

Ascent Solar Technologies, Inc.
Form DEF 14A
April 18, 2012
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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 14A

(RULE 14a-101)

SCHEDULE 14A INFORMATION

Proxy Statement Pursuant to Section 14(a) of the
Securities Exchange Act of 1934

(Amendment No.)

Filed by the Registrant Filed by a Party other than the Registrant

Check the appropriate box:

- Preliminary Proxy Statement
- Confidential, for Use of the Commission Only (as permitted by Rule 14a-6(e)(2))
- Definitive Proxy Statement
- Definitive Additional Materials
- Soliciting Material Pursuant to §240.14a-12

ASCENT SOLAR TECHNOLOGIES, INC.

(Name of Registrant as Specified in its Charter)

(Name of Person(s) Filing Proxy Statement, if other than the Registrant)

Payment of Filing Fee (Check the appropriate box):

- No fee required.
- Fee computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11.

(1) Title of each class of securities to which transaction applies:

(2) Aggregate number of securities to which transaction applies:

(3) Per unit price or other underlying value of transaction computed pursuant to Exchange Act Rule 0-11 (set forth the amount on which the filing fee is calculated and state how it was determined):

(4) Proposed maximum aggregate value of transaction:

(5) Total fee paid:

Fee paid previously with preliminary materials:

Check box if any part of the fee is offset as provided by Exchange Act Rule 0-11(a)(2) and identify the filing for which the offsetting fee was paid previously. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its filing.

(1) Amount Previously Paid:

(2) Form, Schedule or Registration Statement No.:

(3) Filing Party:

(4) Date Filed:

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April 18, 2012

Dear Stockholder:

You are cordially invited to attend the 2012 Annual Meeting of Stockholders of Ascent Solar Technologies, Inc. to be held on June 6, 2012. The meeting will be held at the DoubleTree by Hilton, 83 East 120th Avenue, Thornton, Colorado 80233 beginning at 2:00 p.m. Mountain Time. At this year's Annual Meeting, our stockholders will be asked to elect one Class 1 director and two Class 3 directors, to approve an amendment and restatement of our 2008 Restricted Stock Plan and to ratify the selection of Hein & Associates LLP as our independent registered public accounting firm. Additional information about the Annual Meeting is given in the attached Notice of 2012 Annual Meeting of Stockholders and Proxy Statement.

In accordance with rules adopted by the Securities and Exchange Commission, we are pleased to again furnish these proxy materials to stockholders primarily over the Internet, rather than in paper form. We believe these rules allow us to provide our stockholders with expedited and convenient access to the information they need, while helping to conserve natural resources and lower the costs of printing and delivering proxy materials.

Whether or not you plan to attend the Annual Meeting, we hope you will vote as soon as possible. Voting your proxy will ensure your representation at the Annual Meeting. If you attend the Annual Meeting in person, you may vote your shares in person even though you have previously given your proxy.

Sincerely,

Victor Lee

President and Chief Executive Officer

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ASCENT SOLAR TECHNOLOGIES, INC.

12300 North Grant Street

Thornton, Colorado 80241

(720) 872-5000

NOTICE OF 2012 ANNUAL MEETING OF STOCKHOLDERS

June 6, 2012

at 2:00 p.m. Mountain Time

TO OUR STOCKHOLDERS:

NOTICE IS HEREBY GIVEN that the 2012 Annual Meeting of Stockholders (the "Annual Meeting") of Ascent Solar Technologies, Inc., a Delaware corporation, will be held on June 6, 2012, at 2:00 p.m. Mountain Time at the DoubleTree by Hilton, 83 East 120th Avenue, Thornton, Colorado 80233, for the following purposes, as more fully described in the Proxy Statement accompanying this notice:

1. ELECTION OF DIRECTORS. To elect one Class 1 director to serve until the 2015 annual meeting of stockholders and until his successor has been elected and qualified and to elect two Class 3 directors to serve until the 2014 annual meeting of stockholders and until their successors have been elected and qualified;
2. AMENDMENT AND RESTATEMENT OF 2008 RESTRICTED STOCK PLAN. To approve an amendment and restatement of the Company's 2008 Restricted Stock Plan;
3. RATIFICATION OF AUDITORS. To ratify the Audit Committee's appointment of Hein & Associates LLP as our independent registered public accounting firm for the year ending December 31, 2012; and
4. ANY OTHER BUSINESS that may properly come before the Annual Meeting or any adjournments or postponements thereof.

Stockholders who owned shares of our common stock at the close of business on April 10, 2012 are entitled to receive notice of, attend and vote at the Annual Meeting and any adjournment or postponement thereof. A complete list of these stockholders will be available at our corporate offices listed above during regular business hours for the ten days prior to the Annual Meeting.

Your vote is important. Whether or not you plan to attend the Annual Meeting, please vote as soon as possible. If you received notice of how to access the proxy materials over the Internet, a proxy card was not sent to you, but you may vote by telephone or online. If you received a proxy card and other proxy materials by mail, you may vote by mailing a completed proxy card, by telephone or online. For specific voting instructions, please refer to the information provided in the following Proxy Statement, together with your proxy card or the voting instructions you receive by e-mail or that are provided via the Internet.

The Board of Directors recommends stockholders vote FOR the Class 1 director nominee and each of the Class 3 director nominees and FOR Proposals 2 and 3.

By Order of the Board of Directors

Victor Lee

President and Chief Executive Officer

Thornton, Colorado

April 18, 2012

Important Notice Regarding the Availability of Proxy Materials for the Annual Meeting of Stockholders to be held on June 6, 2012 — The Proxy Statement and our Annual Report on Form 10-K for the fiscal year ended December 31, 2011 are available at www.ascentsolar.com.

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ASCENT SOLAR TECHNOLOGIES, INC.
12300 North Grant Street
Thornton, Colorado 80241
(720) 872-5000

PROXY STATEMENT

Your proxy is being solicited by the Board of Directors (the “Board”) of Ascent Solar Technologies, Inc., a Delaware corporation, for use at the 2012 Annual Meeting of Stockholders (the “Annual Meeting”) to be held at 2:00 p.m. Mountain Time on June 6, 2012, or at any adjournment or postponement thereof, for the purposes set forth in this Proxy Statement. The Annual Meeting will be held at the DoubleTree by Hilton, 83 East 120th Avenue, Thornton, Colorado 80233.

These proxy materials are first being provided on or about April 18, 2012 to all stockholders as of the record date, April 10, 2012. Stockholders who owned our common stock at the close of business on April 10, 2012 are entitled to receive notice of, attend and vote at the Annual Meeting. On the record date, there were 41,154,516 shares of our common stock outstanding.

This Proxy Statement is being furnished to you with a copy of our Annual Report on Form 10-K for the fiscal year ended December 31, 2011 (the “Annual Report”), which was filed with the Securities and Exchange Commission (the “SEC”) on March 22, 2012. We will provide, without charge, additional copies of our Annual Report upon request. Any exhibits listed in the Annual Report also will be furnished upon request at the actual expense we incur in furnishing such exhibit to you. Any such requests should be directed to our Corporate Secretary at our executive offices set forth above.

References to the “Company,” “Ascent Solar,” “our,” “us” or “we” mean Ascent Solar Technologies, Inc.

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VOTING AND RELATED MATTERS

Voting Procedures

As a stockholder of Ascent Solar, you have a right to vote on certain business matters affecting us. The proposals that will be presented at the Annual Meeting and upon which you are being asked to vote are discussed below. Each share of our common stock you owned as of the record date entitles you to one vote on each proposal presented at the Annual Meeting.

Electronic Delivery of Proxy Materials

Under rules adopted by the SEC, we are furnishing proxy materials to our stockholders primarily via the Internet, instead of mailing printed copies of those materials to each stockholder. On or about April 18, 2012, we sent our stockholders (other than those who previously requested electronic or paper delivery) a Notice of Internet Availability containing instructions on how to access our proxy materials, including our Proxy Statement and our Annual Report, on the Internet. The Notice of Internet Availability also instructs stockholders on how they can vote over the Internet or by telephone.

If you would prefer to receive printed proxy materials, please follow the instructions included in the Notice of Internet Availability. If you have previously elected to receive our proxy materials electronically, you will continue to receive these materials via e-mail unless you elect otherwise.

Methods of Voting

You may vote over the Internet, by telephone, by mail or in person at the Annual Meeting.

Voting over the Internet. You can vote via the Internet. The website address for Internet voting and the instructions for voting are provided on your Notice or proxy card. You will need to use the control number appearing on your Notice or proxy card to vote via the Internet. If you vote via the Internet you do not need to vote by telephone or return a proxy card.

Voting by Telephone. You can vote by telephone by calling the toll-free telephone number provided on your proxy card. You will need to use the control number appearing on your Notice or proxy card to vote by telephone. If you vote by telephone you do not need to vote over the Internet or return a proxy card.

Voting by Mail. If you received a printed proxy card, you can vote by marking, dating and signing it, and returning it in the postage-paid envelope provided. You may also download the form of proxy card off the Internet and mail it to us. Please promptly mail your proxy card to ensure that it is received prior to the closing of the polls at the Annual Meeting.

Voting in Person at the Meeting. If you attend the Annual Meeting and plan to vote in person, we will provide you with a ballot at the Annual Meeting. If your shares are registered directly in your name, you are considered the stockholder of record, and you have the right to vote in person at the Annual Meeting. If your shares are held in the name of your broker or other nominee, you are considered the beneficial owner of shares held in street name. As a beneficial owner, if you wish to vote at the Annual Meeting, you will need to bring to the Annual Meeting a legal proxy from your broker or other nominee authorizing you to vote those shares.

Revoking Your Proxy

You may revoke your proxy at any time before it is voted at the Annual Meeting. To do this, you must:

- enter a new vote over the Internet or by telephone, or by signing and returning a replacement proxy card;
- provide written notice by June 6, 2012 of the revocation to our Corporate Secretary at our principal executive offices, which are located at 12300 North Grant Street, Thornton, Colorado 80241; or
- attend the Annual Meeting and vote in person.

Quorum and Voting Requirements

Stockholders of record at the close of business on April 10, 2012 are entitled to receive notice and vote at the meeting. On the record date, there were 41,154,516 issued and outstanding shares of our common stock. Each holder of our common stock voting at the meeting, either in person or by proxy, may cast one vote per share of common stock held on all matters to be voted on at the meeting.

The presence, in person or by proxy, of the holders of a majority of the outstanding shares of common stock entitled to vote constitutes a quorum for the transaction of business at the meeting. Assuming that a quorum is present:

(1)

the affirmative vote of a majority of the shares having voting power present in person or by proxy will be required to elect each director nominee;

(2) the affirmative vote of a majority of the shares having voting power present in person or by proxy will be required to

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approve the amendment and restatement of the 2008 Restricted Stock Plan (the “Restricted Stock Plan”);
the affirmative vote of a majority of the shares having voting power present in person or by proxy will be required
(3) to ratify the appointment of Hein & Associates LLP as our independent registered public accounting firm for the year ending December 31, 2012; and

unless otherwise required by our Second Amended and Restated Bylaws (the “Bylaws”) or by applicable law, the affirmative vote of a majority of the shares present having voting power in person or by proxy will be required to
(4) approve any other matter properly presented for a vote at the meeting; provided that if any stockholders are entitled to vote thereon as a class, such approval will require the affirmative vote of a majority of the shares entitled to vote as a class who are present in person or by proxy.

Votes cast by proxy or in person at the meeting will be tabulated by the election inspectors appointed for the meeting. Such inspectors will also determine whether a quorum is present. The election inspectors will treat abstentions as shares that are present and entitled to vote for purposes of determining the presence of a quorum, but as unvoted for purposes of determining the approval of any matter submitted to the stockholders for a vote. If your shares are held in street name and you do not instruct your broker on how to vote your shares, your brokerage firm, in its discretion, may either leave your shares unvoted or vote your shares on routine matters. The election of directors and the proposal to amend and restate the Restricted Stock Plan should be considered non-routine matters. Consequently, without your voting instructions, your brokerage firm cannot vote your shares on these proposals. These unvoted shares, called “broker non-votes,” refer to shares held by brokers who have not received voting instructions from their clients and who do not have discretionary authority to vote on non-routine matters. The proposal to ratify the appointment of Hein & Associates LLP as our independent registered public accounting firm for the current fiscal year is considered a routine matter. To the extent your brokerage firm votes your shares on your behalf on this proposal, your shares also will be counted as present for the purpose of determining a quorum. Abstentions shall have the same effect as a vote against any proposal voted upon at the meeting. Broker non-votes shall have no effect on the outcome of the election of directors or the approval of the Restricted Stock Plan proposal.

Voting of Proxies

When a proxy is properly executed and returned, the shares it represents will be voted at the Annual Meeting as directed. If no specification is indicated, the shares will be voted:

- (1) “for” the election of the director nominees set forth in this Proxy Statement;
- (2) “for” the amendment and restatement of the 2008 Restricted Stock Plan;
- (3) “for” the ratification of the appointment of Hein & Associates LLP as our independent registered public accounting firm for the year ending December 31, 2012; and
- (4) at the discretion of your proxies on any other matter that may be properly brought before the Annual Meeting.

If your shares are held in street name and you do not instruct your broker on how to vote your shares, your brokerage firm, in its discretion, may either leave your shares unvoted or vote your shares on routine matters, which include the ratification of our independent registered public accounting firm.

Voting Confidentiality

Proxies, ballots and voting tabulations are handled on a confidential basis to protect your voting privacy. This information will not be disclosed, except as required by law.

Voting Results

Voting results will be announced at the Annual Meeting and published in a Form 8-K to be filed within four (4) business days after the Annual Meeting.

Householding of Proxy Materials

In a further effort to reduce printing costs and postage fees, we have adopted a practice approved by the SEC called “householding.” Under this practice, stockholders who have the same address and last name and do not participate in electronic delivery of proxy materials will receive only one copy of our proxy materials, unless one or more of these stockholders notifies us that he or she wishes to continue receiving individual copies.

If: (1) you share an address with another stockholder and received only one set of proxy materials, and would like to request a separate paper copy of these materials; or (2) you share an address with another stockholder and in the future together you would like to receive only a single paper copy of these materials, please notify our Corporate Secretary by mail at 12300

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North Grant Street, Thornton, Colorado 80241.

Proxy Solicitation

We will bear the cost of this solicitation. In addition, we may reimburse brokerage firms and other persons representing beneficial owners of shares for reasonable expenses incurred in forwarding solicitation materials to such beneficial owners. Proxies also may be solicited by our directors, officers or employees, personally, or by mail, facsimile, telephone, messenger or via the Internet, without additional compensation.

Driving Directions to the Annual Meeting

The DoubleTree by Hilton is approximately 29 miles from Denver International Airport. From the Airport, take Pena Boulevard to I-70 West to I-270 to North I-25 to 120th Avenue Exit 223. Merge on to 120th turn left on Grant Street, take the first left and proceed through the parking lot to the hotel.

EXECUTIVE OFFICERS AND DIRECTORS

Our executive officers, continuing directors and director nominees, their ages and positions with us as of April 10, 2012, are as follows:

| Name | Age | Position |
|-------------------|-----|---|
| Victor Lee | 44 | President and Chief Executive Officer, Director |
| Gary Gatchell | 54 | Chief Financial Officer and Secretary |
| Amit Kumar, Ph.D. | 47 | Chairman of the Board, Director |
| Kim J. Huntley | 57 | Director |
| G. Thomas Marsh | 68 | Director |
| Xu Biao | 42 | Director |

Note: Mr. Richard J. Swanson will not be standing for re-election at the end of his term in 2012.

Victor Lee (Lee Kong Hian) has been the President and Chief Executive Officer of Ascent Solar Technologies Inc. since February 1, 2012 and as a member of our Board since November 2011. Mr. Victor Lee is the managing director of Tertius Financial Group Pte Ltd, a boutique corporate advisory and private investment firm he founded in February 2009. He brings more than 17 years of experience in corporate banking, real estate finance and investment management, and corporate advisory services at leading worldwide financial institutions. Mr. Victor Lee began his career at Citibank N.A., in 1993, handling small- and medium-sized corporate finance and progressed to a vice president position in the International Personal Banking Division. In 1999 he moved to Deutsche Bank AG as Vice President and in 2004 was promoted to managing director Singapore Market Head in the Private Wealth Management Division, where he was responsible for management of approximately \$1 Billion in assets. From 2007 until 2009, he was with Morgan Stanley Private Wealth Management, most recently as executive director and head of Singapore/Malaysia markets. Mr. Victor Lee holds a Bachelor's degree in Accounting from the University of Wisconsin and a Master's in Wealth Management from the Singapore Management University. Mr. Victor Lee is a designated board representative of TFG Radiant pursuant to the Amended and Restated Stockholders Agreement between us and TFG Radiant.

Gary Gatchell has served as our Chief Financial Officer and Secretary since March 2008. Prior to joining Ascent Solar, Mr. Gatchell served as the Chief Financial Officer of Carrier Access Corporation, a telecommunications equipment provider ("Carrier Access"). Mr. Gatchell joined Carrier Access, a NASDAQ listed company, in June 2005. Prior to joining Carrier Access, from 1999 to 2004, Mr. Gatchell served as the Chief Financial Officer of Voyant Technologies, Inc., a leading provider of audio conferencing equipment that was acquired by Polycom, Inc., and as an audit manager at KPMG. Mr. Gatchell is a registered Certified Public Accountant and holds a Masters degree in Accountancy from the University of Denver. Mr. Gatchell is a member of the AICPA and CSCPA.

Amit Kumar, Ph.D. has served on our Board of Directors since June 2007 and as Chairman since January 2011. From September 2001 until June 30, 2010, Dr. Kumar was President and CEO of CombiMatrix Corporation (NASDAQ: CBMX). Previously, Dr. Kumar was Vice President of Life Sciences of Acacia Research Corp (NASDAQ: ACTG). From January 1999 to February 2000, Dr. Kumar was the founding President and Chief Executive Officer of Signature BioSciences, Inc., a life science company developing technology for advanced

research in genomics, proteomics and drug discovery. From January 1998 to December 1999, Dr. Kumar was an Entrepreneur in Residence with Oak Investment Partners, a venture capital firm. From October 1996 to January 1998, Dr. Kumar was a Senior Manager at IDEXX Laboratories, Inc., a biotechnology company.

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From October 1993 to September 1996, Dr. Kumar was Head of Research & Development for Idetek Corporation, which was later acquired by IDEXX Laboratories, Inc. Dr. Kumar received his B.S. degree in chemistry from Occidental College. After joint studies at Stanford University and the California Institute of Technology, he received his Ph.D. in Chemistry from Caltech in 1991. He also completed a post-doctoral fellowship at Harvard University in 1993. Dr. Kumar has authored and co-authored over 40 peer-reviewed publications and holds a dozen patents. Dr. Kumar brings significant leadership experience as well as experience in photovoltaic research including work on energy conversion using cells made from silicon (single crystal, polycrystalline, and amorphous), gallium arsenide, indium phosphide, metal oxides and other materials. Dr. Kumar is a member of the Board of Directors of CombiMatrix Corporation (NASDAQ: CBMX), Aeolus Pharmaceuticals (AOLS: OTC), and Tacere Therapeutics.

Kim J. Huntley has served on our Board of Directors since June 2010. Mr. Huntley served in the Defense Logistics Agency (DLA) of the U.S. Department of Defense (DOD) for more than 32 years in positions of increasing responsibility. Most recently, from July 2008 until his retirement in January 2010, Mr. Huntley served as Director of the Defense Energy Support Center (DESC) in Fort Belvoir, Virginia. The DESC operates as part of the DLA and is responsible for providing energy solutions to the DOD and federal civilian agencies. As Director of the DESC, Mr. Huntley was the principal executive officer in charge of approximately 1,100 employees worldwide and over \$25 billion in annual appropriations involving energy infrastructure and products. From March 2006 and immediately prior to becoming Director of the DESC, Mr. Huntley served in leadership roles involving supply chain management, including Deputy Commander for the Defense Supply Center in Richmond, Virginia and Columbus, Ohio, and as Executive Director of Customer Support and Readiness. From December 2003 to March 2006, Mr. Huntley served as Chief of the Customer Support Office in Fort Belvoir, Virginia. Mr. Huntley chaired the Inter Agency Working Group for Alternative Fuels and Renewable Energy from January 2009 to January 2010. The Group included senior energy representatives from DOD, DOE, EPA, and other major Federal Agencies. Mr. Huntley holds a B.A. degree in Economics from Golden Gate University and attended post-graduate courses in economics at California State University, Hayward. Mr. Huntley brings extensive supply chain, budget and defense industry experience to our Board.

G. Thomas Marsh has served on our Board of Directors since June 2010. In June 2006, Mr. Marsh retired as Executive Vice President of Lockheed Martin Space Systems Company, a subsidiary of Lockheed Martin Corporation. Lockheed Martin Space Systems designs, develops, tests, manufactures and operates advanced-technology systems, including human space flight systems, satellites and instruments, space observatories and interplanetary spacecraft, laser radar, fleet ballistic missiles, and missile defense systems. From 1969 until its merger in 1995 to form Lockheed Martin Corporation, Mr. Marsh worked at Martin Marietta Corporation, most recently in the position of President, Manned Space Systems. After 1995, he held positions of increasing responsibility within Lockheed Martin Corporation, including serving as President and General Manager of the Missiles and Space Operations business unit from 2002 until his appointment as Executive Vice President of Lockheed Martin Space Systems in 2003. Mr. Marsh was responsible for business operations and the activities of approximately 18,000 Space Systems employees. Mr. Marsh holds a B.S. degree in Electrical Engineering from the University of New Mexico, an M.B.A. from the University of Colorado, and attended the Massachusetts Institute of Technology's Sloan School of Management. Mr. Marsh brings a background in executive management and deep experience with the space and defense industries to our Board.

Xu Biao (Winston Xu) has served on our Board of Directors since April 2012. Mr. Xu currently serves as the Chairman of Radiant Group which he founded in 1997, and as the Chairman of TFG Radiant Investment Group Ltd., a joint venture between Radiant Group and Tertius Financial Group, a private investment firm based in Singapore. Mr. Xu has more than 15 years of experience with investments and operations for a broad spectrum of business start-ups, developments, turnarounds and private equity investments. As a Fellow Chartered Institute of Building ("CIOB") member, Mr. Xu is an industry expert in the areas of metallic roofing design and construction, building materials, manufacturing, and international trading. Mr. Xu is a self-made entrepreneur and has businesses footprints spanning the world. He started his career in 1995 as a project manager for Shenzhen Nanli Decorate Construction Company where he designed and developed over thirty types of profiles and systems and is the owner of such intellectual

property. He is a certified engineer in Construction Management from China National Institute of Engineers. He holds a Bachelor of Science degree in Industrial Design from ZhongNan Industrial University, and a MBA from QingHua University. Mr. Xu is a designated board representative of TFG Radiant pursuant to the Amended and Restated Stockholders Agreement between us and TFG Radiant.

CORPORATE GOVERNANCE

Overview

Our Bylaws provide that the size of our Board of Directors is to be determined from time to time by resolution of the Board of Directors, but shall consist of at least two and no more than nine members. Our Board of Directors currently consists of six members. Following the annual meeting, the Board of Directors will consist of five members. The Board has determined that the following directors are “independent” as required by the listing standards of The NASDAQ Global Market and by our

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corporate governance guidelines: Dr. Kumar, Mr. Swanson, Mr. Huntley and Mr. Marsh.

Our Certificate of Incorporation provides that the Board of Directors will be divided into three classes. Our Class 1 directors are Dr. Amit Kumar and Richard Swanson. Our Class 2 directors are Kim J. Huntley and G. Thomas Marsh. Our Class 3 directors are Victor Lee and Xu Biao. Mr. Swanson will be retiring from the Board at the conclusion of his term. The terms of Messrs. Kumar, Lee and Xu expire at the Annual Meeting. Upon the recommendation of the Nominating and Governance Committee, the Board has nominated Dr. Kumar as the Class 1 nominee and Mr. Victor Lee and Mr. Xu Biao as the Class 3 director nominees.

Board Leadership Structure and Role in Risk Oversight

We currently separate the roles of Chairman of the Board and Chief Executive Officer. We believe that Dr. Kumar possesses the strategic, technical and industry knowledge and expertise to serve as our Chairman. As President and Chief Executive Officer, Mr. Victor Lee is responsible for day-to-day oversight of our operations and personnel.

Notwithstanding the foregoing, our Board does not have a formal policy regarding separation of the Chairman and Chief Executive Officer roles, and the Board may in the future decide to implement such a policy if it deems it in the best interests of us and our stockholders. The Board does not have a lead independent director.

Risk is inherent with every business, and how well a business manages risk can ultimately determine its success. We face a number of risks, including credit risk, interest rate risk, liquidity risk, operational risk, strategic risk and reputation risk. Management is responsible for the day-to-day management of risks we face, while the Board, as a whole and through its committees, has responsibility for the oversight of risk management. In its risk oversight role, the Board of Directors has the responsibility to satisfy itself that the risk management processes designed and implemented by management are adequate and functioning as designed. To do this, the Chairman of the Board meets regularly with management to discuss strategy and the risks we face. In addition, the Audit Committee regularly monitors our enterprise risk management process, including financial risks, through reports from management. Senior management attends the Board meetings and is available to address any questions or concerns raised by the Board on risk management and any other matters. The Chairman of the Board and independent members of the Board work together to provide strong, independent oversight of our management and affairs through the Board's standing committees and, when necessary, executive sessions of the independent directors.

Committees of the Board of Directors

Our Board has three standing committees: an Audit Committee, a Compensation Committee, and a Nominating and Governance Committee. Each committee operates pursuant to a charter. The charters of the Audit Committee, the Compensation Committee, and the Nominating and Governance Committee can be found on our website www.ascentsolar.com.

Audit Committee. Our Audit Committee oversees our accounting and financial reporting processes, internal systems of accounting and financial controls, relationships with independent auditors, and audits of financial statements.

Specific responsibilities include the following:

- selecting, hiring and terminating our independent auditors;
- evaluating the qualifications, independence and performance of our independent auditors;
- approving the audit and non-audit services to be performed by our independent auditors;
- reviewing the design, implementation, adequacy and effectiveness of our internal controls and critical accounting policies;
- reviewing and monitoring the enterprise risk management process;
- overseeing and monitoring the integrity of our financial statements and our compliance with legal and regulatory requirements as they relate to financial statements or accounting matters;
- reviewing, with management and our independent auditors, any earnings announcements and other public announcements regarding our results of operations; and
- preparing the report that the SEC requires in our annual proxy statement.

Our Audit Committee is comprised of Mr. Huntley, Dr. Kumar and Mr. Swanson. Mr. Swanson serves as Chairman of the Audit Committee. The Board has determined that all members of the Audit Committee are independent under the rules of The NASDAQ Global Market, and that Mr. Swanson qualifies as an "audit committee financial expert," as defined by the rules of the SEC.

Compensation Committee. Our Compensation Committee assists our Board in determining the development plans and compensation of our officers, directors and employees. Specific responsibilities include the following:

- approving the compensation and benefits of our executive officers;
- reviewing the performance objectives and actual performance of our officers; and
- administering our stock option and other equity compensation plans.

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The Compensation Committee reviews all components of compensation including base salary, bonus, equity compensation, benefits and other perquisites. In addition to reviewing competitive market values, the Compensation Committee also examines the total compensation mix, pay-for-performance relationship and how all elements, in the aggregate, comprise the executives' total compensation package. The CEO makes recommendations to the Compensation Committee from time to time regarding the appropriate mix and level of compensation for other officers. Those recommendations consider the objectives of our compensation philosophy and the range of compensation programs authorized by the Compensation Committee. The Compensation Committee may determine director compensation by reviewing peer group data. Although the Compensation committee has the authority to retain outside third parties, it does not currently utilize any outside consultants. The Compensation Committee may delegate certain of its responsibilities, as it deems appropriate, to other committees or officers.

Our Compensation Committee is comprised of Mr. Marsh and Mr. Swanson. Mr. Marsh serves as Chairman of the Compensation Committee. Our Board has determined that all members of the Compensation Committee are independent under the rules of The NASDAQ Global Market.

Nominating and Governance Committee. Our Nominating and Governance Committee assists our Board by identifying and recommending individuals qualified to become members of our Board, reviewing correspondence from our stockholders, and establishing, evaluating and overseeing our corporate governance guidelines. Specific responsibilities include the following:

- evaluating the composition, size and governance of our Board and its committees and making recommendations regarding future planning and the appointment of directors to our committees;
- establishing a policy for considering stockholder nominees for election to our Board; and
- evaluating and recommending candidates for election to our Board.

Our Nominating and Governance Committee is comprised of Mr. Huntley, Dr. Kumar and Mr. Marsh. Dr. Kumar serves as Chairman of our Nominating and Governance Committee. Our Board has determined that all members of the Nominating and Governance Committee are independent under the rules of The NASDAQ Global Market.

When considering potential director candidates for nomination or election, the following characteristics are considered in accordance with our Nominating and Governance Committee Charter:

- high standard of personal and professional ethics, integrity and values;
- training, experience and ability at making and overseeing policy in business, government and/or education sectors;
- willingness and ability to keep an open mind when considering matters affecting interests of us and our constituents;
- willingness and ability to devote the time and effort required to effectively fulfill the duties and responsibilities related to Board and its committees;
- willingness and ability to serve on the Board for multiple terms, if nominated and elected, to enable development of a deeper understanding of our business affairs;
- willingness not to engage in activities or interests that may create a conflict of interest with a director's responsibilities and duties to us and our constituents; and
- willingness to act in the best interests of us and our constituents, and objectively assess Board, committee and management performances.

In addition, in order to maintain an effective mix of skills and backgrounds among the members of our Board, the following characteristics also may be considered when filling vacancies or identifying candidates:

- independence;
- diversity (e.g., age, geography, professional, other);
- professional experience;
- industry knowledge (e.g., relevant industry or trade association participation);
- skills and expertise (e.g., accounting or financial);
- leadership qualities;
- public company board and committee experience;
- non-business-related activities and experience (e.g., academic, civic, public interest);
- continuity (including succession planning);

size of the Board;

number and type of committees, and committee sizes; and

legal and other applicable requirements and recommendations, and other corporate governance-related guidance regarding Board and committee composition.

The Nominating and Governance Committee will consider candidates recommended by stockholders who follow the nomination procedures in our bylaws. The Nominating and Governance Committee does not have a formal policy with respect

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to diversity; however, as noted above, the Board and the Nominating and Governance Committee believe that it is essential that Board members represent diverse viewpoints.

Number of Meetings

The Board held a total of eighteen meetings in 2011. Our Audit Committee held eight meetings, our Compensation Committee held three meetings, and our Nominating and Governance Committee held two meetings in 2011. Each director attended at least 79% of the aggregate of the total number of meetings of the Board and the Board committees on which he served.

Board Member Attendance at Annual Stockholder Meetings

Although we do not have a formal policy regarding director attendance at annual stockholder meetings, directors are encouraged to attend these annual meetings absent extenuating circumstances. Our 2011 annual meeting was attended by three of the six directors serving at the time.

Stockholder Nominations

In accordance with our Bylaws, a stockholder wishing to nominate a director for election at an annual or special meeting of stockholders must timely submit a written proposal of nomination to us at our executive offices. To be timely, a written proposal of nomination for an annual meeting of stockholders must be received at least 90 calendar days but no more than 120 calendar days before the first anniversary of the date on which we held our annual meeting of stockholders in the immediately preceding year; provided, however, that in the event that the date of the annual meeting is advanced or delayed more than 30 calendar days from the anniversary of the annual meeting of stockholders in the immediately preceding year, the written proposal must be received: (i) at least 90 calendar days but no more than 120 calendar days prior to the date of the annual meeting; or (ii) no more than 10 days after the date we first publicly announce the date of the annual meeting. A written proposal of nomination for a special meeting of stockholders must be received no earlier than 120 calendar days prior to the date of the special meeting nor any later than the later of: (i) 90 calendar days prior to the date of the special meeting; and (ii) 10 days after the date we first publicly announce the date of the special meeting.

Each written proposal for a nominee must contain: (i) the name, age, business address and telephone number, and residence address and telephone number of the nominee; (ii) the current principal occupation or employment of each nominee, and the principal occupation or employment of each nominee for the prior ten (10) years; (iii) a complete list of companies, whether publicly traded or privately held, on which the nominee serves (or, during any of the prior ten (10) years, has served) as a member of the board of directors; (iv) the number of shares of our common stock that are owned of record and beneficially by each nominee; (v) a statement whether the nominee, if elected, intends to tender, promptly following such person's failure to receive the required vote for election or reelection at the next meeting at which the nominee would face election or reelection, and irrevocable resignation effective upon acceptance of such resignation by the Board; (vi) a completed and signed questionnaire, representation and agreement relating to voting agreements or commitments to which the nominee is a party; (vii) other information concerning the nominee that would be required in a proxy statement soliciting the nominee's election; and (viii) information about, and representations from, the stockholder making the nomination.

A stockholder interested in submitting a nominee for election to the Board of Directors should refer to our Bylaws for additional requirements. Upon receipt of a written proposal of nomination meeting these requirements, the Nominating and Governance Committee of the Board will evaluate the nominee in accordance with its charter and the characteristics listed above.

Director Compensation

In 2011, our independent directors each received an annual cash retainer of \$20,000 and restricted stock units valued at \$35,000 based on the closing price of our common stock on December 31, 2010. In addition, an independent director received: (1) for serving as a Board committee member, restricted stock unit awards valued at \$10,000 based on the closing price of our common stock as of December 31, 2010; (2) for serving as chairman of the Audit Committee, restricted stock unit awards valued at \$20,000 based on the closing price of our common stock on December 31, 2010; (3) for serving as chairman of the Compensation Committee, restricted stock unit awards valued at \$20,000 based on the closing price of our common stock on December 31, 2010; and (4) for serving as chairman of

the Nominating and Governance Committee, restricted stock unit awards valued at \$20,000 based on the closing price of our common stock on December 31, 2010; and (5) for serving as chairman of the Board, additional cash compensation of \$60,000 and restricted stock unit awards valued at \$40,000 based on the closing price of our common stock on December 31, 2010.

The following Director Compensation Table summarizes the compensation of each our non-employee directors for

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services rendered to us during the year ended December 31, 2011:

2011 Director Compensation Table

| Name | Fees Earned or Paid in Cash (\$) | Stock Awards (\$)(1) | All Other Comp (\$) | Total (\$) |
|------------------------|---|-------------------------|------------------------------|------------|
| Amit Kumar | 80,000 | 105,029 | — | 185,029 |
| Kim J. Huntley | 20,000 | 55,023 | — | 75,023 |
| G. Thomas Marsh | 20,000 | 62,032 | — | 82,032 |
| Richard J. Swanson | 20,000 | 65,017 | — | 85,017 |
| Ron Eller (2) | 5,000 | 16,258 | — | 21,258 |
| Victor Lee | — | — | — | — |
| Hans Olav Kvalvaag (3) | — | — | — | — |

(1) Represents the aggregate grant date fair value of restricted stock unit awards computed in accordance with FASB ASC Topic 718 for awards of stock granted during the year ended December 31, 2011.

(2) Mr. Eller became CEO March 31, 2011. Compensation in this table only includes cash or awards received or granted during 2011 while a non-employee director.

(3) Following the closing of the TFG Radiant Transaction (as defined and further discussed under “Related Party Transactions” below) on March 30, 2012, Hans Olav Kvalvaag, a designated representative of Norsk Hydro, resigned from our Board. Under the Stockholders' Agreement dated March 13, 2007 between us and Norsk Hydro, Norsk Hydro no longer has any rights to designate a representative of Norsk Hydro to our Board.

In addition to the fees listed above, we reimburse the directors for their travel expenses incurred in attending meetings of the Board or its committees. The directors did not receive any other compensation or personal benefits.

Code of Ethics

We have adopted a code of ethics that applies to our principal executive officer, principal financial officer, principal accounting officer and other senior finance and accounting staff. The code is designed to, among other things, deter wrongdoing and to promote the honest and ethical conduct of our officers and employees. The text of our code of ethics can be found on our Internet website at www.ascentsolar.com. If we effect an amendment to, or waiver from, a provision of our code of ethics, we intend to satisfy our disclosure requirements by posting a description of such amendment or waiver on that Internet website or via a current report on Form 8-K.

Communication with the Board of Directors

Stockholders may communicate with the Board by sending correspondence to our Chairman, c/o the Corporate Secretary, at our corporate address on the cover of this Proxy Statement. It is our practice to forward all such correspondence to our Chairman, who is responsible for determining whether to relay the correspondence to the other members of the Board.

EXECUTIVE COMPENSATION

Compensation of Executive Officers in 2011

The following Summary Compensation Table sets forth certain information regarding the compensation of our principal executive officer, and the two other most highly compensated executive officers at the end of our last fiscal year for services rendered in all capacities to us during the years ended December 31, 2011 and 2010.

Summary Compensation Table

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| Name and Principal Position | Year | Salary (\$) | Bonus (\$) | Stock Awards \$(1) | Option Awards \$(2) | All Other Comp(\$) | Total (\$) |
|---|------|----------------|---------------|--------------------------|---------------------------|--------------------------|---------------|
| Ron Eller—Former President and Chief Executive Officer(3) | 2011 | 251,731 | — | 430,500 | 455,620 | — | 1,137,851 |
| Farhad Moghadam—Former President and Chief Executive Officer(4) | 2011 | 108,206 | — | 303,300 | 188,181 | 268,248 | 867,935 |
| | 2010 | 350,000 | 105,000 | — | — | — | 455,000 |
| Gary Gatchell—Chief Financial Officer(5) | 2011 | 199,191 | 50,000 | 70,770 | 147,785 | — | 467,746 |
| | 2010 | 178,963 | 35,800 | — | 203,562 | — | 418,325 |

(1) Represents the aggregate grant date fair value computed in accordance with FASB ASC Topic 718 for awards of stock awards granted during the years ended December 31, 2011 and 2010.

(2) Represents the aggregate grant date fair value computed in accordance with FASB ASC Topic 718 for options granted during the years ended December 31, 2011 and 2010.

(3) Ron Eller ceased to be the President, Chief Executive Officer and a director of the Company on February 1, 2012 and ceased employment with us on February 1, 2012. Salary represents nine months of annual salary for 2011.

(3) Stock Awards and Option Awards were granted upon appointment as President and Chief Executive Officer on March 31, 2011.

(4) Farhad Moghadam ceased employment with us on April 1, 2011. Other compensation includes severance and benefits paid to Mr. Moghadam in 2011 under the terms of his employment agreement.

(5) The stock award for Gary Gatchell had a grant date of February 3, 2011 and was for 21,000 shares with 14,000 vesting based upon achievement of 2011 corporate performance objectives and 7,000 vesting two years from the grant date. The 14,000 shares related to 2011 performance were forfeited because the corporate performance objectives were not met. There were two option awards for Gary Gatchell in 2011. The first was for 40,000 shares at an exercise price of \$3.37 per share with 25% of shares vesting annually beginning February 3, 2012. The second was for 75,000 shares at an exercise price of \$0.68 per share with 25% of shares vesting annually beginning August 4, 2012. The option award for Gary Gatchell in 2010 was for 60,000 shares at an exercise price of \$4.17 per share with 25% of shares vesting annually beginning January 1, 2011.

Executive Employment Agreements

As of December 31, 2011, we had executive employment agreements with Mr. Eller and Mr. Gatchell.

Under the agreement with Mr. Eller, he will receive an annual base salary of \$350,000, subject to annual adjustments as determined by the Board. Mr. Eller will also be eligible for an annual bonus of up to 100% of his base salary as determined at the sole discretion of the Board or the Compensation Committee. Under this agreement, if the Company terminates Mr. Eller without cause, Mr. Eller is entitled to receive (i) six months of base salary from the date of termination if the termination occurs within the first 12 months after his start date, or (ii) twelve months of base salary from the date of termination if the termination occurs after the first anniversary of his start date. In addition, if Mr. Eller is terminated without Cause, an additional portion of his restricted stock units and stock options will become vested. Mr. Eller would be entitled to certain additional benefits if he is terminated in certain circumstances related to the occurrence of a change of control of the Company.

Mr. Gatchell's executive employment agreement has a term of four years and expired March 31, 2012. Under the terms of the agreement, in addition to base salary Mr. Gatchell may receive a discretionary bonus of up to 30% of that base salary based upon his individual performance and our overall performance as a company. Base salary is subject to increase from time to time in the normal course of business. Bonuses are not assured and are awarded at the discretion

of the Board. If Mr. Gatchell is terminated without cause during the term of his employment agreement, he will be entitled to receive his base salary for a period of twelve months after termination. In the event of a merger of the Company with or into another corporation, the sale of substantially all of the assets of the Company, or termination of an executive officer without cause, then some or all of any unvested options, shares of restricted stock or restricted stock units granted to the executive officer may be subject to accelerated vesting in accordance with the terms of the executive's employment agreement, separation or severance agreement, or the Company's option and restricted stock plans.

Separation Agreements

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On February 1, 2012, Mr. Eller ceased to be the President, Chief Executive Officer and a director of the Company. As contemplated by Mr. Eller's employment agreement dated March 31, 2011, Mr. Eller will receive his base salary for a period of seven months and an additional portion of Mr. Eller's restricted stock units and stock options have been vested.

On March 31, 2011, Farhad Moghadam, Ph.D. ceased to be the President, Chief Executive Officer and a director of the Company. As contemplated by Dr. Moghadam's existing employment agreement dated August 3, 2009, Dr. Moghadam receives his base salary for a period of thirteen months after the effective date of his termination, and an additional portion of Dr. Moghadam's restricted stock units and stock options were vested. The Company also agreed to pay to continue Dr. Moghadam's health insurance coverage for the thirteen-month period following the effective date of his termination.

The following table sets forth information concerning the outstanding equity awards granted to the named executive officers as of December 31, 2011.

Outstanding Equity Awards at Fiscal Year-End

| Name | Option Awards Number of Securities Underlying Unexercised Options(#) | | Option Exercise Price(\$/sh) | Option Expiration Date | Stock Awards Number of Shares or Market Value of Shares or Units of Stock That Have Not Vested | |
|------------------|---|---------------|------------------------------------|------------------------------|---|---|
| | Exercisable | Unexercisable | | | Units of Stock That Have Not Vested | Market Value of Shares or Units of Stock That Have Not Vested |
| Ron Eller(1) | — | 200,000 | \$ 2.87 | 3/31/2021 | 150,000 | \$ 58,500 |
| Gary Gatchell(2) | 15,000 | 5,000 | \$ 3.17 | 12/2/2018 | 14,000 | \$ 5,460 |
| | 15,000 | 45,000 | \$ 4.17 | 2/8/2020 | | |
| | — | 40,000 | \$ 3.37 | 2/3/2021 | | |
| | — | 75,000 | \$ 0.68 | 8/4/2021 | | |
| | 30,000 | 165,000 | | | | |
| Farhad Moghadam | — | — | | | — | — |

Vesting dates of securities underlying unexercised options and stock awards not yet vested as of December 31, 2011:

- (1) \$2.87 options—50,000 vest 3/31/12, 50,000 vest 3/31/13, 50,000 vest 3/31/14, 50,000 vest 3/31/15. Stock awards not yet vested—37,500 vest 3/31/12, 37,500 vest 3/31/13, 37,500 vest 3/31/14, 37,500 vest 3/31/15.
- \$3.17 options—5,000 vest 1/01/12. \$4.17 options—15,000 vest 1/01/12, 15,000 vest 1/01/13, 15,000 vest 1/01/14.
- (2) \$3.37 options—10,000 vest 2/3/12, 10,000 vest 2/4/13, 10,000 vest 2/3/14, 10,000 vest 2/3/15. \$0.68 options—18,750 vest 8/4/12, 18,750 vest 8/4/13, 18,750 vest 8/4/14, 18,750 vest 8/4/15. Stock awards not yet vested—7,000 vest 1/20/12, vesting subject to meeting Company performance targets, 7,000 vest 1/21/13.

SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The following table shows information regarding the beneficial ownership of our common stock by our directors, executive officers, former executive officers and greater than 5% beneficial owners as of March 30, 2012.

Beneficial ownership is determined in accordance with the rules of the SEC and generally includes any shares over which a person exercises sole or shared voting or investment power and all shares issuable upon exercise of options or the vesting of restricted Stock within 60 days of March 30, 2012. For purposes of calculating the percentage of our common stock beneficially owned, the number of shares of our common stock includes 41,154,516 shares of our common stock outstanding as of March 30, 2012.

Unless otherwise indicated, each of the stockholders listed below has sole voting and investment power with respect to the shares beneficially owned. The address for each director or named executive officer is c/o Ascent Solar

Technologies, Inc., 12300 North Grant Street, Thornton, Colorado 80241.

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| Name of Beneficial Owner | No. of Shares Beneficially Owned | Percentage | |
|--|---|------------|---|
| 5% Stockholders: | | | |
| TFG Radiant Investment Group Ltd.(1) | 16,032,842 | 38.96 | % |
| Officers and Directors: | | | |
| Victor Lee(2) | — | — | |
| Gary Gatchell(3) | 103,500 | * | |
| Ron Eller(4) | 99,930 | * | |
| Farhad Moghadam | — | * | |
| Amit Kumar, Ph.D(5) | 118,831 | * | |
| Kim J. Huntley(6) | 58,066 | * | |
| G. Thomas Marsh(7) | 66,874 | * | |
| Richard J. Swanson(8) | 83,782 | * | |
| Xu Biao(9) | — | * | |
| Hans Olav Kvalvaag(10) | — | * | |
| All directors and executive officers as a group (10 persons) | 530,983 | 1.29 | % |

* Less than 1.0%.

(1) The address of TFG Radiant Investment Group Ltd. is Block B. 4th Floor, Jihong R&D Building, No.1 Binlang Road, Futian FTZ, Shenzhen, China 518038.

Does not include securities held by TFG Radiant Investment Group Ltd., our largest stockholder. Mr. Lee is (2) managing director of Tertius Financial Group Pte Ltd. a 50% owner of TFG Radiant Group Ltd., and disclaims beneficial ownership of our securities held by TFG Radiant Investment Group Ltd.

(3) Includes 30,000 shares of restricted stock, 13,500 shares of common stock and options to purchase, 60,000 shares of common stock that are vested within 60 days of March 30, 2012.

(4) Includes 48,930 shares of restricted stock, 1,000 shares of common stock and options to purchase 50,000 shares of common stock that are vested within 60 days of March 30, 2012.

(5) Includes 110,831 shares of restricted stock and options to purchase 8,000 shares of common stock that are vested within 60 days of March 30, 2012.

(6) Includes 56,566 shares of restricted stock and 1,500 shares common stock.

(7) Includes 66,874 shares of restricted stock.

(8) Includes 67,782 shares of restricted stock and options to purchase 16,000 shares of common stock that are vested within 60 days of March 30, 2012.

Mr. Xu Biao was appointed to the Board on April 16, 2012. Does not include securities held by TFG Radiant (9) Investment Group Ltd., our largest stockholder. Mr. Xu is an investor in TFG Radiant Group Ltd., and disclaims beneficial ownership of our securities held by TFG Radiant Investment Group Ltd.

Does not include securities held by Norsk Hydro Produksjon AS. Mr. Kvalvaag is the head of Hydro Solar, an (10) affiliate of Norsk Hydro Produksjon AS, and disclaims beneficial ownership of our securities held by Norsk Hydro Produksjon AS. Mr. Kvalvaag resigned from the Board on March 30, 2012 in connection with the closing of the transaction between Radiant and Hydro.

RELATED PARTY TRANSACTIONS

Transactions Involving Norsk Hydro Produksjon AS

Pursuant to a stockholders agreement between us and Norsk Hydro, which was a major stockholder until March 30, 2012, dated March 13, 2007, Norsk Hydro had the right to designate a member of our Board of Directors for election so long as Norsk Hydro held at least 15% of our common stock. Mr. Kvalvaag served as the Norsk Hydro designee on

our Board until March 30, 2012.

Transactions Involving TFG Radiant

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On August 12, 2011, we entered into a strategic alliance with TFG Radiant and its affiliates. TFG Radiant made an initial \$7.36 million equity investment in our common stock and received an option to acquire an additional 9,500,000 shares of our common stock at an exercise price of \$1.55 per share. In connection with the transaction, we entered into a stockholders agreement with TFG Radiant (the "Prior Stockholders Agreement"), which granted TFG Radiant the right to designate a member of our Board of Directors for election so long as TFG Radiant holds at least 15% of our common stock. On November 3, 2011 we appointed Mr. Victor Lee as a member of our Board of Directors and a designated representative of TFG Radiant.

On January 4, 2012, we issued a press release announcing that TFG Radiant had agreed to purchase 8,067,390 shares of our common stock then owned by Norsk Hydro for \$4 million, or approximately \$0.50 per share. This transaction closed on March 30, 2012. As a result, Norsk Hydro no longer holds any of our common stock and TFG Radiant holds approximately 39% of our common stock. Under the Stockholders' Agreement dated March 13, 2007 between us and Norsk Hydro, Norsk Hydro no longer has any rights to designate a representative of Norsk Hydro to our Board, and, as a result, Mr. Hans Olav Kvalvaag, a designated representative of Norsk Hydro, resigned from our Board on March 30, 2012.

Amended and Restated Stockholders Agreement

We previously entered into the Prior Stockholders Agreement in connection with TFG Radiant's prior investment in our common stock. On December 30, 2011, we entered into an Amended and Restated Stockholders Agreement with TFG Radiant (the "Amended and Restated Stockholders Agreement"). The Amended and Restated Stockholders Agreement became effective March 30, 2012 and has replaced and superseded the Prior Stockholders Agreement.

Among other things, the Amended and Restated Stockholders Agreement provides that:

- a. TFG Radiant may designate a second representative for election to our Board at any time as TFG Radiant beneficially owns 25% of our outstanding common stock;
 - b. TFG Radiant may designate a third representative for election to our Board at any time as TFG Radiant beneficially owns 45% of our outstanding common stock
 - c. TFG Radiant will vote its shares of our common stock for the election of all persons nominated for election to our Board if such nominees (i) have been approved by a majority of our Board and (ii) such board approval included the affirmative vote of at least one TFG Radiant representative on the Board; and
 - d. Until December 31, 2013, TFG Radiant will not, without prior approval of our Board (x) acquire more than 42% of our issued and outstanding shares of common stock prior to any exercise of the "Tranche 2" option held by TFG Radiant, or (y) 53% of the issued and outstanding shares of our common stock following any exercise of the Tranche 2 option. These restrictions will terminate in certain circumstances specified in the agreement.
- Pursuant to the terms of the Amended and Restated Stockholders Agreement, TFG Radiant designated Mr. Xu Biao as its second designated representative to the Board, and on April 16, 2012, Mr. Xu Biao was elected to our Board to replace the vacancy left by Mr. Kvalvaag's resignation.

Amended and Restated Registration Rights Agreement

We previously entered into a Registration Rights Agreement (the "Prior Registration Rights Agreement") with TFG Radiant dated August 12, 2011 in connection with TFG Radiant's prior investment in us. The registration rights granted under the Prior Registration Rights Agreement lapsed in October 2011 upon the approval by our stockholders of the Tranche 2 option granted to TFG Radiant in August 2011.

On December 30, 2011, we entered into an Amended and Restated Registration Rights Agreement with TFG Radiant (the “Amended and Restated Registration Rights Agreement”). The Amended and Restated Stockholders Agreement became effective upon the closing of the TFG Radiant Transaction, at which time it replaced and superseded the Prior Registration Rights Agreement.

Under the terms of the Amended and Restated Registration Rights Agreement, TFG Radiant now has certain demand and piggy-back registration rights with respect to shares of our common stock owned by TFG Radiant.

Joint Development Agreement

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We entered into a Joint Development Agreement (the “Joint Development Agreement”) with TFG Radiant dated August 12, 2011 in connection with TFG Radiant's prior investment in us. Under the terms of the Joint Development Agreement:

The parties will collaborate in order to allow TFG Radiant to (i) develop and commercialize facilities (“Fabs”) that a. manufacture Copper Indium Gallium diSelenide (“CIGS”) thin-film photovoltaic modules (“CIGS PV”) in an agreed upon territory in East Asia, and (ii) sell CIGS PV in such territory.

b. TFG Radiant agrees to pay to us certain specified non-recurring engineering funding.

We shall have the option to require TFG Radiant to purchase CIGS PV produced by us, subject to certain minimum c. volume and price thresholds.

TFG Radiant has been granted an exclusive license to intellectual property owned by us or developed by us in d. connection with constructing Fabs and selling CIGS PVs in the territory. In order to maintain exclusivity in the territory, TFG Radiant must achieve certain specified performance metrics.

TFG Radiant will pay to us a series of milestones payments in the event TFG Radiant (i) sells and ships certain e. quantities of CIGS PV and (ii) achieves certain target costs of production.

TFG Radiant will pay to us a royalty percentage based on net sales of the CIGS PV, a portion of which can be f. converted into an ownership interest in the Fab responsible for such production.

g. TFG Radiant will pay to us a license fee at the time of commissioning for each TFG Radiant Fab.

During 2011 we did not receive any funds pursuant to the Joint Development Agreement from TFG Radiant.

The Joint Development Agreement was filed as an exhibit to our Quarterly Report on Form 10-Q filed on November 10, 2011 and is subject to a confidential treatment order of the SEC through December 31, 2020.

Policies and Procedures with Respect to Transactions with Related Persons

The Board recognizes that related person transactions can present a heightened risk of potential or actual conflicts of interest. Accordingly, our Audit Committee charter requires that all such transactions will be reviewed and subject to approval by members of our Audit Committee, which will have access, at our expense, to our or independent legal counsel. Future transactions with our officers, directors or greater than five percent stockholders will be on terms no less favorable to us than could be obtained from independent third parties.

SECTION 16(a) BENEFICIAL OWNERSHIP REPORTING COMPLIANCE

Section 16(a) of the Exchange Act requires our directors, officers, and persons that own more than 10 percent of a registered class of our equity securities to file reports of ownership and changes in ownership with the SEC. Officers, directors, and greater than 10 percent stockholders are required by SEC regulations to furnish us with copies of all Section 16(a) forms they file.

Based solely upon our review of the copies of such forms received by us during the fiscal year ended December 31, 2011, we believe that each person who, at any time during such fiscal year, was a director, officer, or beneficial owner of more than 10 percent of our common stock complied with all Section 16(a) filing requirements in a timely manner during such fiscal year, except for one Form 4 for Gary Gatchell relating to grant of restricted stock units which was filed late.

PRINCIPAL ACCOUNTANTS

Principal Accounting Fees and Services

Fees for audit and related services by our accounting firm, Hein & Associates LLP, for the years ended December 31, 2011 and 2010 were as follows:

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| | 2011 | 2010 |
|------------------------------------|-----------|-----------|
| Audit fees | \$172,000 | \$175,000 |
| Audit related fees | 16,000 | — |
| Total audit and audit related fees | \$188,000 | \$175,000 |
| Tax fees | — | — |
| All other fees | — | — |
| Total Fees | \$188,000 | \$175,000 |

Audit fees for Hein & Associates LLP for fiscal 2011 and 2010 represent aggregate fees during the examination of the financial statements, audit of internal controls over financial reporting, interim reviews of the quarterly financial statements, and consents and comfort letters.

Audit Committee Pre-Approval Policies and Procedures

The Audit Committee charter provides that the Audit Committee will pre-approve all audit services and non-audit services to be provided by our independent auditors before the accountant is engaged to render these services. The Audit Committee may consult with management in the decision making process, but may not delegate this authority to management. The Audit Committee may delegate its authority to pre-approve services to one or more committee members, provided that the designees present the pre-approvals to the full committee at the next committee meeting. All audit and non-audit services performed by our independent accountants have been pre-approved by our Audit Committee to assure that such services do not impair the auditors' independence from us.

Attendance at Annual Meeting

Representatives of Hein & Associates LLP are expected to be present at the annual meeting, will have the opportunity to make a statement if they desire to do so, and are expected to be available to respond to appropriate questions.

REPORT OF THE AUDIT COMMITTEE OF THE BOARD OF DIRECTORS

The Audit Committee has reviewed and discussed the audited financial statements with management. The Audit Committee has discussed with the independent accountants the matters required to be discussed by Statement on Accounting Standards No. 61, as amended (AICPA, Professional Standards, Vol. 1. AU Section 380), as adopted by the Public Company Accounting Oversight Board in Rule 3200T (as superseded by Statement on Auditing Standards No. 114). The Audit Committee also has received the written disclosures and the letter from the independent accountants required by applicable requirements of the Public Company Accounting Oversight Board regarding the independent accountant's communications with the Audit Committee concerning independence, and has discussed with the independent accountants the accountants' independence. Based on the reviews and discussions referred to above, the Audit Committee recommended to the Board of Directors that the audited financial statements be included in our Annual Report on Form 10-K for the year ended December 31, 2011.

Respectfully submitted,

AUDIT COMMITTEE

Richard Swanson, Chairman

Kim Huntley

Amit Kumar

PROPOSAL NO. 1 – ELECTION OF DIRECTORS**Overview**

There are currently six members of our Board. Our Class 1 directors are Dr. Amit Kumar and Richard Swanson. Our Class 2 directors are Kim Huntley and G. Thomas Marsh. Our Class 3 directors are Victor Lee and Xu Biao.

The terms of Messrs. Kumar, Lee and Biao are scheduled to expire at this Annual Meeting. Our Board has nominated Dr. Amit Kumar to serve as our Class 1 director until the 2015 annual meeting and Mr. Victor Lee and Mr. Xu Biao to serve as

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Class 3 directors until the 2014 annual meeting of stockholders; each until their successors are duly elected and qualified. Mr. Swanson is retiring from our Board effective as of the annual meeting date.

Nominees

Upon the recommendation of our Nominating and Governance Committee, the Board has nominated Dr. Amit Kumar to serve as a Class 1 director until the 2015 annual meeting and Mr. Victor Lee and Mr. Xu Biao to serve as a Class 3 directors until the 2014 annual meeting of stockholders and until their successors are duly elected and qualified.

Pursuant to the Amended and Restated Stockholders Agreement, we have agreed to use our reasonable efforts to elect two designated representatives of TFG Radiant to our Board for so long as TFG Radiant owns at least 25% of our common stock. As of March 31, 2012, TFG Radiant owned approximately 39% of our common stock. Each of our Class 3 director nominees, Messrs. Victor Lee and Xu Biao, are designated representatives of TFG Radiant.

Pursuant to the Amended and Restated Stockholders Agreement, TFG Radiant has agreed to vote its shares of our common stock for the election of all persons nominated for election to our Board if such nominees (i) have been approved by a majority of our Board and (ii) such board approval included the affirmative vote of at least one TFG Radiant representative on the Board. The Class 1 and Class 3 director nominees each fit the aforementioned criteria.

Vote Required

The affirmative vote of a majority of shares with voting power present in person or by proxy will be required to elect the director nominee.

Recommendation

The Board recommends that stockholders vote FOR the election of Dr. Kumar, Mr. Victor Lee and Mr. Xu Biao. Unless marked otherwise, proxies received will be voted FOR the election of the director nominee.

PROPOSAL NO. 2—AMENDMENT AND RESTATEMENT OF 2008 RESTRICTED STOCK PLAN

Overview

Subject to stockholder approval, the Board approved an amendment and restatement of our 2008 Restricted Stock Plan (the “Restricted Stock Plan”) that increases the number of shares of common stock authorized for issuance under the Restricted Stock Plan by 1,000,000 shares. The proposed amendment and restatement will not become effective if the stockholders do not approve it.

The Restricted Stock Plan was adopted by the Board in June 2008 and approved by the stockholders in July 2008. As originally adopted, the Restricted Stock Plan permitted shares of restricted stock to be issued. The Restricted Stock Plan was later amended in September 2008 by our Board to permit restricted stock units to also be issued. That amendment did not require stockholder approval. The Restricted Stock Plan was amended and restated in June 2010 pursuant to shareholder approval, and the number of shares authorized for issuance was increased by 800,000.

We believe that stock-based awards motivate high levels of performance and provide an effective means of recognizing contributions by employees and other service providers to our success. Moreover, we believe that stock-based awards align the interests of our management, employees and consultants with the interests of our stockholders. We also believe that stock-based awards are of great value in recruiting and retaining highly qualified technical and other key personnel who are in high demand. The Board believes that the ability to make stock-based awards will be important to our future success by allowing it to remain competitive in attracting and retaining such key personnel. We are asking our stockholders to approve an increase in the number of shares issuable under the Restricted Stock Plan in order to continue this company-wide compensation strategy and to provide resources to recruit and retain qualified personnel to support our planned strategic growth. We expect the number of persons eligible to participate in the Restricted Stock Plan to increase as we continue our planned expansion of operations.

The Restricted Stock Plan (prior to the proposed amendment and restatement) authorizes the issuance of 1,550,000 shares of our common stock. As of April 10, 2012, there were approximately 160,000 shares of our common stock remaining

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available for future grants under the Restricted Stock Plan, and approximately 110 persons were eligible to participate in the Restricted Stock Plan.

Proposal

The stockholders are asked to approve an amendment and restatement of the Restricted Stock Plan that increases the number of shares of common stock authorized for issuance under the Restricted Stock Plan by 1,000,000 shares. If approved, the number of shares of our common stock authorized for issuance under our Option Plan will be increased from 1,550,000 to 2,550,000. A copy of the proposed Third Amended and Restated 2008 Restricted Stock Plan is attached to this Proxy Statement as Appendix A.

Vote Required

The affirmative vote of a majority of the shares having voting power present in person or by proxy will be required to approve the amendment and restatement of the Restricted Stock Plan.

Recommendation

The Board recommends that stockholders vote FOR approval of the amendment and restatement of the Restricted Stock Plan.

Unless marked otherwise, proxies received will be voted FOR approval of the amendment and restatement of the Restricted Stock Plan.

Summary of the Restricted Stock Plan

The following summary of the Restricted Stock Plan is qualified in its entirety by the terms of the Third Amended and Restated Restricted Stock Plan, a copy of which is attached to this proxy statement as Appendix A.

Purpose. The purposes of the Restricted Stock Plan are to attract and retain the best available personnel for positions of substantial responsibility, to provide additional incentive to our employees, consultants and directors and to promote the success of our business.

Awards. The Restricted Stock Plan provides for awards of restricted stock and restricted stock units.

Stock Subject to the Restricted Stock Plan. The Restricted Stock Plan, if amended as proposed, will authorize the issuance of restricted stock and restricted stock units representing up to 2,550,000 shares of our common stock. Such shares of common stock may be authorized, but unissued, or reacquired shares of common stock. Shares of common stock that were subject to Restricted Stock Plan awards that expire or are forfeited shall become available for future awards under the Restricted Stock Plan. No more than 200,000 shares may be awarded to any individual grantee under the Restricted Stock Plan in any calendar year. The aggregate number of shares available for issuance under the Restricted Stock Plan will be adjusted in the event of a change affecting our capitalization, such as stock splits, reverse stock splits, stock dividends, combinations or reclassifications or the like. An award made under the Restricted Stock Plan may be subject to time-based vesting or to a vesting schedule based on performance targets or criteria established by the Compensation Committee.

Administration. The Restricted Stock Plan may be administered by the Board of Directors or one or more committees of the Board (the "Administrator"). The Board may require that the Administrator be constituted to comply with Rule 16b-3 under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), Section 162(m) of the Internal Revenue Code (the "Code"), or both. Subject to the other provisions of the Restricted Stock Plan, the Administrator has the power to determine the terms of each award granted, including the number of shares subject to the award and the forfeitability thereof.

Eligibility. The Restricted Stock Plan provides that the Administrator may grant restricted stock and restricted stock unit awards to eligible employees, consultants and directors of the Company and any subsidiary of the Company. A grantee who has received a grant of an award may, if he is otherwise eligible, receive additional award grants. The Administrator selects the grantees and determines the number of shares of common stock to be subject to each award. Each award granted under the Restricted Stock Plan will be evidenced by a written agreement between the grantee and us. As of April 10, 2012, approximately 110 persons would be eligible to participate in the Restricted Stock Plan.

Termination of Service. If a grantee's status as an employee or service as a director terminates for any reason, then the grantee's stock award shall be forfeited to the extent it is forfeitable immediately before the date of such termination, or settled by delivery of the appropriate number of unrestricted shares to the extent it is nonforfeitable, except as

described in “Change of Control” below.

Nontransferability of Awards. Until such time as an award under the Restricted Stock Plan becomes nonforfeitable and

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vested pursuant to the terms of the Restricted Stock Plan and any applicable award agreement, the award is not transferable by the grantee, other than by will or the laws of descent and distribution or to us; provided, however, that the designation of a beneficiary shall not constitute a prohibited transfer.

Code Section 162(m) Provisions. Section 162(m) of the Code imposes a \$1 million annual deduction limit on the compensation paid to the chief executive officer and the three other most highly compensated officers (other than the principal executive officer or the principal financial officer) of a publicly traded company. Section 162(m) provides an exception to this deduction limit for “performance-based compensation” that meets certain requirements. To the extent the Compensation Committee of the Board considers it desirable for compensation delivered pursuant to a stock award to be eligible to qualify for an exemption from the limit on tax deductibility of compensation under Section 162(m) of the Code, the Compensation Committee may provide that the lapsing of restrictions on the stock award and the distribution of shares, as applicable, shall be subject to satisfaction of one, or more than one, objective performance targets. The Compensation Committee shall determine the performance targets that will be applied with respect to each such award of restricted stock or restricted stock units at the time of grant, but in no event later than 90 days after the commencement of the period of service to which the performance target(s) relate. Eligible performance criteria specified in the Restricted Stock Plan are: (A) stock price; (B) market share; (C) sales; (D) earnings per share, core earnings per share or variations thereof; (E) return on equity; (F) costs; (G) revenue; (H) cash to cash cycle; (I) days payables outstanding; (J) days of supply; (K) days sales outstanding; (L) cash flow; (M) operating income; (N) profit after tax; (O) profit before tax; (P) return on assets; (Q) return on sales; (R) inventory turns; (S) invested capital; (T) net operating profit after tax; (U) return on invested capital; (V) total shareholder return; (W) earnings; (X) return on equity or average shareowners' equity; (Y) total shareowner return; (Z) return on capital; (AA) return on investment; (BB) income or net income; (CC) operating income or net operating income; (DD) operating profit or net operating profit; (EE) operating margin; (FF) return on operating revenue; (GG) contract awards or backlog; (HH) overhead or other expense reduction; (II) growth in shareowner value relative to the moving average of the S&P 500 Index or a peer group index; (JJ) credit rating; (KK) strategic plan development and implementation; (LL) net cash provided by operating activities; (MM) gross margin; (NN) economic value added; (OO) customer satisfaction; (PP) financial return ratios; (QQ) market performance; (RR) production capacity; (SS) production volume; (TT) achievement of photovoltaic conversion efficiency; (UU) production yields; (VV) EBITDA; (WW) EBIT; (XX) market capitalization; (YY) liquidity; (ZZ) strategic partnerships; (AAA) production agreements and relationships; and (BBB) product certifications. The Compensation Committee may appropriately adjust any evaluation of performance under the criteria set forth above to exclude certain items or events or in such other manner and to such extent as the Compensation Committee deems appropriate under the applicable circumstances. The Compensation Committee may not increase the number of shares granted pursuant to any such stock award, nor may it waive the achievement of any performance target. Prior to the payment of any such stock award, the Compensation Committee shall certify in writing that the applicable performance target(s) was met.

Adjustment upon Changes in Capitalization. In the event of changes in our outstanding stock by reason of any stock splits, reverse stock splits, stock dividends, combination or reclassification or any change in our capital structure, an appropriate adjustment shall be made by the Board in: (i) the number of shares of common stock subject to the Restricted Stock Plan and (ii) the number and class of shares of common stock subject to any award outstanding under the Restricted Stock Plan. The determination of the Board to which adjustments shall be made shall be conclusive.

Change in Control. In the event of a change in control of the Company, half of the shares subject to an award outstanding on the date of such change in control that are not yet vested shall become vested and nonforfeitable.

However, if an employee is terminated in connection with a change of control, then all of his or her award(s) outstanding on the date of such change in control that are not yet vested shall become fully vested and nonforfeitable.

Liquidation or Dissolution. In the event of liquidation or dissolution of the Company, all outstanding awards not yet vested shall become fully vested and nonforfeitable.

Amendment and Termination of the Restricted Stock Plan. The Board may at anytime amend, alter, suspend or terminate the Restricted Stock Plan; provided, however, that we shall obtain stockholder approval of any amendment to the Restricted Stock Plan to the extent necessary to comply with applicable law. No amendment or termination of the Restricted Stock Plan shall impair the rights of any grantee, unless mutually agreed otherwise between the grantee

and the Administrator, which agreement must be in writing and signed by the grantee and us. In any event, the Restricted Stock Plan shall terminate on May 2, 2018, the tenth anniversary of adoption of the Restricted Stock Plan by the Board. Any awards outstanding under the Restricted Stock Plan at the time of its termination shall remain outstanding until they expire by their terms.

Other Information. A “new plan benefits” table, as described in the SEC's proxy rules, is not provided because all awards made under the Restricted Stock Plan are discretionary.

Federal Tax Consequences

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The following discussion summarizes the material United States federal income tax consequences to us and to participants in the Restricted Stock Plan. This summary is based on the Code and the United States Treasury regulations promulgated thereunder as in effect on the date of this proxy statement, all of which may change with retroactive effect. This summary is not intended to be a complete analysis or discussion of all potential tax consequences that may be important to participants in the Restricted Stock Plan.

With respect to stock awards that may be settled either in cash or in shares of common stock that are either transferable or not subject to a substantial risk of forfeiture under Section 83 of the Code, the grantee will realize ordinary taxable income, subject to tax withholding, equal to the amount of the cash or the fair market value of the shares of common stock received. We will be entitled to a deduction in the same amount and at the same time as the compensation income is received by the grantee.

With respect to shares of common stock that are both nontransferable and subject to a substantial risk of forfeiture, the grantee will realize ordinary taxable income equal to the fair market value of the shares of common stock at the first time the shares of common stock are either transferable or not subject to a substantial risk of forfeiture. We will be entitled to a deduction in the same amount and at the same time as the ordinary taxable income realized by the grantee.

All of the above-described deductions are subject to the limitations on deductibility described in Section 162(m) of the Code. It is our intention that the plan be construed and administered in a manner that maximizes the deductibility of compensation under Section 162(m) of the Code.

The foregoing is only a summary of the effect of federal income taxation upon the grantee and us with respect to the grant and exercise of awards under the Restricted Stock Plan, and the summary does not purport to be complete and does not discuss the tax consequences of the grantee's death or the income tax laws of any municipality, state or foreign country in which a grantee may reside.

PROPOSAL NO. 3 – RATIFICATION OF APPOINTMENT OF HEIN & ASSOCIATES LLP

Overview

The Audit Committee has engaged the registered public accounting firm of Hein & Associates LLP as our independent registered public accounting firm to audit our financial statements for the year ending December 31, 2012. Hein & Associates LLP audited our financial statements for the years ended December 31, 2011 and 2010. Please refer to “Principal Accountants” above for information about fees and services paid to Hein & Associates LLP in 2011 and 2010, and our Audit Committee’s pre-approval policies.

Representatives of Hein & Associates LLP are expected to be present at the Annual Meeting, will have the opportunity to make a statement if they desire to do so and are expected to be available to respond to appropriate questions.

Vote Required

The affirmative vote of a majority of the shares with voting power present in person or by proxy will be required to ratify the appointment of Hein & Associates LLP as our independent registered public accounting firm to audit our financial statements for the year ending December 31, 2012.

Recommendation

The Board recommends that shareholders vote “FOR” the proposal to ratify the appointment of Hein & Associates LLP as our independent registered public accounting firm to audit our financial statements for the year ending December 31, 2012.

Unless marked otherwise, proxies received will be voted FOR ratification of Hein & Associates LLP as our independent registered public accounting firm to audit our financial statements for the year ending December 31, 2012.

On March 22, 2012, we filed our Annual Report on Form 10-K for the fiscal year ended December 31, 2011 with the SEC. A copy of the Annual Report has been sent or made available concurrently with this Proxy Statement to all stockholders entitled to notice of and to vote at the Annual Meeting. Our financial statements and management's discussion and analysis of financial condition and results of operations are incorporated by reference to our Annual Report.

STOCKHOLDER PROPOSALS

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Stockholders may present proposals for action at a future meeting if they comply with SEC rules, state law and our Bylaws.

Stockholder Proposals to be Included in the Proxy Statement

To be considered for inclusion in our proxy materials for the 2013 Annual Meeting of Stockholders, a stockholder proposal must be received in writing at our offices, 12300 Grant Street, Thornton, Colorado 80120, no later than December 19, 2012.

Stockholder Proposals Not to be Included in the Proxy Statement

If you wish to make a stockholder proposal at the 2013 Annual Meeting of Stockholders that is not intended to be included in our proxy materials for that meeting, you generally must provide appropriate notice to us in the manner specified in our Bylaws between February 6, 2013 and March 8, 2013. Furthermore, a proxy for our 2013 Annual Meeting of Stockholders may confer discretionary authority to vote on any matter not submitted to us by March 4, 2013.

OTHER BUSINESS

We know of no other matters to be submitted to the stockholders at the Annual Meeting. If any other matters properly come before the stockholders at the Annual Meeting, the persons named as proxies intend to vote the shares they represent as the Board may recommend.

BY ORDER OF THE BOARD OF DIRECTORS

Victor Lee

President and Chief Executive Officer

April 18, 2012

Thornton, Colorado

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APPENDIX A

ASCENT SOLAR TECHNOLOGIES, INC.

THIRD AMENDED AND RESTATED 2008 RESTRICTED STOCK PLAN

(Approved by the Board of Directors on April 17, 2012;

Adopted by Stockholders on , 2012)

1. Purposes of the Plan. The purposes of this Second Amended and Restated 2008 Restricted Stock Plan are to attract and retain the best available personnel for positions of substantial responsibility, to provide additional incentives to Eligible Employees, Consultants and Directors, and to promote the success of the Company's business.

2. Definitions. As used herein, the following definitions shall apply:

a. "Applicable Law" means the legal requirements relating to the administration of the Plan under applicable federal, state, local and foreign corporate, tax and securities laws, and the rules and requirements of any stock exchange or quotation system on which the Common Stock is listed or quoted.

b. "Award" means an award of Restricted Stock or Restricted Stock Units to a Grantee pursuant to Section 5 of the Plan.

c. "Award Agreement" means the agreement, notice and/or terms or conditions by which an Award is evidenced, documented in such form (including by electronic communication) as may be approved by the Committee.

d. "Board" means the Board of Directors of the Company.

e. "Change in Control" means the happening of any of the following:

any one person, or more than one person acting as a group, acquires ownership of stock of the Company that, together with stock held by such person or group, possesses more than 50 percent of the total fair market value or total voting power of the stock of the Company; provided, however, that if any one person, or more than one person acting as a group, is considered to own more than 50 percent of the total fair market value or total voting power of (i) the stock of the Company, the acquisition of additional stock by the same person or persons will not be considered a Change in Control. Notwithstanding the foregoing, an increase in the percentage of stock of the Company owned by any one person, or persons acting as a group, as a result of a transaction in which the Company acquires its stock in exchange for property will be treated as an acquisition of stock of the Company for purposes of this subsection (i);

during any period of 12 consecutive months, individuals who at the beginning of such period constituted the Board (together with any new or replacement directors whose election by the Board, or whose nomination for election by (ii) the Company's shareholders, was approved by a vote of at least a majority of the directors then still in office who were either directors at the beginning of such period or whose election or nomination for election was previously so approved) cease for any reason to constitute a majority of the directors then in office; or

(iii) any one person, or more than one person acting as a group, acquires (or has acquired during the 12-month period ending on the date of the most recent acquisition by the person or persons) assets from the Company, outside of the ordinary course of business, that have a gross fair market value equal to or more than 50 percent of the total gross fair market value of all of the assets of the Company immediately prior to such acquisition or acquisitions. For purposes of this subsection (iii), "gross fair market value" means the value of the assets of the Company, or the value of the assets being disposed of, determined without regard to any liabilities associated with such assets. Notwithstanding anything to the contrary in this Agreement, the following shall not be treated as a Change in Control under this subsection (iii): (A) a transfer of assets from the Company to a shareholder of the Company (determined immediately before the asset transfer); (B) a transfer of assets from the Company to an entity, 50 percent or more of the total value or voting power of which is owned, directly or indirectly, by the Company; (C) a transfer of assets from the Company to a person, or more than one person acting as a group, that owns, directly or indirectly, 50 percent or more of the total value or voting power of all the outstanding stock of the Company; or (D) a

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transfer of assets from the Company to an entity, at least 50 percent of the total value or voting power of which is owned, directly or indirectly, by a person described in (iii)(C) above.

- f. "Code" means the Internal Revenue Code of 1986, as amended.
- g. "Committee" means a committee of Directors appointed by the Board in accordance with Section 4 of the Plan.
- h. "Common Stock" means the common stock, \$0.0001 par value, of the Company.
- i. "Company" means Ascent Solar Technologies, Inc., a Delaware corporation.
- j. "Consultant" means any person, including an advisor, engaged by the Company or a Parent or Subsidiary to render services to such entity
- k. "Date of Grant" means the date on which the Committee makes the determination granting the Award, or such other later date as is determined by the Committee.
- l. "Date of Termination" means the date on which a Grantee's employment or service as a Director, whichever is applicable, terminates.
- m. "Director" means a member of the Board.
- n. "Eligible Employee" means any person who is employed by the Company or any Parent or Subsidiary of the Company.
- o. "Exchange Act" means the Securities Exchange Act of 1934, as amended.
- p. "Fair Market Value" means, as of any date, the value of Common Stock determined as follows:
 - (i) If the Common Stock is listed on any established stock exchange or a national market system, including without limitation the Nasdaq Global Market or The Nasdaq Capital Market, its Fair Market Value shall be the closing sales price for such stock (or the closing bid, if no sales were reported) as quoted on such exchange or system for the day of determination, as reported in The Wall Street Journal or such other source as the Administrator deems reliable;
 - (ii) If the Common Stock is regularly quoted by a recognized securities dealer but selling prices are not reported, the Fair Market Value of a Share of Common Stock shall be the mean between the high bid and low asked prices for the Common Stock on the day of determination, as reported in The Wall Street Journal or such other source as the Administrator deems reliable; or
 - (iii) In the absence of an established market for the Common Stock, the Fair Market Value shall be determined in good faith by the Committee.
- q. "Grantee" means an individual to whom an Award has been granted.
- r. "Officer" means a person who is an officer of the Company within the meaning of Section 16 of the Exchange Act and the rules and regulations promulgated thereunder.
- s. "Parent" means a corporation, whether now or hereafter existing, in an unbroken chain of corporations ending with the Company if each of the corporations other than the Company holds at least 50 percent of the voting shares of one of the other corporations in such chain.
- t. "Plan" means this Second Amended and Restated 2008 Ascent Solar Technologies, Inc. Restricted Stock Plan, as it may be amended from time to time.
- u. "Restricted Stock" means Common Stock awarded under this Plan.
- v. "Restricted Stock Unit" means a bookkeeping entry representing an amount equivalent to the fair market value of one share of Common Stock, payable in cash or shares of Common Stock. Restricted Stock Units represent an unfunded and unsecured obligation of the Company, except as otherwise provided for by the Committee.

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w. " Rule 16b-3" means Rule 16b-3 of the Exchange Act or any successor to Rule 16b-3, as in effect when discretion is being exercised with respect to the Plan.

x. " Section 16(b) " means Section 16(b) of the Exchange Act.

y. " Share" means a share of the Common Stock awarded under the Plan as (i) part of a Restricted Stock grant or (ii) a component of a Restricted Stock Unit, as adjusted in accordance with Section 7 of the Plan.

z. " Subsidiary" means a corporation, domestic or foreign, of which not less than 50 percent of the voting shares are held by the Company or a Subsidiary, whether or not such corporation now exists or is hereafter organized or acquired by the Company or a Subsidiary.

3. Shares Subject to the Plan. Subject to the provisions of Section 7 of the Plan and except as otherwise provided in this Section 3, the maximum aggregate number of Shares that may be subject to Awards is two million five hundred fifty thousand (2,550,000) Shares. The Shares may be authorized, but unissued, or reacquired Common Stock. If an Award expires without having been vested in full the remaining Shares that were subject to the Award shall become available for future Awards under the Plan (unless the Plan has terminated). The Board may from time to time determine the appropriate methodology for calculating the number of Shares issued pursuant to the Plan. No more than 200,000 Shares may be granted pursuant to Awards to an individual Grantee in any calendar year.

4. Administration of the Plan.

a. Multiple Administrative Bodies. The Plan may be administered by different Committees with respect to different groups of Grantees.

Section 162(m) . To the extent that the Committee determines it to be desirable to qualify Awards granted hereunder as "performance-based compensation" within the meaning of Section 162(m) of the Code, the Plan shall (i) be administered by a Committee of two or more "outside directors" within the meaning of Section 162(m) of the Code.

Rule 16b-3 . To the extent desirable to qualify transactions hereunder as exempt under Rule 16b-3, the (ii) transactions contemplated hereunder shall be structured to satisfy the requirements for exemption under Rule 16b-3.

Other Administration . Other than as provided above, the Plan shall be administered by (A) the Board or (B) a (iii) Committee, which committee shall be constituted to satisfy Applicable Laws.

Binding Effect . The Committee's decisions, determinations and interpretations shall be final and binding on all (iv) Grantees and any other holders of Awards.

b. Subject to the provisions of the Plan, the Committee shall have the authority, in its sole and absolute discretion:

(i) to determine the Fair Market Value of the Common Stock, in accordance with Section 2(p) of the Plan;

(ii) to select the Eligible Employees, Consultants and Directors to whom Awards will be granted under the Plan;

(iii) to determine whether, when, to what extent and in what amounts Awards are granted under the Plan;

(iv) to determine the number of Shares to be covered by each Award granted under the Plan;

(v) to determine the forms of Award Agreements, which need not be the same for each grant or for each Grantee, for use under the Plan;

to determine the terms and conditions, not inconsistent with the terms of the Plan, of any Award granted under the (vi) Plan. Such terms and conditions, which need not be the same for each grant or for each Grantee, include, but are not limited to, any waiver of forfeiture restrictions, and any restriction or limitation regarding any Award or the Shares relating thereto, based in each case on such factors as the Committee shall determine;

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(vii) to construe and interpret the terms of the Plan and Awards;

(viii) to prescribe, amend and rescind rules and regulations relating to the Plan, including, without limiting the generality of the foregoing, rules and regulations relating to the operation and administration of the Plan to accommodate the specific requirements of local and foreign laws and procedures;

(ix) to modify or amend each Award (subject to Section 9 of the Plan);

(x) to authorize any person to execute on behalf of the Company any instrument required to effect the grant of an Award previously granted by the Committee;

(xi) to determine the terms and restrictions applicable to Awards;

(xii) to provide any notice or other communication required or permitted by the Plan in either written or electronic form; and

(xiii) to make all other determinations deemed necessary or advisable for administering the Plan.

5. Eligibility and General Conditions of Awards.

a. Eligibility. Awards may be granted to Eligible Employees, Consultants and Directors. If otherwise eligible, an Eligible Employee, Consultant or Director who has been granted an Award may be granted additional Awards.

b. Committee Action. The Committee acting in its sole and absolute discretion shall have the right to grant Awards to Eligible Employees, Consultants and Directors under the Plan from time to time. Subject to the terms of the Plan, the Committee may grant Awards to any Eligible Employee, Consultant or Director, in such amount and upon such terms and conditions as shall be determined by the Committee in its sole and absolute discretion. Each Award shall be evidenced by an Award Agreement, and to the extent not set forth in the Plan, the terms and conditions of each Award, which need not be the same for each grant or for each Grantee, shall be set forth in an Award Agreement. Each Award Agreement shall set forth the conditions, if any, under which the Grantee's interest in the Shares will be forfeited.

c. Forfeiture Conditions. The Committee may make each grant of an Award (if, when and to the extent that the grant becomes effective) subject to one, or more than one, objective employment, performance or other forfeiture condition which the Committee acting in its sole and absolute discretion deems appropriate under the circumstances for Eligible Employees, Consultants or Directors generally or for a Grantee in particular, and the related Award Agreement shall set forth each such condition and the deadline for satisfying each such forfeiture condition. A Grantee's nonforfeitable and vested interest in the Award shall depend on the extent to which each such condition is timely satisfied. Unless otherwise provided in the Award Agreement, the Award shall vest in a series of three (3) successive equal annual installments over the three (3)-year period measured from the Date of Grant.

(i) With respect to Awards of Restricted Stock, a share certificate shall be issued (subject to the conditions, if any, described in this Section 5) to, or for the benefit of, the Grantee with respect to the number of Shares for which a grant has become effective as soon as practicable after the Date of Grant.

(ii) With respect to Awards of Restricted Stock Units, as soon as administratively possible after the date of vesting, but in no event later than two and a half months after the end of the calendar year in which the vesting occurs, the Committee will cause to be issued to the Grantee, a share certificate to, or for the benefit of, the Grantee with respect to the number of vested Shares. Alternatively, at the discretion of the Committee, vested Restricted Stock Units may be paid to the Grantee in cash.

d. Code Section 162(m) Provisions.

(i) Notwithstanding any other provision of the Plan, if the Compensation Committee of the Board (the "Compensation Committee") determines at the time an Award is granted to an Eligible Employee, Consultant or Director that such

Eligible Employee, Consultant or Director is, or may be as of the end of the tax year for which the Company would claim a tax deduction in connection with such Award, a "covered employee" within the meaning of Section 162(m)(3) of the Code, and to the extent the Compensation Committee considers it desirable for compensation delivered pursuant to such Award

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to be eligible to qualify for an exemption from the limit on tax deductibility of compensation under Section 162(m) of the Code, then the Compensation Committee may provide that this Section 5(d) is applicable to such Award under such terms as the Compensation Committee shall determine.

If an Award is subject to this Section 5(d), then the lapsing of restrictions thereon and the distribution of Shares or cash pursuant thereto, as applicable, shall be subject to satisfaction of one, or more than one, objective performance targets. The Compensation Committee shall determine the performance targets that will be applied with respect to each Award subject to this Section 5(d) at the time of grant, but in no event later than 90 days after the commencement of the period of service to which the performance target(s) relate. The performance criteria applicable to Awards subject to this Section 5(d) will be one or more of the following criteria: (A) stock price; (B) market share; (C) sales; (D) earnings per share, core earnings per share or variations thereof; (E) return on equity; (F) costs; (G) revenue; (H) cash to cash cycle; (I) days payables outstanding; (J) days of supply; (K) days sales outstanding; (L) cash flow; (M) operating income; (N) profit after tax; (O) profit before tax; (P) return on assets; (Q) return on sales; (R) inventory turns; (S) invested capital; (T) net operating profit after tax; (U) return on (ii) invested capital; (V) total shareholder return; (W) earnings; (X) return on equity or average shareowners' equity; (Y) total shareowner return; (Z) return on capital; (AA) return on investment; (BB) income or net income; (CC) operating income or net operating income; (DD) operating profit or net operating profit; (EE) operating margin; (FF) return on operating revenue; (GG) contract awards or backlog; (HH) overhead or other expense reduction; (II) growth in shareowner value relative to the moving average of the S&P 500 Index or a peer group index; (JJ) credit rating; (KK) strategic plan development and implementation; (LL) net cash provided by operating activities; (MM) gross margin; (NN) economic value added; (OO) customer satisfaction; (PP) financial return ratios; (QQ) market performance; (RR) production capacity; (SS) production volume; (TT) achievement of photovoltaic conversion efficiency; (UU) production yields; (VV) EBITDA; (WW) EBIT; (XX) market capitalization; (YY) liquidity; (ZZ) strategic partnerships; (AAA) production agreements and relationships; and (BBB) product certifications.

Notwithstanding any contrary provision of the Plan, the Compensation Committee may not increase the number of (iii) Shares granted pursuant to any Award subject to this Section 5(d), nor may it waive the achievement of any performance target established pursuant to this Section 5(d).

Prior to the payment of any Award subject to this Section 5(d), the Compensation Committee shall certify in (iv) writing that the performance target(s) applicable to such Award was met.

The Compensation Committee shall have the power to impose such other restrictions on Awards subject to this Section 5(d) as it may deem necessary or appropriate to ensure that such Awards satisfy all requirements for (v) "performance-based compensation" within the meaning of Code section 162(m)(4)(C) of the Code, the regulations promulgated thereunder, and any successors thereto.

e. Dividends and Voting Rights.

Restricted Stock. Unless otherwise provided in the Award Agreement, the Grantee shall have the right to receive any cash dividends which are paid with respect to any of his or her Shares after the Date of Grant and before the first day that the Grantee's interest in such Shares is forfeited or becomes nonforfeitable and vested. If an Award Agreement provides that a Grantee has no right to receive a cash dividend when paid, such Award Agreement may set forth the conditions, if any, under which the Grantee will be eligible to receive one, or more than one, payment in the future to compensate the Grantee for the fact that he or she had no right to receive any cash dividends on his or her Shares when such dividends were paid. If an Award Agreement calls for any such payments to be made, the (ii) Company shall make such payments from the Company's general assets, and the Grantee shall be no more than a general and unsecured creditor of the Company with respect to such payments. If a stock dividend is declared on such a Share after the grant is effective but before the Grantee's interest in such Share has been forfeited or has become nonforfeitable and vested, such stock dividend shall be treated as part of the grant of the Shares, and a Grantee's interest in such stock dividend shall be forfeited or shall become nonforfeitable and vested at the same time as the Share with respect to which the stock dividend was paid is forfeited or becomes nonforfeitable and vested. If a dividend is paid other than in cash or stock, the disposition of such dividend shall be

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made in accordance with such rules as the Committee shall adopt with respect to each such dividend. Unless otherwise provided in the Award Agreement, the Grantee shall have the right to vote the Shares related to his or her Award of after the Date of Grant of such Shares but before his or her interest in such Shares has been forfeited or has become nonforfeitable and vested.

(ii) Restricted Stock Units. No dividend or voting rights shall attach to Shares associated with Awards of Restricted Stock Units unless and until such Shares become nonforfeitable and vested.

f. Satisfaction of Forfeiture Conditions. A Share shall cease to be restricted at such time as a Grantee's interest in such Share becomes nonforfeitable and vested in accordance with the terms of the Plan and the Award Agreement, and the certificate representing such share shall be reissued as soon as practicable thereafter and shall be transferred to the Grantee.

g. Termination of Employment or Service as a Director. In the event that a Grantee's employment or service as a Director terminates for any reason, then, unless otherwise provided by the Award Agreement, and subject to Section 7 of the Plan:

i. With respect to the portion of an Award that is forfeitable immediately before the Date of Termination, the Shares shall thereupon automatically be forfeited; and

ii. With respect to the portion of an Award that is nonforfeitable and vested immediately before the Date of Termination, the Shares shall promptly be settled by delivery to the Grantee (or the Grantee's beneficiary, in the event of the death of the Grantee) of a number of unrestricted Shares equal to the aggregate number of the Grantee's nonforfeitable and vested Shares.

h. Nontransferability of Awards. Until such time as it becomes nonforfeitable and vested in accordance with the terms of the Plan and the Award Agreement, no Award, no right under any Award, and no Shares may be assigned, alienated, pledged, attached, sold or otherwise transferred or encumbered by a Grantee otherwise than by will or by the laws of descent and distribution or to the Company, and any such purported assignment, alienation, pledge, attachment, sale, transfer or encumbrance shall be void and unenforceable against the Company or any Subsidiary; provided, that the designation of a beneficiary shall not constitute an assignment, alienation, pledge, attachment, sale, transfer or encumbrance.

i. Escrow of Shares. Any certificates representing the Shares issued under the Plan shall be issued in the Grantee's name, but, if the applicable Award Agreement so provides, the Shares will be held by a custodian designated by the Committee (the "Custodian"). Each applicable Award Agreement providing for the transfer of Shares to the Custodian shall appoint the Custodian as attorney-in-fact for the Grantee for the term specified in the applicable Award Agreement, with full power and authority in the Grantee's name, place and stead to transfer, assign and convey to the Company any Shares held by the Custodian for such Grantee, if the Grantee forfeits the Shares under the terms of the applicable Award Agreement. During the period that the Custodian holds the shares subject to this Section 5(i), the Grantee will be entitled to all rights, except as otherwise provided in the Plan or the applicable Award Agreement, applicable to Shares not so held.

j. Other Restrictions. The Committee shall impose such other restrictions on any Award as it may deem advisable including, without limitation, restrictions under Applicable Law. The Committee may also require that Grantees make cash payments at the time of grant or upon lapsing of restrictions. An Award shall not be granted and Shares shall not be issued pursuant to an Award unless the grant of such Award and the issuance and delivery of such Shares shall comply with all relevant provisions of Applicable Law, and shall be further subject to the approval of counsel for the Company with respect to such compliance. Any certificate issued to evidence Shares may bear such legends and statements, and shall be subject to such transfer restrictions, as the Committee deems advisable to assure compliance with Applicable Law and the requirements of this Section 5(j). As a condition to the issuance of Shares under this Plan, the Committee may require the Grantee to represent and warrant that the Shares will be held for investment and not with a view of resale or distribution to the public. No Shares may be issued under this Plan until the Company has obtained the consent or approval of every regulatory body, federal or state, having jurisdiction over such matters as the Board deems advisable. Each person who acquires the right to ownership of Shares by bequest or inheritance may be required by the Committee to furnish reasonable evidence of such right of ownership. In addition, the Board may require such consents and releases of taxing authorities as the Board deems advisable. Additionally, as

a condition to the issuance of shares under this Plan, the Grantee shall be required to become a party to the then-current version of any shareholder agreement that is in effect among the holders of a majority of the Company's equity securities.

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k. Certificate Legend. In addition to any legends placed on certificates pursuant to Section 5(j) above, each certificate representing Shares shall bear the following legend:

The sale or other transfer of the Shares of stock represented by this certificate, whether voluntary, involuntary, or by operation of law, is subject to certain restrictions on transfer as set forth in the Ascent Solar Technologies, Inc. Restricted Stock Plan, as amended, and in a Restricted Stock Agreement dated . A copy of the Plan and the Restricted Stock Agreement may be obtained from the Chief Financial Officer of Ascent Solar Technologies, Inc.

1. Removal of Restrictions. Shares shall become freely transferable by the Grantee after they become nonforfeitable and vested. Once the Shares are released from the forfeiture restrictions, the Grantee shall be entitled to have the legend required by Section 5(k) above removed from the Grantee's Share certificate.

6. Tax Withholding. Upon each vesting event, the Grantee must satisfy the federal, state, local or foreign income and social insurance withholding taxes imposed by reason of the vesting of the Shares. Upon grant of an Award, the Grantee shall make an election with respect to the method of satisfaction of such tax withholding obligation in accordance with procedures established by the Administrator. In the case where the Grantee is an Eligible Employee, unless the Grantee delivers to the Company or its designee within five (5) days after the occurrence of the vesting event specified in Section 2 or Section 3 above a certified check payable in the amount of all tax withholding obligations imposed on the Grantee and the Company by reason of the vesting of the Shares, the Grantee's actual number of vested Shares shall be reduced by the smallest number of whole Shares which, when multiplied by the Fair Market Value of the Common Stock on the vesting date, is sufficient to satisfy the amount of such tax withholding obligations.

7. Adjustments Upon Changes in Capitalization or Change of Control.

a. Changes in Capitalization. Subject to any required action by the shareholders of the Company, the number of Shares, and the number of Shares which have been authorized for issuance under the Plan but as to which no Awards have yet been granted or which have been returned to the Plan upon cancellation or expiration of an Award shall be proportionately adjusted for any increase or decrease in the number of issued shares of Common Stock resulting from a stock split, reverse stock split, stock dividend, combination or reclassification of the Common Stock, or any other increase or decrease in the number of issued shares of Common Stock effected without receipt of consideration by the Company; provided, however, that conversion of any convertible securities of the Company shall not be deemed to have been "effected without receipt of consideration." Such adjustment shall be made by the Board, whose determination in that respect shall be final, binding and conclusive. Except as expressly provided herein, no issuance by the Company of shares of stock of any class, or securities convertible into shares of stock of any class, shall affect, and no adjustment by reason thereof shall be made with respect to, the number or price of Shares.

b. Change in Control. Unless otherwise provided in the Award Agreement, in the event of a Change in Control, then, as to each Grantee, 50 percent of any Shares that have not yet been forfeited and that are not yet nonforfeitable and vested at the time such Change in Control is determined to have occurred shall become nonforfeitable and vested immediately before such Change in Control is determined to have occurred. Notwithstanding the foregoing and anything else in this Plan, and unless otherwise provided in the Award Agreement, if the employment of a Grantee is terminated by the Company or its successor in connection with a Change in Control (as determined in the sole and absolute discretion of the Committee), then all of such Grantee's Shares that have not yet been forfeited and are not yet nonforfeitable and vested at termination of employment shall become nonforfeitable and vested upon termination of employment.

c. Dissolution or Liquidation . Unless otherwise provided in the Award Agreement, in the event of the dissolution or liquidation of the Company, then immediately before such dissolution or liquidation, any Shares that are not yet nonforfeitable and vested shall become nonforfeitable and vested.

8. Term of Plan. The Plan shall become effective upon its approval by the shareholders of the Company within 12 months after the earlier of the date of its adoption by the Board or the date of its approval by the shareholders. Such shareholder approval shall be obtained in the manner and to the degree required under applicable federal and state law. The Plan shall continue in effect until the tenth anniversary of adoption of the Plan by the Board, unless terminated earlier under Section 9 of the Plan.

9. Amendment and Termination of the Plan.

- a. Amendment and Termination. The Board may at any time amend, alter, suspend or terminate the Plan.

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b. Shareholder Approval. The Company shall obtain shareholder approval of any Plan amendment to the extent necessary and desirable to comply with Applicable Law. Such shareholder approval, if required, shall be obtained in such a manner and to such a degree as is required by the Applicable Law.

c. Effect of Amendment or Termination. No amendment, alteration, suspension or termination of the Plan shall impair the rights of any Grantee, unless mutually agreed otherwise between the Grantee and the Committee, which agreement must be in writing and signed by the Grantee and the Company.

10. Liability of Company.

a. Inability to Obtain Authority. The inability of the Company to obtain authority from any regulatory body having jurisdiction, which authority is deemed by the Company's counsel to be necessary to the lawful issuance and sale of any Shares hereunder, shall relieve the Company of any liability in respect of the failure to issue or sell such Shares as to which such requisite authority shall not have been obtained.

b. Grants Exceeding Allotted Shares. If the Shares covered by an Award exceeds, as of the date of grant, the number of Shares that may be issued under the Plan without additional shareholder approval, such Award shall be void with respect to such excess Shares, unless shareholder approval of an amendment sufficiently increasing the number of Shares subject to the Plan is timely obtained in accordance with Section 9 of the Plan.

11. Reservation of Shares. The Company, during the term of the Plan, will at all times reserve and keep available such number of Shares as shall be sufficient to satisfy the requirements of the Plan.

12. Rights of Grantees. Neither the Plan nor any Award shall confer upon an Grantee any right with respect to continuing the Grantee's employment or service as a Consultant or Director, nor shall they interfere in any way with the Grantee's right or the Company's right to terminate such employment or service as a Consultant or Director at any time, with or without cause.

13. Construction. The Plan shall be construed under the laws of the State of Delaware, to the extent not preempted by federal law, without reference to the principles of conflict of laws.

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EXHIBIT A

ASCENT SOLAR TECHNOLOGIES, INC.
SECOND AMENDED AND RESTATED 2008 RESTRICTED STOCK PLAN
RESTRICTED STOCK AWARD AGREEMENT

This RESTRICTED STOCK AWARD AGREEMENT (the "Agreement") is made as of [] (the "Date of Grant") between ASCENT SOLAR TECHNOLOGIES, INC., a Delaware corporation (the "Company") and [] (the "Grantee").

Background Information

- A. The Board of Directors (the "Board") and shareholders of the Company previously adopted the Ascent Solar Technologies, Inc. Second Amended and Restated 2008 Restricted Stock Plan (the "Plan").
- B. The Plan provides that the Committee shall have the discretion and right to grant Awards to any Eligible Employees or Directors of the Company, subject to the terms and conditions of the Plan and any additional terms provided by the Committee. The Committee has made an Award grant to the Grantee as of the Date of Grant pursuant to the terms of the Plan and this Agreement.
- C. In cases where the Committee has determined that the vesting of the Award is subject to certain performance targets set forth in Section 5(d) of the Plan, the Compensation Committee of the Board (the "Compensation Committee") has determined that it is desirable for compensation delivered pursuant to such Award to be eligible to qualify for an exemption from the limit on tax deductibility of compensation under Section 162(m) of the Code, and the Compensation Committee has determined that Section 5(d) of the Plan is applicable to such Award.
- C. The Grantee desires to accept the Award grant and agrees to be bound by the terms and conditions of the Plan and this Agreement.
- D. Unless otherwise defined herein, the terms defined in the Plan shall have the same defined meanings in this Agreement.

Agreement

1. Restricted Stock. Subject to the terms and conditions provided in this Agreement and the Plan, the Company hereby grants to the Grantee [] (_____) shares of Common Stock (the "Shares") as of the Date of Grant. The extent to which the Shares become vested and nonforfeitable shall be determined in accordance with the provisions of Sections 2 and 3 of this Agreement.
2. Vesting. Except as may be otherwise provided in this Section 2 and in Section 3 of this Agreement, the Grantee's rights and interest in the Shares shall become vested and nonforfeitable and shall cease being restricted as follows:
CHECK ONE:

Time-based vesting according to the following schedule:

| Date | Percent Vested |
|------|----------------|
|------|----------------|

Performance-based vesting according to the following criteria:

Except as may be otherwise provided in Section 3 of this Agreement, the extent of the vesting of the Restricted Stock shall be based upon the satisfaction of the performance goal specified in this Section 2 (the "Performance Goal"). The Performance Goal shall be based upon [].

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The portion of the Grantee's rights and interest in the Restricted Stock, if any, that become vested and non-forfeitable and ceases to be restricted shall be determined in accordance with the following schedule: [].

The applicable portion of the Restricted Stock shall become vested and non-forfeitable and shall cease being restricted upon written certification by the Compensation Committee of the Company's Board of Directors that the corresponding Performance Goal has been satisfied, provided the Grantee's Continuous Status as an Employee or Consultant has not terminated more than thirty (30) days prior to the date and time of the Compensation Committee's certification. Any determination as to whether or not and to what extent the Performance Goal has been satisfied shall be made by the Compensation Committee in its sole and absolute discretion and shall be final, binding and conclusive on all persons, including, but not limited to, the Company and the Grantee. The Grantee shall not be entitled to any claim or recourse if any action or inaction by the Company, or any other circumstance or event, including any circumstance or event outside the control of the Grantee, adversely affects the ability of the Grantee to satisfy the Performance Goal or in any way prevents the satisfaction of the Performance Goal.

3. Change in Control. [In the event of a Change in Control, any portion of the Shares that is not yet vested and nonforfeitable on the date such Change in Control occurs shall become vested and nonforfeitable in accordance with Section 7(b) of the Plan.]

1.Restrictions on Transfer. Until such time as a Share becomes vested and nonforfeitable pursuant to Section 2 or Section 3 of this Agreement, the Grantee shall not have the right to make or permit to occur any transfer, pledge or hypothecation of all or any portion of the Shares, whether outright or as security, with or without consideration, voluntary or involuntary. Any transfer, pledge or hypothecation not made in accordance with this Agreement shall be deemed null and void.

5. Termination of Employment. Subject to Section 3 above, in the event that the Grantee's employment or service as a Director terminates for any reason, then:

(i) With respect to the portion of the Award that is unvested and forfeitable immediately before the Date of Termination, the Shares shall thereupon automatically be forfeited; and

(iii) With respect to the portion of the Award that is nonforfeitable and vested immediately before the Date of Termination, the Shares shall promptly be settled by delivery to the Grantee (or the Grantee's beneficiary, in the event of the death of the Grantee) of a number of unrestricted Shares equal to the aggregate number of the Grantee's nonforfeitable and vested Shares.

6. Shares Held by Custodian. The Grantee hereby authorizes and directs the Company to deliver any share certificate issued by the Company to evidence the Award to the Secretary of the Company or such other officer of the Company as may be designated by the Committee (the "Share Custodian") to be held by the Share Custodian until the Shares becomes vested and nonforfeitable in accordance with Section 2 or Section 3 of this Agreement. When a Share becomes vested, the Share Custodian shall deliver to the Grantee (or his beneficiary in the event of death) a certificate representing the vested and nonforfeitable Share. The Grantee hereby irrevocably appoints the Share Custodian, and any successor thereto, as the true and lawful attorney-in-fact of the Grantee with full power and authority to execute any stock transfer power or other instrument necessary to transfer the Shares to the Company, or to transfer a portion of the Shares to the Grantee on an unrestricted basis upon vesting, pursuant to this Agreement, in the name, place, and stead of the Grantee. The term of such appointment shall commence on the Date of Grant and shall continue until all the Shares become vested or are forfeited. During the period that the Share Custodian holds the Shares subject to this Section 6, the Grantee shall be entitled to all rights applicable to shares of common stock of the Company not so held, including the right to vote and receive dividends, but provided, however, in the event the number of Shares is increased or reduced in accordance with Section 7 of the Plan, and in the event of any distribution of common stock or

other securities of the Company in respect of such shares of common stock, the Grantee agrees that any certificate representing shares of such additional common stock or other securities of the Company issued as a result of any of the foregoing shall be delivered to the Share Custodian and shall be subject to all of the provisions of this Agreement as if initially received hereunder.

7. Tax Consequences.

(a) Upon the occurrence of a vesting event specified in Section 2 or Section 3 above, the Grantee must satisfy the federal, state, local or foreign income and social insurance withholding taxes imposed by reason of the vesting of the Restricted Stock. In the case of a Grantee who is an employee: (i) upon grant of an Award, the Grantee shall make an election with respect to the method of satisfaction of such tax withholding obligation in accordance with procedures established by the Administrator; and (ii) unless the Grantee delivers to the Company or its designee within

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five (5) days after the occurrence of the vesting event specified in Section 2 or Section 3 above a certified check payable in the amount of all tax withholding obligations imposed on the Grantee and the Company by reason of the vesting of the Shares, the Grantee's actual number of vested Shares of shall be reduced by the smallest number of whole Shares which, when multiplied by the Fair Market Value of the Common Stock on the vesting date, is sufficient to satisfy the amount of such tax withholding obligations.

(b)The Grantee understands that the Grantee may elect to be taxed at the Date of Grant rather than when the Shares become vested by filing with the Internal Revenue Service an election under section 83(b) of the Internal Revenue Code of 1986, as amended (the "Code"), within thirty (30) days from the Date of Grant. The Grantee acknowledges that it is the Grantee's sole responsibility and not the Company's responsibility to timely file the Code section 83(b) election with the Internal Revenue Service if the Grantee intends to make such an election. Grantee agrees to provide written notification to the Company if the Grantee files a Code section 83(b) election.

8. No Effect on Employment. Nothing in the Plan or this Agreement shall confer upon the Grantee the right to continue in the employment of the Company or effect any right which the Company may have to terminate the employment of the Grantee regardless of the effect of such termination of employment on the rights of the Grantee under the Plan or this Agreement.

9. Governing Laws. This Agreement shall be construed and enforced in accordance with the laws of the State of Delaware.

10. Successors. This Agreement shall inure to the benefit of, and be binding upon, the Company and the Grantee and their heirs, legal representatives, successors and permitted assigns.

11. Severability. In the event that any one or more of the provisions or portion thereof contained in this Agreement shall for any reason be held to be invalid, illegal or unenforceable in any respect, the same shall not invalidate or otherwise affect any other provisions of this Agreement, and this Agreement shall be construed as if the invalid, illegal or unenforceable provision or portion thereof had never been contained herein.

12. Entire Agreement. Subject to the terms and conditions of the Plan, which are incorporated herein by reference, this Agreement expresses the entire understanding and agreement of the parties hereto with respect to such terms, restrictions and limitations.

13. Headings. Section headings used herein are for convenience of reference only and shall not be considered in construing this Agreement.

14. Additional Acknowledgements. By their signatures below, the Grantee and the Company agree that the Shares is granted under and governed by the terms and conditions of the Plan and this Agreement. Grantee has had an opportunity to request a copy of the Plan, has had an opportunity to obtain the advice of counsel prior to executing this Agreement and fully understands all provisions of the Plan and this Agreement. Grantee hereby agrees to accept as binding, conclusive and final all decisions or interpretations of the Committee made in accordance with the terms of the Plan and this Agreement upon any questions relating to the Plan and this Agreement.

15. Incorporation of Plan by Reference. The Award is granted in accordance with the terms and conditions of the Plan, the terms of which are incorporated in this Agreement by reference, and this Agreement shall in all respects be interpreted in accordance with the Plan.

IN WITNESS WHEREOF, the Company and the Grantee have executed this Agreement as of the Date of Grant set forth above.

ASCENT SOLAR TECHNOLOGIES, INC.

By:

Print Name:

GRANTEE

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EXHIBIT B

ASCENT SOLAR TECHNOLOGIES, INC.
SECOND AMENDED AND RESTATED 2008 RESTRICTED STOCK PLAN
RESTRICTED STOCK UNIT AWARD AGREEMENT

This RESTRICTED STOCK UNIT AWARD AGREEMENT (the "Agreement") is made as of [] (the "Date of Grant") between ASCENT SOLAR TECHNOLOGIES, INC., a Delaware corporation (the "Company") and [] (the "Grantee").

Background Information

A. The Board of Directors (the "Board") and shareholders of the Company have adopted the Ascent Solar Technologies, Inc. Second Amended and Restated 2008 Restricted Stock Plan (the "Plan").

B. The Plan provides that the Committee shall have the discretion and right to grant Restricted Stock Units to any Eligible Employees or Directors of the Company, subject to the terms and conditions of the Plan and any additional terms provided by the Committee. The Committee has made grant of Restricted Stock Units to the Grantee as of the Date of Grant pursuant to the terms of the Plan and this Agreement.

C. In cases where the Committee has determined that the vesting of the Restricted Stock Units is subject to certain performance targets set forth in Section 5(d) of the Plan, the Compensation Committee of the Board (the "Compensation Committee") has determined that it is desirable for compensation delivered pursuant to such Restricted Stock Units to be eligible to qualify for an exemption from the limit on tax deductibility of compensation under Section 162(m) of the Code, and the Compensation Committee has determined that Section 5(d) of the Plan is applicable to such Restricted Stock Units.

D. The Grantee desires to accept the Restricted Stock Units grant and agrees to be bound by the terms and conditions of the Plan and this Agreement.

E. Unless otherwise defined herein, the terms defined in the Plan shall have the same defined meanings in this Agreement.

Agreement

1. Restricted Stock Unit. Subject to the terms and conditions provided in this Agreement and the Plan, the Company hereby grants to the Grantee [] (_____) Restricted Stock Units covering shares of Common Stock as of the Date of Grant. The extent to which the Restricted Stock Units become vested and nonforfeitable shall be determined in accordance with the provisions of Sections 2 and 3 of this Agreement.

2. Vesting. Except as may be otherwise provided in this Section 2 and in Section 3 of this Agreement, the Grantee's rights and interest in the Restricted Stock Units shall become vested and nonforfeitable as follows:

CHECK ONE:

Time-based vesting according to the following schedule:

Date

Percent Vested

Performance-based vesting according to the following criteria:

Except as may be otherwise provided in Section 3 of this Agreement, the extent of the vesting of the Restricted Stock Units shall be based upon the satisfaction of the performance goal specified in this Section 2 (the "Performance Goal").

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The Performance Goal shall be based upon [].

The portion of the Grantee's rights and interest in the Restricted Stock Units, if any, that become vested and non-forfeitable shall be determined in accordance with the following schedule: [].

The applicable Restricted Stock Units shall become vested and non-forfeitable upon written certification by the Compensation Committee of the Company's Board of Directors that the corresponding Performance Goal has been satisfied, provided the Grantee's Continuous Status as an Employee or Consultant has not terminated more than thirty (30) days prior to the date and time of the Compensation Committee's certification. Any determination as to whether or not and to what extent the Performance Goal has been satisfied shall be made by the Compensation Committee in its sole and absolute discretion and shall be final, binding and conclusive on all persons, including, but not limited to, the Company and the Grantee. The Grantee shall not be entitled to any claim or recourse if any action or inaction by the Company, or any other circumstance or event, including any circumstance or event outside the control of the Grantee, adversely affects the ability of the Grantee to satisfy the Performance Goal or in any way prevents the satisfaction of the Performance Goal.

3. Change in Control. [In the event of a Change in Control, any Restricted Stock Units that are not yet vested and nonforfeitable on the date such Change in Control occurs shall become vested and nonforfeitable in accordance with Section 7(b) of the Plan.]

2.Restrictions on Transfer. The Grantee shall not have the right to make or permit to occur any transfer, pledge or hypothecation of all or any portion of the Restricted Stock Units, whether outright or as security, with or without consideration, voluntary or involuntary. Any transfer, pledge or hypothecation not made in accordance with this Agreement shall be deemed null and void.

5. Termination of Employment. Subject to Section 3 above, in the event that the Grantee's employment or service as a Director terminates for any reason, then with respect to the Restricted Stock Units that are unvested and forfeitable immediately before the Date of Termination, such unvested Restricted Stock Units shall thereupon automatically be forfeited.

6. Settlement of Vested Restricted Stock Units. Subject to Section 7 below, as soon as administratively feasible after the date of vesting of a Restricted Stock Unit, but no later than 2 and 1/2 months after the last day of the calendar year in which the vesting occurs, the Committee shall cause to be delivered to the Grantee the equivalent number of shares of Common Stock or cash, or a combination of both, as determined by the Committee in its sole discretion.

7. Tax Consequences. Upon the occurrence of a vesting event specified in Section 2 or Section 3 above, the Grantee must satisfy the federal, state, local or foreign income and social insurance withholding taxes imposed by reason of the vesting of the Restricted Stock Units. In the case of a Grantee who is an employee: (i) upon grant of Restricted Stock Units, the Grantee shall make an election with respect to the method of satisfaction of such tax withholding obligation in accordance with procedures established by the Administrator; and (ii) unless the Grantee delivers to the Company or its designee within five (5) days after the occurrence of the vesting event specified in Section 2 or Section 3 above a certified check payable in the amount of all tax withholding obligations imposed on the Grantee and the Company by reason of the vesting of the Restricted Stock Units, the Grantee's actual number of shares of Common Stock shall be reduced by the smallest number of whole shares of Common Stock which, when multiplied by the Fair Market Value of the Common Stock on the vesting date, is sufficient to satisfy the amount of such tax withholding obligations.

8. No Effect on Employment. Nothing in the Plan or this Agreement shall confer upon the Grantee the right to continue in the employment of the Company or affect any right which the Company may have to terminate the

employment of the Grantee regardless of the effect of such termination of employment on the rights of the Grantee under the Plan or this Agreement.

9. **Governing Laws.** This Agreement shall be construed and enforced in accordance with the laws of the State of Delaware.

10. **Successors.** This Agreement shall inure to the benefit of, and be binding upon, the Company and the Grantee and their heirs, legal representatives, successors and permitted assigns.

11. **Severability.** In the event that any one or more of the provisions or portion thereof contained in this Agreement shall for any reason be held to be invalid, illegal or unenforceable in any respect, the same shall not invalidate or otherwise affect any other provisions of this Agreement, and this Agreement shall be construed as if the invalid, illegal or unenforceable provision or portion thereof had never been contained herein.

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12. Entire Agreement. Subject to the terms and conditions of the Plan, which are incorporated herein by reference, this Agreement expresses the entire understanding and agreement of the parties hereto with respect to such terms, restrictions and limitations.

13. Headings. Section headings used herein are for convenience of reference only and shall not be considered in construing this Agreement.

14. Additional Acknowledgements. By their signatures below, the Grantee and the Company agree that the Restricted Stock Units are granted under and governed by the terms and conditions of the Plan and this Agreement. Grantee has had an opportunity to request a copy of the Plan, has had an opportunity to obtain the advice of counsel prior to executing this Agreement and fully understands all provisions of the Plan and this Agreement. Grantee hereby agrees to accept as binding, conclusive and final all decisions or interpretations of the Committee made in accordance with the terms of the Plan and this Agreement upon any questions relating to the Plan and this Agreement.

15. Incorporation of Plan by Reference. These Restricted Stock Units are granted in accordance with the terms and conditions of the Plan, the terms of which are incorporated in this Agreement by reference, and this Agreement shall in all respects be interpreted in accordance with the Plan.

IN WITNESS WHEREOF, the Company and the Grantee have executed this Agreement as of the Date of Grant set forth above.

ASCENT SOLAR TECHNOLOGIES, INC.

By:

Print Name:

GRANTEE

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Electronic Voting Instructions

You can vote by Internet or telephone!
Available 24 hours a day, 7 days a week!

Instead of mailing your proxy, you may choose one of the two voting methods outlined below to vote your proxy.

VALIDATION DETAILS ARE LOCATED BELOW IN THE TITLE BAR.

Proxies submitted by the Internet or telephone must be received by 1:00 a.m., Central Time, on June 6, 2012.

Vote by Internet

- Log on to the Internet and go to
- www.investorvote.com/ASTI
- Follow the steps outlined on the secured website.

Vote by telephone

- Call toll free 1-800-652-VOTE (8683) within the USA, US territories & Canada any time on a touch tone telephone. There is NO CHARGE to you for the call.
- Follow the instructions provided by the recorded message.

Using a black ink pen, mark your votes with an X as shown in this example. Please do not write outside the designated areas.

q PLEASE FOLD ALONG THE PERFORATION, DETACH AND RETURN THE BOTTOM PORTION IN THE ENCLOSED ENVELOPE. q

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A Proposals — Board of Directors recommends a vote FOR the following nominees in Proposal 1 and FOR Proposals 2 and 3.

1 To elect one Class 1 director to serve until the 2015 annual meeting of stockholders and two Class 3 directors to serve until the 2014 annual meeting of stockholders; each until his successors have been elected and qualified.

01- Dr. Amit Kumar 02 - Victor Lee 03 - Xu Biao

o For ALL o Withhold ALL o Withhold Authority to vote for any individual nominee. Write number(s) of nominee(s) below. Use number only.

| | For | Against | Abstain |
|--|-----|---------|---------|
| 2 To approve an amended and restated 2008 Restricted Stock Plan. To ratify the Audit Committee’s appointment of Hein & Associates | o | o | o |
| 3 LLP as our independent registered public accounting firm for the year ending December 31, 2012. | o | o | o |

B Non-Voting Items

Change of Address — Please print new address below.

C Authorized Signatures — This section must be completed for your vote to be counted. — Date and Sign Below
Please sign exactly as name(s) appears hereon. Joint owners should each sign. When signing as attorney, executor, administrator, corporate officer, trustee, guardian, or custodian, please give full title.

Date (mm/dd/yyyy) — Please print date below. Signature 1 — Please keep signature within the box. Signature 2 — Please keep signature within the box.

/ /

01BVLB

q PLEASE FOLD ALONG THE PERFORATION, DETACH AND RETURN THE BOTTOM PORTION IN THE ENCLOSED ENVELOPE. q

Proxy — ASCENT SOLAR TECHNOLOGIES, INC.

12300 North Grant Street

Thornton, CO 80241

ANNUAL MEETING OF STOCKHOLDERS TO BE HELD ON JUNE 6, 2012

THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS

The undersigned hereby appoints Victor Lee and Gary Gatchell, and each of them individually, the proxies of the undersigned, with power of substitution to each of them, to vote all shares of Ascent Solar Technologies, Inc., a Delaware corporation, which

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the undersigned is entitled to vote at the Annual Meeting of Stockholders of Ascent to be held on Wednesday, June 6, 2012, at 2:00 p.m., Mountain time, at the DoubleTree by Hilton, 83 East 120th Avenue, Thornton, Colorado 80233, and at any adjournment thereof (the "Annual Meeting"), upon matters properly coming before the meeting.

In their discretion, the proxies are authorized to vote upon such other business as may properly come before the annual meeting or any adjournments or postponements thereof.

UNLESS OTHERWISE DIRECTED, THIS PROXY WILL BE VOTED "FOR" THE ELECTION OF EACH OF THE DIRECTOR NOMINEES IN PROPOSAL 1, "FOR" PROPOSALS 2 AND 3 AND AT THE DISCRETION OF YOUR PROXY ON ANY OTHER MATTER THAT MAY BE PROPERLY BROUGHT BEFORE THE ANNUAL MEETING.

Please date, sign and mail your proxy card in the envelope provided as soon as possible.

Continued and to be dated and signed on reverse side.