, 2012, the Company is contingently liable for notes endorsed to vendors of \$2,372,612. As of December 31, 2011, the Company is contingently liable for notes endorsed to vendors of \$214,260.

5. PROPERTY AND EQUIPMENT, NET

Property and equipment consisted of the following at March 31, 2012, and December 31, 2011:

| | 2012 | 2011 |
|--------------------------------|--------------|--------------|
| Building | \$ 4,794,174 | \$ 4,789,152 |
| Production equipment | 7,406,745 | 7,372,253 |
| Office equipment | 908,662 | 978,291 |
| Vehicles | 1,107,338 | 1,038,058 |
| Total | 14,216,919 | 14,177,754 |
| Less: accumulated depreciation | (3,125,810) | (2,829,153) |

| | | | |
|-----|----|------------|--------------|
| Net | \$ | 11,091,109 | \$11,348,601 |
|-----|----|------------|--------------|

Depreciation expense for the three months ended March 31, 2012 and 2011, was \$302,815 and \$236,840, respectively.

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6. OTHER RECEIVABLES, PREPAYMENTS AND DEPOSITS

Other receivables, prepayments and deposits consisted of the following at March 31, 2012, and December 31, 2011, respectively:

| | 2012 | 2011 |
|--|--------------|--------------|
| Advance to third parties | \$ 4,011,380 | \$ 4,473,539 |
| Deposit for public bids of sales contracts | 640,224 | 617,088 |
| Prepayment for freight, related, insurance and consulting expenses | 94,081 | 238,855 |
| Other deposits | 63,737 | 91,988 |
| Advance to employees | 619,109 | 351,847 |
| Others | 1,143,503 | 890,013 |
| Total | 6,572,034 | 6,663,330 |
| Less: bad debt allowance for other receivables | (387,341) | - |
| Net | \$ 6,184,693 | \$ 6,663,330 |

Advance to third parties were short-term advances to unrelated parties with payment usually due within a year and includes an advance to Siping Beifang of RMB 22 million (\$3.5 million) that is non-interest bearing and with due date extended to September 30, 2012. Deposits for public bidding represented the deposits for bidding on expected contracts, which will be returned to the Company after the bidding process is completed, usually within three to four months from the payment date. Prepayment for freight and related insurance expenses represented prepaid shipping and freight insurance expenses for customers and is generally repaid upon customer receipt of products. Other deposits mainly consisted of deposits for rents, payroll expense and utilities. Advance to employees represented short-term loans to employees and advances for business trips and related expenses. Other receivables, prepayments and deposits are reimbursed or settled within 12 months.

7. INTANGIBLE ASSETS

Intangible assets consisted mainly of land use rights, trademark, computer software, know-how technology, customer list and covenant not to compete. All land in the PRC is government-owned and cannot be sold to any individual or company. However, the government grants the user a "land use right" to use the land. The Company acquired land use rights during 2005 for \$440,000 (RMB 3,549,682). In June 2009, the Company acquired land use rights for \$3.1 million from Siping Beifang. In November 2010, the Company's subsidiary, SmartHeat Energy, acquired land use rights for \$10.1 million. The Company has the right to use the land for 50 years and is amortizing such rights on a straight-line basis for 50 years.

Intangible assets consisted of the following at March 31, 2012, and December 31, 2011, respectively:

| | Estimated Useful Life (In years) | 2012 | 2011 |
|-----------------|---|---------------|---------------|
| Land use rights | 50 | \$ 14,691,872 | \$ 14,676,483 |

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| | | | |
|-----------------------------------|--------|---------------|---------------|
| Know-how technology | 5 – 10 | 882,840 | 881,915 |
| Customer list | 5 | 208,103 | 207,885 |
| Covenant not to compete | 5 | 113,208 | 113,089 |
| Software | 5 | 524,385 | 517,474 |
| Trademark | 7 | 289,186 | 288,883 |
| Total | | 16,709,594 | 16,685,729 |
| Less: accumulated amortization | | (1,422,407) | (1,265,924) |
| Net | | \$ 15,287,187 | \$ 15,419,805 |

Amortization of intangible assets for the three months ended March 31, 2012 and 2011, was \$165,018 and \$105,550, respectively. Annual amortization for the next five years from March 31, 2012, is expected to be \$601,000, \$509,000, \$450,000, \$420,000 and \$414,000.

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8. CONSTRUCTION IN PROGRESS

The Company had construction in progress of \$1,338,051 at March 31, 2012, with three ongoing projects. SmartHeat Energy is building a factory with a total estimated cost of \$9 million, of which the Company has paid \$455,000 as of March 31, 2012. The Company temporarily halted construction on this factory because of the current economic and market conditions in China. SmartHeat Siping has a construction project of \$77,000 for the laying of a foundation for its machinery installation. This foundation project will be completed in 2012, with remaining cost to complete of \$12,000. Taiyu paid \$0.81 million for equipment and its installation, which is expected to be completed in July 2012, with remaining cost to be paid of \$0.54 million.

9. TAXES RECEIVABLE AND PAYABLE

Taxes receivable consisted of the following at March 31, 2012:

| | 2012 |
|----------------------------|-------------------|
| Income tax receivable | \$ 82,991 |
| Value-added tax receivable | 502,663 |
| Total | \$ 585,654 |

Taxes payable consisted of the following at March 31, 2012, and December 31, 2011:

| | 2012 | 2011 |
|-----------------|------------------|---------------------|
| Income tax | \$ - | \$ 182,560 |
| Value-added tax | - | 962,903 |
| Other taxes | 23,644 | 33,249 |
| Total | \$ 23,644 | \$ 1,178,712 |

10. ACCRUED LIABILITIES AND OTHER PAYABLES

Accrued liabilities and other payables consisted of the following at March 31, 2012, and December 31, 2011:

| | 2012 | 2011 |
|-------------------------------|---------------------|---------------------|
| Advance from third parties | \$ 1,194,411 | \$ 981,658 |
| Payable to Siping Beifang | 1,015,188 | 1,377,060 |
| Other payables | 769,024 | 681,810 |
| Warranty reserve (See Note 2) | 516,353 | 515,812 |
| Accrued expenses | 498,996 | 579,958 |
| Total | \$ 3,993,972 | \$ 4,136,298 |

Advance from third parties were short-term, non-interest-bearing advances from third parties. Other payables consisted of payables for the Company's miscellaneous expenses including postage, business insurance, employee benefits, bidding fee, etc. Accrued expenses mainly consisted of accrued purchases, interest and utility.

11. NOTES PAYABLE – BANK ACCEPTANCES

Notes payable represented the conversion of accounts payable into notes payable, which were issued by a bank. The Company deposited a portion of the acceptance amount into the bank as collateral. The terms of the notes range from 3-6 months and bear no interest. At March 31, 2012, and December 31, 2011, the Company deposited \$0.83 million and \$1.48 million with the bank as restricted cash for the bank issuing the notes. The restricted cash is refundable when the notes are repaid.

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12. LOANS PAYABLE - BANK

Short-Term Loans

The Company was obligated for the following short-term loans as of March 31, 2012, and December 31, 2011:

| | 2012 | 2011 |
|--|---------------|---------------|
| From a commercial bank in the PRC for RMB 25,000,000 entered into on October 18, 2010. The loan currently bears interest at 7.22% with maturity on October 17, 2011, and was renewed until September 13, 2012. The loan was pledged by bank deposit. | \$ 3,971,848 | \$ 3,967,687 |
| From a commercial bank in the PRC for RMB 10,000,000 entered into on June 27, 2011. The loan currently bears interest at 7.57% with maturity on June 27, 2012. The loan was pledged by bank deposit. | 1,588,739 | 1,587,075 |
| From a commercial bank in the PRC for RMB 3,000,000 entered into on June 30, 2011. The loan currently bears interest at 6.63% with maturity on June 29, 2012. The loan was guaranteed by a third party. | 476,622 | 476,122 |
| From a commercial bank in the PRC for RMB 5,000,000 entered into on July 6, 2011. The loan currently bears interest at 6.63% with maturity on July 5, 2012. The loan was guaranteed by a third party. | 794,370 | 793,537 |
| From a commercial bank in the PRC for RMB 3,000,000 entered into on July 15, 2011. The loan currently bears interest at 6.89% with maturity on July 14, 2012. The loan was guaranteed by a third party. | 476,622 | 476,122 |
| From a commercial bank in the PRC for RMB 1,600,000 entered into on August 1, 2011. The loan currently bears interest at 6.89% with maturity on July 31, 2012. The loan was guaranteed by a third party. | 254,198 | 253,932 |
| From a commercial bank in the PRC for RMB 3,300,000 entered into August 16, 2011. The loan currently bears interest at 6.89% with maturity on August 15, 2012. The loan was guaranteed by a third party. | 524,284 | 523,737 |
| From a commercial bank in the PRC for RMB 1,100,000 entered into on August 23, 2011. The loan currently bears interest at 6.89% with maturity on August 22, 2012. The loan was guaranteed by a third party. | 174,761 | 174,578 |
| From a commercial bank in the PRC for RMB 5,000,000 entered into on September 21, 2011. The loan currently bears interest at 7.22% with maturity on September 20, 2012. The loan was pledged by bank deposit. | 794,370 | 793,537 |
| From a commercial bank in the PRC for RMB 10,000,000 entered into on November 8, 2011. The loan currently bears interest at 7.872% with maturity on November 2, 2012. The loan was guaranteed by Taiyu. | 1,588,739 | 1,587,075 |
| From a commercial bank in the PRC for RMB 50,000,000 entered into on February 17, 2012. The loan currently bears interest at 7.872% with maturity on January 16, 2013. The loan was guaranteed by SanDeKe. | 7,943,694 | - |
| | \$ 18,588,247 | \$ 10,633,402 |

Of the loans listed above that are guaranteed by a third party, the guarantees were provided by the same third party company, the guarantee term is one year and the Company is not required to pay for this guarantee service as the

Company provides the same guarantee service to loans of the third party company in return. As of March 31, 2012, and December 31, 2011, the Company has signed a contract to provide guarantees of up to RMB 30 million (\$4.8 million) in loans for this third party company.

Long-Term Bank Loan

On December 12, 2011, the Company entered into a long-term loan agreement with a commercial bank for RMB 13,000,000 (\$2.07 million), bearing interest of 6.65%, with a maturity date of October 26, 2013. The loan was pledged with building and land.

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13. DEFERRED TAX ASSET (LIABILITY)

Deferred tax asset (liability) represented differences between the tax bases and book bases of property and equipment and intangible assets arising from the acquisition of SanDeKe and SmartHeat Pump, and bad debt allowance and provision of inventory impairment booked by the Company which was not allowed per tax purpose. As of March 31, 2012, and December 31, 2011, deferred tax asset (liability) consisted of the following:

| | 2012 | 2011 |
|--|--------------|--------------|
| Deferred tax asset - current (bad debt allowance) | \$ 2,143,796 | \$ 1,794,878 |
| Deferred tax asset - current (inventory provision) | 582,239 | 571,865 |
| Less: valuation allowance | (2,726,035) | (2,366,743) |
| Deferred tax asset - current, net | - | - |
| Deferred tax liability - noncurrent (depreciation of fixed assets) | \$ 164,904 | \$ 189,516 |

14. INCOME TAXES

The Company is subject to income taxes by entity on income arising in or derived from the tax jurisdiction in which each entity is domiciled.

SmartHeat, the parent company, was incorporated in the U.S. and has net operating losses (“NOL”) for income tax purposes, which can be carried forward for up to 20 years from the year the loss is incurred. SmartHeat has NOL carry forwards for income taxes of approximately \$3.74 million at March 31, 2012, which may be available to reduce future years’ taxable income. Management believes the realization of benefits from these losses remains uncertain due to SmartHeat’s limited operating history and continuing losses. Accordingly, a 100% deferred tax asset valuation allowance has been provided.

Taiyu and SanDeKe are governed by the Income Tax Law of the PRC concerning privately-run enterprises, which are generally subject to tax at 25% on income reported in the statutory financial statements after appropriate tax adjustments. Under the Income Tax Law that became effective January 1, 2008, new high-tech enterprises given special support by the PRC government are subject to an income tax rate of 15%. Taiyu has been classified as a high-tech enterprise since 2009 and eligible for an income tax rate of 15% through 2012. The local PRC government reviews the high-tech status of such enterprises annually. The income tax rate for SanDeKe is 13% and 12% for 2012 and 2011, respectively, because of its foreign-invested enterprise status, and its income tax rate will increase to 25% starting from 2013.

SmartHeat Siping, Jinhui, SmartHeat Investment, SmartHeat Energy, SmartHeat Pump, Ruicheng and SmartHeat Trading are subject to the regular 25% PRC income tax rate. SmartHeat Germany is subject to a 15% corporate income tax in Germany.

The following table reconciles the U.S. statutory rates to the Company’s effective tax (benefit) rate for three months ended March 31, 2012 and 2011:

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| | 2012 | 2011 |
|------------------------------|---------|---------|
| U.S. statutory rates | (34.0)% | (34.0)% |
| Tax rate difference | 8.8% | 8.3% |
| Effect of tax holiday | 6.0% | 7.3% |
| Others | -% | 1.5% |
| Valuation allowance | 18.9% | 2.4% |
| Tax per financial statements | (0.3)% | (14.5)% |

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The provision for income tax (benefit) for the three months ended March 31, 2012 and 2011, consisted of the following:

| | 2012 | 2011 |
|-------------------------------|-------------|--------------|
| Income tax expense - current | \$ 656 | \$ 68,674 |
| Income tax benefit - deferred | (24,760) | (749,573) |
| Total income tax benefit | \$ (24,104) | \$ (680,899) |

15. STATUTORY RESERVES AND RESTRICTED NET ASSETS

The Company's ability to pay dividends is primarily dependent on the Company receiving funds from its subsidiaries. Relevant PRC statutory laws and regulations permit payments of dividends by the Company's PRC subsidiaries only out of the subsidiary's retained earnings, if any, as determined in accordance with PRC accounting standards and regulations. The results of operations reflected in the financial statements prepared in accordance with U.S. GAAP differ from those reflected in the statutory financial statements of the Company's PRC subsidiaries.

In accordance with the PRC Regulations on Enterprises with Foreign Investment and their articles of association, a foreign-invested enterprise ("FIE") established in the PRC is required to provide certain statutory reserves, which are appropriated from net profit as reported in the FIE's PRC statutory accounts. An FIE is required to allocate at least 10% of its annual after-tax profit to the surplus reserve until such reserve has reached 50% of its respective registered capital based on the FIE's PRC statutory accounts. Appropriations to other funds are at the discretion of the board of directors for all FIEs. The aforementioned reserves can only be used for specific purposes and are not distributable as cash dividends. Additionally, shareholders of an FIE are required to contribute capital to satisfy the registered capital requirement of the FIE. Until such contribution of capital is satisfied, the FIE is not allowed to repatriate profits to its shareholders, unless otherwise approved by the State Administration of Foreign Exchange. Taiyu, SanDeKe, SmartHeat Siping, Jinhui, SmartHeat Investment and Ruicheng were established as FIEs and therefore are subject to the above-mandated restrictions on distributable profits. As of March 31, 2012, the Company has met all registered capital requirements for its FIEs except for SmartHeat Investment, for which the Company is committed to contribute an additional \$40 million in registered capital by April 2015 (see Note 17).

Additionally, in accordance with the Company Law of the PRC, a domestic enterprise is required to provide surplus reserve at least 10% of its annual after-tax profit until such reserve has reached 50% of its respective registered capital based on the enterprise's PRC statutory accounts. A domestic enterprise is also required to provide discretionary surplus reserve, at the discretion of the board of directors, from the profits determined in accordance with the enterprise's PRC statutory accounts. The aforementioned reserves can only be used for specific purposes and are not distributable as cash dividends. SmartHeat Energy, SmartHeat Trading and SmartHeat Pump were established as domestic enterprises and therefore are subject to the above-mentioned restrictions on distributable profits.

As a result of these PRC laws and regulations that require annual appropriations of 10% of after-tax income to be set aside prior to payment of dividends as general reserve fund, the Company's PRC subsidiaries are restricted in their ability to transfer a portion of their net assets to the Company as a dividend.

16. STOCKHOLDERS' EQUITY

Common Stock with Warrants Issued for Cash

In August 2008, the Company sold 163,000 units consisting of one share of the Company's common stock and a 3-year warrant to purchase 15% of one share of the Company's common stock for \$60.00 per share, at \$35.00 per unit, for approximately \$5.7 million. The Company issued warrants to purchase 24,450 shares of its common stock. In connection with the private placement, the Company paid commissions of \$340,000 and issued warrants to purchase 14,850 shares of its common stock to placement agents. The warrants are immediately exercisable and expire on the third anniversary of their issuance. The warrants require the Company to settle in its own shares. There is no provision for cash settlement, except in lieu of fractional shares. Net proceeds of \$5.1 million were received by the Company. The value of warrants was determined by using the Black-Scholes pricing model with the following assumptions: discount rate – 2.76%; dividend yield – 0%; expected volatility – 15%; and term of 3 years. The value of the warrants was \$70,246. During 2010, warrants to purchase 1,425 shares were exercised at \$60.00 per share for \$85,500. All outstanding warrants expired unexercised on August 22, 2011, and no new warrants were issued during the period ended March 31, 2012.

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Stock Options to Independent Directors and Employee

On July 17, 2008, the Company granted non-statutory stock options to each of its two independent U.S. directors. The terms of each option are 1,000 shares at an exercise price per share of \$46.00, with a life of five years and vesting over three years as follows: 333 shares vest on July 17, 2009; 333 shares vest on July 17, 2010; and 334 shares vest on July 17, 2011, subject in each case to the director continuing to be associated with the Company as a director. The options were valued using a volatility of 15%, risk-free interest rate of 2.76%, and dividend yield of 0%. No estimate of forfeitures was made as the Company has a short history of granting options.

On February 1, 2010, the Company issued stock options to an employee. The terms of the options are 5,000 shares at an exercise price per share of \$118.50, with a life of five years and vesting over two years as follows: 2,500 shares vest on June 30, 2011, and 2,500 shares vest on June 29, 2012. The options were valued using a volatility of 74%, risk free interest rate of 2.76%, and dividend yield of 0%. The grant-date fair value of the options was \$367,107.

Based on the fair value method under SFAS No. 123 (Revised), "Share Based Payment" ("SFAS 123(R)") (codified in FASB ASC Financial Instruments, Topic 718 & 505), the fair value of each stock option granted is estimated on the date of the grant using the Black-Scholes option pricing model. The Black-Scholes option pricing model has assumptions for risk-free interest rates, dividends, stock volatility and expected life of an option grant. The risk-free interest rate is based upon market yields for U.S. Treasury debt securities at a maturity near the term remaining on the option. Dividend rates are based on the Company's dividend history. The stock volatility factor is based on the historical volatility of the Company's stock price. The expected life of an option grant is based on management's estimate. The fair value of each option grant to independent directors is calculated by the Black-Scholes method and is recognized as compensation expense over the vesting period of each stock option award.

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Following is a summary of the option activity:

| | Number of Shares | Average Exercise Price per Share | Weighted Average Remaining Contractual Term in Years |
|-------------------------------------|---------------------|---|--|
| Outstanding at December 31, 2011 | 6,000 | 106.40 | 2.83 |
| Exercisable at December 31, 2011 | 3,500 | 97.80 | 2.65 |
| Granted | - | - | - |
| Exercised | - | - | - |
| Forfeited | - | - | - |
| Outstanding at March 31, 2012 | 6,000 | \$ 106.40 | 2.58 |
| Exercisable at March 31, 2012 | 3,500 | \$ 97.80 | 2.40 |

There were no options exercised during the three months ended March 31, 2012 and 2011. The Company recorded \$19,167 and \$51,085 as compensation expense for stock options during the three months ended March 31, 2012 and 2011, respectively.

On April 18, 2011, the Company issued 5,000 shares of stock to an employee as a bonus. On November 28, 2011, the Company issued 95,000 shares of stock to four employees as bonus. The Company recorded \$559,000 as stock compensation expense during 2011.

Stock Issued for Consulting Service

On January 1, 2010, the Company entered into a one-year service agreement with a consultant to provide business development assistance and engineering advice regarding the sales and marketing of the Company's products. On July 16, 2010, the Company and consultant amended the compensation terms under the consulting agreement. The Company compensated the consultant on a quarterly basis at \$6,250 and 50 restricted shares of the Company's common stock in 2010. Starting from 2011, the Company compensated the consultant on a quarterly basis at \$6,250. In October 2011, the Company terminated the consulting agreement with the consultant under mutual consent.

17. COMMITMENTS

Employment Agreements

On January 1, 2008, Taiyu entered into a 3-year employment agreement with Jun Wang, the Company's Chief Executive Officer, which agreement was renewed on the same terms through December 31, 2013, upon mutual agreement between Mr. Wang and Taiyu. Pursuant to the terms of his employment agreement, Mr. Wang shall receive a salary not less than the lowest minimum wage per month paid in Shenyang and shall be based on the uniform wage and incentive system in Shenyang. Effective on February 1, 2010, the Compensation Committee approved an increase

in Mr. Wang's annual compensation to a base salary of \$150,000 per year.

On January 1, 2008, Taiyu entered into a 3-year employment agreement with Zhijuan Guo, the Company's Chief Financial Officer, which agreement was renewed on the same terms through December 31, 2013, upon mutual agreement between Ms. Guo and Taiyu. Pursuant to the terms of her employment agreement, Ms. Guo shall receive a salary not less than the lowest minimum wage per month paid in Shenyang and shall be based on the uniform wage and incentive system in Shenyang. In addition, Ms. Guo shall be entitled to overtime pay in accordance with the applicable law.

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On February 1, 2010, SmartHeat entered into an employment agreement with Xudong Wang, the Company's Vice President of Strategy and Development, for a term ending on June 30, 2013. Mr. Wang is compensated at \$120,000 per year and eligible for annual cash bonuses at the sole discretion of the Board of Directors.

Lease Agreements

The Company leased offices for its sales representatives in several different cities in China under various one-year, non-cancellable and renewable operating lease agreements. Rental expense for the three months ended March 31, 2012 and 2011, was \$93,500 and \$65,800, respectively.

Capital Contribution

The Company formed SmartHeat Investment on April 7, 2010, as an investment holding company with registered capital of \$70 million to enable its establishment and investment in new businesses in China. Under PRC company law, registered capital must be used in the operations of the domestic company within its approved business scope. SmartHeat Investment was established as a separate subsidiary of the Company to allow for the allocation of capital to new businesses in China separate from its existing subsidiaries and operations. As a PRC investment holding company, the \$70 million in approved registered capital of SmartHeat Investment is deemed a planned investment amount for the entity, not a traditional registered capital requirement under PRC corporate law. The Company contributed \$30 million in capital to SmartHeat Investment on April 15, 2010, from proceeds of its public offering that closed on September 22, 2009. On April 12, 2010, SmartHeat Investment formed SmartHeat Energy, a wholly owned subsidiary in Shenyang with registered capital of \$30 million, subsequently satisfied out of the registered capital of SmartHeat Investment, for the research, development, manufacturing and sale of energy products. As of March 31, 2012, the Company is committed to contribute the remaining planned investment amount of \$40 million in registered capital to SmartHeat Investment by April 2015. The Company plans to satisfy this contribution through cash flow provided by operations and funds raised through offerings of its securities, if and when the Company determines such offerings are required, and at such time that the Company identifies a new acquisition, investment or business opportunity to be financed through SmartHeat Investment, although no specific investment candidate has been identified to date. If the Company is unable to make the required capital contribution to registered capital, the Company may apply to extend the payment period, typically granted for six months or more, or otherwise reduce the amount of registered capital to the amount already contributed. There is no penalty for failure to satisfy in full the approved registered capital of a PRC investment holding company.

18. CONTINGENCIES

The Company's operations in the PRC are subject to specific considerations and significant risks not typically associated with companies in North America and Western Europe. These include risks associated with, among others, the political, economic and legal environments in China and foreign currency exchange. The Company's results may be adversely affected by changes in PRC government policies with respect to laws and regulations, anti-inflationary measures, currency conversion and remittance abroad and rates and methods of taxation, among other things.

The Company's sales, purchases and expense transactions in China are denominated in RMB and all of the Company's assets and liabilities in China are also denominated in RMB. The RMB is not freely convertible into foreign currencies under the current PRC law. In China, foreign exchange transactions are required by law to be transacted only by authorized financial institutions. Remittances in currencies other than RMB may require certain supporting

documentation in order to affect the remittance.

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19. ACQUISITION AND UNAUDITED PRO FORMA INFORMATION

On March 3, 2011, the Company completed the acquisition of SmartHeat Germany, a designer and manufacturer of high efficiency heat pumps. This acquisition will extend the Company's clean technology heating solutions into the rapidly growing heat pump markets in Europe and China, enabling its customers to purchase technologically advanced heat pumps at competitive prices. The purchase price was EUR 4,248,082 (\$5,898,887), which was negotiated based on a two-times multiple of SmartHeat Germany's projected net income over the three years following the acquisition, and was paid at closing.

The following table summarizes the fair values of the assets acquired and liabilities assumed at the date of acquisition. The fair values of the assets acquired and liabilities assumed at the closing date were used for the purpose of purchase price allocation. The Company determined that little or no identifiable intangible assets, consisting of outstanding patents, technology and customer lists, were acquired with SmartHeat Germany based on the Company's due diligence and discussions with the seller. Accordingly, the excess of the purchase price over the fair value of the net assets acquired of \$5,134,627 was recorded as goodwill.

| | |
|------------------------|--------------|
| Cash | \$ 239,686 |
| Accounts receivable | 137,185 |
| Other receivables | 24,254 |
| Inventory | 667,412 |
| Property and equipment | 350,382 |
| Goodwill | 5,134,627 |
| Accounts payable | (536,907) |
| Other payables | (117,752) |
| Purchase price | \$ 5,898,887 |

On March 1, 2011, the Company entered into a purchase agreement with SmartHeat Pump, a Shenyang-based state-owned heat pump manufacturer and designer. The Company paid RMB 50 million (\$7.6 million) to acquire 95% of the equity interests in SmartHeat Pump, with a local government entity retaining the remaining 5% equity interest. The purchase price was negotiated based on a two-times multiple of the projected net income of SmartHeat Pump over the three years following the acquisition.

The following table summarizes the preliminary fair values of the assets acquired and liabilities assumed at the date of the SmartHeat Pump acquisition. The fair values of the assets acquired and liabilities assumed at the closing date were used for the purpose of purchase price allocation. The Company determined that little or no identifiable intangible assets, consisting of outstanding patents, technology and customer lists, were acquired with SmartHeat Pump based on the Company's due diligence and discussions with the seller. Accordingly, the excess of the purchase price over the fair value of the net assets acquired of \$5,629,951 (RMB 37,018,052) was recorded as goodwill.

| | |
|------------------------|------------|
| Cash | \$ 189,438 |
| Accounts receivable | 920,463 |
| Other receivable | 263,220 |
| Inventory | 1,265,455 |
| Property and equipment | 759,341 |
| Intangible assets | 858,409 |

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| | |
|------------------------------------|--------------|
| Goodwill | 5,629,951 |
| Accounts payable | (446,334) |
| Other payable and accrued expenses | (686,195) |
| Short-term loan | (760,433) |
| Deferred tax liability | (285,069) |
| Noncontrolling interest | (103,915) |
| Purchase price | \$ 7,604,331 |

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The amounts of revenue and earnings (loss) of SmartHeat Germany and SmartHeat Pump since their respective acquisition dates included in the consolidated income statement for 2011 are \$1,975,332 and \$(4,247,102) for SmartHeat Germany and \$2,570,280 and \$(7,713,718) for SmartHeat Pump, respectively. The Company performed annual goodwill impairment assessment for SmartHeat Germany and SmartHeat Pump as of December 31, 2011, and concluded that the goodwill balance of \$6.06 million for SmartHeat Pump and \$2.90 million for SmartHeat Germany was impaired (see Note 2 - Goodwill).

The following unaudited pro forma consolidated results of operations for SmartHeat for the three months ended March 31, 2011, presents the operations of SmartHeat, SmartHeat Germany and SmartHeat Pump as if the acquisitions occurred at January 1, 2011. The pro forma results are not necessarily indicative of the actual results that would have occurred had the acquisitions been completed as of the beginning of the periods presented, nor are they necessarily indicative of future consolidated results.

| | 2011 |
|-------------------------------------|----------------|
| Net sales | \$ 8,289,644 |
| Cost of goods sold | 5,638,423 |
| Gross profit | 2,651,221 |
| Total operating expenses | 7,576,106 |
| Loss from operations | (4,924,885) |
| Total non-operating expenses | (195,621) |
| Loss before income tax | (5,120,506) |
| Income tax | 680,907 |
| Loss after income tax | (4,439,598) |
| Noncontrolling interest | 57,879 |
| Loss to SmartHeat Inc. | \$ (4,381,719) |
| Weighted average shares outstanding | 3,855,194 |
| Loss per share | \$ (1.10) |

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CAUTIONARY STATEMENT FOR FORWARD-LOOKING STATEMENTS

The comments made throughout this Quarterly Report should be read in conjunction with our consolidated financial statements and the notes thereto, and other financial information appearing elsewhere in this document. In addition to historical information, the following discussion and other parts of this document contain certain forward-looking information. When used in this discussion, the words, “believes,” “anticipates,” “expects” and similar expressions are intended to identify forward-looking statements. Such statements are subject to certain risks and uncertainties, which could cause actual results to differ materially from projected results, due to a number of factors beyond our control. We do not undertake to publicly update or revise any of the forward-looking statements, even if experience or future changes show that the indicated results or events will not be realized. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof. Readers are also urged to carefully review and consider our discussions regarding the various factors that affect our business, which are described in this section and elsewhere in this report, and those listed in our other SEC filings.

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

Overview

We are a designer, manufacturer and seller of clean technology plate heat exchangers and related systems marketed principally in the PRC. Our products are used in the industrial, residential and commercial markets to improve energy utilization and efficiencies, and to reduce pollution by reducing the need for coal-fired boilers. We design, manufacture, sell and service plate heat exchangers, or PHEs, PHE Units, which combine PHEs with various pumps, temperature sensors, valves and automated control systems in systems custom designed by our own in-house engineers, heat meters and heat pumps for use in commercial and residential buildings. We also design, manufacture and sell spiral heat exchangers and tube heat exchangers. Our products and systems are an increasingly important element in providing a clean technology, mission-critical solution to energy consumption and air pollution problems in China and are commonly used in a wide variety of industrial processes where heat transfer is required. Common applications include energy conversion for heating, ventilation and air conditioning, or HVAC, and industrial use in petroleum refining, petrochemicals, metallurgy, food and beverage and chemical processing. We sell our products under our SmartHeat and Taiyu brand names and also sell PHEs under the Sondex brand name as an authorized dealer of Sondex PHEs in China.

We are a U.S. holding company with no material assets other than the ownership interests of our subsidiaries through which we design, manufacture and sell our clean technology PHEs and related systems. We were incorporated in the State of Nevada on August 4, 2006, under the name Pacific Goldrim Resources, Inc., as an exploration stage corporation with minimal operations to engage in the exploration for silver, lead and zinc. On April 14, 2008, we changed our name to SmartHeat Inc. and entered into a Share Exchange Agreement to acquire Shenyang Taiyu Machinery & Electronic Equipment Co., Ltd., subsequently renamed SmartHeat Taiyu (Shenyang) Energy Technology Co., Ltd., or Taiyu, a privately held Sino-foreign joint venture company formed under the laws of the PRC on July 24, 2002, and engaged in the design, manufacture, sale and servicing of plate heat exchange products in China. The Share Exchange Agreement was entered into by SmartHeat, Taiyu and the shareholders of Taiyu. We received PRC government approval on May 28, 2008, of our subscription for 71.6% of the registered capital of Taiyu, and approval on June 3, 2009, of the transfer of the remaining 28.4% ownership of Taiyu from the original joint venture shareholders who had received shares of our common stock in the Share Exchange. As a result of the Share Exchange Agreement and subsequent transactions contemplated thereby, and receipt of the above PRC government approvals, Taiyu became our wholly foreign-owned enterprise, or WFOE.

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As an expansion of our business following our acquisition of Taiyu, we acquired and established strategic subsidiaries in China and Germany. On September 25, 2008, we acquired SanDeKe Co., Ltd., or SanDeKe, a Shanghai-based manufacturer of PHEs. On June 16, 2009, we completed an asset purchase transaction with Siping Beifang Heat Exchanger Manufacture Co., Ltd., or Siping Beifang, to set up a new manufacturing facility under our newly incorporated subsidiary, SmartHeat Siping Beifang Energy Technology Co., Ltd., or SmartHeat Siping. On August 14, 2009, we formed Beijing SmartHeat Jinhui Energy Technology Co., Ltd., or Jinhui, a joint venture in Beijing of which we own 52%, to provide consulting services and expand our sales of PHEs into new industries and regions of China. On April 7, 2010, we formed SmartHeat (China) Investment Co., Ltd., or SmartHeat Investment, as an investment holding company in Shenyang for our investment in and establishment of new companies and businesses in China. On April 12, 2010, SmartHeat Investment formed SmartHeat Energy (Shenyang) Energy Equipment Co., Ltd., or SmartHeat Energy, as its wholly owned subsidiary for the research, development, manufacturing and sales of energy products. On May 6, 2010, we formed SmartHeat (Shanghai) Trading Co., Ltd., or SmartHeat Trading, through a nominee, Cleantech Holdings Inc., a British Virgin Islands company, or Cleantech Holdings, to market and expand sales of our branded products in China. Prior to November 9, 2011, we had no direct ownership interest in SmartHeat Trading; instead, we controlled and were entitled to 100% of the profit or loss of SmartHeat Trading under contractual arrangements. Effective as of November 9, 2011, we terminated the nominee-owner relationship and acquired direct control over SmartHeat Trading. On December 2, 2010, we formed Hohhot Ruicheng Technology Co., Ltd., or Ruicheng, a joint venture in Hohhot City, China, for the design and manufacture of heat meters, of which we acquired 51% of the equity interest on January 7, 2011. On March 1, 2011, we entered into a purchase agreement to acquire 95% of the equity interests in Shenyang Bingchuan Refrigerating Machine Limited Company, a Shenyang-based state-owned heat pump manufacturer and designer subsequently renamed SmartHeat (Shenyang) Heat Pump Technology Co., Ltd., or SmartHeat Pump. On March 3, 2011, we completed the acquisition of Gustrower Wärmepumpen GmbH, subsequently renamed SmartHeat Deutschland GmbH, or SmartHeat Germany, a designer and manufacturer of high efficiency heat pumps in Germany, to extend our clean technology heating solutions into the rapidly growing heat pump markets in Europe and China.

Principal Factors Affecting Our Financial Performance

Our revenues are subject to fluctuations due to the timing of sales of high-value products, the impact of seasonal spending patterns, the timing and size of projects our customers perform, changes in overall spending levels in the industry, changes in PRC government fiscal policies, inflation in China and other unpredictable factors that may affect customer ordering patterns. Our revenues may fluctuate due to the seasonal nature of central heating services in the PRC because the equipment used in residential buildings must be delivered prior to the beginning of the heating season in late fall, which occurs during the third and fourth calendar quarters in China. We also anticipate decreased sales volume in the first calendar quarter compared to other quarters, as our customers generally are installing and testing our products during this period, and in the process of budgeting for their new projects. Additionally, any significant delays in the commercial launch or any lack or delay of commercial acceptance of new products, unfavorable sales trends in existing product lines or impacts from the other factors mentioned above, could adversely affect our revenue growth or cause a sequential decline in quarterly revenue.

In response to inflationary concerns, the PRC government tightened fiscal policies beginning in 2011 that contributed to a general slowdown in many sectors of China's economy and restricted bank lending practices. China's economy grew at its slowest pace in three years during the first quarter of 2012, according to the National Bureau of Statistics of China. Historically, approximately 40% of our customers, representing the majority of our total sales, consist of state-owned enterprises in China. Many of these customers, the majority of which are real estate developers, encountered difficulties in 2011 in obtaining grants from the PRC government and faced an extended bank loan application process, both of which typically are used to finance the purchase of our products, and these conditions have continued into 2012. Accordingly, the continued deflationary policy of the PRC government affected the number of new sales of our PHEs and PHE Units as certain state-owned enterprises deferred bidding for new projects because

of their working capital difficulties or abandoned existing projects. The decline in new projects among state-owned enterprises and increased peer competition contributed to a decline in sales of our PHEs and PHE Units in 2011 and the first quarter of 2012. We also canceled contracts in 2011 with certain of these state-owned customers that were unable to make payments or that had requested adjustments to their payment terms in response to their financial difficulties. Although these events caused a decrease in our sales in 2011 and into 2012, a portion of the canceled PHE and PHE Unit orders have been reinstated in the first quarter of 2012, and we expect that additional orders and contracts that were canceled or partially delayed will be performed in late 2012, reducing the impact of the drop in our sales over the long term. Furthermore, the PRC government remains committed to the construction of affordable housing projects and emission-reduction and energy-saving policies, which we believe will continue to drive demand for our clean technology heat transfer products.

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Our revenues also may fluctuate significantly due to material costs, which normally account for approximately 80% of our cost of sales. We experienced and anticipate continued fluctuation in raw material costs as a result of world economic conditions, such as the price of stainless steel used to produce plates for our PHEs and PHE Units. We monitor the commodities markets for pricing trends and changes, but we do not engage in hedging to protect against raw material fluctuations. Instead, we attempt to mitigate the short-term risks of price swings by purchasing raw materials in advance based on production needs and projected sales. We typically experience stronger sales during the second half of the year, which is the start of fall and winter in China, during which we historically generate the majority of our revenue. Accordingly, we increased our inventory and advances to suppliers during the first three quarters of 2011 in anticipation of our historical high season for production. Management believes that our current levels of increased inventory resulting from the unexpected abandonment of projects and cancelation of orders by certain customers in 2011 will be consumed gradually throughout 2012 as we fulfill new orders and delayed and reinstated contracts. Although we currently are able to obtain adequate supplies of raw materials, it is impossible to predict future availability or cost. Unfavorable fluctuations in the price, quality or availability of required raw materials could negatively affect our cash flows and ability to meet the demands of our customers, which could result in the loss of future sales.

Our profitability generally depends upon the margin between the cost to us of certain goods used in the manufacturing process, such as plates, pumps, water tanks, sensors, controlling systems and other raw materials, as well as our fabrication costs associated with converting such goods and raw materials compared to the selling price of our products, and the overall supply of raw materials. It is our intention to base the selling prices of our products upon the associated raw materials costs to us, which typically make up approximately 80% of total cost. We may not be able to pass all increases in raw material costs and ancillary acquisition costs associated with taking possession of raw materials through to our customers, however, and there may be a time lag as we bid on new projects and renegotiate pricing with our existing customers. Furthermore, to ease inflationary pressure on our costs, we implemented new controls over our purchasing process and raw material pricing by adopting a new budgetary control system to monitor our fixed costs and continued improvements to our manufacturing process to decrease labor cost and improve manufacturing efficiency.

Significant Accounting Policies

While our significant accounting policies are more fully described in Note 2 to our consolidated financial statements, we believe the following accounting policies are the most critical to aid you in fully understanding and evaluating this management discussion and analysis.

Basis of Presentation

Our financial statements are prepared in accordance with generally accepted accounting principles in the U.S., or U.S. GAAP.

Principle of Consolidation

The accompanying consolidated financial statements include the accounts of SmartHeat's U.S. parent and its subsidiaries, Taiyu, SanDeKe, SmartHeat Siping, Jinhui, SmartHeat Investment, SmartHeat Energy, SmartHeat Trading, Ruicheng, SmartHeat Germany and SmartHeat Pump. All significant inter-company accounts and transactions were eliminated in consolidation.

Use of Estimates

In preparing the financial statements in conformity with U.S. GAAP, management makes estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the dates of the financial statements, as well as the reported amounts of revenues and expenses during the reporting period. Significant estimates, required by management, include the recoverability of long-lived assets, allowance for doubtful accounts, and the reserve for obsolete and slow-moving inventories. Actual results could differ from those estimates.

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Accounts Receivable

Our policy is to maintain reserves for potential credit losses on accounts receivable. Management reviews the composition of accounts receivable and analyzes historical bad debts, customer concentrations, customer credit worthiness, current economic trends and changes in customer payment patterns to evaluate the adequacy of these reserves. Accounts receivable are net of unearned interest. Unearned interest represents imputed interest on accounts receivable with due dates over one year from the invoice date discounted at our borrowing rate for the year.

Impairment of Long-Lived Assets

We assess the impairment of long-lived assets, which include tangible assets, such as property, plant and equipment, goodwill and other intangible assets, whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. If such circumstances are determined to exist, an estimate of undiscounted future cash flows expected to be generated by the long-lived assets, or the appropriate grouping of assets, is compared to the carrying value to determine whether an impairment exists. If an asset is determined to be impaired, the loss is measured based on fair value, generally determined using the asset's expected future discounted cash flows or market value, if readily determinable. The following are indicators management considers in determining whether it is necessary to test assets for impairment in accordance with ASC 360-10-35-21:

- Significant decrease in the market price of a long-lived asset or asset group;
- Significant adverse change in the extent or manner in which a long-lived asset (asset group) is being used or in its physical condition;
- Significant adverse change in legal factors or in the business climate that could affect the value of a long-lived asset or asset group, including an adverse action or assessment by a regulator;
- Accumulation of costs significantly in excess of the amount originally expected for the acquisition or construction of a long-lived asset or asset group;
- Current-period operating or cash flow loss combined with a history of operating or cash flow losses, or a projection or forecast that demonstrates continuing losses associated with the use of a long-lived asset or asset group; and
- Current expectation that, more likely than not, a long-lived asset or asset group will be sold or otherwise disposed of significantly before the end of its previously estimated useful life.

We evaluate goodwill and intangible assets with indefinite lives for impairment annually using a two-step approach. Based on this valuation approach, we concluded that the goodwill balance of \$6.06 million for SmartHeat Pump and \$2.90 million for SmartHeat Germany was impaired as of December 31, 2011. Based on our review, we believe that, as of March 31, 2012, there were no significant impairments of our other long-lived assets.

Revenue Recognition

Our revenue recognition policies are in compliance with SEC Staff Accounting Bulletin ("SAB") 104 (codified in Financial Accounting Standards Board ("FASB") Accounting Standards Codification ("ASC") Topic 605). Sales revenue is recognized when PHEs, heat meters and heat pumps are delivered, and for PHE Units when customer acceptance occurs, the price is fixed or determinable, no other significant obligations of ours exist and collectibility is reasonably assured. Payments received before all of the relevant criteria for revenue recognition are recorded as unearned revenue under "Advance from customers."

Our agreements with our customers generally provide that 30% of the purchase price is due upon placement of an order, 30% upon delivery and 30% upon installation and acceptance of the equipment after customer testing. As a common practice in the heating manufacturing business in China, payment of the final 10% of the purchase price is due no later than the termination date of the standard warranty period, which ranges from 3 to 24 months from the

acceptance date.

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Our standard warranty is provided to all customers and is not considered an additional service; rather, it is an integral part of the product sale. We believe the existence of the standard product warranty in a sales contract does not constitute a deliverable in the arrangement and thus there is no need to apply the EITF 00-21 (codified in FASB ASC Topic 605-25) separation and allocation model for a multiple deliverable arrangement. SFAS 5 (codified in FASB ASC Topic 450) specifically addresses the accounting for standard warranties and neither SAB 104 nor EITF 00-21 supersedes SFAS 5. We believe accounting for our standard warranty pursuant to SFAS 5 does not impact revenue recognition because the cost of honoring the warranty can be reliably estimated.

We charge for after-sales services provided after the expiration of the warranty period, with after-sales services mainly consisting of cleaning PHEs and repairing and exchanging parts. We recognize such revenue when service is provided. The revenue earned from these services was not material.

Foreign Currency Translation and Comprehensive Income (Loss)

The functional currency of our subsidiaries in China is RMB. The functional currency of SmartHeat Germany, our German subsidiary, is EUR. For financial reporting purposes, RMB and EUR were translated into USD as the reporting currency. Assets and liabilities are translated at the exchange rate in effect at the balance sheet date. Revenues and expenses are translated at the average rate of exchange prevailing during the reporting period. Translation adjustments arising from the use of different exchange rates from period to period are included as a component of stockholders' equity as "Accumulated other comprehensive income." Gains and losses resulting from foreign currency transactions are included in income. There was no significant fluctuation in exchange rate for the conversion of RMB to USD after the balance sheet date.

We use Statement of Financial Accounting Standards ("SFAS") No. 130, "Reporting Comprehensive Income" (codified in FASB ASC Topic 220). Comprehensive income is comprised of net income and all changes to the statements of stockholders' equity, except those due to investments by shareholders, changes in paid-in capital and distributions to shareholders.

Recent Accounting Pronouncements

In May 2011, the FASB issued ASU No. 2011-04, "Amendments to Achieve Common Fair Value Measurement and Disclosure Requirements in U.S. GAAP and IFRSs," which is adopted for fiscal years, and interim periods within those years, beginning after December 15, 2011, for public entities with retrospective application. There was no material impact on our consolidated financial statements upon adoption.

In June 2011, the FASB issued ASU No. 2011-05, "Presentation of Comprehensive Income." Under the amendments in this ASU, an entity has two options for presenting its total comprehensive income: (1) to present total comprehensive income and its components along with the components of net income in a single continuous statement or (2) in two separate but consecutive statements. The amendments in this ASU are required to be applied retrospectively and are effective for fiscal years, and interim periods within those years, beginning after December 15, 2011, with early adoption permitted. There was no material impact on our consolidated financial statements upon adoption.

In September 2011, the FASB issued ASU No. 2011-08, "Intangibles—Goodwill and Other (Topic 350)—Testing Goodwill for Impairment," to simplify how entities test goodwill for impairment. ASU No. 2011-08 allows entities to first assess qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. If greater than 50 percent likelihood exists that the fair value is less than the carrying amount, then a two-step goodwill impairment test as described in Topic 350 must be performed. The guidance provided by this update becomes effective for annual and interim goodwill impairment tests performed for fiscal years beginning after December 15, 2011. We adopted this ASU beginning with this Quarterly Report for the three months ended March 31,

2012. There was no material impact on our consolidated financial statements upon adoption.

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Results of Operations

Three Months Ended March 31, 2012, Compared to the Three Months Ended March 31, 2011

The following table sets forth the results of our operations for the periods indicated as a percentage of net sales:

| | 2012 | | 2011 | |
|------------------------------|----------------|------------|----------------|------------|
| | \$ | % of Sales | \$ | % of Sales |
| Sales | \$ 6,746,398 | | \$ 7,892,149 | |
| Cost of sales | 5,074,937 | 75% | 5,330,229 | 68% |
| Gross profit | 1,671,461 | 25% | 2,561,920 | 32% |
| Operating expenses | 9,546,867 | 142% | 7,076,455 | 90% |
| Loss from operations | (7,875,406) | (117)% | (4,514,535) | (57)% |
| Other income (expenses), net | 861,047 | 13% | (167,660) | (2)% |
| Income tax benefit | (24,104) | (0.36)% | (680,899) | (9)% |
| Noncontrolling interest | (57,790) | (1)% | (47,494) | (1)% |
| Net loss to SmartHeat Inc. | \$ (6,932,465) | (103)% | \$ (3,953,802) | (50)% |

Sales. Net sales in the three months ended March 31, 2012, were \$6.75 million, consisting of \$3.40 million for PHEs, \$2.83 million for PHE Units, \$0.03 million for heat meters and \$0.49 million for heat pumps, while net sales in the three months ended March 31, 2011, were \$7.89 million, consisting of \$3.48 million for PHEs, \$3.06 million for PHE Units, \$0.92 million for heat meters and \$0.43 million for heat pumps, an overall decrease of \$1.15 million or 15%. The decrease in sales was due primarily to the decrease in sales volume in the three months ended March 31, 2012, compared to the same period of 2011. Sales volume of PHEs, PHE Units, heat meters and heat pumps decreased 17%, 21%, 72% and 19%, respectively, in the first quarter of 2012 compared to 2011. Sales volume is seasonal, with an expected decrease in sales volume during the first quarter of each year when our customers generally are installing and testing our products and in the process of budgeting for their new projects. The decrease in sales volume in the first quarter of 2012 compared to 2011 resulted from the continued effects of a tightened fiscal policy in China, which has contributed to a general slowdown in many sectors of China's economy, restricted bank lending practices and caused the abandonment of certain projects by our customers. China's economy grew at its slowest pace in three years during the first quarter of 2012. The PRC government remains committed to the construction of affordable housing projects and emission-reduction and energy-saving policies, however, which we believe will continue to drive demand for our clean technology heat transfer products. A smaller than expected portion of the PHE and PHE Unit orders canceled or delayed in 2011 were reinstated in the first quarter of 2012, although we expect that additional orders and contracts that were canceled or partially delayed will be performed in late 2012, reducing the impact of our decreased sales over the long term.

We have a review process for approving each sales contract, especially with respect to sales price. Sales price is determined under each contract in proportion to our estimated cost in order to ensure our gross profit. Our sales price varies according to each sale depending mainly on each customer's specific requirements and our negotiation of the contract amount and term. We believe our marketing policy remains successful and have maintained a comparable program to previous years, but we adjusted our pricing policy in 2011 in order to obtain more contracts. The approximately 12% decrease in average selling price in the first quarter of 2012 compared to the same period of 2011,

in addition to decreased sales volume, resulted in a decrease of sales across product lines in the first quarter of 2012 as compared to 2011.

Cost of Sales. Cost of sales was \$5.10 million in the three months ended March 31, 2012, compared to \$5.33 million in the three months ended March 31, 2011, a decrease of \$0.25 million or 5%. Cost of sales mainly consisted of the cost of materials, factory overhead and labor. Materials cost was 28.2% of total cost, while factory overhead cost was 64.2% and labor 7.7%. Materials cost typically makes up approximately 80% of total cost, but with the decrease in production volume in the first quarter of 2012, the proportion of factory overhead and manufacturing expense to total cost of sales increased significantly. The decrease in cost of sales is attributable to the decrease in sales. Cost of sales as a percentage of sales increased 7% to 75% in the three months ended March 31, 2012, compared to 68% in the same period of 2011, which was mainly due to the significant decrease in sales and production volume. The overhead cost absorbed by individual products increased in the three months ended March 31, 2012, compared to the same period of 2011, however, because of the decreased production volume. In order to ease the pressure from inflation, we implemented new controls over our purchasing process and raw material pricing by adopting a new budgetary control system to monitor our fixed costs and continued improvements to our manufacturing process to decrease labor cost and improve manufacturing efficiency.

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Gross Profit. Gross profit was \$1.67 million in the three months ended March 31, 2012, compared to \$2.56 million in the same period of 2011, or gross profit margins of 25% and 32%, respectively. The decreased gross profit was due primarily to our decreased sales, production volume and average selling price.

Operating Expenses. Operating expenses consisting of selling, general and administrative expenses totaled \$9.55 million in the three months ended March 31, 2012, compared to \$7.08 million in the same period of 2011, an increase of \$2.47 million or 35%. Operating expenses as a percentage of sales were 142% in the three months ended March 31, 2012, compared to 90% in the three months ended March 31, 2011. The increase in operating expenses mainly resulted from: bad debt allowance for other receivables of \$0.39 million for the three months ended March 31, 2012, compared with \$0 for the same period of 2011; provision for inventory allowance of \$0.13 million for the three months ended March 31, 2012, compared with \$0 for the same period of 2011; and an after-sales service expense of \$1.63 million for the three months ended March 31, 2012, compared with \$0.66 million for the same period of 2011 for equipment installation and modifications of products under warranty as part of our continued process of improving product quality and introducing newly-developed technology to maintain existing customers and attract new contracts.

We recorded a bad debt allowance of \$2.50 million for the three months ended March 31, 2012, compared with \$1.80 million for the same period of 2011, primarily attributed to payment delays caused by the working capital difficulties of many of our state-owned customers. Due to the deflationary fiscal policy of the PRC government in 2011 that has continued into 2012, some of our state-owned customers encountered difficulties in obtaining grants from the government and loans from state-owned banks, both of which typically are used to finance the purchase of our products, which resulted in unexpected delays in paying our accounts receivable in a timely manner. Generally, we account for 50% of accounts receivable with aging over 180 days and 100% of accounts receivable with aging over 360 days as bad debt allowance. We do not expect a significant risk with respect to the overdue accounts receivable for which we took the bad debt allowance and believe that a substantial portion of the bad debt will be repaid as the PRC government restores grants and credit policies. We believe the stringent fiscal policy impacting our customers in China will be temporary and the expansion and training of our marketing team and other employees will increase sales and improve the efficiency of our operations. Nevertheless, we will institute a rigorous program of cost cutting to continue to tightly control our budget and implement additional cost control measures, including a review of the staffing levels of our employees in response to the decrease in revenue.

We performed annual goodwill impairment assessment for SmartHeat Germany and SmartHeat Pump as of December 31, 2011. The goodwill balance prior to the impairment charge was \$10.97 million and was established primarily as a result of the acquisition of SmartHeat Germany and SmartHeat Pump in 2011. We completed the step one analysis using discounted cash flow. The discounted cash flow method uses revenue and expense projections and risk-adjusted discount rates. The process of determining fair value is subjective and requires management to exercise a significant amount of judgment in determining future growth rates, discount and tax rates and other factors. The current economic environment has impacted our ability to forecast future demand and has in turn resulted in the use of higher discount rates, reflecting the risk and uncertainty in current markets. The results of the step one analysis indicated potential impairment in the SmartHeat Germany and SmartHeat Pump reporting units, corroborated by a combination of factors including a significant and sustained decline in the market capitalization, which is significantly below the book value, and the deteriorating macro environment, which resulted in a decline in expected future demand. We therefore performed the second step of the goodwill impairment assessment to quantify the amount of impairment. This process involved calculating the implied fair value of goodwill, determined in a manner similar to a purchase price allocation, and comparing the residual amount to the carrying amount of goodwill. Our analysis incorporated the declining market capitalization in 2011 and the significant end market deterioration and economic uncertainties impacting expected future demand, including the continued tightened fiscal policy in China and difficulties in obtaining bank leasing loans that have contributed to a general slowdown in many sectors of China's economy and caused the abandonment of certain projects by our customers, which in turn resulted in an unexpected cancelation of orders and delays in the performance of PHE and PHE Unit contracts. We concluded that the goodwill balance of \$6.06 million

for SmartHeat Pump and \$2.90 million for SmartHeat Germany was impaired as of December 31, 2011. The goodwill impairment charge is non-cash in nature and not deductible for income tax purposes. Although we wrote off goodwill in 2011 based on the current economic environments in China and Europe and our near-term assessment of the cash flows of these acquisitions, we anticipate growth in the heat pump markets in the future and are continuing their operations, viewing these acquisitions as providing value and increased sales over the long term.

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We performed an inventory impairment assessment as of March 31, 2012, for the write-down of raw materials and finished goods in inventory. We stock inventory, consisting of raw materials and finished goods, according to projected sales and customer orders, with steel, plates and components for our products generally ordered two to three months in advance of anticipated production needs. During the first three quarters of 2011, we determined that no write-down of raw materials was required because raw materials in inventory consisted primarily of steel, for which the possibilities of becoming obsolete are very remote. The temporary financial difficulties encountered by certain of our customers in 2011 resulted in unexpected delays and abandonment of planned projects, cancelation of anticipated orders and delays in the performance of existing contracts associated with such projects. We believed that a portion of these contracts would be reinstated and performed in 2011 or 2012, and did not receive firm contract cancelations of existing contracts until the end of the third quarter in 2011. Accordingly, we performed an impairment assessment of our inventory at fiscal year-end rather than during the interim periods. As part of our impairment analysis, we performed an evaluation of raw materials stored over one year and not anticipated to be consumed, and an evaluation of potential impairment to the quality of these raw materials. If management anticipates that obsolete raw materials in inventory can be utilized and will be consumed within the next six months through new customer orders or substitute orders, no impairment is recorded. We collected information about delayed and canceled contracts and met with the affected customers to discuss their financing situation and projections of future orders. Finished goods manufactured for delayed and canceled contracts that we do not expect to be reinstated and contracts for which we have been unable to find substitute customers become impaired. We performed an evaluation of these finished goods stored over one year and recorded an impairment accordingly. A portion of the canceled orders from 2011 for PHEs and PHE Units have been reinstated, and we believe that additional orders and contracts that were canceled or partially delayed will be performed in 2012, gradually consuming our increased levels of finished goods in inventory otherwise requiring impairment as we fulfill these delayed and reinstated contracts along with new orders. We also made an analysis of whether to take a reserve for conversion costs of finished goods in inventory for resale to substitute customers. Following the completion of our impairment analysis, we recorded provision of inventory impairment of \$126,156 for the three months ended March 31, 2012.

Other income (expenses), net. Our other income for the three months ended March 31, 2012, was \$861,047 compared to net other expense of \$167,660 for the same period of 2011, an increase of \$1,028,707 or 614%. The increase was due mainly to increased after-sales service revenue, technology service revenue of \$0.46 million and \$0.26 million of government grant of enterprise tax refund for welfare, and decreased foreign exchange transaction loss of \$0.11 million.

Income tax expense (benefit). We had income tax benefit of \$24,104 for the three months ended March 31, 2012, compared to \$0.68 million for the same period of 2011. The effective income tax rate for the first quarter of 2012 was 0.03% compared to 14.5% for the same period of 2011, with the difference mainly due to increased valuation allowance for deferred tax asset for bad debt allowance and inventory allowance resulting from our continued losses.

Taiyu and SanDeKe are governed by the Income Tax Law of the PRC concerning privately-run enterprises, which are generally subject to tax at a statutory rate of 25% on income reported in the statutory financial statements after appropriated tax adjustments. Taiyu has been classified as a high-tech enterprise since 2009 and eligible for an income tax rate of 15% through 2012. The local PRC government reviews the high-tech status of such enterprises annually. The income tax rate for SanDeKe is 13% and 12% for 2012 and 2011, respectively, because of its foreign-invested enterprise status.

SmartHeat Siping, Jinhui, SmartHeat Investment, SmartHeat Energy, SmartHeat Pump, Ruicheng and SmartHeat Trading are subject to the regular 25% PRC income tax rate. SmartHeat Germany is subject to a 15% corporate income tax in Germany.

Net Income (Loss). Our net loss for the three months ended March 31, 2012, was \$6.9 million compared to net loss of \$3.9 million for the same period of 2011, an increase of \$2.98 million or 75%. Net loss as a percentage of sales was 103% in the three months ended March 31, 2012, and net loss as a percentage of sales was 50% in the comparable period of 2011. This decrease in net income was attributable to decreased net sales and increased bad debt allowance and inventory provision reserve.

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Liquidity and Capital Resources

As of March 31, 2012, we had cash and equivalents of \$15.85 million. Working capital was \$100.85 million at March 31, 2012. The ratio of current assets to current liabilities was 3.57:1 at March 31, 2012.

The following is a summary of cash provided by or used in each of the indicated types of activities during the three months ended March 31, 2012 and 2011:

| | 2012 | 2011 |
|-----------------------------|----------------|-----------------|
| Cash provided by (used in): | | |
| Operating activities | \$ (347,379) | \$ (15,461,142) |
| Investing activities | \$ (2,899,100) | \$ (12,562,461) |
| Financing activities | \$ 6,620,156 | \$ (112,093) |

Net cash flow used in operating activities was \$0.35 million in the three months ended March 31, 2012, compared to net cash flow used in operating activities of \$15.46 million in the same period of 2011. The decrease in net cash outflow in operating activities was due mainly to improved collection on accounts receivable, which brought us \$4.97 million cash inflow in the three months ended March 31, 2012, whereas we had cash outflow of \$0.84 million on accounts receivable in the comparable period of 2011. We also had cash inflow of \$3.67 million from advance to suppliers in the first quarter of 2012, whereas we had cash outflow of \$4.10 million in the comparable period of 2011. In addition, we had cash outflow of \$0.78 on inventory in the first quarter of 2012, compared with \$2.88 million cash outflow in the same period of 2011.

Net cash flow used in investing activities was \$2.90 million in the three months ended March 31, 2012, compared to net cash used in investing activities of \$12.56 million in the same period of 2011. In the three months ended March 31, 2012, we had \$1.94 million increase in restricted cash, and paid \$0.96 million advance for equipment purchase and \$0.81 million on construction in progress. In the comparable period of 2011, we had acquisition of SmartHeat Pump and SmartHeat Germany for \$13.49 million cash, and purchase of property and equipment of \$0.83 million.

Net cash flow provided by financing activities was \$6.62 million in the three months ended March 31, 2012, compared to net cash used in financing activities of \$0.11 million in the same period of 2011. The cash inflow in 2012 consisted primarily of proceeds from a short-term loan of \$7.93 million, but partially offset by repayment on notes payable of \$1.31 million. In the three months ended March 31, 2011, we had \$0.49 million in proceeds from a short-term loan and \$0.74 million from cash contribution from noncontrolling interest, but repaid \$1.34 million on notes payable.

Our agreements with our customers generally provide that 30% of the purchase price is due upon the placement of an order, 30% upon delivery and 30% upon installation and acceptance of the equipment after customer testing. As a common practice in the heating manufacturing business in China, payment of the final 10% of the purchase price is due no later than the termination date of the standard warranty period, which ranges from 3 to 24 months from the acceptance date, or up to 2 heating seasons. Our receipts for payment on our products depend on the complexity of the equipment ordered, which impacts manufacturing, delivery, installation, testing times and warranty periods. For example, PHEs are less complex than PHE Units and therefore have a shorter manufacturing, acceptance, warranty and payment schedule. We may experience payment delays from time to time, which historically have been from 1 to 3 months from the due date, but given the temporary financial difficulties in 2011 of some of our state-owned customers resulting from tightened fiscal policies in China, we have experienced longer payment delays from these customers. Our accounts receivable and inventory turnover are relatively low and days sales outstanding ratio relatively high. Consequently, collection on our sales is slow and capital is tied up in inventories, which may result in pressure on cash flows. For the three months ended March 31, 2012, we had accounts receivable turnover of 0.62,

with days sales outstanding of 589 and inventory turnover of 0.38 on an annualized basis. For the three months ended March 31, 2011, we had accounts receivable turnover of 2.43, with days sales outstanding of 150 and inventory turnover of 2.74 on an annualized basis. The low accounts receivable turnover and high days outstanding in the first quarter of 2012 was due primarily to the temporary financial difficulties of some of our state-owned customers that resulted in delays in their making payments to us. The low inventory turnover rate in the three months ended March 31, 2012, was due to decreased sales volume from our state-owned customers in China having temporary financial difficulties, which resulted in an unexpected cancelation of orders and delays in the performance of PHE and PHE Unit contracts.

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As of March 31, 2012, we had gross accounts receivable of \$56,511,119, of which \$3,086,442 was with aging within 30 days, \$10,320,625 was with aging over 30 days and within 90 days, \$23,347,733 was with aging over 90 days and within 180 days, \$7,112,489 was with aging over 180 days and within 360 days, and \$12,643,831 was with aging over 360 days. At March 31, 2012, net accounts receivable was \$40,103,024, or gross accounts receivable of \$56,511,119 less bad debt allowance of \$12,661,551, unearned interest of \$31,753 and total retention receivables of \$3,714,791.

Our accounts receivable typically remain outstanding for a significant period of time based on the standard payment terms with our customers described above. The increase in amount of accounts receivable outstanding for more than 180 days in the three months ended March 31, 2012, was due mainly to payment delays from certain state-owned customers that experienced working capital difficulties in 2011 because of the current deflationary fiscal policy of the PRC government. We do not expect a significant risk with respect to these overdue accounts receivable. We took the bad debt allowance against some of these customers and believe that a substantial portion of the bad debt will be repaid in 2012 as the PRC government restores grants and credit policies.

We recognize the final 5-10% of the purchase price as a retention receivable, which is due no later than the termination of our warranty period. The deferral of the final payment is a common practice in the heating manufacturing business in China. Sometimes our customers are required to deposit 5-10% of the sales price on high value products, like an assembled heat exchanger unit or the main part of a PHE, into designated bank accounts as restricted cash for securing the payment after such period expires. Based on our historical experience, there have been no defaults on such deferrals. Therefore, we believe the potential risks and uncertainty associated with defaults on such receivables are not material.

Dividend Distribution

We are a U.S. holding company that conducts substantially all of our business through our wholly owned and other consolidated operating entities in China and Germany. We will rely in part on dividends paid by our subsidiaries in China and Germany for our cash needs, including the funds necessary to pay dividends and other cash distributions to our shareholders, to service any debt we may incur and to pay our operating expenses. The payment of dividends by entities organized in China is subject to limitations. In particular, PRC regulations currently permit payment of dividends only out of accumulated profits as determined in accordance with accounting standards and regulations in China. Our PRC subsidiaries also are required to set aside at least 10% of their after-tax profit based on PRC accounting standards each year to a statutory surplus reserve fund until the accumulative amount of such reserve reaches 50% of registered capital. These reserves are not distributable as cash dividends. In addition, our PRC subsidiaries, at their discretion, may allocate a portion of their after-tax profit to their staff welfare and bonus fund, which may not be distributed to equity owners except in the event of liquidation. Moreover, if any of our subsidiaries incur debt on its own behalf in the future, the instruments governing the debt may restrict such subsidiary's ability to pay dividends or make other distributions to us. Any limitation on the ability of one of our subsidiaries to distribute dividends and other distributions to us could materially and adversely limit our ability to make investments or acquisitions that could be beneficial to our businesses, pay dividends or otherwise fund and conduct our business.

Off-Balance Sheet Arrangements

We have not entered into any other financial guarantees or other commitments to guarantee the payment obligations of any third parties other than as described following under "Contractual Obligations." We have not entered into any derivative contracts that are indexed to our shares and classified as stockholders' equity or that are not reflected in our consolidated financial statements. Furthermore, we do not have any retained or contingent interest in assets transferred to an unconsolidated entity that serves as credit, liquidity or market risk support to such entity. We do not have any variable interest in any unconsolidated entity that provides financing, liquidity, market risk or credit support to us or engages in leasing, hedging or research and development services with us.

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Contractual Obligations

We were obligated for the following short-term loans as of March 31, 2012, and December 31, 2011:

| | 2012 | 2011 |
|--|---------------|---------------|
| From a commercial bank in the PRC for RMB 25,000,000 entered into on October 18, 2010. The loan currently bears interest at 7.22% with maturity on October 17, 2011, and was renewed until September 13, 2012. The loan was pledged by bank deposit. | \$ 3,971,848 | \$ 3,967,687 |
| From a commercial bank in the PRC for RMB 10,000,000 entered into on June 27, 2011. The loan currently bears interest at 7.57% with maturity on June 27, 2012. The loan was pledged by bank deposit. | 1,588,739 | 1,587,075 |
| From a commercial bank in the PRC for RMB 3,000,000 entered into on June 30, 2011. The loan currently bears interest at 6.63% with maturity on June 29, 2012. The loan was guaranteed by a third party. | 476,622 | 476,122 |
| From a commercial bank in the PRC for RMB 5,000,000 entered into on July 6, 2011. The loan currently bears interest at 6.63% with maturity on July 5, 2012. The loan was guaranteed by a third party. | 794,370 | 793,537 |
| From a commercial bank in the PRC for RMB 3,000,000 entered into on July 15, 2011. The loan currently bears interest at 6.89% with maturity on July 14, 2012. The loan was guaranteed by a third party. | 476,622 | 476,122 |
| From a commercial bank in the PRC for RMB 1,600,000 entered into on August 1, 2011. The loan currently bears interest at 6.89% with maturity on July 31, 2012. The loan was guaranteed by a third party. | 254,198 | 253,932 |
| From a commercial bank in the PRC for RMB 3,300,000 entered into August 16, 2011. The loan currently bears interest at 6.89% with maturity on August 15, 2012. The loan was guaranteed by a third party. | 524,284 | 523,737 |
| From a commercial bank in the PRC for RMB 1,100,000 entered into on August 23, 2011. The loan currently bears interest at 6.89% with maturity on August 22, 2012. The loan was guaranteed by a third party. | 174,761 | 174,578 |
| From a commercial bank in the PRC for RMB 5,000,000 entered into on September 21, 2011. The loan currently bears interest at 7.22% with maturity on September 20, 2012. The loan was pledged by bank deposit. | 794,370 | 793,537 |
| From a commercial bank in the PRC for RMB 10,000,000 entered into on November 8, 2011. The loan currently bears interest at 7.872% with maturity on November 2, 2012. The loan was guaranteed by Taiyu. | 1,588,739 | 1,587,075 |
| From a commercial bank in the PRC for RMB 50,000,000 entered into on February 17, 2012. The loan currently bears interest at 7.872% with maturity on January 16, 2013. The loan was guaranteed by SanDeKe. | 7,943,694 | - |
| | \$ 18,588,247 | \$ 10,633,402 |

Of the loans listed above that are guaranteed by a third party, the guarantees were provided by the same third party company, the guarantee term is one year and we are not required to pay for this guarantee service as we provide the same guarantee service to loans of the third party company in return. As of March 31, 2012, we have signed a contract to provide guarantees of up to RMB 30 million (\$4.8 million) in loans for this third party company.

On December 12, 2011, we entered into a long-term loan agreement with a commercial bank for RMB 13,000,000 (\$2.07 million), bearing interest of 6.65%, with a maturity date of October 26, 2013. The loan was pledged with building and land.

Item 3. Quantitative and Qualitative Disclosures about Market Risk

Not applicable.

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Item 4. Controls and Procedures

Disclosure Controls and Procedures

Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, our principal executive officer and principal financial officer, respectively, evaluated the effectiveness of our disclosure controls and procedures as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act as of the end of the period covered by this report. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by us in the reports that we file or submit under 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 Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure. Based on this evaluation, our Chief Executive Officer and Chief Financial Officer concluded that, as of March 31, 2012, our disclosure controls and procedures were not effective as of such date because of a material weakness identified in our internal control over financial reporting related to our internal level of U.S. GAAP expertise. We lack sufficient personnel with the appropriate level of knowledge, experience and training in U.S. GAAP for the preparation of financial statements in accordance with U.S. GAAP. None of our internal accounting staff, including our Chief Financial Officer, that are primarily responsible for the preparation of our books and records and financial statements in compliance with U.S. GAAP holds a license such as Certified Public Accountant in the U.S., nor have any attended U.S. institutions or extended educational programs that would provide enough of the relevant education relating to U.S. GAAP. Our Board of Directors and management have implemented measures to mitigate this material weakness and are evaluating remediation measures that we will undertake to address this material weakness, and will continue this evaluation in order to implement a comprehensive remediation plan. Until such time as we hire qualified accounting staff and train our current accounting staff with the requisite U.S. GAAP experience, however, it is unlikely we will be able to remediate this material weakness in our internal control over financial reporting. Notwithstanding this material weakness, our management has concluded that our consolidated financial statements for the periods covered by and included in this report are prepared in accordance with U.S. GAAP and fairly present, in all material respects, our financial position, results of operations and cash flows for each of the periods presented herein.

Changes in Internal Control over Financial Reporting

There were no changes in our internal control over financial reporting (as such term is defined in Rules 13a-15(f) and 15d-15(f) of the Exchange Act) that occurred during the quarter ended March 31, 2012, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. In designing and evaluating the disclosure controls and procedures, management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives. In addition, the design of disclosure controls and procedures must reflect the fact that there are resource constraints and that management is required to apply its judgment in evaluating the benefits of possible controls and procedures relative to their costs.

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PART II. OTHER INFORMATION

Item 1. Legal Proceedings

We may become involved in various lawsuits and legal proceedings arising in the ordinary course of business. Litigation is subject to inherent uncertainties and an adverse result in these or other matters may arise from time to time that may have an adverse effect on our business, financial conditions or operating results. We are currently not aware of any such legal proceedings or claims that will have, individually or in the aggregate, a material adverse effect on our business, financial condition or operating results.

Item 1A. Risk Factors

Not applicable.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds

None.

Item 3. Defaults Upon Senior Securities

None.

Item 4. Mine Safety Disclosures

Not applicable.

Item 5. Other Information

None.

Item 6. Exhibits

See the Exhibit Index following the signature page to this Quarterly Report on Form 10-Q for a list of exhibits filed or furnished with this report, which Exhibit Index is incorporated herein by reference.

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SIGNATURES

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

Date: May 15, 2012

By: SMARTHEAT INC.
(Registrant)
/s/ Jun Wang
Jun Wang
Chief Executive Officer
(Principal Executive Officer and Duly
Authorized Signatory)

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EXHIBIT INDEX

| Exhibit No. | Document Description |
|-------------|---|
| 31.1 † | <u>Certification of Chief Executive Officer pursuant to Exchange Act Rules 13a-14(a) and 15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</u> |
| 31.2 † | <u>Certification of Chief Financial Officer pursuant to Exchange Act Rules 13a-14(a) and 15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</u> |
| 32.1 ‡ | <u>Certifications of Chief Executive Officer and Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002</u> |
| 101.INS† | XBRL Instance Document |
| 101.SCH† | XBRL Schema Document |
| 101.CAL† | XBRL Calculation Linkbase Document |
| 101.DEF† | XBRL Definition Linkbase Document |
| 101.LAB† | XBRL Label Linkbase Document |
| 101.PRE† | XBRL Presentation Linkbase Document |

† Filed herewith

‡ Furnished herewith

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