



**NXT ENERGY SOLUTIONS INC.
NOTICE OF ANNUAL MEETING OF SHAREHOLDERS
AND INFORMATION CIRCULAR
DATED MAY 10, 2019**

**WITH RESPECT TO THE
ANNUAL MEETING OF SHAREHOLDERS
TO BE HELD ON
TUESDAY, JUNE 25, 2019**

NXT ENERGY SOLUTIONS INC.
NOTICE OF ANNUAL MEETING OF SHAREHOLDERS
TO BE HELD ON
TUESDAY, JUNE 25, 2019

NOTICE IS HEREBY GIVEN THAT an annual meeting (the "**Meeting**") of holders (the "**Shareholders**") of common shares (the "**Common Shares**") of NXT Energy Solutions Inc. (the "**Company**" or "**NXT**") will be held at

Norton Rose Fulbright Canada LLP
400 3rd Avenue SW, Suite 3700
Calgary, Alberta T2P 4H2
Telephone: 403.267.8222

At **10:00 am** (Calgary time) on **Tuesday, June 25, 2019** for the following purposes:

1. to receive and consider the audited financial statements of the Company for the year ended December 31, 2018, the accompanying notes thereto, the Auditor's report thereon, and the Management's Discussion and Analysis in respect of the financial statements;
2. to set the number of directors to be elected at the Meeting at five (5);
3. to elect five (5) directors of the Company;
4. to appoint KPMG LLP, Chartered Professional Accountants, as the auditors of the Company for the ensuing year at a remuneration to be determined by the Board of Directors of the Company (the "**Board**");
5. to consider and approve the Warrant Extension Resolution, the full text of which is reproduced as Schedule "A" to the accompanying Information Circular;
6. to consider and approve the Unallocated Options Resolution, the full text of which is reproduced as Schedule "B" to the accompanying Information Circular;
7. to consider and approve the Deferred Share Unit Plan Resolution, the full text of which is reproduced as Schedule "C" to the accompanying Information Circular; and
8. to transact such other business as may be properly brought before the Meeting.

The specific details of the matters to be brought before the Meeting are set forth in the accompanying Information Circular which forms part of this Notice.

The Board has fixed May 10, 2019 as the record date for the determination of Shareholders entitled to receive notice of and to vote at the Meeting and at any postponement or adjournment thereof.

DATED at Calgary, Alberta, this 10th day of May, 2019.

BY ORDER OF THE BOARD OF DIRECTORS

"George Liszicasz"

Chairman and Chief Executive Officer

Important

Shareholders who are unable to attend the Meeting or any postponement or adjournment thereof in person are requested to complete, date and sign the enclosed instrument of proxy and return it to Computershare Trust Company at 8th Floor, 100 University Avenue, Toronto, Ontario, M5J 2Y1, (facsimile: 1-866-249-7775) at least 48 hours (excluding Saturdays, Sundays and statutory holidays) before the Meeting or any postponement or adjournment thereof.

Shareholders are cautioned that the use of mail to transmit proxies is at each Shareholder's risk.

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NXT ENERGY SOLUTIONS INC.
ANNUAL MEETING OF SHAREHOLDERS
INFORMATION CIRCULAR

This information circular ("Information Circular") is furnished to holders ("Shareholders") of common shares ("Common Shares") in the capital of NXT Energy Solutions Inc. (the "Company" or "NXT") by management of the Company in connection with the solicitation of proxies to be voted at the Meeting for the purposes set forth in the accompanying notice of meeting (the "Notice of Meeting").

The information contained in this Information Circular is given as at May 10, 2019, and all dollar figures are in Canadian dollars, unless indicated otherwise.

GENERAL INFORMATION

Notice-and-Access

The Company has elected to use the notice-and-access provisions (the "**Notice-and-Access Provisions**") under National Instrument 51-102 – *Continuous Disclosure Obligations* ("**NI 51-102**") and National Instrument 54-101 – *Communication with Beneficial Owners of Securities of a Reporting Issuer* ("**NI 54-101**") for this Meeting. The Notice-and-Access Provisions are a set of rules developed by the Canadian Securities Administrators that reduce the volume of materials that must be physically mailed to shareholders by allowing companies to post meeting materials online.

Both Shareholders whose names appear on the records of the Company as owning their Common Shares ("**Registered Shareholders**") and Shareholders who do not hold their Common Shares in their own name ("**Beneficial Shareholders**") will receive a paper copy of the Notice of Meeting, the form of proxy or voting instruction form (as applicable) and a notice-and-access notification ("**Notice-and-Access Notification**" and together with the Notice of Meeting and the form of proxy or voting instruction form, the "**Mailed Materials**") which will include a website address whereat Shareholders can access this Information Circular and the audited annual financial statements of the Company for the most recently completed financial year, the accompanying notes thereto, the Auditor's report thereon, and the Management's Discussion and Analysis in respect thereof (the "**Financial Statements**").

Solicitation of Proxies

Proxies are being solicited by and on behalf of the management of the Company to be used at the Meeting or any postponement or adjournment thereof. The proxyholders named in the form of proxy provided by the Company are directors or senior officers of the Company. A Shareholder has the right to appoint another person to be your proxyholder and one or more alternate proxyholders (who need not be Shareholders) to represent him or her at the Meeting and may do so either by inserting the name of such proxyholder(s) in the blank space provided in the form of proxy provided by the Company or by completing another proper form of proxy.

The completed proxy must be deposited at:

- (i) the offices of the Company at Suite 302, 3320 – 17th Avenue S.W., Calgary, AB, T3E 0B4, or
- (ii) the offices of the registrar and transfer agent of the Company, Computershare Trust Company ("**Computershare**"), at 8th Floor, 100 University Avenue, Toronto, ON, M5J 2Y1 (facsimile: 1-866-249-7775)

at least 48 hours (excluding Saturdays, Sundays and statutory holidays in the Province of Alberta) before the Meeting or any postponement or adjournment thereof. The Chairman of the Meeting may waive or extend the proxy cut-off without notice. Solicitation will be primarily by mail, but some proxies may be solicited personally or by telephone, facsimile transmission or other electronic means by officers, directors or employees of the Company. The cost of solicitation will be borne by the Company.

Exercise of Discretion by Proxyholders

The persons named in the proxy must vote for or against or withhold from voting the Common Shares in respect of which they are appointed, on any ballot that may be called for, in accordance with the direction of the Shareholder appointing them and if the Shareholder specifies a choice with respect to any matter to be acted upon, the Common Shares will be voted accordingly. **In the absence of such direction, the Common Shares represented will be voted in favour of all matters set out in the form of proxy provided by the Company.** The form of proxy provided by the Company confers discretionary authority upon the proxyholder with respect to any amendments or variations of the matters of business acted on at the Meeting or any adjournment or postponement thereof, in each instance, to the extent permitted by law, whether or not the amendment, variation or other matter that comes before the meeting is routine and whether or not the amendment, variation or other matter that comes before the Meeting is contested. As of the date hereof, management of the Company knows of no such amendments, variations or other matters to be brought before the Meeting.

Signing of Proxy

The proxy must be signed by the Shareholder or his duly appointed attorney authorized in writing or, if the Shareholder is a corporation, by a duly authorized officer. A proxy signed by a person acting as attorney or in some other representative capacity (including a representative of a corporate shareholder) should indicate that person's capacity (following his signature) and should be accompanied by the appropriate instrument evidencing qualification and authority to act (unless such instrument has been previously filed with the Company).

Voting by Internet

Shareholders may also use the website at www.investorvote.com to transmit their voting instructions (the "**Voting Website**"). Shareholders should have the form of proxy in hand when they access the website. Shareholders will be prompted to enter their "Control Number" located on the proxy. If Shareholders vote by internet, their vote must be received no later than 48 hours (excluding Saturdays, Sundays and statutory holidays in the Province of Alberta) preceding the Meeting or any postponement or adjournment thereof. The Voting Website may be used to appoint a proxyholder to attend and vote on a Shareholder's behalf at the Meeting and to convey a Shareholder's voting instructions. Please note that if a Shareholder appoints a proxyholder and submits their voting instructions via the Voting Website and subsequently wishes to change their appointment, a Shareholder may resubmit their proxy and/or voting direction on the Voting Website prior to the deadline noted above. When resubmitting a proxy on the Voting Website, the most recently submitted proxy will be recognized as the only valid one, and all previous proxies submitted will be disregarded and considered as revoked, provided that the last proxy is submitted on the Voting Website by the deadline noted above.

Revocability of Proxies

A Shareholder who has submitted a proxy may revoke it as to any matter upon which a vote has not already been cast pursuant to the authority conferred by the proxy.

A Shareholder may revoke a proxy by depositing an instrument in writing, executed by the Shareholder or by an authorized attorney or, if the Shareholder is a corporation, in its corporate name by a duly authorized officer or attorney thereof, at:

- (i) the offices of the Company at Suite 302, 3320 – 17th Avenue S.W., Calgary, AB, T3E 0B4, or
- (ii) the offices of Computershare at 8th Floor, 100 University Avenue, Toronto, ON, M5J 2Y1

at any time up to and including the last business day preceding the day of the Meeting or any postponement or adjournment thereof.

In addition, a proxy may be revoked by the Shareholder executing another proxy bearing a later date and depositing the same at the office of the registrar and transfer agent of the Company within the time period set out above under the heading "*General Information – Solicitation of Proxies*", or by the Shareholder personally attending at the Meeting and voting its Common Shares.

Advice to Beneficial Shareholders

The information set forth in this section is of significant importance to Beneficial Shareholders who do not hold their Common Shares in their own name. Beneficial Shareholders should note that only proxies deposited by Registered Shareholders can be recognized and acted upon at the Meeting. If Common Shares are listed in an account statement provided to a person by a broker, then, in almost all cases, those Common Shares will not be registered in the person's name on the records of the Company. Such Common Shares will more likely be registered under the name of the person's broker or an agent of that broker.

In Canada, the vast majority of Common Shares are registered under the name of CDS & Co. (the registration name for The Canadian Depository for Securities, which acts as nominee for many Canadian brokerage firms). Common Shares held by brokers or their agents or nominees can only be voted (for or against resolutions) upon the instructions of the Beneficial Shareholder. Without specific instructions, a broker and its agents and nominees are prohibited from voting such shares for the broker's clients. **Therefore, Beneficial Shareholders should ensure that instructions respecting the voting of their Common Shares are communicated to the appropriate person or that the Common Shares are duly registered in their name.**

Canadian securities laws require intermediaries/brokers to seek voting instructions from Beneficial Shareholders in advance of shareholders' meetings. Every intermediary/broker has its own mailing procedures and provides its own return instructions to clients, which should be carefully followed by Beneficial Shareholders in order to ensure that their shares are voted at the Meeting. Often, the voting instruction form provided to a Beneficial Shareholder by its broker (or the agent of the broker) is identical to the form of proxy provided by the Company to Registered Shareholders. However, its purpose is limited to instructing the Registered Shareholder (the broker or agent of the broker) how to vote on behalf of the Beneficial Shareholder. In Canada, the majority of brokers now delegate responsibility for obtaining instructions from clients to Broadridge Financial Solutions, Inc. ("**Broadridge**"). Broadridge typically provides a scannable voting instruction form, in lieu of the form of proxy provided by the Company, and asks Beneficial Shareholders to return the voting instruction form to Broadridge. Alternatively, Beneficial Shareholders can call their toll-free telephone number to vote their Common Shares or access Broadridge's dedicated voting web site at www.proxyvotecanada.com to deliver their voting instructions. Broadridge then tabulates the results of all instructions received and provides appropriate instructions respecting the voting of shares to be represented at the Meeting. A Beneficial Shareholder receiving a voting instruction form from Broadridge cannot use that form to vote its Common Shares directly at the Meeting – the voting instruction form must be returned to Broadridge or, alternatively, instructions must be received by Broadridge well in advance of the Meeting in order to have such shares voted.

Although a Beneficial Shareholder may not be recognized directly at the Meeting for the purposes of voting Common Shares registered in the name of his or her broker (or an agent of the broker), a Beneficial Shareholder may attend the Meeting as proxyholder for the Registered Shareholder and vote their Common Shares in that capacity. A Beneficial Shareholder who wishes to attend the Meeting and indirectly vote his or her Common Shares as proxyholder for the Registered Shareholder should enter his or her own name in the blank space on the voting instruction form provided to him or her and return the same to his or her broker (or broker's agent) in accordance with the instructions provided by such broker (or agent), well in advance of the Meeting.

If you are a Beneficial Shareholder and NXT or its agent, Computershare, has sent the Mailed Materials directly to you, your name and address and information about your holdings of securities have been obtained in accordance with applicable securities laws from the intermediary holding on your behalf. By choosing to send these materials to you directly, the Company (and not the intermediary holding on your behalf) has assumed responsibility for (i) delivering these materials to you, and (ii) executing your proper voting instructions. Please return your voting instructions as specified in the request for voting instructions.

VOTING SECURITIES AND PRINCIPAL HOLDERS OF VOTING SECURITIES

The Company is authorized to issue an unlimited number of Common Shares and as at the date hereof there are 68,573,558 Common Shares issued and outstanding, each of which carries the right to one vote at meetings of the Shareholders.

The Board of Directors of the Company (the "**Board**") has fixed May 10, 2019 as the record date for the determination of Shareholders entitled to receive notice of and to vote at the Meeting and at any postponement or adjournment thereof. **Only Registered Shareholders as of the close of business on May 10, 2019 are entitled to receive notice of, and to vote at, the Meeting**, except that any person who acquires Common Shares from a Shareholder after that date may vote the shares so acquired if, not later than 10 days prior to the Meeting, that person makes a request to Computershare to have his name included on the list of Shareholders entitled to attend the Meeting and establishes that he owns the Common Shares.

As of the date hereof, to the knowledge of the directors and executive officers of the Company, no person owns, or controls or directs, directly or indirectly, voting securities carrying 10% or more of the voting rights attached to any class of the Company's securities entitled to be voted at the Meeting, except as follows:

<u>Name</u>	<u>Approximate Number of Voting Securities Beneficially Owned, or Controlled or Directed, Directly or Indirectly</u>	<u>Percentage of Issued and Outstanding</u>
George Liszicasz	15,820,617 Common Shares	23.1%
Alberta Green Ventures Limited Partnership	10,264,946 Common Shares	15.0%

PARTICULARS OF MATTERS TO BE ACTED UPON

To the knowledge of the Board, the only matters to be placed before the Meeting are those matters set forth in the accompanying Notice of Meeting. A simple majority of votes (50% plus one vote) is required to approve each of the known matters to come before the Meeting; however, votes on certain matters are to be conducted on a disinterested basis, as discussed below under the heading "*Particulars of Matters to be Acted Upon – Warrant Extension Resolution*".

Financial Statements

The Financial Statements are available on our website at www.nxtenergy.com or on the Canadian Securities Administrators' System for Electronic Document Analysis and Retrieval ("**SEDAR**") at www.sedar.com.

Election of Directors

The Board is currently composed of five directors. Management seeks the approval by the Shareholders to set the number of directors to be elected at five (5). Biographies highlighting the experience, attributes and qualifications of each director nominee can be found below under the heading "*Information on the Board and Director Nominees – Director Nominees*" below.

Each director elected will hold office until the next annual meeting of the Shareholders, unless his or her office is vacated earlier.

Management of the Company does not contemplate that any of the nominees will, for any reason, become unable or unwilling to serve as a director. However, if any change should occur prior to the Meeting, the persons named in the form of proxy reserve the right to vote for other nominees of their choice.

- **Unless otherwise directed, it is the intention of management of the Company to vote proxies IN FAVOUR of setting the number of directors to be five.**
- **Unless otherwise directed, it is the intention of management of the Company to vote proxies IN FAVOUR of the election, as directors, of the nominees whose names are set forth under the heading "*Information on the Board and Director Nominees – Director Nominees*" below.**

The Board believes that each director should have the confidence and support of the Shareholders of the Company. To this end, the Board has adopted a majority voting policy (the "**Policy**") whereby a director who receives more "withhold" than "for" votes must immediately tender his or her resignation, and the remaining Board members must determine whether or not to accept such resignation within 90 days (and will be required to accept the resignation absent exceptional circumstances). The Policy does not apply where an election involves a proxy battle i.e., where

proxy material is circulated in support of one or more nominees who are not part of the director nominees supported by the Board.

Appointment of Auditor

The Company proposes to nominate the Company's existing auditors, KPMG LLP, Chartered Professional Accountants, to act as the Company's independent auditors, to hold office until the next annual meeting of the Shareholders with remuneration to be determined by the Board. KPMG LLP, Chartered Professional Accountants, were first appointed as the Company's auditor in 2006.

- **Unless otherwise directed, it is the intention of management of the Company to vote proxies IN FAVOUR of the appointment of KPMG LLP, Chartered Professional Accountants, as auditors of the Company, to hold office until the next annual meeting of Shareholders, at a remuneration to be determined by the Board.**

The information regarding the Company's Audit Committee as required by section 5.1 of National Instrument 52-110 – *Audit Committees* ("NI 52-110") is set forth below under the heading "*Corporate Governance – Audit Committee*" and in the Company's Annual Information Form for the year ended December 31, 2018 under the heading "*Directors and Officers – Board Practices*" and in Appendix A thereto.

Warrant Extension Resolution

Background

In July 2018, the Company completed a private placement (the "**Private Placement**") with Alberta Green Ventures Limited Partnership ("**AGV**"). In total, the AGV purchased 10,264,946 units of the Company (the "**Units**") at a price of \$0.924 per Unit for total gross proceeds of approximately \$9,484,810. Each Unit consisted of one Common Share and one-third of one common share purchase warrant (each whole warrant, a "**Warrant**"), and each Warrant entitled the holder to acquire one Common Share at an exercise price of \$1.20 until February 16, 2019 (the "**Expiry Date**"). As a result of the Private Placement, a total of 10,264,946 Common Shares and a total of 3,421,648 Warrants were issued to AGV.

In February 2019, NXT and AGV, which is now one of the Company's largest Shareholders, entered into a Co-operative Agreement (the "**AGV Co-operative Agreement**") which provides that the Company will conduct up to three SFD[®] surveys within the next two years. The AGV Co-operative Agreement is based on a cost plus formula and a gross overriding royalty interest in oil and gas production arising on lands subject to the surveys.

The fees payable by AGV are partially secured by a US\$200,000 non-refundable deposit, of which US\$100,000 was received in May 2019. As part of the consideration for the AGV Co-operative Agreement, NXT management has agreed to seek approval from the Shareholders for a 12-month extension of the Expiry Date of the 3,421,648 Warrants acquired by AGV in connection with the Private Placement (the "**Extension**").

Additional information can be found below under the heading "*Interest of Informed Persons in Material Transactions*".

Shareholder Approval

Shareholders are being asked to approve the Extension by way of resolution substantially in the form attached hereto as Schedule "A" (the "**Warrant Extension Resolution**"). The Warrant Extension Resolution must be passed by a simple majority of 50% plus one of the votes properly cast by disinterested Shareholders voting in present or by proxy at the Meeting. Any votes attached to the Common Shares currently held by AGV and its affiliates and associates (as interested shareholders) will be excluded from the calculation of such approval. Assuming the following remains true as of the date of the Meeting, the only votes to be excluded will be those held by partners of AGV as, to the Company's knowledge, there are no other Shareholders who are a "related party" to AGV, nor any persons acting jointly or in concert with AGV at this time. As of the date hereof, AGV holds 10,264,946 Common Shares.

Until the Extension is approved by the Shareholders at the Meeting, the Warrants are not exercisable by AGV. If the Extension is not approved, the Warrants will terminate.

Recommendation of the Board

The Board has reviewed and considered the Extension and, after undertaking such a review, the Board unanimously resolved to approve the Extension.

- **Unless otherwise directed, it is the intention of management of the Company to vote proxies IN FAVOUR of the Warrant Extension Resolution, substantially in the form attached hereto as Schedule "A".**

Unallocated Options Resolution

Background

The rules of the Toronto Stock Exchange (the "TSX") require all unallocated entitlements under a security-based compensation arrangement without a fixed maximum number of securities issuable thereunder, such as the Company's Amended and Restated Stock Option Plan (the "**Option Plan**"), be approved by that company's security holders every three years. Unallocated entitlements are those securities that are available for grant in accordance with the stated maximums of a particular plan, but have not yet been granted.

Shareholder Approval

Shareholders are being asked to approve the unallocated options to purchase Common Shares ("**Options**") under the Option Plan by way of resolution substantially in the form attached hereto as Schedule "B" (the "**Unallocated Options Resolution**"). A comprehensive description of the Option Plan is attached as Schedule "D", and the Option Plan in its entirety is attached as Schedule "E". Additional information can be found below under the heading "*Securities Authorized for Issuance under Equity Compensation Plans*".

The Unallocated Options Resolution must be passed by a simple majority of 50% plus one of the votes properly cast by the Shareholders voting in present or by proxy at the Meeting. If approval is obtained at the Meeting, the Company will not be required to seek further approval of unallocated Options until June 25, 2022 (being three years from the date of the Meeting). If approval is not obtained at the Meeting, Options which were not allocated as of March 22, 2019 (being the third anniversary of the Company becoming admitted to the TSX and the approval of the Option Plan) will not be available again for grant. Similarly, allocated Options which were outstanding as of March 22, 2019 and subsequently cancelled, terminated or exercised will not be available again for grant. Previously allocated Options which are not cancelled, terminated or exercised will continue unaffected by the approval or disapproval of the Unallocated Options Resolution.

Recommendation of the Board

The Board has reviewed and considered the unallocated Options under the Option Plan, and, after undertaking such a review, unanimously resolved to approve the unallocated Options.

- **Unless otherwise directed, it is the intention of management of the Company to vote proxies IN FAVOUR of the Unallocated Options Resolution, substantially in the form attached hereto as Schedule "B".**

Deferred Share Unit Plan Resolution

Background

On May 10, 2019, the Board approved and adopted, subject to approval by the TSX and the Shareholders, a new Deferred Share Unit Plan (the "**DSU Plan**"). The DSU Plan is a long-term incentive plan that permits the grant of deferred share units ("**DSUs**") to qualified directors, as determined by the Board in its absolute discretion (collectively, the "**Designated Participants**"). Designated Participants are required to elect (in respect of each calendar year) the amount of the aggregate annual retainer or fee to be received in the form of DSUs, cash, Common Shares purchased on the secondary market, or a combination thereof, subject to requirements imposed by the Board to receive a specified

minimum value of his or her annual retainer or fee in the form of DSUs. DSUs granted under the DSU Plan are to be settled at the election of the Board in cash, Common Shares issued from treasury (subject to Shareholder approval of unallocated entitlements thereunder every three years thereafter), or, at the election of the Board, or a combination of cash and Common Shares.

The DSU Plan constitutes a security based compensation arrangement, which under TSX rules require approval (when instituted) by a majority of the Board and Shareholders. At the Meeting, Shareholders will be asked to approve the DSU Plan and all unallocated entitlements under the DSU Plan. Under the DSU Plan, the number of Common Shares reserved for issuance is subject to the same 'rolling reserve' limit applicable to entitlements under all other NXT's security based compensation arrangements (being the Option Plan and the RSU Plan) of 10% of the total number of issued and outstanding Common Shares, calculated on an undiluted basis.

No awards have been, and no awards will be, granted under the DSU Plan prior to the Shareholders approving the DSU Plan.

Shareholder Approval

Shareholders are being asked to approve resolutions approving and ratifying the DSU Plan (the "**Deferred Share Unit Plan Resolution**"), as set forth in Schedule "C". A comprehensive description of the DSU Plan is attached as Schedule "F", and the DSU Plan in its entirety is attached as Schedule "G". Additional information can be found below under the heading "*Securities Authorized for Issuance under Equity Compensation Plans*".

The Deferred Share Unit Plan Resolution must be passed by a simple majority of 50% plus one of the votes properly cast by the Shareholders voting in present or by proxy at the Meeting. If approval is obtained at the Meeting, the Company will not be required to seek further approval for the grant of unallocated DSUs until June 25, 2022 (being three years from the date of the Meeting). If approval is not obtained at the Meeting, the DSU Plan will not be implemented and no awards will be made thereunder.

Recommendation of the Board

The Board has reviewed and considered the Deferred Share Unit Plan, and, after undertaking such a review, unanimously resolved to approve and adopt the Deferred Share Unit Plan.

- **Unless otherwise directed, it is the intention of management of the Company to vote proxies IN FAVOUR of the Deferred Share Unit Plan Resolution, substantially in the form attached hereto as Schedule "C".**

INTEREST OF CERTAIN PERSONS OR COMPANIES IN MATTERS TO BE ACTED ON

Management of the Company is not aware of any material interest, direct or indirect, by way of beneficial ownership of Common Shares or otherwise, of any director or executive officer of the Company who has held office as such since the beginning of the Company's last financial year, any proposed nominee for election as director, or any associate or affiliate of any of the foregoing, in any matter to be acted on at the Meeting other than the election of directors, the approval of the Warrant Extension Resolution, the approval of the Unallocated Options Resolution, and the approval of the Deferred Share Unit Plan Resolution. Additional information can be found above under the heading "*Particulars of Matters to be Acted Upon*".

INFORMATION ON THE BOARD AND DIRECTOR NOMINEES

Director Nominees

Name and Municipality of Residence	Office(s) Currently Held	Principal Occupation or Employment for the Last Five Years	# of Shares Beneficially Owned ⁽¹⁾	Year became a Director
George Liszicasz	Chairman, Chief	Mr. Liszicasz is the inventor of the SFD [®] technology and has been Chairman and Chief Executive Officer since the Company's	15,820,617 Common Shares	1996

Name and Municipality of Residence	Office(s) Currently Held	Principal Occupation or Employment for the Last Five Years	# of Shares Beneficially Owned ⁽¹⁾	Year became a Director
Calgary, AB Canada	Executive Officer, President and Director	inception in 1996. Mr. Liszicasz' primary responsibilities, as the President and CEO, are to oversee all operations and to further develop the SFD [®] technology. He holds an Electronics Engineer degree from the Landler Jenő Technitken in Hungary in 1973 and studied general sciences at the University of British Columbia between 1979 and 1983. Mr. Liszicasz has extensive R&D body of work with various technologies, and 52 inventions.		
Charles Selby Calgary, AB Canada	Director ^{2,3,5,6}	Mr. Selby holds a B. Sc. (Hons) in Chemical Engineering, a J.D. degree and is a registered Professional Engineer in the Province of Alberta. He previously practiced law for two large Canadian law firms, specializing in securities and corporate finance matters. Since leaving the practice of law, Mr. Selby was a Vice President of Pengrowth Corporation for almost 20 years. He also has served on the board and in management of a number of reporting issuers including Arakis Energy, which has operations in the Sudan, and other issuers in the oil and natural gas industry. He is currently the Chairman and CEO of Montana Exploration Corp. (formerly AltaCanada Energy Corp.), an oil and gas company, and is the president of Caledonian Royalty Corporation, Caledonian Global Corporation and Caledonian Midstream Corporation, private entities which are involved in oil & gas production and the midstream business. Mr. Selby is the Lead Director of NXT. He is also Chair of NXT's Compensation Committee and a member of the Audit, Disclosure, and Strategic Planning Committees. Mr. Selby also served as the Company's Interim Chief Financial Officer from December, 2017 to January, 2018.	408,161 Common Shares	2006
Thomas E. Valentine Calgary, AB Canada	Director ^{3,4}	Mr. Valentine is a Partner with Norton Rose Fulbright Canada LLP, where he has practiced law, both as a Barrister and a Solicitor, since his call to the Bar in 1987. He is a member of the firm's Energy and Infrastructure Practice Group and is involved in energy and energy related matters throughout the Middle East, North Africa, the CIS, Asia and South America. Mr. Valentine is a member of the Board of Directors of Touchstone Exploration Inc., and formerly was a director of two other Canadian public companies, Calvalley Petroleum Inc. (to May 2015) and Veraz Petroleum Ltd. Mr. Valentine holds a BA from the University of British Columbia, a LLB from Dalhousie University, and a LL.M. from the London School of Economics. Mr. Valentine is the Chair of the Board's Governance Committee and a member of the Compensation Committee.	NIL	2007
John Tilson Montecito, CA USA	Director ^{2,3,4,6}	Mr. Tilson is retired, and after obtaining MBA and CFA designations, had a distinguished career as an analyst, portfolio manager, and advisor in the US investment and financial industry with such firms as Sutro & Company and EF Hutton & Company. Mr. Tilson joined Roger Engemann and Associates in 1983 when assets under management were roughly US\$160 million. During his tenure there, the Pasadena Group of Mutual Funds was started, with Pasadena Capital Company formed as the holding company for the mutual funds and investment management business. After working as an analyst and portfolio manager, John later became Executive Vice President & Managing Director of Pasadena Capital Company. Assets under management had grown to over US\$5 billion by the time the firm was sold to Phoenix Companies in 1997. Mr. Tilson later retired in 2005.	2,811,748 Common Shares	2015

Name and Municipality of Residence	Office(s) Currently Held	Principal Occupation or Employment for the Last Five Years	# of Shares Beneficially Owned ⁽¹⁾	Year became a Director
Bruce G. Wilcox New York, NY USA	Director ^{2,4,5,6}	<p>From 2006 to 2012 Mr. Tilson was a member of the Board of Trustees, including three years serving as VP and Chairman of the long-range planning committee, for Lotusland, a Santa Barbara non-profit organization established by Madame Ganna Walska.</p> <p>Mr. Tilson is the Chair of the Board's Strategic Planning Committee, and a member of the Compensation, Governance and Audit Committees.</p> <p>Mr. Wilcox has had a long career as an investment company CEO, analyst and portfolio manager. He spent most of his career with Cumberland Associates, LLC, a New York equity fund, from 1986 through retirement in 2010, progressing from analyst / portfolio manager to partner, and Chairman of the Management Committee. Mr. Wilcox specialized in Cumberland's investments in the energy industry (E&P and service companies), with an emphasis on value and long-term holdings. During his tenure, the fund's assets under management ranged from US\$0.7 to \$1.5 billion.</p> <p>From 1984 to 1986, Mr. Wilcox was with Central National-Gottesman, Inc. as an analyst and portfolio manager on a team responsible for a \$500 million listed equity portfolio.</p> <p>Mr. Wilcox is presently CEO of E Street Management, LLC which manages a long/short equity fund of funds. He is also one of the managing members of Xiling Fund III, LLC, part of a series of private equity funds (US\$100+ million) which specialize in investing in museum quality Chinese art and collectibles.</p> <p>Mr. Wilcox obtained a BA (Honors), in Modern Chinese from the University of California, Santa Barbara, and a Master of International Management from the American Graduate School of International Management in Phoenix.</p> <p>Mr. Wilcox is a member of several Boards, including the Teachers College of Colombia University (2003 to date, including acting as the Chair of the Investment Committee), the University of California Santa Barbara Foundation (2003 to date, including as former Chair of the Board, Investment and Finance Committees), and is a Trustee (2001 to date) of the Manhattan Institute For Policy Research, a leading urban, state, and national policy institution, which works on matters such as energy policy.</p> <p>Mr. Wilcox is the chair of the Board's Audit Committee and a member of the Disclosure, Governance and Strategic Planning Committees.</p>	215,253 Common Shares	2015

Notes:

- (1) The information as to shares beneficially owned as at the date of this Information Circular, not being within the knowledge of the Company, has been obtained from information provided by the directors to the Company.
- (2) Member of the Audit Committee.
- (3) Member of the Compensation Committee.
- (4) Member of the Corporate Governance Committee.
- (5) Member of the Disclosure Committee.
- (6) Member of the Strategic Planning Committee.

Corporate Cease Trade Orders or Bankruptcies

Except as noted below, no proposed director has, within the 10 years prior to the date of this Information Circular:

- been a director, chief executive officer or chief financial officer of any reporting issuer that was subject to a cease trade or similar order or an order that denied the relevant company access to any exemption under securities legislation for a period of more than 30 consecutive days that was issued: (i) while the proposed director was acting in the capacity as director chief executive officer or chief financial officer; or (ii) after the proposed director ceased to be a director, chief executive officer or chief financial officer and which

resulted from an event that occurred while that person was acting in the capacity as director, chief executive officer or chief financial officer;

- been a director, chief executive officer or chief financial officer of any reporting issuer that, while that person was acting in that capacity, or within a year of that person ceasing to act in that capacity, became bankrupt, made a proposal under any legislation relating to bankruptcy or insolvency or was subject to or instituted any proceedings, arrangement or compromise with creditors or had a receiver, receiver manager or trustee appointed to hold its assets; or
- become bankrupt, made a proposal under any legislation relating to bankruptcy or insolvency, or become subject to or instituted any proceedings, arrangement or compromise with creditors, or had a receiver, receiver manager or trustee appointed to hold the assets of the proposed director.

Charles Selby was previously a member of the board of directors of Wellpoint Systems Inc. ("**Wellpoint**", a reporting issuer on the TSX Venture Exchange), which in 2011 had a Receiver appointed by the Court of Queen's Bench of the Province of Alberta on behalf of the holders of secured debts. Wellpoint was subsequently wound up following a restructuring and sale of its operating assets. Charles Selby was previously a member of the board of directors of Idaho Natural Resources Corp., which was cease-traded by the TSX Venture Exchange in December 2012 for failing to meet listing requirements.

A cease trade order has been issued by the Alberta Securities Commission on May 4, 2018 against Montana Exploration Corp. ("**MEC**") for failing to file its annual audited financial statements, annual management's discussion and analysis and certification of annual filings within the required time period. Charles Selby is the Chief Executive Officer of MEC. The TSX Venture Exchange has announced that upon revocation of the cease trade order, trading of MEC's shares will remain suspended until MEC meets TSX Venture Exchange requirements.

Messrs. Tilson, Valentine, and Wilcox are considered "independent" within the meaning of Canadian securities law.

Penalties or Sanctions

None of the proposed directors or officers of the Company have, within the 10 years prior to the date of this Information Circular, been subject to any penalties or sanctions imposed by a court or a securities regulatory authority relating to trading in securities, promotion or management of a publicly traded issuer, or theft or fraud.

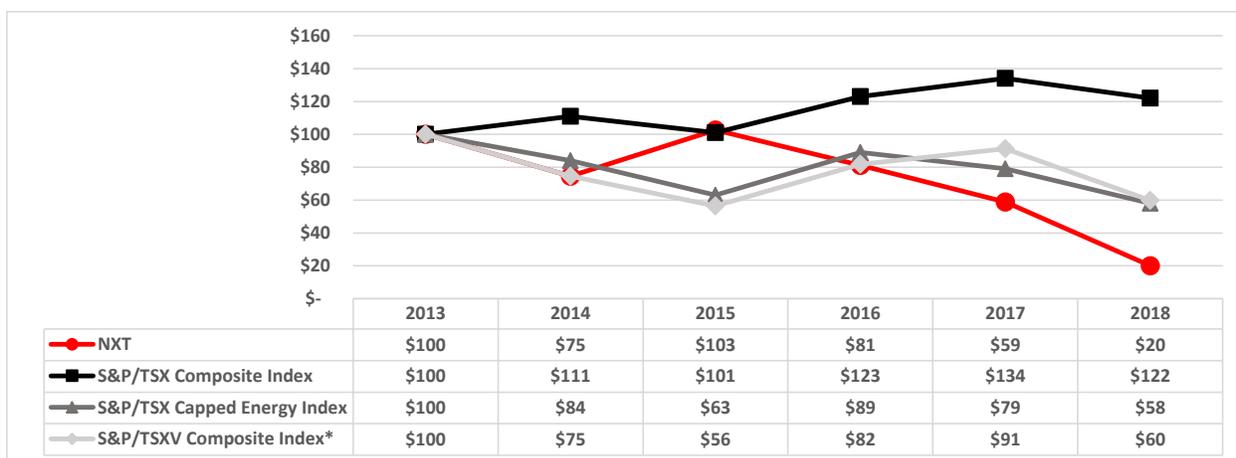
EXECUTIVE COMPENSATION

Compensation Discussion and Analysis

This disclosure is intended to communicate the compensation provided to (i) the Chief Executive Officer as at December 31, 2018, (ii) the Chief Financial Officer as at December 31, 2018, and (iii) the three most highly compensated executive officers of the Company (or individuals acting in a similar capacity) whose total compensation exceeded \$150,000 for the year ended December 31, 2018 (together with the Chief Executive Officer and the Chief Financial Officer, the "**Named Executive Officers**" or "**NEOs**"). Disclosure is also provided with respect to individuals who qualified as a NEO at some point during the 2018 fiscal year but were not a NEO as at December 31, 2018.

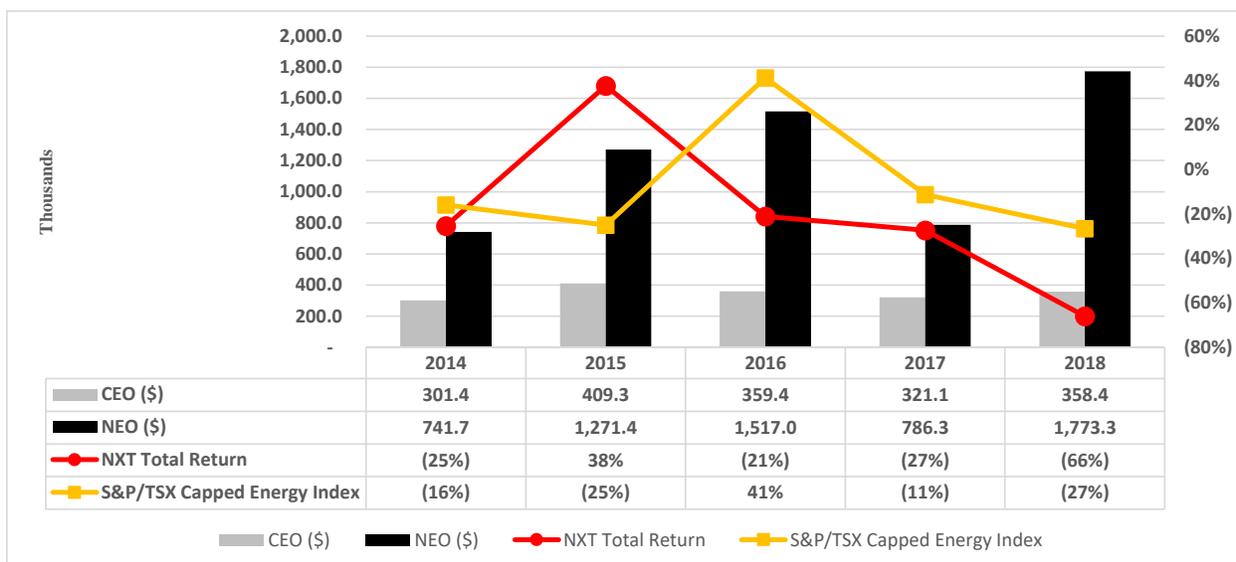
Total Return Performance Graph

This following graph compares the Common Share price performance of the Company over the five-year period ending December 31, 2018, to the S&P/TSX Composite Index, the S&P/TSX Capped Energy Index and S&P/TSX Venture Composite Index, each starting with an investment of \$100 at the end of 2013 excluding reinvestment of dividends.



*Does not include reinvested dividends.

Named Executive Officer Compensation Trends



Note:

- (1) Compensation paid to NEOs includes termination payments.
- (2) NEO's include the CEO.

In the five year period ending December 31, 2018, the Company only paid performance bonuses to its executive officers during 2015 when the Company had profitable operations. Option awards were also granted at that time. Options granted at other times to NEOs were for initial incentive grants at the beginning of their employment, or for Board fees.

Compensation Committee

- (i) Composition of the Compensation Committee

Messrs. Selby (Chair), and Tilson and Valentine are members of the Compensation Committee. Messrs. Tilson and Valentine are independent. The charter or mandate of the Compensation Committee is posted on the Company website

and may viewed at www.nxtenergy.com or you may request a copy be mailed to you by writing to our offices at 302, 3320 – 17th Avenue SW, Calgary, Alberta, Canada, T3E 0B4.

(ii) Responsibilities of the Compensation Committee

The Compensation Committee's duties, as outlined in its charter, are to deal with the assessment of management and succession to key positions and compensation within the Company. The Compensation Committee shall assist the Board in discharging the Board's oversight responsibilities relating to the compensation and retention of key senior management employees, and in particular the CEO, with the skills and expertise needed to enable the Company to achieve its goals and strategies at fair and competitive compensation and appropriate performance incentives. In discharging its responsibilities, the Compensation Committee will report and where appropriate, make recommendations to the Board in respect of the matters identified in the charter.

Compensation of executive officers of the Company, including the NEOs, is recommended to the Board by the Compensation Committee. During the most recently completed fiscal year, the Compensation Committee was comprised of three directors, being Charles Selby (Chairman), John Tilson and Thomas E. Valentine. Mr. Tilson and Mr. Valentine are "independent" as that term is defined in National Instrument 58-101 *Disclosure of Corporate Governance Practices* ("**NI 58-101**"). The Board, as a whole, reviews the recommendations of the Compensation Committee.

All members of the Compensation Committee have expertise and extensive experience in compensation, governance and other human resource areas through their roles with other publicly listed companies, as discussed in further detail under the heading "*Corporate Governance – Compensation Committee*".

The Board has adopted a formal mandate for the Compensation Committee, which provides that the Compensation Committee is responsible for reviewing and approving the compensation of the directors and officers of the Company. The Compensation Committee also reviews and approves changes to the Company's compensation policies and approves the hiring of executive management recruited from outside the Company.

The Company did not retain an independent compensation advisor for the year ended December 31, 2018 or to date in 2019.

Compensation Philosophy and Objectives

The Company's executive compensation program is intended to attract, motivate and retain high performing senior executives, encourage and reward superior performance and align management's interest with those of the Shareholders. This is accomplished by providing the opportunity for total compensation that is competitive with the compensation received by a group of comparable companies, by ensuring that a significant proportion of executive compensation is linked to performance and by providing executives with equity-based incentive plans, including the Option Plan and the Company's Restricted Share Unit Plan ("**RSU Plan**").

The pay philosophy of the Company incorporates a strong pay-for-performance approach by providing competitive cash compensation and benefits with upside potential that is linked directly to shareholder value creation. In general, the Company attempts to provide competitive pay (market averages) for achieving target or expected performance, with additional bonus amounts payable when the Company has achieved superior performance results when compared to its business plan as approved by the Board.

The Company does not believe that its compensation programs encourage excessive or inappropriate risk taking as the Company's employees receive both fixed and variable compensation which allows employees to focus on both the Company's business both in the immediate future and in the long-term.

Compensation Elements

The executive compensation program is comprised of fixed and variable components and covers four elements:

- (i) a base salary;
- (ii) non-equity incentives, consisting of a cash bonus linked to corporate and individual performance;

- (iii) equity incentives, comprised of Options granted pursuant to the Option Plan and restricted share units ("**RSUs**") granted pursuant to the RSU Plan; and
- (iv) other elements of compensation, including benefits and other perquisites.

Each compensation component has a different function, but all elements work in concert to maximize individual and overall performance by establishing specific, competitive operational and financial goals and by providing financial incentives to employees based on their level of achievement of these goals.

(i) Base Salary

The objective of base salary is to provide a fixed level of cash compensation for performing day-to-day responsibilities. In setting base salaries, the Company strives to be competitive with the oil and gas service industry but the size of the Company prohibits base salary compensation from matching larger industry competitors. Consideration is also given to objective factors, including level of responsibility, experience and expertise and to subjective factors, such as leadership, commitment and attitude.

(ii) Cash Bonus Plan

Cash bonuses are intended to reflect actual performance in a particular fiscal year based on the achievement of objective corporate financial performance measures. The Compensation Committee and the Board have determined cash flow from operations to be the most appropriate objective criteria to use as the benchmark for measuring executive performance. Annual cash flow from operations targets are based on the Company's annual budget as approved by the Board and measurement of actual results against these targets is based on audited financial information. Discretionary or subjective criteria may also be taken into consideration when determining cash bonuses, including the Company's ability to pay such bonuses, individual performance and contributions, and other competitive considerations.

Management also provided the Board with a quarterly sales funnel analysis where management listed potential survey revenue associated with ongoing discussions occurring across a number of countries internationally and risked them to provide a potential revenue figure. None of the potential contract discussions was at a sufficient stage to warrant public disclosure in 2018.

Given the significant uncertainty in the global oil and gas sector caused by the prolonged downturn in commodity prices and capital investment in drilling, production maintenance and growth, the Company considered all potential sources of revenue to be high risk and did not formalize a forecast of positive cash flow from operations in 2018.

As no target had been set and no survey revenue was generated in 2018, no cash bonuses were paid to employees.

(iii) Equity Incentives

The equity incentives of the Company's executive compensation program, namely the Option Plan and the RSU Plan, are designed to:

- recognize and reward the impact of longer-term strategic actions undertaken by management;
- align the interests of the Company's executive and employees with the interests of the Shareholders;
- focus management on developing and successfully implementing the continuing growth strategy of the Company;
- foster the retention of key management personnel; and
- attract talented individuals to the Company.

Option and RSU awards are approved by the Board, based on the recommendations of the Compensation Committee after considering the recommendations of the CEO, with the exception that any awards to the CEO are determined and approved independently of any input from the CEO. In granting new Options and RSUs, consideration is given to:

- the number and terms of Options and RSUs already outstanding on an individual basis;
- the limits imposed by the TSX on the total number of Options and RSUs that may be outstanding;
- the expected impact of the role of the executive on the Company's performance and strategic development; and
- market benchmarking.

(iv) Benefits and Other Perquisites

The Company's executive employee benefit program includes such items as life insurance, disability, medical, dental, health and accident plans, and four weeks of annual paid vacation. These benefits and perquisites are designed to be competitive overall with equivalent positions in the Company's industry.

Summary Compensation Table

The following table sets forth information concerning the total compensation to the NEOs paid during the Company's three most recently completed financial years.

Name and Principal Position	Fiscal Year	Salary (\$)	Fees Earned (\$)⁽¹⁾	Option-based Award Value (\$)	All Other Compensation (\$)⁽²⁾	Total Compensation (\$)
George Liszicasz President & Chief Executive Officer	2018	274,800	35,000	-	48,594	358,394
	2017	274,800	35,000	-	11,294	321,094
	2016	274,800	35,000	-	49,639	359,439
Eugene Woychyshyn⁽³⁾ Corporate Controller & Interim Chief Financial Officer	2018	28,334	-	48,937	198,275	275,546
	2017	-	-	-	14,438	14,438
	2016	-	-	-	-	-
Charles Selby⁽⁴⁾ Former Interim Chief Financial Officer	2018	22,671	30,000	-	27,500	80,171
	2017	22,671	30,000	-	30,000	82,671
	2016	-	30,000	50,190	-	80,190
Jakub Brogowski⁽⁵⁾ Former Chief Financial Officer	2018	206,083	-	623,924	10,305	840,312
	2017	-	-	-	-	-
	2016	-	-	-	-	-
Sajid Sayeed Director of Global Business Development	2018	198,000	-	-	20,834	218,834
	2017	198,000	-	-	-	198,000
	2016	198,000	-	-	-	198,000

Notes:

- (1) Amounts disclosed in the column for "Fees Earned" pertain to compensation for services as a director and include the portion of the elected amounts paid in cash for services earned for the fiscal year ended December 31, 2018.
- (2) Amounts disclosed in the column for "All Other Compensation" pertain to benefits related to standard health and life insurance premiums, car allowances, parking expenses and other miscellaneous compensation paid by the Company on behalf of all eligible employees of the Company. It also includes amounts related to severance pay, consulting fees and any cash payout in the year of unused vacation pay entitlements carried-forward.
- (3) Mr. Woychyshyn was appointed Interim Chief Financial Officer effective as of December 1, 2018. Prior to November 1, 2018 Mr. Woychyshyn was employed by an independent consultant firm and provided services to the Company through that independent consulting firm. Fees paid to that firm in the year ended December 31, 2018 are included in the column for "All Other Compensation".
- (4) Mr. Selby was Interim Chief Financial Officer from December 2017 to January 2018.
- (5) Mr. Brogowski was Chief Financial Officer from February 1, 2018 to November 30, 2018. Amounts listed for Mr. Brogowski represent compensation received during such time.

Incentive Plan Awards

Outstanding Share-based Awards and Option-based Awards

The following table lists the number of securities underlying unexercised Options that have been granted to each of the NEOs and the net benefit of their "in-the-money" Options as at December 31, 2018. The number of securities underlying outstanding unexercised Options listed in the table below includes unvested Options, the value of which could not be realized by the NEO as at December 31, 2018. There were no RSUs issued or outstanding at December 31, 2018.

Name	Option-based Awards			
	Number of Securities Underlying Unexercised Options (#)	Option Exercise Price (\$)	Option Expiration Date	Value of Unexercised in-the-money Options (\$) ⁽¹⁾
George Liszicasz	7,500	1.39	Jul 9, 2019	-
	7,500	1.35	Jan 9, 2020	-
Eugene Woychyshyn	150,000	0.59	Nov 1, 2023	-
Charles Selby	7,500	1.39	Jul 9, 2019	-
	7,500	1.35	Jan 9, 2020	-
	50,000	1.50	Jul 22, 2021	-
Sajid Sayeed	150,000	1.67	Nov 11, 2019	-
	30,000	1.82	Oct 20, 2020	-

Note:

- (1) The aggregate dollar amount of any "in-the-money" unexercised Options (including any unvested portions) held as at December 31, 2018 is calculated based on the difference between the exercise price of the Options and \$0.37, which was the closing trading price of the Common Shares on the TSX on December 31, 2018, the last day of trading of the year.

Value Vested During the Year

The following table sets forth, for each NEO, the intrinsic (or "in-the-money") value as at the vesting date on all security-based awards that vested during the financial year ended December 31, 2018:

Name	Option-based Awards – Value Vested during the Year (\$) ⁽¹⁾	Share-based Awards – Value Vested during the Year (\$) ⁽²⁾	Non-equity Plan Compensation – Value Earned during the Year (\$) ⁽³⁾
George Liszicasz	-	-	-
Eugene Woychyshyn	-	-	-
Charles Selby	-	-	-
Jakub Brogowski	-	-	-
Sajid Sayeed	-	-	-

Notes:

- (1) Amounts disclosed in the column for "Option-based Awards – Value Vested during the Year" represent the aggregate dollar value that would have been realized if any Options were in-the-money as at the vesting date, and if they had been exercised on the vesting date, based on the difference between the closing price of the Common Shares on the vesting date and the exercise price of those Options.
- (2) Amounts disclosed in the column for "Share-based Awards – Value Vested during the Year" represent the aggregate dollar value of the RSUs and DSUs as at the vesting date. No RSUs had been granted as at December 31, 2018 and the DSU Plan was not yet approved by the Board or the Shareholders.
- (3) The Company's non-equity plan compensation reflects annual bonus amounts earned in the year, and payable in cash.

Narrative Discussion of Incentive Plans

Other than the Option Plan, the RSU Plan, and the Cash Bonus Plan, the details of which are provided under the headings "*Executive Compensation – Compensation Discussion and Analysis*" and "*Securities Authorized for Issuance Under Equity Compensation Plans*", the Company does not have any plans that provide compensation to executives which is intended to serve as an incentive for performance over a period longer than one year.

The Company does not have a policy in place that prohibits its executive officers or directors from purchasing financial instruments which are designed to hedge financial risk related to any equity securities which are granted as part of their compensation program.

Employment Agreements

The Company occasionally enters into employment agreements with the Company's executive officers, with such agreements setting out the principal terms of the employment relationship as between the executive officer and the Company, including the individual's overall role, the expectations of the Company around business practices including confidentiality, ethical behavior and conflict of interest, and financial terms. In addition, the contracts detail any severance payments that may be provided on termination of employment.

Mr. Jakub Brogowski served as Chief Financial Officer of the Company pursuant to an executive employment agreement effective as of February 1, 2018 (the "**Brogowski EEA**"). Mr. Brogowski resigned effective November 30, 2018 at which point the Brogowski EEA was terminated without any settlement obligations being payable by the Company thereunder.

Mr. George Liszicasz serves as President and Chief Executive Officer of the Company pursuant to an executive employment agreement effective as of December 31, 2015 (the "**Liszicasz EEA**").

Pursuant to the terms of the Liszicasz EEA, the employment of Mr. Liszicasz may be terminated by the Company. Upon termination of employment without cause, and any other reason excluding termination with cause, disability, death, or voluntary resignation, Mr. Liszicasz is entitled to receive immediately:

- (i) base salary for 24 months following the date of termination;
- (ii) an amount equal to 50% of any bonuses paid to Mr. Liszicasz for the prior calendar year;
- (iii) declared but unpaid bonuses and any accrued benefits and vacation;
- (iv) accrued or vested rights under the Option Plan and the RSU Plan, subject to compliance and conditions of such plans;
- (v) an amount equal to 10% of the amount calculated pursuant to item (i) above; and
- (vi) if the termination is pursuant to a "Change of Control" all outstanding unvested Options shall immediately accelerate and vest upon the occurrence of the "Change of Control", and Mr. Liszicasz will have 90 days to exercise such options.

The following table sets out the amounts payable by the Company to Mr. Liszicasz under the Liszicasz EEA if Mr. Liszicasz had been terminated by the Company without cause on December 31, 2018:

<u>Name</u>	<u>Cash Portion</u> <u>(\$)</u>	<u>Option Payout Amount</u> <u>(\$)⁽¹⁾</u>	<u>RSU Payout Amount</u> <u>(\$)⁽²⁾</u>
George Liszicasz	625,698	-	-

Notes:

- (1) This amount is equal to the "in-the-money" amount of all Mr. Liszicasz's vested and unvested Options as at December 31, 2018 and is calculated with reference to the difference between the exercise price of Mr. Liszicasz's Options and \$0.37, which was the closing trading price of the Company's Common Shares on the TSX on December 31, 2018, the last day of trading of the year.

- (2) There were no RSUs outstanding as at December 31, 2018.

DIRECTOR COMPENSATION

The annual compensation for directors is currently approved by the Board at least twice per year, and for 2017 included an election by each director, to receive a mix of Options and cash, or 100% of the annual retainer fee in cash. The retainer fee is currently \$30,000 per annum with the Chairman of the Board and the Chair of the Audit Committee receiving an additional \$5,000 per annum for their Chair responsibilities. In addition, each director is eligible to receive Options.

Summary Compensation Table

The following table sets forth all compensation provided to the directors of the Company in the three most recently completed financial years. All board fees were still outstanding at December 31, 2018.

Name ⁽¹⁾	Fiscal Year	Fees Earned (\$) ⁽²⁾	Share-based Awards (\$)	Option-based Awards (\$)	Total Compensation (\$)
John Tilson	2018	30,000	-	-	30,000
	2017	30,000	-	-	30,000
	2016	30,000	-	-	30,000
Thomas E. Valentine	2018	30,000	-	-	30,000
	2017	30,000	-	-	30,000
	2016	30,000	-	-	30,000
Bruce G. Wilcox	2018	35,000	-	-	35,000
	2017	32,500	-	-	32,500
	2016	30,000	-	-	30,000

Notes:

- (1) Information for Messrs. Liszicasz and Selby (the "NEO Directors") is documented under the heading "Executive Compensation".
- (2) Amounts disclosed in the column for "Fees Earned" include the portion of the elected amounts paid in cash for services earned for the fiscal year ended December 31, 2018.

No Options or RSUs were issued to the directors during the fiscal year ended December 31, 2018. The DSU Plan was not approved and adopted by the Board until May 10, 2019, and is subject to approval by the Shareholders at the Meeting.

Incentive Plan Awards

Outstanding Share-based Awards and Option-based Awards

The following table lists the number of securities underlying unexercised Options that have been granted to each of the directors and the net benefit of their "in-the-money" Options as at December 31, 2018. The number of securities underlying outstanding unexercised Options listed in the table below includes unvested Options, the value of which could not be realized by the directors as at December 31, 2018. There were no RSUs or DSUs issued or outstanding at December 31, 2018.

Option-based Awards				
Name⁽¹⁾	Number of Securities Underlying Unexercised Options (#)	Option Exercise Price (\$)	Option Expiration Date	Value of Unexercised in-the-money Options (\$) ⁽²⁾
John Tilson	150,000	2.10	Sep 16, 2020	-
	25,600	1.73	Dec 10, 2020	-
	15,000	1.48	July 14, 2021	-
	15,000	1.45	Dec 21, 2021	-
Thomas E. Valentine	7,500	1.39	Jul 9, 2019	-
	7,500	1.35	Jan 9, 2020	-
	7,500	1.48	July 14, 2021	-
	7,500	1.45	Dec 21, 2021	-
Bruce G. Wilcox	150,000	2.10	Sep 16, 2020	-
	17,000	1.73	Dec 10, 2020	-
	15,000	1.48	Jul 14, 2021	-
	15,000	1.45	Dec 21, 2021	-

Notes:

- (1) Information for the NEO Directors is documented under the heading "*Executive Compensation*".
- (2) The aggregate dollar amount of any "in-the-money" unexercised Options (including any unvested portions) held at December 31, 2018 is calculated based on the difference between the exercise price of the Options and \$0.37, which was the closing trading price of the Company's Common Shares on the TSX on December 31, 2018, the last day of trading of the year.

Value Vested During the Year

The following table sets forth, for each director, the intrinsic (or "in-the-money") value as at the vesting date on all security-based awards that vested during the financial year ended December 31, 2018:

Name⁽¹⁾	Option-based Awards – Value Vested during the Year (\$) ⁽²⁾	Share-based Awards – Value Vested during the Year (\$) ⁽³⁾
John Tilson	-	-
Thomas E. Valentine	-	-
Bruce G. Wilcox	-	-

Notes:

- (1) Information for the NEO Directors is documented under the heading "*Executive Compensation*".
- (1) Amounts disclosed in the column for "Option-based Awards – Value Vested during the Year" represent the aggregate dollar value that would have been realized if any Options were in-the-money as at the vesting date, and if they had been exercised on the vesting date, based on the difference between the closing price of the Common Shares on the vesting date and the exercise price of those Options.
- (2) Amounts disclosed in the column for "Share-based Awards – Value Vested during the Year" represent the aggregate dollar value of the RSUs and DSUs as at the vesting date. No RSUs had been granted as at December 31, 2018 and the DSU Plan was not yet approved by the Board or the Shareholders.

SECURITIES AUTHORIZED FOR ISSUANCE UNDER EQUITY COMPENSATION PLANS

As discussed above, the Company has three security-based compensation arrangements: (i) the Option Plan, last approved by the Shareholders on June 4, 2016, (ii) the RSU Plan, approved by the Shareholders on June 21, 2017, and (iii) the DSU Plan which approved and adopted by the Board on May 10, 2019, subject to Shareholder approval at the Meeting. The aggregate number of Common Shares reserved for issuance under the Option Plan, the RSU Plan and

the DSU Plan, if approved, shall not exceed 10% of the total number of issued and outstanding Common Shares (calculated on a non-diluted basis) from time to time.

As at December 31, 2018, there were 68,573,558 Common Shares issued and outstanding, an aggregate of 6,857,355 securities available for issuance under the Company's equity compensation plans, 1,297,000 securities issued and outstanding under the Company's equity compensation plans (representing approximately 1.9% of the total number of issued and outstanding Common Shares) and 5,260,355 securities remaining available for issuance (representing approximately 8.1% of the total number of issued and outstanding Common Shares).

Plan Category	Number of Securities to be Issued upon Exercise of Outstanding Options, Warrants and Rights	Weighted-average Exercise Price of Outstanding Options, Warrants and Rights	Number of Securities Remaining Available for Issuance under Equity Compensation Plans
Equity compensation plans approved by security holders	1,297,000 Common Shares	\$1.58	5,560,355
Equity compensation plans not approved by security holders	Nil	Nil	Nil
Total	1,297,000 Common Shares	\$1.58	5,560,355

As at the date of this Information Circular, the number of issued and outstanding Common Shares and the total number of securities available of issuance under the Company's equity compensation plans had not changed but 25,000 previously issued Options had expired in February 2019, leaving 1,272,000 securities issued and outstanding under the Company's equity compensation plans (representing approximately 1.9% of the total number of issued and outstanding Common Shares) and 5,585,355 securities remaining available for issuance (representing approximately 8.1% of the total number of issued and outstanding Common Shares). No RSU or DSU awards have been granted.

The burn rate shows how rapidly a company is utilizing shares reserved for equity compensation plans. It is calculated by dividing the number of share awards granted in a given year by the weighted average issued and outstanding shares of the Company for the same year. The following table summarizes the Company's three year annual and three year average burn rate as at December 31 of the applicable year.

Fiscal Year	Options Granted (#)	RSUs Granted (#)⁽¹⁾	DSUs Granted (#)⁽²⁾	Basic Weighted Average of Issued and Outstanding Common Shares as at December 31 (#)	Burn Rate			
					Options	RSUs	DSUs	Total
2018	1,150,000	-	N/A	68,573,558	1.76%	0.00%	N/A	1.76%
2017	-	-	N/A	54,523,113	0.00%	0.00%	N/A	0.00%
2016	475,000	N/A	N/A	53,526,155	0.89%	N/A	N/A	0.89%
Average 3-year Burn Rate					0.88%	0.00%	N/A	0.88%

Notes:

- (1) The RSU Plan was first approved by the Shareholders on June 21, 2017.
- (2) The DSU Plan was approved and adopted by the Board on May 10, 2019 and is subject to approval by the Shareholders at the Meeting.

INDEBTEDNESS OF DIRECTORS AND EXECUTIVE OFFICERS

As of the date hereof, no director or officer of the Company, or any associate of any director or officer is or has been indebted, on a net basis, to the Company at any time during the last completed financial year.

INTEREST OF INFORMED PERSONS IN MATERIAL TRANSACTIONS

Except as noted herein, to the knowledge of the Board and executive officers of the Company, no "informed person" (as defined in NI 51-102), proposed director, or associate or affiliate of any informed person or proposed director had

a material interests, direct or indirect, in any transaction since the commencement of the Company's most recently completed financial year or in any proposed transaction which has materially affected or would materially affect the Company.

The Company and AGV have entered into the AGV Co-operative Agreement pursuant to which the Company will conduct up to three SFD[®] surveys within the next two years, including two surveys in North America and one internationally. The Co-operative Agreement is based on a cost plus formula and a gross overriding royalty interest in oil and gas production arising on lands subject to the surveys. The first survey is to be completed by August 31, 2019 and the fees payable by AGV are partially secured by a US\$200,000 non-refundable deposit, of which US\$100,000 was received in May 2019. AGV has committed to completing an exploratory drilling program on each of the lands subject to the surveys within two years of completion thereof.

As part of the consideration for the AGV Co-operative Agreement, the Company has agreed to seek approval to a 12-month extension of the expiry date of the Warrants held by AGV.

The Company has also entered into a Sales Representative Agreement with AGV in nine jurisdictions in the Middle East and Latin America. These are jurisdictions in which AGV and its affiliates have long-standing business relationships in the oil and gas service sector. Contingent on achieving a US\$2,000,000 sales quota in the first year of the Sales Representative Agreement term, AGV will be granted an at-market subscription right to purchase Common Shares in a dollar amount equal to 25% of the contracts introduced by AGV to NXT in the first year of the Sales Representative Agreement, up to a maximum of US\$5,000,000, subject to TSX approval.

CORPORATE GOVERNANCE

The Company and the Board recognize the importance of corporate governance to the effective management of the Company and to its Shareholders. The Company's approach to significant issues of corporate governance is designed with a view to ensuring that the business and affairs of the Company are effectively managed so as to enhance shareholder value.

The Board and management endorse the need to establish forward-looking governance policies and to continuously evaluate and modify them to ensure their effectiveness.

In accordance with NI 58-101, the Company annually discloses information related to its system of corporate governance, which is detailed in Schedule "H" to this Information Circular.

The Board of Directors held a total of six formal meetings in 2018, which were attended as follows:

	<u># of meetings</u>	<u># attended</u>	<u>% attended</u>
George Liszicasz (Chairman)	6	5	83
Charles Selby	6	6	100
John Tilson	6	6	100
Thomas E. Valentine	6	6	100
Bruce G. Wilcox	6	6	100

Corporate Governance Committee

Composition

Messrs. Valentine (Chair), Wilcox and Tilson are the current members of the Corporate Governance Committee. All members of the Corporate Governance Committee are independent within the meaning of NI 58-101.

Responsibilities

The Corporate Governance Committee's duties, as outlined in its charter, are to deal with the Company's approach to corporate governance and the promotion of compliance with industry and regulatory standards. The Committee is responsible for overseeing and assessing the functioning of the Board and the committees of the Board and for the

development, recommendation to the Board, implementation and assessment of effective corporate governance principles and guidelines. The Committee's responsibilities also include identifying candidates for director and recommending that the Board select qualified director candidates for election at the next annual meeting of shareholders.

Disclosure Committee

Composition

The Disclosure Committee currently consists of Mr. Selby, Mr. Wilcox (Chair) and Mr. Woychyshyn (the Corporate Controller and Interim Chief Financial Officer of the Company).

Responsibilities

The Disclosure Committee duties are to ensure that the Company provides timely, accurate and balanced disclosure of all material information about the Company and to provide fair and equal access to such information. All news releases, including but not limited to releases of material information, are managed by the Disclosure Committee. If the information has been determined by the Disclosure Committee to be material, news releases will be prepared, reviewed and then disseminated through a news-wire service that provides simultaneous service to widespread news services and financial media. Additionally, the Disclosure Committee is responsible for ensuring public disclosure through filing these news releases on SEDAR and EDGAR as well as the Company's website.

Strategic Planning Committee

Composition

Messrs. Tilson (Chair), Wilcox and Selby are the current members of the Strategic Planning Committee. All members of the Strategic Planning Committee except Mr. Selby are independent.

Responsibilities

The Strategic Planning Committee's duties are to set out the long-term goals of the Company and to take an active role in the development and execution of plans to achieve those goals. The Committee participates in establishing priority areas of Company business, assessment of strategic initiatives from Company senior executives with regard to development and implementation control of the Company Strategy and business area specific strategies of the Company. The Committee also makes recommendations regarding the overall organization and management structure including areas where management needs to be strengthened, reviewing the organizational job descriptions and requirements and also procedures for coordination of organizational management and board resources. The Committee is actively involved in the Company's strategic planning process and reviews all materials relating to the strategic plan with management. The Board is responsible for reviewing and approving the strategic plan. At least one board meeting each year is centered on discussing and considering the strategic plan, which takes into account the risks and opportunities of the business. Management must seek the Board's approval for any transaction that would have a significant impact on the strategic plan.

Audit Committee

Composition

For the financial year ended December 31, 2018 and to date in 2019, the Audit Committee has consisted of Messrs. Wilcox (Chair), Tilson and Selby. All members of the Audit Committee except Mr. Selby are independent, and each member is financially literate. The Company's Audit Committee Charter is attached as Schedule "I" to this Information Circular.

All members of the Audit Committee have the educational background and experience that provides them with the knowledge and ability to understand accounting policies and related financial reporting and disclosure issues, in order to fulfill their duties and responsibilities as an Audit Committee member.

- (i) Bruce G. Wilcox

Mr. Wilcox holds a Master of International Management from the American Graduate School of International Management, and has extensive experience in financial statement analysis, through his career serving as an analyst, fund manager and CEO in the investment management industry.

(ii) John Tilson

Mr. Tilson has both MBA and CFA designations, He previously served as an analyst, portfolio manager, and advisor in the US investment and financial industry with such firms as Sutro & Company and EF Hutton & Company and Roger Engemann. After working as an analyst and portfolio manager, Mr. Tilson later became Executive Vice President & Managing Director of Pasadena Capital Company.

(iii) Charles Selby

Mr. Selby is both a lawyer and Professional Engineer, holding B.Sc. (Hons) and JD degrees. He previously practiced law for two large Canadian law firms specializing in securities and corporate finance matters and remains a member of good standing with the Bar. He has served on the board and in management of a number of reporting issuers including Arakis Energy, which has operations in the Sudan, and other issuers in the oil and natural gas industry. He is currently the CEO of Montana Exploration Corp. (formerly AltaCanada Energy Corp.), an oil and gas company listed on the TSX, and is the president of Caledonian Royalty Corporation and Caledonian Global Corporation, both private entities.

Mr. Selby was also formerly the Chairman and CEO of Canadian Star Energy Limited, and was formerly the Chief Financial Officer of AltaCanada Energy Corp. He also formerly served as the Vice President and Corporate Secretary of Pengrowth Corporation, the administrator of Pengrowth Energy Trust. Mr. Selby has previously served on the audit committee and as audit chairman of several reporting issuers.

During the period from December 2017 to January 2018, Mr. Selby assumed some of the duties of the Company's CFO during the time between the departure of the former CFO and the arrival of the new CFO, Mr. Brogowski. NI 52-110 indicates that a director is considered independent if he or she has no material relationship with the issuer. A "material relationship" is a relationship which could, in the view of the issuer's board of directors, be reasonably expected to interfere with the exercise of a director's independent judgement. The Board is of the view that the CFO activities undertaken by Mr. Selby and the compensation paid to him in connection with such activities, did not constitute a material relationship with the Company and the Board continues to have confidence in the independent judgement of Mr. Selby. However, NI 52-110 also provides that despite the views of a board, a person who has been within the last three years an employee or executive officer of the issuer is deemed to have a material relationship with the issuer. The Board does not consider, considering all relevant circumstances, that Mr. Selby did in substance serve as an executive officer of the Company, but the Board nonetheless has determined that, in order to comply with the letter of NI 52-110, it is prudent to consider Mr. Selby to be no longer independent for the purposes of NI 52-110.

As a consequence of this determination, the Company's Audit Committee no longer complies with NI 52-110, which requires audit committees of reporting issuers be comprised of a minimum of three members, each of whom must be independent. In addition, the Company's Compensation Committee also does not meet the corporate governance guidelines recommending that all members of a compensation committee be independent. Mr. Selby has continued to serve on the Audit Committee and Compensation Committee.

Oversight

The Board adopted all recommendations by the Audit Committee with respect to the nomination and compensation of the external auditor.

Pre-Approval Policies and Procedures

The Audit Committee has adopted a formal policy requiring the pre-approval of all audit and non-audit related services to be provided by the Company's principal auditor prior to the commencement of the engagement, subject to the following:

- the Audit Committee will review annually a list of audit, audit related, recurring tax and other non-audit services and recommend pre-approval of those services for the upcoming year. Any additional requests will be addressed on a case-by-case specific engagement basis;
- for engagements not on the pre-approved list, the Audit Committee has delegated to the Chair of the Committee the authority to pre-approve individual non-audit service engagements with expected annual aggregate costs of up to \$50,000 subject to reporting to the Audit Committee, at its next scheduled meeting; and
- for engagements not on the pre-approved list and with expected costs greater than an annual aggregate of \$50,000, the entire Audit Committee must approve this service, generally at its next scheduled meeting.

Nature and Amount of Auditor's Fees

The following table sets out the fees billed to the Company by KPMG LLP and its affiliates for professional services in each of the last two fiscal years ended December 31. During these years, KPMG LLP was the Company's only external auditor.

	2018	2017
Audit fees ⁽¹⁾	\$87,250	\$103,860
Audit related fees – Colombia branch	-	-
Audit related fees – Bolivian branch ⁽²⁾	-	\$9,800
	\$87,250	\$113,660
Tax fees	\$5,510	-
Other Audit Related Fees	\$39,560	\$56,280
Total fees	\$132,320	\$169,940

Notes:

- (1) Includes fees related to reviews of each of the Company's unaudited interim, 3 month quarterly filing period.
- (2) Includes fees related to review of the Company's filing of its' US 20-F Annual Report, Rights Offering and audit fees related to its Colombia branch.

The Audit Committee held a total of four meetings during 2018.

Compensation Committee

Composition

The Compensation Committee currently consists of Messrs. Selby (Chair), Tilson, and Valentine. All members of the Compensation Committee are independent. See "*Compensation Discussion and Analysis*" within this Information Circular for a full discussion of the role of the Compensation Committee.

Responsibilities

The primary responsibilities of the Committee are to recommend to the Board an executive compensation philosophy, a senior management organization and reporting structure, corporate objectives for which the CEO is to be responsible, review the performance of senior officers with the CEO, review and recommend compensation to be paid to senior officers, review and recommend remuneration and benefits to be paid to the directors and review general policies relating to compensation and benefits of our employees.

Compensation for the CEO was determined by the Compensation Committee after considering his efforts in assisting in the development of the Company's business strategy, the salaries of executives in similar positions and the Company's general financial condition. The use of stock options and other awards is intended to strengthen the alignment of interests of executive officers and other key employees with those of the Company's stockholders.

The Compensation Committee members have extensive direct financial and legal experience, including serving on the compensation committees of other public companies, which is relevant to fulfilling their responsibilities related to executive compensation.

Mr. Selby has approximately 20 years of experience in advising a public Canadian company on compensation issues and has served on the compensation committees of the board of directors of other reporting issuers. Mr. Valentine currently serves on the compensation committee of two public companies, and has dealt with compensation and employment law issues for 25 years. Mr. Tilson's career has also given him experience in dealing with compensation related issues.

The Compensation Committee held two meetings in conjunction with NXT Board meetings during 2018.

ADVISORIES

Certain statements contained in this Information Circular constitute "forward-looking statements" or "forward-looking information" within the meaning of applicable securities legislation. These forward-looking statements typically contain terms and phrases such as "anticipate", "believe", "could", "estimate", "expect", "intend", "may", "plan", "predict", "will" or similar words suggesting future outcomes or statements regarding an outlook. Forward-looking statements or information in this document may include, but are not limited to: the fulfilment of the obligations under the AGV Co-operation Agreement including payment by AGV of the deposit and the fees, the completion by NXT of the surveys (and the number and timing thereof), and the completion by AGV of the exploratory drilling program on the surveyed lands (and the timing thereof); and the costs and benefits associated with the Sales Representative Agreement including with respect sales targets (and the achievement and timing thereof) and the granting by NXT of a subscription right to purchase Common Shares as payment (and the size and timing thereof).

Such forward-looking statements or information are based on a number of assumptions, all or any of which may prove to be incorrect. In addition to any other assumptions identified in this document, assumptions have been made regarding, among other things: the ability of NXT to generate sufficient ongoing cash flow from operations or to raise adequate capital to grow the business and continue operations; the ability of NXT and its business partners to conduct operations in international markets; the ability of NXT to obtain regulatory approvals in a timely manner; the availability of suitable aircraft used in conducting NXT's operations; the emergence and availability of alternative competitive technologies; the ability of NXT to protect its intellectual property and rights to its SFD[®] technology; the ability of NXT to retain key personnel; NXT's dependence on a limited number of clients; the extent to which foreign currency and interest rate fluctuations may affect NXT's financial position; and the extent to which volatility in oil and natural gas commodity prices may reduce demand for NXT's services.

Although NXT believes that the expectations reflected in such forward-looking statements or information are reasonable, undue reliance should not be placed on forward-looking statements because NXT can give no assurance that such expectations will prove to be correct. Forward-looking statements or information are based on current expectations, estimates, and projections that involve a number of risks and uncertainties which could cause actual results to differ materially from those anticipated by NXT and described in the forward-looking statements or information. These risks and uncertainties include, but are not limited to potential delays or changes in plans with respect to its surveying projects, the ability of contract counterparties to pay their obligations thereunder, and other risks and uncertainties described elsewhere in this Information Circular or in NXT's other filings with Canadian securities regulatory authorities

The forward-looking statements or information contained in this Information Circular are made as of the date hereof and NXT undertakes no obligation to update publicly or revise any forward-looking statements or information, whether as a result of new information, future events, or otherwise, unless required by applicable securities laws.

ADDITIONAL INFORMATION

Additional information relating to the Company is available on both the Company's website (www.nxtenergy.com) as well on SEDAR (www.sedar.com).

Shareholders may contact Mr. Eugene Woychyshyn, Corporate Controller and Interim Chief Financial Officer (tel: 403-206-0807 or fax: 403-264-6442) to request copies of the Company's financial statements and MD&A. Financial

information is provided in the Company's comparative annual financial statements and MD&A for the Company's most recently completed financial year.

DATED at Calgary, this 10th day of May, 2019.

SCHEDULE "A"
SHAREHOLDER RESOLUTIONS – WARRANT EXTENSION RESOLUTION

WARRANT EXTENSION RESOLUTION

WHEREAS NXT Energy Solutions Inc. (the "**Corporation**") recently completed a private placement (the "**Private Placement**") whereby the Corporation issued Alberta Green Ventures Limited Partnership ("**AGV**") 10,264,946 units of the Corporation (the "**Units**") at a price of \$0.924 per Unit for total gross proceeds of approximately \$9,484,810;

AND WHEREAS each Unit consisted of one common share in the capital of the Corporation (each, a "**Common Share**") and one-third of one common share purchase warrant (each whole warrant, a "**Warrant**");

AND WHEREAS each Warrant entitled the holder to acquire one Common Share at an exercise price of \$1.20 until February 16, 2019 (the "**Expiry Date**");

AND WHEREAS the Corporation subsequently entered into a Co-operative Agreement (the "**AGV Co-operative Agreement**") with AGV and, as part of the consideration for the AGV Co-operative Agreement, the Corporation is seeking approval for a 12-month extension of the Expiry Date of the 3,421,648 Warrants acquired by AGV in connection with the Private Placement (the "**Extension**");

AND WHEREAS AGV is an "insider" of the Corporation, and Section 608(a) of the Toronto Stock Exchange (the "**TSX**") Company Manual stipulates that Extension of the Warrants therefore requires security holder approval;

AND WHEREAS the TSX has confirmed that the Extension must be approved by way of resolution (the "**Warrant Extension Resolution**") passed by a simple majority of 50% plus one of the votes properly cast by disinterested holders of Common Shares voting in present or by proxy at the annual meeting on June 25, 2019 or any postponement or adjournment thereof (the "**Meeting**");

AND WHEREAS the board of directors of the Corporation (the "**Board**") has reviewed and considered the Extension and, after undertaking such a review, the Board unanimously resolved to approve the Extension;

AND WHEREAS further information regarding the Extension can be found in the Information Circular dated May 10, 2019 (the "**Information Circular**") under the heading "*Particulars of Matters to be Acted Upon – Warrant Extension Resolution*";

NOW THEREFORE BE IT RESOLVED THAT the extension of the expiry date of the 3,421,648 Warrants acquired by AGV in connection with the Private Placement be extended from February 16, 2019 to February 16, 2020 is hereby authorized and approved.

SCHEDULE "B"
SHAREHOLDER RESOLUTIONS – UNALLOCATED OPTIONS RESOLUTION

UNALLOCATED OPTIONS RESOLUTION

WHEREAS NXT Energy Solutions Inc. (the "**Corporation**") became listed on the Toronto Stock Exchange (the "**TSX**") on March 22, 2016, and the Corporation's Stock Option Plan (the "**Option Plan**") was approved by the TSX at that time;

AND WHEREAS the Option Plan, as amended at the annual meeting of shareholders held on June 4, 2016, does not have a fixed maximum number of securities issuable thereunder;

AND WHEREAS there are unallocated stock options ("**Options**") under the Option Plan;

AND WHEREAS the rules of the TSX provide that all unallocated stock options, rights or other entitlements under a security-based compensation arrangement which does not have a fixed maximum number of securities issuable, be approved every three (3) years;

NOW THEREFORE BE IT RESOLVED THAT:

- 1 All unallocated Options under the Option Plan are hereby approved.
- 2 The Corporation is hereby authorized to continue granting Options under the Option Plan until June 25, 2022, which is the date that is three (3) years from the date of the annual meeting of shareholders on June 25, 2019.
- 3 Any one director or officer of the Corporation be and is hereby authorized and directed to take all such action, do all such things, enter into, execute, affix the common seal of the Corporation and to deliver or cause to be delivered all such documents, agreements and writings, as he or she may in their sole discretion deem necessary or advisable in order to give full effect to the intent and purpose of this Resolution.

SCHEDULE "C"
SHAREHOLDER RESOLUTIONS – DEFERRED SHARE UNIT PLAN RESOLUTION

DEFERRED SHARE UNIT PLAN RESOLUTION

WHEREAS the board of directors (the "**Board**") of NXT Energy Solutions Inc. (the "**Corporation**") has approved and adopted, subject to approval by the Toronto Stock Exchange (the "**TSX**") and shareholders of the Corporation (the "**Shareholders**"), a Deferred Share Unit Plan (the "**DSU Plan**") governing the issuance of deferred share units of the Corporation to directors of the Corporation and its affiliates;

AND WHEREAS, subject to approval by the TSX having already been obtained, the Shareholders consider it in the best interests of the Corporation to approve the DSU Plan;

NOW THEREFORE BE IT RESOLVED THAT:

- 1 The DSU Plan, substantially as described in the Information Circular of the Corporation dated May 10, 2019 and attached as Schedule "G" thereto, be and is hereby ratified, confirmed and approved.
- 2 All unallocated entitlements under the DSU Plan, as amended or supplemented from time-to-time, are hereby approved and authorized, such approval being effective until no later than June 25, 2022, which is the date that is three (3) years from the date of the annual meeting of shareholders on June 25, 2019.
- 3 Any one director or officer of the Corporation be and is hereby authorized and directed to take all such action, do all such things, enter into, execute, affix the common seal of the Corporation and to deliver or cause to be delivered all such documents, agreements and writings, as he or she may in their sole discretion deem necessary or advisable in order to give full effect to the intent and purpose of this Resolution.

SCHEDULE "D" STOCK OPTION PLAN SUMMARY

The following is a summary of the material provisions of the Stock Option Plan (the "**Option Plan**") of NXT Energy Solutions Inc. (the "**Company**"). This summary does not purport to be complete and is subject to, and qualified in its entirety by reference to, the provisions of the Option Plan, the full text of which is set out in Schedule "E" to the Company's Information Circular dated May 10, 2019.

Purpose

The purpose of the Option Plan is to advance the interests of the Company by encouraging its directors, officers and employees or service providers to acquire common shares in the capital of the Company ("**Common Shares**"), thereby:

- (i) increasing the proprietary interests of such persons in the Company;
- (ii) aligning the interests of such persons with the interests of the shareholders of the Company (the "**Shareholders**") generally;
- (iii) encouraging such persons to remain associated with the Company; and
- (iv) furnishing such persons with an additional incentive and remuneration in their efforts on behalf of the Company.

Eligible Participants

Officers, directors, employees and service providers to the Company are eligible to receive grants of Options under the Option Plan, which is administered by the board of directors of the Company (the "**Board**").

Common Shares Subject to the Option Plan

The aggregate number of Common Shares reserved for issuance under the Option Plan, or any other security-based compensation plan of the Company, shall not exceed 10% of the total number of issued and outstanding Common Shares (calculated on a non-diluted basis) from time to time. The number of Common Shares that may be acquired under an Option granted to a participant shall be determined by the Board as at the time the Option is granted, provided that the aggregate number of Common Shares reserved for issuance to any one participant under the Option Plan or any other plan of the Company, shall not exceed five percent of the total number of issued and outstanding Common Shares (calculated on a non-diluted basis) in any 12 month period (and, in the case of consultants and persons retained to perform investor relation activities, shall not exceed two percent in any 12 month period) unless the Company receives the permission of the stock exchange or exchanges on which the Common Shares are listed to exceed such threshold.

Insider Participation

The maximum number of Common Shares which may be reserved for issuance to "Insiders" (as defined in the TSX Company Manual) under the Option Plan and under all other security-based compensation arrangements of the Company shall be 10% of the total number of Common Shares issued and outstanding. The number of Common Shares issued to Insiders within any one-year period under the Option Plan and under all other security-based compensation arrangements of the Company shall not exceed 10% of the total number of Common Shares issued and outstanding. The issuance to any one Insider (and such Insider's associates) within a one-year period of a number of Common Shares under the Option Plan and under all other security-based compensation arrangements of the Company shall not exceed five percent (5%) of the number of Common Shares issued and outstanding.

Exercise Price

The exercise price of Options granted under the Option Plan shall be fixed by the Board at the time the Option is granted but shall not be less than the five-day volume weighted average of the closing price of the Common Shares

prior to the date of grant, or the market value of the Common Shares at the date of the grant as otherwise calculated in accordance with the rules of the applicable exchange.

Vesting and Term of Options

The period during which Options may be exercised (the "**Option Period**") shall be determined by the Board at the time the Options are granted, subject to any vesting limitations which may be imposed by the Board in its sole, unfettered discretion at the time such Options are granted, provided that:

1. no Option shall be exercisable for a period exceeding five (5) years from the date the Option is granted unless the Company receives the permission of the stock exchange or exchanges on which the Shares are then listed and as specifically provided by the Board, and in any event, no Option shall be exercisable for a period exceeding ten (10) years from the date the Option is granted;
2. no Option in respect of which shareholder approval is required under the rules of any stock exchange or exchanges on which the Common Shares are then listed shall be exercisable until such time as the Option has been approved by the Shareholders;
3. the Board may, subject to the receipt of any necessary regulatory approvals, in its sole discretion, accelerate the time at which any Option may be exercised, in whole or in part; and
4. any Options granted to any Participant must expire within 30 days after the Participant ceases to be a Participant, and within 30 days for any Participant engaged in investor relation activities after such Participant ceases to be employed to provide investor relation activities.

Blackout Periods

A "Blackout Period" designated by NXT shall mean a period of time during which the Option holder cannot exercise an Option, or sell the Shares that are issuable pursuant to the exercise of Options, due to applicable policies of the Company in respect of insider trading. If an Option expires during a Blackout Period, or within 10 business days after the expiry of a Blackout Period applicable to the relevant Option holder, then the revised expiration date for that Option shall be extended to become the tenth business day after the expiry date of the Blackout Period.

Cessation of Entitlement to Options

In the event that a holder of Options who is a director, officer, employee of, or service provider to, the Company ceases to hold such position for any reason other than death or permanent disability, such Options will terminate immediately as to the then unvested portion thereof and at 4:00 p.m. (Calgary time) on the earlier of the date of the expiration of the Option Period and the thirtieth (30th) day after the date such individual ceases to be a director, officer, employee of, or service provider to, the Company as to the then vested portion of the Option.

In the event of the death or permanent disability of an option holder, any Options previously granted to such holder shall be exercisable until the end of the Option Period or until the expiration of 12 months after the date of death or permanent disability of such holder, whichever is earlier, and in the event of death or permanent disability, only: (i) by the person or persons to whom the option holder's rights under the Options shall pass by under the terms of the option holder's will or by applicable law; and (ii) to the extent that the holder was entitled to exercise the Options as at the date of the holder's death or permanent disability.

Transferability

All benefits and rights in Options accruing to any option holder in accordance with the terms and conditions of the Option Plan shall not be transferable or assignable unless specifically provided in the Option Plan. The Company shall not recognize any attempted exercise of any purported assignee of an option holder. During the lifetime of an option holder, any Options granted under the Option Plan may only be exercised by the holder thereof and in the event of the death or permanent disability of an option holder, by the person or persons to whom the option holder's rights under the Options pass by the option holder's will or applicable law.

Amendments

The Board may, at any time, amend, suspend or terminate the Option Plan, or any portion thereof, or any Option granted thereunder, without Shareholder approval, subject to those provisions of applicable law (including, without limitation, the rules, regulations and policies of the TSX), if any, that require the approval of Shareholders or any governmental or regulatory body.

Notwithstanding the foregoing, Shareholder approval will be required for the following types of amendments:

- (a) amendments to the number of Common Shares issuable under the Option Plan, including an increase to a fixed maximum number of Common Shares or a change from a fixed maximum number of Common Shares to a fixed maximum percentage;
- (b) amendments which would result in the exercise price for any Option granted under the Option Plan being lower than the market price of the Common Shares at the time the Option is granted;
- (c) amendments which reduce the exercise price of an Option;
- (d) amendments extending the term of an Option held by an insider beyond its original expiry date except as otherwise permitted by the Option Plan;
- (e) the adoption of any option exchange scheme involving Options; and
- (f) amendments required to be approved by Shareholders under applicable law (including, without limitation, the rules, regulations and policies of the TSX).

Financial Assistance

Financial assistance may only be provided in connection with the exercise of an Option if the Shareholders approve such assistance.

Change of Control

In the event of a sale by the Company of all or substantially all of its assets or in the event of a change of control of the Company, the option holder shall be entitled to exercise in full or in part any unexercised Options previously granted under the Option Plan, whether vested or not, either (i) during the remaining term of the Options or (2) within ninety (90) days after the date of termination of the employment of the option holder with the Company or the cessation or termination of the option holder as a director of, officer of, or service provider to, the Company, whichever first occurs.

SCHEDULE "E"
AMENDED AND RESTATED STOCK OPTION PLAN

1. **The Plan**

A stock option plan (the "**Plan**"), pursuant to which options to purchase common shares, or such other shares as may be substituted therefor ("**Shares**"), in the capital of NXT Energy Solutions Inc. (the "**Corporation**") may be granted to the directors, officers and employees of the Corporation and to consultants retained by the Corporation, is hereby established on the terms and conditions set forth herein.

2. **Purpose**

The purpose of this Plan is to advance the interests of the Corporation by encouraging the directors, officers and employees of the Corporation and consultants retained by the Corporation to acquire Shares, thereby: (i) increasing the proprietary interests of such persons in the Corporation; (ii) aligning the interests of such persons with the interests of the Corporation's shareholders generally; (iii) encouraging such persons to remain associated with the Corporation and (iv) furnishing such persons with an additional incentive in their efforts on behalf of the Corporation.

3. **Administration**

- (a) This Plan shall be administered by the board of directors of the Corporation (the "**Board**").
- (b) Subject to the terms and conditions set forth herein, the Board is authorized to provide for the granting, exercise and method of exercise of Options (as defined in Section 3(d) below), all on such terms (which may vary between Options granted from time to time) as it shall determine. In addition, the Board shall have the authority to: (i) construe and interpret this Plan and all option agreements entered into hereunder; (ii) prescribe, amend and rescind rules and regulations relating to this Plan and (iii) make all other determinations necessary or advisable for the administration of this Plan. All determinations and interpretations made by the Board shall be binding on all Participants (as hereinafter defined) and on their legal, personal representatives and beneficiaries.
- (c) Notwithstanding the foregoing or any other provision contained herein, the Board shall have the right to delegate the administration and operation of this Plan, in whole or in part, to a committee of the Board or to the President or any other officer of the Corporation. Whenever used herein, the term "Board" shall be deemed to include any committee or officer to which the Board has, fully or partially, delegated responsibility and/or authority relating to the Plan or the administration and operation of this Plan pursuant to this Section 3.
- (d) Options to purchase the Shares granted hereunder ("**Options**") shall be evidenced by (i) an agreement, signed on behalf of the Corporation and by the person to whom an Option is granted, which agreement shall be in such form as the Board shall approve, or (ii) a written notice or other instrument, signed by the Corporation, setting forth the material attributes of the Options.

4. **Shares Subject to Plan**

- (a) Subject to Section 16 below, the securities that may be acquired by Participants upon the exercise of Options shall be deemed to be issued as fully paid and non-assessable Shares of the Corporation. Whenever used herein, the term "Shares" shall be deemed to include any other securities that may be acquired by a Participant upon the exercise of an Option the terms of which have been modified in accordance with Section 16 below.
- (b) The aggregate number of Shares reserved for issuance under this Plan, or any other security-based compensation plan of the Corporation, shall not, at the time of the stock option grant, exceed ten percent of the total number of issued and outstanding Shares (calculated on a non-diluted basis) unless the Corporation receives the permission of the stock exchange or exchanges on which the Shares are then listed to exceed such threshold.

- (c) If any Option granted under this Plan shall expire or terminate for any reason without having been exercised in full, any un-purchased Shares to which such Option relates shall be available for the purposes of the granting of Options under this Plan.

5. **Maintenance of Sufficient Capital**

The Corporation shall at all times during the term of this Plan ensure that the number of Shares it is authorized to issue shall be sufficient to satisfy the Corporation's obligations under all outstanding Options granted pursuant to this Plan.

6. **Eligibility and Participation**

- (a) The Board may, in its discretion, select any of the following persons to participate in this Plan:

- (i) directors of the Corporation;
- (ii) officers of the Corporation;
- (iii) employees of the Corporation; and
- (iv) consultants retained by the Corporation, provided such consultants have performed and/or continue to perform services for the Corporation on an ongoing basis or are expected to provide a service of value to the Corporation;

(any such person having been selected for participation in this Plan by the Board is herein referred to as a "**Participant**").

- (b) **Insider Participation Limits**

- (i) The maximum number of Shares which may be reserved for issuance to "**Insiders**" (as defined in the TSX Company Manual) under the Plan and under all other security-based compensation arrangements of the Corporation shall be 10% of the total number of Shares issued and outstanding;
- (ii) The number of Shares issued to Insiders within any one-year period under the Plan and under all other security-based compensation arrangements of the Corporation shall not exceed 10% of the total number of Shares issued and outstanding; and
- (iii) The issuance to any one Insider (and such Insider's associates) within a one-year period of a number of Shares under the Plan and under all other security-based compensation arrangements of the Corporation shall not exceed five percent (5%) of the number of Shares issued and outstanding.

7. **Exercise Price**

The Board shall, at the time an Option is granted under this Plan, fix the exercise price at which Shares may be acquired upon the exercise of such Option provided that such exercise price shall not be less than that from time to time permitted under the rules of any stock exchange or exchanges on which the Shares are then listed.

The exercise price of an Option granted shall not be less than the 5 day volume weighted average of the closing prices of the Shares prior to the date of grant. In addition, the exercise price of an Option must be paid in cash.

8. **Number of Optioned Shares**

The number of Shares that may be acquired under an Option granted to a Participant shall be determined by the Board as at the time the Option is granted, provided that the aggregate number of Shares reserved for issuance to any one Participant under this Plan or any other plan of the Corporation, shall not exceed five percent of the total number of issued and outstanding Shares (calculated on a non-diluted basis) in any 12 month period (and, in the case of consultants and persons retained to perform investor relation activities, shall

not exceed two percent in any 12 month period) unless the Corporation receives the permission of the stock exchange or exchanges on which the Shares are listed to exceed such threshold.

9. **Term**

The period during which an Option may be exercised (the "**Option Period**") shall be determined by the Board at the time the Option is granted, subject to any vesting limitations which may be imposed by the Board in its sole unfettered discretion at the time such Option is granted and Sections 12, 13 and 17 below, provided that:

- (a) no Option shall be exercisable for a period exceeding five (5) years from the date the Option is granted unless the Corporation receives the permission of the stock exchange or exchanges on which the Shares are then listed and as specifically provided by the Board and as permitted under the rules of any stock exchange or exchanges on which the Shares are then listed, and in any event, no Option shall be exercisable for a period exceeding ten (10) years from the date the Option is granted;
- (b) no Option in respect of which shareholder approval is required under the rules of any stock exchange or exchanges on which the Shares are then listed shall be exercisable until such time as the Option has been approved by the shareholders of the Corporation;
- (c) the Board may, subject to the receipt of any necessary regulatory approvals, in its sole discretion, accelerate the time at which any Option may be exercised, in whole or in part; and

any Options granted to any Participant must expire within 30 days after the Participant ceases to be a Participant, and within 30 days for any Participant engaged in investor relation activities after such Participant ceases to be employed to provide investor relation activities.

10. **Blackout Periods**

A "**Blackout Period**" shall mean a period of time during which the Option holder cannot exercise an Option, or sell the Shares that are issuable pursuant to the exercise of Options, due to applicable policies of the Corporation in respect of insider trading.

Notwithstanding anything else contained herein, if the expiration date for an Option occurs during a Blackout Period applicable to the relevant Option holder, or within 10 business days after the expiry of a Blackout Period applicable to the relevant Option holder, then the expiration date for that Option (the "**Blackout Expiry Date**") shall be the date that is the tenth business day after the expiry date of the Blackout Period. This Section 10 applies to all Options outstanding under the Plan, and the Blackout Expiry Date may not be amended without the approval of the holders of the Shares of the Corporation.

11. **Method of Exercise of Option**

- (a) Except as set forth in Sections 12 and 13 below or as otherwise determined by the Board, no Option may be exercised unless the holder of such Option is, at the time the Option is exercised, a director, officer, employee or consultant of the Corporation.
- (b) Options that are otherwise exercisable in accordance with the terms thereof may be exercised in whole or in part from time to time.
- (c) Any Participant (or his legal, personal representative) wishing to exercise an Option shall deliver to the Corporation, at its principal office in the City of Calgary, Alberta:
 - (i) a written notice expressing the intention of such Participant (or his legal, personal representative) to exercise his Option and specifying the number of Shares and exercise price in respect of which the Option is exercised; and
 - (ii) a cash payment, certified cheque or bank draft, representing the full purchase price of the Shares in respect of which the Option is exercised. In connection with the exercise of an Option, the Participant (or his or her heirs or administrators) shall follow the Corporation's procedures and policies relating to the payment or funding of any income tax withholdings applicable to the exercise of the Option, including, where required by the Corporation, the

remittance to the Corporation by the Participant (or his or her heirs or administrators) of an amount of cash sufficient to satisfy any withholding requirements relating to the exercise of the Option.

- (d) Upon the exercise of an Option as aforesaid, the Corporation shall use reasonable efforts to forthwith deliver, or cause the registrar and transfer agent of the Shares to deliver, to the relevant Participant (or his legal, personal representative) or to the order thereof, a certificate representing the aggregate number of fully paid and non-assessable Shares in respect of which the Option has been duly exercised.

12. Ceasing to be a Director, Officer, Employee or Consultant

If any Participant shall cease to hold the position or positions of director, officer, employee or consultant of the Corporation (as the case may be) for any reason other than death or permanent disability, his Option will terminate at 4:00 p.m. (Mountain time) on the earlier of the date of the expiration of the Option Period and 30 days after the date such Participant ceases to hold the position or positions of director, officer, employee or consultant of the Corporation as the case may be, and ceases to actively perform services for the Corporation. An Option granted to a Participant who performs Investor Relations services on behalf of the Corporation shall terminate 30 days after the date of termination of the employment or cessation of services being provided and shall be subject to Exchange policies and procedures for the termination of Options for Investor Relations services. For greater certainty, the termination of any Options held by the Participant, and the period during which the Participant may exercise any Options, shall be without regard to any notice period arising from the Participant's ceasing to hold the position or positions of director, officer, employee or consultant of the Corporation (as the case may be).

Neither the selection of any person as a Participant nor the granting of an Option to any Participant under this Plan shall: (i) confer upon such Participant any right to continue as a director, officer, employee or consultant of the Corporation, as the case may be; or (ii) be construed as a guarantee that the Participant will continue as a director, officer, employee or consultant of the Corporation, as the case may be.

13. Death or Permanent Disability of a Participant

In the event of the death or permanent disability of a Participant, any Option previously granted to him shall be exercisable until the end of the Option Period or until the expiration of 12 months after the date of death or permanent disability of such Participant, whichever is earlier, and then, in the event of death or permanent disability, only:

- (a) by the person or persons to whom the Participant's rights under the Option shall pass under the terms of the Participant's will or by applicable law; and
- (b) to the extent that the Participant was entitled to exercise the Option as at the date of their death or permanent disability.

14. Rights of Participants

No person entitled to exercise any Option granted under this Plan shall have any of the rights or privileges of a shareholder of the Corporation in respect of any Shares issuable upon exercise of such Option until such Shares have been paid for in full and issued to such person.

15. Proceeds from Exercise of Options

The proceeds received by the Corporation from the exercise of Options shall be added to the general funds of the Corporation and shall thereafter be used from time to time for such corporate purposes as the Board may determine and direct.

16. Adjustments

- (a) The number of Shares subject to the Plan shall be increased or decreased proportionately in the event of the subdivision or consolidation of the outstanding Shares of the Corporation, and in any such event a corresponding adjustment shall be made to the number of Shares deliverable upon the exercise of any Option granted prior to such event without any change in the total price applicable

to the unexercised portion of the Option, but with a corresponding adjustment in the price for each Share that may be acquired upon the exercise of the Option. In case the Corporation is reorganized or merged or consolidated or amalgamated with another corporation, appropriate provisions shall be made for the continuance of the Options outstanding under this Plan and to prevent any dilution or enlargement of the same.

- (b) Adjustments under this Section 16 shall be made by the Board, whose determination as to what adjustments shall be made, and the extent thereof, shall be final, binding and conclusive. No fractional Shares shall be issued upon the exercise of an Option following the making of any such adjustment.

17. **Change of Control**

Notwithstanding the provisions of Section 12 or any vesting restrictions otherwise applicable to the relevant Options, in the event of a sale by the Corporation of all or substantially all of its assets or in the event of a change of control of the Corporation, each Participant shall be entitled to exercise, in whole or in part, the Options granted to such Participant hereunder (including any unvested portions), either during the term of the Option or within 90 days after the date of the sale or change of control, whichever first occurs.

For the purpose of this Plan, change of control of the Corporation means and shall be deemed to have occurred upon any one of:

- (a) the acceptance by the holders of Shares of the Corporation, representing in the aggregate, more than 50 percent of all issued Shares of the Corporation, of any offer, whether by way of a takeover bid or otherwise, for all or any of the outstanding Shares of the Corporation; or
- (b) the acquisition, by whatever means, by a person (or two or more persons who, in such acquisition, have acted jointly or in concert or intend to exercise jointly or in concert any voting rights attaching to the Shares acquired), directly or indirectly, of beneficial ownership of such number of Shares or rights to Shares of the Corporation, which together with such person's then owned Shares and rights to Shares, if any, represent (assuming the full exercise of such rights to voting securities) more than 50 percent of the combined voting rights of the Corporation's then outstanding Shares; or
- (c) the entering into of any agreement by the Corporation to merge, consolidate, amalgamate, initiate an arrangement or be absorbed by or into another corporation; or
- (d) the passing of a resolution by the Board or shareholders of the Corporation to substantially liquidate the assets or wind-up the Corporation's business or significantly rearrange its affairs in one or more transactions or series of transactions or the commencement of proceedings for such a liquidation, winding-up or re-arrangement (except where such re-arrangement is part of a bona fide reorganization of the Corporation in circumstances where the business of the Corporation is continued and where the shareholdings remain substantially the same following the re-arrangement); or
- (e) individuals who were members of the Board of the Corporation immediately prior to a meeting of the shareholders of the Corporation involving a contest for or an item of business relating to the election of directors, not constituting a majority of the Board following such election.

18. **Transferability**

All benefits, rights and Options accruing to any Participant in accordance with the terms and conditions of this Plan shall be non-transferable and non-assignable unless specifically provided herein. During the lifetime of a Participant, any Options granted hereunder may only be exercised by the Participant and in the event of the death or permanent disability of a Participant, by the person or persons to whom the Participant's rights under the Option pass under the terms of the Participant's will or by applicable law.

19. **Amendment and Termination of Plan**

- (a) The Board may amend, suspend or terminate the Plan at any time, provided that no such amendment, suspension or termination may:

- (i) be made without obtaining any required regulatory or shareholder approvals; or
 - (ii) adversely affect the rights of any Participant with respect to an Option which has neither expired nor been terminated at the time of any such amendment, without the consent of the Participant.
- (b) Subject to section 19(c) of the Plan, the Board may from time to time, by resolution and without approval of the shareholders of the Corporation, make amendments to the Plan or any Option, including but not limited to, the following:
- (i) an amendment to the date upon which an Option may expire, unless the amendment extends the expiry of an Option held by an Insider;
 - (ii) an amendment to the terms upon which and/or the date or dates upon which an Option becomes vested;
 - (iii) an addition to, deletion from or alteration of the Plan or an Option that is necessary to comply with applicable law or the requirements of any regulatory authority or the Toronto Stock Exchange;
 - (iv) an amendment to correct or rectify any ambiguity, defective provision, error or omission in the Plan or an Option; and
 - (v) any other amendment that does not require shareholder approval under section 19(c) of the Plan.
- (c) Approval of the shareholders of the Corporation will be required for the following amendments to the Plan or any Option:
- (i) any increase in the number of Shares reserved for issuance under the Plan;
 - (ii) any change to the categories of individuals eligible to be selected for grants of Options, where such change may broaden or increase the participation of Insiders under the Plan;
 - (iii) the provision of financial assistance to a Participant in connection with the exercise of Options;
 - (iv) any reduction in the purchase price of an Option;
 - (v) any extension of the expiry date of an Option, except as otherwise provided herein; and
 - (vi) an amendment that would permit Options to be transferable or assignable other than for normal estate settlement purposes.
- (d) For greater certainty, other than the amendments set forth in section 19(c) of the Plan, any other amendment to the Plan or the Options issued thereunder does not require the approval of shareholders of the Corporation.

20. Necessary Approvals

The obligation of the Corporation to issue and deliver Shares in accordance with this Plan and Options granted hereunder is subject to applicable securities legislation and to the receipt of any approvals that may be required from any regulatory authority or stock exchange having jurisdiction over the securities of the Corporation. If Shares cannot be issued to a Participant upon the exercise of an Option for any reason whatsoever, the obligation of the Corporation to issue such Shares shall terminate and any funds paid to the Corporation in connection with the exercise of such Option will be returned to the relevant Participant as soon as practicable.

21. Stock Exchange Rules

This Plan and any option agreements entered into hereunder shall comply with the requirements from time to time of the stock exchange or exchanges on which the Shares are listed.

22. **Right to Issue Other Shares**

The Corporation shall not by virtue of this Plan be in any way restricted from declaring and paying stock dividends, issuing further Shares, varying or amending its share capital or corporate structure or conducting its business in any way whatsoever.

23. **Notice**

Any notice required to be given by this Plan shall be in writing and shall be given by registered mail, postage prepaid or delivered by courier or by facsimile transmission addressed, if to the Corporation, at its principal address in Calgary, Alberta (Attention: The Chairman); or if to a Participant, to their last known address as it appears on the books of the Corporation; or if to any other person, to the last known address of such person.

24. **Gender**

Whenever used herein words importing the masculine gender shall include the feminine and neuter genders and vice versa.

25. **Interpretation**

This Plan will be governed by and construed in accordance with the laws of the Province of Alberta.

SCHEDULE "F"
DEFERRED SHARE UNIT PLAN SUMMARY

The following is a summary of the material provisions of the Deferred Share Unit Plan (the "**DSU Plan**") of NXT Energy Solutions Inc. (the "**Company**"). This summary does not purport to be complete and is subject to, and qualified in its entirety by reference to, the provisions of the DSU Plan, the full text of which is set out in Schedule "G" to the Company's Information Circular dated May 10, 2019.

The principal purposes of the DSU Plan are to: (i) strengthen the ability of the Company and its affiliates to retain qualified directors which the Company and its affiliates require; (ii) provide a competitive long term incentive program to attract qualified directors which the Company and its affiliates require; and (iii) promote a proprietary interest in the Company through share ownership thereby aligning the interests of directors with the Company's shareholders.

The DSU Plan provides for grants of DSUs to directors of the Company and Company's affiliates (the "**Designated Participants**"). The grant date with respect to a DSU is the last day of each calendar quarter in a particular calendar year (except in the case of the last calendar quarter where the grant date with respect to a DSU will be December 15) (the "**Grant Date**").

The Company will maintain or cause to be maintained a DSU account for each Designated Participant ("**DSU Account**") and DSUs will be credited to that DSU Account as of the applicable Grant Date, with the number of DSUs to be so credited determined by dividing the portion of the Designated Participant's annual remuneration (and meeting fees, as applicable) for the applicable calendar year elected to be received in the form of DSUs by the Fair Market Value (as defined in the DSU Plan) per common share in the capital of the Company ("**Common Shares**") on the particular quarterly Grant Date (subject to pro-ration in respect of a particular Designated Participant that ceased to be a Designated Participant in that particular calendar quarter). In all cases, DSUs automatically vest on the Grant Date and have the same value on that Grant Date as the cash amount of the Designated Participant's annual remuneration (and meeting fees, as applicable) for which DSUs are being granted.

DSUs granted under the DSU Plan may be settled, at the election of the board of directors of the Company (the "**Board**"), with Common Shares, cash, or a combination of Common Shares and cash. Any Common Shares to be delivered to a Designated Participant in settlement of a DSU may be acquired through the facilities of the applicable exchange or, subject to shareholder approval of unallocated entitlements thereunder every three years, issued by the Company from treasury.

A Designated Participant may, by notice to the Company (a "**Redemption Notice**"), elect up to two separate dates (each, a "**Redemption Date**") on which all or a portion of the DSUs credited to his or her DSU Account will be redeemed. A Redemption Date cannot: (a) be prior to that Designated Participant's date of termination (being the actual date a Designated Participant ceases to be a director or non-employee service provider to the Company or any affiliate, as applicable) ("**Date of Termination**"); (b) fall within a Black-Out Period (as defined in the DSU Plan); (c) be later than December 15 of the next calendar year after that Designated Participant's Date of Termination (the "**Redemption Deadline**"); or (d) be before the date on which the Redemption Notice is filed with the Company.

Any amounts payable to a Designated Participant, including delivery of Common Shares or a cash payment (in either case less applicable tax withholdings), will be made as soon as practicable after a Redemption Date and no later than the applicable Redemption Deadline. All DSUs are automatically cancelled following payment or satisfaction of such DSUs.

Among other limitations, the DSU Plan limits the number of Common Shares that may be issuable pursuant to outstanding DSUs granted under the DSU Plan:

- The maximum number of Common Shares reserved for issuance under the DSU Plan and all other security-based compensation arrangements of the Company is 10% of the aggregate number of issued and outstanding Common Shares, calculated on an undiluted basis. The number of Common Shares reserved for future awards does not include the dividend equivalent that will accumulate on the underlying grants.
- In addition: (i) no one Designated Participant may be granted any DSUs which, together with all DSUs then held by such Designated Participant, would entitle such Designated Participant to receive a number of Common Shares which is greater than 5% of the outstanding Common Shares, calculated on an undiluted

basis; and (ii) the number of Common Shares (A) issued to a Designated Participant and any other insiders of the Company, within any one year period, and (B) issuable to a Designated Participant and any other insiders of the Company, at any time, in each case under the DSU Plan or when combined with all other security-based compensation arrangements of the Company, shall not exceed 10% of the Company's total issued and outstanding Common Shares.

Under the DSU Plan, amendments: to cure any ambiguity, error or omission or correct any inconsistencies; that are necessary to comply with applicable law or the requirements of any stock exchange on which the Common Shares are listed; respecting the administration and eligibility for participating under the DSU Plan; respecting the U.S. terms and conditions and/or any DSU issued to a Designated Participant who is a citizen or resident of the United States to the extent necessary to comply with U.S. law; or that are of a "housekeeping nature", may be approved by the Board without shareholder approval (but with consent of the Toronto Stock Exchange (the "TSX")).

In addition to the foregoing, under the DSU Plan:

- Until Common Shares are delivered to a Designated Participant pursuant to any DSU or any election to receive Market-Purchased Shares (as defined in the DSU Plan), as applicable, in accordance with the DSU Plan that Designated Participant will not possess any incidents of ownership of such Common Shares.
- If Common Shares are changed through subdivision, consolidation, reclassification, amalgamation, merger or otherwise; rights are granted to shareholders to purchase Common Shares at prices substantially below fair market value; or as a result of any recapitalization, merger or consolidation, Common Shares are converted into or exchangeable for any other securities, the Board may (subject to any necessary TSX approval) make adjustments to the DSU Plan and any outstanding DSUs to prevent substantial dilution or enlargement of the rights granted to the Designated Participant thereunder.
- DSUs may not be assigned, sold, transferred, pledged or charged, and Common Shares or cash payable pursuant to the DSU Plan shall only be paid to a Designated Participant personally except upon the death of a Designated Participant where such payment may be made to the estate or a beneficiary of the Designated Participant.
- The Board may amend, suspend, terminate or discontinue the DSU Plan and DSUs at any time. Any amendment shall be subject to consent of the applicable regulatory authorities (including the TSX), and will take effect only with respect to DSUs granted after the effective date of such amendment (unless the Company and the Designated Participants to whom DSUs have been granted mutually consent to any such amendment applying to any outstanding DSUs). Without shareholder approval, no amendment may:
 - increase the maximum number of Common Shares issuable under the DSU Plan;
 - amend the limits on Designated Participant participation;
 - result in a material or unreasonable dilution in the number of outstanding Common Shares or any material benefit to a Designated Participant;
 - change the class of eligible participants to the DSU Plan which would have the potential of broadening or increasing participation by insiders of the Company;
 - amend the amendment provision of the DSU Plan; or
 - make any amendment to the DSU Plan that permits a Designated Participant to transfer DSUs to any person, other than in the case of the death of the Designated Participant.

The DSU Plan does not contain any provisions for financial assistance by the Company in respect of DSUs granted under the arrangement.

SCHEDULE "G"
DEFERRED SHARE UNIT PLAN

The board of directors (the "**Board**") of NXT Energy Solutions Inc. (the "**Corporation**") has established this Deferred Share Unit Plan ("**Plan**") governing the issuance of DSUs (as defined herein) of the Corporation to directors of the Corporation and its Affiliates (as defined herein).

1. **Purposes**

The principal purposes of this Plan are as follows:

- (a) to strengthen the ability of the Corporation and its Affiliates to retain qualified directors which the Corporation and its Affiliates require;
- (b) to provide a competitive long-term incentive program to attract qualified directors which the Corporation and its Affiliates require; and
- (c) to promote a proprietary interest in the Corporation through share ownership thereby aligning the interests of directors with the shareholders of the Corporation.

2. **Definitions**

As used in this Plan, the following words and phrases shall have the meanings indicated:

- (a) "**Adjustment Ratio**" means, with respect to any DSUs, the ratio used on each Dividend Payment Date to adjust the number of Reference Shares underlying a DSU in accordance with the terms of this Plan; and, in respect of each DSU, the Adjustment Ratio shall initially be equal to one, and shall be cumulatively adjusted thereafter on each Dividend Payment Date by increasing the Adjustment Ratio on each Dividend Payment Date by an amount, rounded to the nearest six decimal places, equal to a fraction having as its numerator the Dividend, expressed as an amount per Common Share, paid on that Dividend Payment Date, and having as its denominator the Fair Market Value of a Common Share determined as of that Dividend Payment Date;
- (b) "**Affiliate**" has the meaning set forth in the *Securities Act* (Alberta);
- (c) "**Annual Remuneration**" means the aggregate annual retainer or fee payable to a Designated Participant;
- (d) "**Associate**" has the meaning set forth in the *Securities Act* (Alberta);
- (e) "**Black-Out Period**" has the meaning set forth in Section 5(g);
- (f) "**Business Day**" means any day other than a Saturday, a Sunday or a statutory holiday in the Province of Alberta;
- (g) "**Change of Control**" means the occurrence of any of:
 - (h) the acceptance by the Shareholders, representing in the aggregate, more than 50 percent of all issued Common Shares, of any offer, whether by way of a takeover bid or otherwise, for all or any of the outstanding Common Shares; or
 - (i) the acquisition, by whatever means, by a person (or two or more persons who, in such acquisition, have acted jointly or in concert or intend to exercise jointly or in concert any voting rights attaching to the Common Shares acquired), directly or indirectly, of beneficial ownership of such number of Common Shares or rights to Common Shares, which together with such person's then owned Common Shares and rights to Common Shares, if any, represent (assuming the full exercise of such rights to voting securities) more than 50 percent of the combined voting rights of the then outstanding Common Shares; or
 - (ii) the entering into of any agreement by the Corporation to merge, consolidate, amalgamate, initiate an arrangement or be absorbed by or into another corporation; or

- (iii) the passing of a resolution by the Board or the Shareholders to substantially liquidate the assets or wind-up the Corporation's business or significantly rearrange its affairs in one or more transactions or series of transactions or the commencement of proceedings for such a liquidation, winding-up or re-arrangement (except where such re-arrangement is part of a bona fide reorganization of the Corporation in circumstances where the business of the Corporation is continued and where the shareholdings remain substantially the same following the re-arrangement); or
 - (iv) individuals who were members of the Board of the Corporation immediately prior to a meeting of the Shareholders involving a contest for or an item of business relating to the election of directors, not constituting a majority of the Board following such election.
- (i) "**Committee**" means a committee of the Board;
 - (j) "**Common Shares**" means common shares in the capital of the Corporation;
 - (k) "**Date of Termination**" means the actual date a Designated Participant ceases to be a Director;
 - (l) "**Deferred Share Unit**" or "**DSU**" means a unit designated as a deferred share unit representing a right to receive a payment equal to the Fair Market Value of a Common Share, in the manner and subject to the terms and provisions set forth in this Plan;
 - (m) "**Designated Broker**" means one or more brokers designated by the Corporation who is "independent" (within the meaning of the Company Manual of the Exchange) from the Corporation and its Affiliates;
 - (n) "**Designated Participant**" means each Director designated by the Board to participate in this Plan and who is to receive Annual Remuneration;
 - (o) "**Director**" means a director of the Corporation or any Affiliate;
 - (p) "**Dividend**" means a dividend paid by the Corporation in respect of the Common Shares, expressed as an amount per Common Share;
 - (q) "**Dividend Payment Date**" means any date that a Dividend is paid to Shareholders;
 - (r) "**Dividend Record Date**" means the applicable record date in respect of any Dividend used to determine the Shareholders entitled to receive such Dividend;
 - (s) "**DSU Account**" means a bookkeeping account maintained by the Corporation in the name of each Designated Participant showing the number of DSUs credited to such Designated Participant that have not been redeemed or terminated in accordance with the terms of this Plan;
 - (t) "**Election Form**" has the meaning set forth in Section 4(b);
 - (u) "**Exchange**" means the Toronto Stock Exchange (or if the Common Shares are not then listed on the Toronto Stock Exchange, such other stock exchange on which the Common Shares are then listed and posted for trading from time to time);
 - (v) "**Fair Market Value**" with respect to a Common Share, as at any date, means:
 - (i) where the Common Shares are then listed and posted for trading on the Exchange, the weighted average of the prices at which the Common Shares traded on the Exchange (or, if the Common Shares are not then listed and posted for trading on the Exchange, on such stock exchange in Canada on which the Common Shares are then listed and posted for trading as may be selected for such purpose by the Board) for the five (5) trading days on which the Common Shares traded on the Exchange immediately preceding such date;
 - (ii) where the Common Shares are not then listed and posted for trading on any stock exchange, the Fair Market Value shall be the fair market value of the Common Shares as determined by the Board in its discretion, acting reasonably and in good faith; or

- (iii) where a Change of Control or Unsolicited Bid has occurred or completed, as the case may be, after the date hereof, the Fair Market Value shall be equal to the following, as applicable:
 - (A) the per share amount of cash paid to a Shareholder pursuant to such Change of Control or Unsolicited Bid in respect of a Common Share then held by such Shareholder; or
 - (B) the weighted average of the prices at which the shares (or other securities as applicable) received by Shareholders pursuant to the Change of Control or Unsolicited Bid traded on the Exchange (or such other exchange on which such shares (or other securities as applicable) are then listed and posted for trading from time to time) for the five (5) trading days on which the shares (or other securities as applicable) traded on the said exchange immediately preceding such date;
- (w) "**Grant Date**" means, with respect to a DSU, the last day of each calendar quarter in a particular calendar year (except in the case of the last calendar quarter, where "Grant Date" means, with respect to a DSU, December 15);
- (x) "**Insider**" has the same meaning as set forth in the Company Manual of the Exchange;
- (y) "**Market Purchased Shares**" means Common Shares acquired through the facilities of the applicable Exchange in accordance with the bylaws, regulations and policies of the applicable Exchange;
- (z) "**Meeting Fees**" means any meeting fees payable to a Designated Participant;
- (aa) "**Person**" means any individual, corporation, limited liability corporation, limited or general partnership, joint venture, association, joint-stock corporation, trust, plan, unincorporated organization or government or any agency or political subdivisions thereof;
- (bb) "**Redemption Date**" has the meaning set forth in Section 5(d)(i);
- (cc) "**Redemption Deadline**" has the meaning set forth in Section 5(d)(ii);
- (dd) "**Redemption Notice**" has the meaning set forth in Section 5(d)(i);
- (ee) "**Reference Shares**" means a bookkeeping entry recorded in the DSU Account of each Designated Participant to evidence the number of Common Shares notionally covered by a DSU, where each Reference Shares has the same value as one Common Share;
- (ff) "**Security Based Compensation Arrangement**" shall have the meaning set forth in the Company Manual of the Exchange;
- (gg) "**Shareholder**" means a holder of Common Shares;
- (hh) "**Tax Act**" means the *Income Tax Act* (Canada) and any regulations thereto, as may be amended from time to time;
- (ii) "**Unsolicited Bid**" means those circumstances in which an offer is made generally to the holders of Common Shares in one or more jurisdictions to acquire directly or indirectly the Common Shares of the Corporation and which is in the nature of a "takeover bid" as defined in National Instrument 62-104 – *Take-Over Bids and Issuer Bids* and, where the Common Shares are listed and posted for trading on a stock exchange, not exempt from the formal bid requirements of the *Securities Act* (Alberta), by a person who neither the Board nor management of the Corporation solicited, sought out or otherwise arranged for the offeror party to make such offer;
- (jj) "**U.S. Participant**" has the meaning set forth in the U.S. Terms and Conditions; and
- (kk) "**U.S. Terms and Conditions**" means the additional terms and conditions for U.S. Participants attached hereto as Schedule "C".

3. **Administration**

This Plan shall be administered by the Board or a Committee of the Board as the Board considers appropriate from time to time. The composition of the Committee shall at all times comply with any applicable requirements of the Exchange.

The Committee shall have the authority in its discretion, subject to and not inconsistent with the express provisions of this Plan, to administer this Plan and to exercise all the powers and authorities either specifically granted to it under this Plan or necessary or advisable in the administration of this Plan, including, without limitation:

- (a) the authority to recommend grants of DSUs;
- (b) to determine the Fair Market Value of the Common Shares on any date;
- (c) to determine the Designated Participants to whom, and the time or times at which, DSUs shall be granted;
- (d) to prescribe, amend and rescind rules and regulations relating to this Plan;
- (e) to interpret this Plan;
- (f) to determine whether to settle any DSUs by delivery to the Designated Participants either (i) a cash payment equal to the Fair Market Value of the Reference Shares underlying such DSU (as adjusted in accordance with the terms hereof) or (ii) Common Shares; and
- (g) to make all other determinations deemed necessary or advisable for the administration of this Plan.

The recommendations and determinations of the Committee shall be subject to review and approval by the Board. The Committee may delegate to one or more of its members or to one or more agents such administrative duties as it may deem advisable, including without limitation delegation to a third-party agent or trustee the authority to acquire Common Shares for delivery to Designated Participants in accordance with this Plan, and the Committee or any person to whom it has delegated duties as aforesaid may employ one or more persons to render advice with respect to any responsibility the Committee or such person may have under this Plan.

4. **Elections**

- (a) Subject to any requirement imposed on a Designated Participant by the Board to receive a specified value or specified minimum value of his or her Annual Remuneration in the form of DSUs, a Designated Participant shall elect to receive such Annual Remuneration and, if applicable, Meeting Fees in the form of DSUs, cash or Market-Purchased Shares or a combination thereof as provided in Section 4(b).
- (b) A Designated Participant shall, in respect of each particular calendar year and the Annual Remuneration and, if applicable, Meeting Fees for that year, elect by delivering to the Corporation a written notice in the form of Schedule "A" attached hereto (the "Election Notice") specifying an amount (expressed as a percentage) of the Annual Remuneration and, if applicable, Meeting Fees to be received by such Designated Participant in that particular calendar year in the form of DSUs, cash or Market-Purchased Shares or a combination thereof. In the case of an existing Designated Participant, an Election Notice must be completed, signed and delivered to the Corporation by no later than the last Business Day prior to the end of the calendar year preceding the calendar year to which such election is to apply. In the case of a newly appointed or elected Director, an Election Notice must be completed, signed and delivered to the Corporation as soon as possible, and, in any event, no later than 30 days after the Designated Participant's appointment or election, with such Election Notice to be effective as of the first day of the calendar quarter immediately following the date of the Corporation's receipt of the Election Notice and shall continue in effect until the last day of the calendar year in which such new Designated Participant is appointed or elected.
- (c) If a Designated Participant fails to elect by written notice delivered to the Corporation by the applicable date set out in Section 4(b), such Designated Participant shall be deemed to have elected

to receive 100% of the Designated Participant's Annual Remuneration and, if applicable, Meeting Fees for that particular year in the form of cash.

- (d) A Designated Participant shall only file one Election Notice in respect of his or her Annual Remuneration and, if applicable, Meeting Fees for any particular calendar year, which Election Notice shall be irrevocable for that particular calendar year.
- (e) If a Designated Participant elects to receive all or any portion of his or her Annual Remuneration or, if applicable, Meeting Fees in the form of cash and/or Market-Purchased Shares:
 - (i) any Market-Purchased Shares shall be acquired through the facilities of the applicable Exchange in accordance with the by-laws, regulations and policies of the applicable Exchange through a Designated Broker, in which case the Corporation will provide the Designated Broker with an amount of cash sufficient to purchase the number of Common Shares to which the Designated Participant is entitled, less the amount of cash withheld pursuant to Section 11; and
 - (ii) any cash, less the amount of cash withheld pursuant to Section 11, shall be paid by the Corporation to the Designated Participant;

in either case on a quarterly basis in arrears determined as of the last day of each calendar quarter (except in the case of the last calendar quarter, where such determination shall be made as of December 15) and, in respect of a particular Designated Participant, prorated in and for the calendar quarter in which that particular Designated Participant ceased to be a Designated Participant (for the period during that quarter such Designated Participant served as a Designated Participant).

5. **Terms and Conditions of DSUs**

Each DSU granted under this Plan shall be subject to the terms and conditions of this Plan (and where the Designated Participant is a U.S. Participant, the U.S. Terms and Conditions), and shall comply with and be subject to the requirements of the Exchange and the following terms and conditions (and with such other terms and conditions not inconsistent with the terms of this Plan as the Committee or the Board, in its discretion, shall establish:

- (a) DSU Account
 - (i) the Corporation shall at all times maintain or cause to be maintained a DSU Account for each Designated Participant, and all DSUs shall be credited to a DSU Account as of the applicable Grant Date; and
 - (ii) the number of DSUs to be credited to a Designated Participant's DSU Account as of a particular Grant Date shall be determined by dividing the portion of the Designated Participant's Annual Remuneration and, if applicable, Meeting Fees for the applicable calendar year elected to be received in the form of DSUs (expressed as a dollar amount) by the Fair Market Value per Common Share on the particular Grant Date, prorated in respect of a particular Designated Participant that ceases to be a Designated Participant in and for the calendar quarter in which that particular Designated Participant ceased to be a Designated Participant (for the period during that year such Designated Participant served as a Designated Participant). In all cases, the DSUs granted shall have the same value on the particular Grant Date as the cash amount of the Designated Participant's Annual Remuneration and, if applicable, Meeting Fees for which such DSUs are being granted.
- (b) Number of Common Shares Issuable Pursuant to DSUs
 - (i) Notwithstanding the election made, or deemed to have been made, by a Designated Participant pursuant to Section 4: (i) no one Designated Participant may be granted any DSUs which, together with all DSUs then held by such Designated Participant, would entitle such Designated Participant to receive a number of Common Shares which is greater than 5% of the outstanding Common Shares, calculated on an undiluted basis; and (ii) the number of Common Shares (A) issued to Designated Participant and any other Insiders of

the Corporation, within any one year period, and (B) issuable to Designated Participant and any other Insiders of the Corporation, at any time, in each case under this Plan or when combined with all other Security Based Compensation Arrangements of the Corporation, shall not exceed 10% of the Corporation's total issued and outstanding Common Shares. The foregoing determinations shall be made on the assumption that the Board will exercise its discretion to settle all DSUs by way of delivery of Common Shares.

- (ii) Any Common Shares to be delivered to a Designated Participant on a Redemption Date in satisfaction of a DSU that is settled by delivery of Common Shares (as determined by the Board in its sole discretion) shall, in the sole discretion of the Board, either:
 - (A) be acquired through the facilities of the applicable Exchange in the same manner as Market-Purchased Shares pursuant to Section 4(e)(i); or
 - (B) subject to the prior approval of the Shareholders and the applicable Exchange, issued by the Corporation from treasury, in which case, the number of Common Shares reserved for issuance from time to time pursuant to DSUs and all other Security Based Compensation Arrangements shall be equal to 10% of the aggregate number of issued and outstanding Common Shares, calculated on an undiluted basis.
- (c) Vesting – DSUs will be fully vested upon being credited to a Designated Participant's DSU Account in accordance with Section 5(a), and the Designated Participant's entitlement to receive such DSUs shall not be subject to satisfaction of any requirements as to any minimum period of membership on the Board.
- (d) Redemption of DSUs
 - (i) At any date prior to a Designated Participant's Date of Termination (or, where the Designated Participant is a U.S. Participant, by the prescribed date in the U.S. Terms and Conditions), a Designated Participant (or the legal representative in the case of a deceased Designated Participant) may elect up to two separate dates as of which either a portion (specified in whole percentages or number of DSUs) or all of the DSUs credited to that Designated Participant's DSU Account shall be redeemed (each such date being a "**Redemption Date**") by filing with the Corporation, where the Designated Participant is not a U.S. Participant, a written notice in the form of Schedule "B" attached hereto, and where the Designated Participant is a U.S. Participant, a written notice in the form of Exhibit A to Schedule "C" attached hereto (in either case, a "**Redemption Notice**"). A Designated Participant who wishes to elect two separate Redemption Dates may complete one Redemption Notice specifying both Redemption Dates, or may file two separate Redemption Notices, provided that Designated Participant does so on a timely basis in accordance with Section 5(d)(ii).
 - (ii) No Redemption Date elected by a Designated Participant pursuant to Section 5(d)(i) shall:
 - (A) be prior to that Designated Participant's Date of Termination;
 - (B) fall within a Black-Out Period;
 - (C) be later than December 15 of the next calendar year after that Designated Participant's Date of Termination (the "**Redemption Deadline**"); or
 - (D) be before the date on which such Redemption Notice is filed with the Corporation.
 - (iii) If a Designated Participant fails to file a Redemption Notice before the applicable Date of Termination (or, where the Designated Participant is a U.S. Participant, by the prescribed date in the U.S. Terms and Conditions) or fails to elect a Redemption Date(s) within the parameters specified in Section 5(d)(ii), as the case may be, such Designated Participant will be deemed to have filed a single Redemption Notice electing to redeem all of the DSUs credited to that Designated Participant's DSU Account on a single Redemption Date which

shall, subject to Section 5(d)(vi), be the date which is six months after that Designated Participant's Date of Termination.

- (iv) As of and effective upon the date that is as soon as practicable after a Redemption Date and in any event no later than the applicable Redemption Deadline, the Corporation shall, subject to 5(d)(vi), satisfy the DSUs to be redeemed on the Redemption Date by, at the election of the Board at any time prior to the date of payment, (A) delivery of an aggregate number of Common Shares equal to the number of DSUs credited to the applicable Designated Participant's DSU Account as of the Redemption Date (as adjusted pursuant to this Plan); (B) making a cash payment equal to the aggregate Fair Market Value of such Common Shares as at the Redemption Date or (C) a combination thereof.
 - (v) Subject to Section 5(d)(vi), Section 11, the restriction on discretion during a Black-Out Period below, and, where the Designated Participant is a U.S. Participant, the U.S. Terms and Conditions, the Board may elect in its sole discretion in respect of any Redemption Date (other than a Redemption Date that occurs during a Black-Out Period in which case no discretion shall be exercisable and payment in respect of the applicable DSUs shall be made by delivering a cash payment in accordance with Section 5(d)(iv) above), to deliver or pay (as applicable) on the Redemption Date to the Designated Participant to whom such DSUs were granted (A) the number of Common Shares (issued from treasury) equal to the number of DSUs credited to the Designated Participant's DSU Account as of the Redemption Date (as adjusted pursuant to this Plan); (B) a cash amount equal to the aggregate Fair Market Value of such Common Shares as at the Redemption Date; or (C) a combination thereof, in each case in consideration for the surrender by the Designated Participant to the Corporation of the DSUs.
 - (vi) Notwithstanding any other provision of this Plan, all amounts payable to, or in respect of, a Designated Participant hereunder, including, without limitation, delivery of Common Shares or a cash payment, shall be paid on or before the Redemption Deadline.
 - (vii) For greater certainty, the Board shall have complete discretion to elect whether to settle DSUs in cash, in Common Shares or in any combination of cash and Common Shares and may exercise its discretion at any time prior to the date upon which DSUs are settled.
- (e) Fractions – Where the Board exercises its discretion to settle a DSU by way of delivery of Common Shares and the determination of the number of Common Shares to be delivered to a Designated Participant pursuant to a DSU in respect of a particular Redemption Date would result in the issuance of a fractional Common Share, provided that such fractional Common Share as contained in an DSU Account is transferred to a similar bookkeeping account maintained by the Corporation in the name of the Designated Participant or a trustee on behalf of such Designated Participant, the number of Common Shares delivered on the Redemption Date may be delivered as fractional Common Shares. Otherwise, the number of fractional Common Shares delivered on the Redemption Date shall be rounded down to the next whole number of Common Shares and a cash payment shall be made to the Designated Participant in lieu of any such fractional interest in a Common Share being issued.
- (f) Cancellation of DSUs – Upon the occurrence of the Redemption Date with respect to the DSUs of a particular Designated Participant, the DSUs in that Designated Participant's DSU Account (as adjusted pursuant to this Plan) to be redeemed on that Redemption Date shall automatically be cancelled immediately following payment or satisfaction of such DSUs.
- (g) Black-Out Periods – If the exemption from insider trading rules for participation in an "automatic plan" ceases to exist and in the event that the Redemption Date falls within a period of time imposed by the Corporation, pursuant to the Corporation's policies, upon certain designated persons during which those persons may not trade in any securities of the Corporation (a "Black-Out Period") (not including Black-Out Periods imposed due to a cease trade order), then the Redemption Date, as applicable (and, where the applicable Designated Participant is a U.S. Participant, subject to the

U.S. Terms and Conditions), shall be ten (10) Business Days from the date any Black-Out Period ends.

6. **Adjustments**

- (a) Effect of Certain Changes – In the event:
- (i) of any change in the Common Shares through subdivision, consolidation, reclassification, amalgamation, merger or otherwise;
 - (ii) that any rights are granted to Shareholders to purchase Common Shares at prices substantially below Fair Market Value; or
 - (iii) that, as a result of any recapitalization, merger or consolidation, the Common Shares are converted into or exchangeable for any other securities;
- then, in any such case and subject to the prior approval of the Exchange, if required, the Board may make such adjustments to this Plan and to any DSUs outstanding under this Plan as the Board may, in its sole discretion, consider appropriate in the circumstances to prevent substantial dilution or enlargement of the rights granted to Designated Participants hereunder.
- (b) Dividends – As soon as possible after any Dividend Payment Date, the Corporation shall determine the Adjustment Ratio applicable to such Dividend and shall forthwith credit each DSU Account by the Adjustment Ratio.

7. **Rights as a Shareholder**

Unless and until Common Shares are delivered to a Designated Participant pursuant to any DSU or any election to receive Market-Purchased Shares, as applicable, in accordance with this Plan, that Designated Participant shall not possess any incidents of ownership of such Common Shares including, for greater certainty and without limitation, the right to receive dividends on such Common Shares and the right to exercise voting rights in respect of such Common Shares. Where the Board exercises its discretion to settle a DSU by way of delivery of Common Shares, such Designated Participant shall only be considered a Shareholder in respect of such Common Shares when the issuance or receipt of such Common Shares has been entered upon the applicable share register(s).

8. **Non-Transferability**

Common Shares, if any, or cash payments deliverable pursuant to this Plan shall only be delivered to a Designated Participant personally except that if a Designated Participant dies, Common Shares, if any, or cash payments may be delivered to the Designated Participant's estate. Except for the foregoing and as otherwise provided in this Plan, no assignment, sale, transfer, pledge or charge of a DSU, whether voluntary, involuntary, by operation of law or otherwise, vests any interest or right in such DSU whatsoever in any assignee or transferee and, immediately upon any assignment, sale, transfer, pledge or charge or attempt to assign, sell, transfer, pledge or charge, such DSU shall terminate and be of no further force or effect.

9. **Amendment and Termination of Award Plan**

The Corporation retains the right to amend from time to time or to suspend, terminate or discontinue the terms and conditions of this Plan and the DSUs granted hereunder by resolution of the Board. Any amendments shall be subject to the prior consent of any applicable regulatory bodies, including the Exchange, as may be required. Any amendment to this Plan shall take effect only with respect to DSUs granted after the effective date of such amendment, provided that it may apply to any outstanding DSUs with the mutual consent of the Corporation and the Designated Participants to whom such DSUs have been granted. The Board shall have the power and authority to approve amendments relating to this Plan or to DSUs, without further approval of the Shareholders, to the extent that such amendment:

- (a) is for the purpose of curing any ambiguity, error or omission in this Plan or to correct or supplement any provision of this Plan that is inconsistent with any other provision of this Plan;

- (b) is necessary to comply with applicable law or the requirements of any stock exchange on which the Common Shares are listed;
- (c) is an amendment to this Plan respecting administration and eligibility for participation under this Plan;
- (d) is an amendment pursuant to Section 7 of Schedule "C" attached hereto; or
- (e) is an amendment to this Plan of a "housekeeping nature";

provided that in the case of any alteration, amendment or variance referred to in this Section 9 the alteration, amendment or variance does not:

- (i) increase the maximum number of Common Shares issuable under this Plan;
- (ii) amend the limits on Designated Participant participation;
- (iii) result in a material or unreasonable dilution in the number of outstanding Common Shares or any material benefit to a Designated Participant;
- (iv) change the class of eligible participants to this Plan which would have the potential of broadening or increasing participation by Insiders of the Corporation;
- (v) amend the amendment provision of this Plan; or
- (vi) make any amendment to this Plan that permits a Designated Participant to transfer DSUs to any person, other than in the case of the death of the Designated Participant.

10. **Provisions for Foreign Participants**

The Corporation may, without amending this Plan, modify the terms of DSUs granted to Designated Participants who are foreign nationals or who provide services to the Corporation or any Affiliate from outside of Canada in order to comply with the applicable laws of such foreign jurisdictions.

11. **Withholding Taxes**

When a Designated Participant or other person becomes entitled to receive payment in respect of any DSU pursuant to this Plan, the Corporation shall have the right to and shall withhold on behalf of the Designated Participant or such other person an amount sufficient to satisfy any withholding tax requirements relating thereto and the Corporation shall remit, on behalf of the Designated Participant or such other person, an amount of cash sufficient to satisfy any withholding tax requirements relating thereto. Unless otherwise prohibited by applicable law, satisfaction of the withholding tax obligation shall be accomplished by (as applicable): (i) the withholding of a cash amount sufficient to satisfy the total withholding tax obligation; or (ii) the withholding and automatic sale of a number of Common Shares (from any Common Shares otherwise deliverable to the Designated Participant in accordance with the terms of this Plan) having a Fair Market Value, determined as of the date the withholding tax obligation arises, sufficient to satisfy the total withholding tax obligation.

12. **Miscellaneous**

- (a) Effect of Headings – The section and subsection heading contained herein are for convenience only and shall not affect the construction hereof.
- (b) Compliance with Legal Requirements - The Corporation shall not be obliged to deliver any Common Shares or make any cash payment if such delivery or payment (as applicable) would violate any law or regulation or any rule of any government authority or stock exchange. The Corporation, in its sole discretion, may postpone the payment in respect of any DSU (whether in the form of cash or Common Shares) or pursuant to any election to receive Market-Purchased Shares, as applicable, as the Board may consider appropriate, and may require any Designated Participants to make such representations and furnish such information as it may consider appropriate in connection with the payment of any cash or the delivery of any Common Shares in compliance with applicable laws, rules and regulations. The Corporation shall not be required to qualify for resale pursuant to a

prospectus or similar document any Common Shares delivered under this Plan, provided that, if required, the Corporation shall notify the Exchange and any other appropriate regulatory bodies in Canada of the existence of this Plan and the granting of DSUs hereunder in accordance with any such requirements. In case of the Board exercises its discretion to issue Common Shares upon settlement of DSUs granted to a Designated Participant resident in the United States of America, such issuance shall be contingent upon receipt of completed representations as set forth in Schedule "D" attached hereto.

- (c) No Right to Continued Engagement – Nothing in this Plan shall confer upon any Designated Participant the right to continue in the service as a Director, to be entitled to any remuneration or benefits not set forth in this Plan or to interfere with or limit in any way the right of the Corporation or an Affiliate to terminate the service of a Director.
- (d) Ceasing to be an Affiliate – Except as otherwise provided in this Plan, DSUs granted under this Plan shall not be affected by any change in the relationship between or ownership of the Corporation and an Affiliate. For greater certainty, all outstanding DSUs shall remain valid in accordance with the terms and conditions of this Plan and are not affected by reason only that, at any time, any corporation, partnership or trust ceases to be an Affiliate.
- (e) Expenses – All expenses in connection with this Plan shall be borne by the Corporation.
- (f) Unfunded Plan – This Plan shall be unfunded. Although DSU Accounts may be established with respect to Designated Participants, any such accounts shall be used merely as a bookkeeping convenience. The Corporation shall not be required to segregate any assets that may at any time be represented by Common Shares, cash or rights thereto, nor shall this Plan be construed as providing for such segregation. Any liability or obligation of the Corporation to any Designated Participant with respect to a DSU under this Plan shall be based solely upon any contractual obligations that may be created by this Plan, and no such liability or obligation of the Corporation shall be deemed to be secured by any pledge or other encumbrance on any property of the Corporation. Neither the Corporation nor the Board nor any Committee shall be required to give any security or bond for the performance of any obligation that may be created by this Plan.

13. **Governing Law**

This Plan shall be governed by and construed in accordance with the laws in force in the Province of Alberta.

14. **Effective Date**

This Plan is made effective as of May 10, 2019.

**SCHEDULE "A"(TO THE DEFERRED SHARE UNIT PLAN
OF NXT ENERGY SOLUTIONS INC.)**

ELECTION NOTICE

NXT Energy Solutions Inc. (the "**Corporation**") pays Annual Remuneration and, if applicable, Meeting Fees (each as defined in the Corporation's Deferred Share Unit Plan (the "**Plan**")) to Designated Participants, a percentage of which may be paid in DSUs.

Capitalized terms used but not defined herein shall have the meanings attributed to such terms in the Plan.

Subject to certain election restrictions set out in the Plan, the undersigned may elect to receive his or her Annual Remuneration and, if applicable, Meeting Fees in the form of DSUs, cash or Market-Purchased Shares or a combination thereof.

In order to receive the election set forth herein, a completed Election Notice must be received no later than the last Business Day prior to the end of the calendar year preceding the calendar year in which such election is to apply. In the case of a newly appointed or elected Director, an Election Notice must be completed, signed and delivered to the Corporation as soon as possible, and, in any event, no later than 30 days after the Designated Participant's appointment, election or designation as a Designated Participant, as the case may be, with such Election Notice to be effective as of the first day of the fiscal quarter immediately following the date of the Corporation's receipt of the Election Notice and shall continue in effect until the last day of the calendar year in which such new Designated Participant is appointed or elected, as the case may be.

I, _____, the undersigned Designated Participant acknowledge that:

1. I have received and reviewed a copy of the Plan and agree to be bound by the terms and conditions thereof.

2. I hereby elect to receive my Annual Remuneration for 20__ as follows:

- (i) DSUs: _____ (%)
- (ii) Cash: _____ (%)
- (iii) Market-Purchased Shares: _____ (%)
- Total: 100%**

3. I hereby elect to receive my Meeting Fees (if any) for 20__ as follows:

- (i) DSUs: _____ (%)
- (ii) Cash: _____ (%)
- (iii) Market-Purchased Shares: _____ (%)
- Total: 100%**

4. I acknowledge and understand that this election is irrevocable for the fiscal year in respect of which it is being made.

5. I acknowledge and understand that I will receive my Annual Remuneration and Meeting Fees (if any) on a quarterly basis in arrears in accordance with my election in Section 3 of this Election Notice, and that if the

Date of Termination occurs during a calendar quarter, my Annual Remuneration and Meeting Fees (if any) for that quarter will be prorated.

6. The value of a DSU at any time is based on the Fair Market Value of a Common Share and is not guaranteed and, accordingly, the value of Common Shares or cash payment when received, as applicable, may be higher or lower than the value of the DSU at the time it was credited to my DSU Account under the Plan.
7. I will be liable for all applicable income and other taxes and deductions when DSUs are redeemed in accordance with the terms of the Plan. Payments under the Plan will be net of applicable withholding taxes. I understand that the Corporation is making no representation to me regarding taxes applicable to me under this Plan and that it is my responsibility to confirm the tax treatment of the DSUs or any payment under the Plan with my own tax advisor.
8. No funds will be set aside to guarantee the payment of any amounts due under the Plan. Future payments from the Plan are an unfunded liability recorded on the books of the Corporation. Any rights under the Plan by virtue of a grant of DSUs shall be no greater than the rights of an unsecured creditor.
9. I am receiving DSUs solely in my capacity as a Designated Participant.

Date

Witness Signature

Signature of Designated Participant

Name of Designated Participant (please print)

Witness Name (please print)

**SCHEDULE "B" (TO THE DEFERRED SHARE UNIT PLAN
OF NXT ENERGY SOLUTIONS INC.)**

**REDEMPTION NOTICE
(FOR DESIGNATED PARTICIPANTS OTHER THAN U.S. PARTICIPANTS)**

NXT Energy Solutions Inc. (the "**Corporation**") pays Annual Remuneration and, if applicable, Meeting Fees (each as defined in the Corporation's Deferred Share Unit Plan (the "**Plan**")) to Designated Participants, a percentage of which may be paid in DSUs.

Capitalized terms used but not defined herein shall have the meanings attributed to such terms in the Plan.

In order to redeem the DSUs as set out in this Redemption Notice, a completed Redemption Notice must be received prior to a Designated Participant's Date of Termination.

I, _____, the undersigned Designated Participant:

1. acknowledge that I have received and reviewed a copy of the Plan and agree to be bound by the terms and conditions thereof;
2. confirm that I am not a U.S. Participant;
3. acknowledge that under the Plan, I am only permitted to select up to two separate dates as of which either a portion or all of the DSUs credited to my DSU Account will be redeemed, and that such Redemption Date(s) must fall within the parameters specified in Section 5(d)(ii) of the Plan;
4. hereby elect to redeem the DSUs credited to my DSU Account as follows:

Number of DSUs to be Redeemed (specify whole percentage or whole number)	Redemption Date

5. acknowledge that I will receive on the Redemption Date, at the Board's sole discretion in accordance with the Plan: (A) a cash amount equal to the aggregate Fair Market Value of such Common Shares as at the Redemption Date; (B) the number of the Common Shares (issued from treasury) equal to the number of DSUs credited to my DSU Account as of the Redemption Date (as adjusted pursuant to the Plan); or (C) a combination thereof, in each case in consideration for my surrender to the Corporation of the DSUs;
6. acknowledge and understand that I am required to file this Redemption Notice with the Corporation prior to the Date of Termination, and that if I fail to file this Redemption Notice prior to such Date of Termination or if I fail to elect a Redemption Date(s) within the parameters specified in Section 5(d)(ii), I will be deemed to have filed with the Corporation a single Redemption Notice electing to redeem all of the DSUs credited to my DSU Account on a single Redemption Date which will, subject to Section 5(d)(i), be the date which is six months after my Date of Termination; and

7. acknowledge and understand that this Redemption Notice is irrevocable for the DSUs in respect of which it is being made.

Date

Witness Signature

Signature of Designated Participant

Name of Designated Participant (please print)

Witness Name (please print)

**SCHEDULE "C" (TO THE DEFERRED SHARE UNIT PLAN
OF NXT ENERGY SOLUTIONS INC.)**

**TERMS AND CONDITIONS FOR U.S. PARTICIPANTS
(EFFECTIVE MAY 10, 2019)**

NXT Energy Solutions Inc. (the "**Corporation**") pays Annual Remuneration and, if applicable, Meeting Fees (each as defined in the Corporation's Deferred Share Unit Plan (the "**Plan**")) to Designated Participants, a percentage of which may be paid in DSUs.

Capitalized terms used but not defined herein shall have the meanings attributed to such terms in the Plan.

In accordance with Section 10 of the Plan, the Board has determined it is necessary and appropriate to adopt additional terms and conditions under the Plan applicable to Designated Participants (as such term is defined in the Plan) who are citizens or residents of the United States ("**U.S. Participants**") in order that the Plan comply with the applicable provisions of Section 409A of the United States Internal Revenue Code of 1986, as amended (the "**Code**"), and United States federal and state securities laws.

These "Terms and Conditions for U.S. Participants" (the "**U.S. Terms and Conditions**") set forth additional terms and conditions for U.S. Participants eligible to participate in the Plan and shall supersede and override any conflicting provision in the Plan to the extent such provision affects a U.S. Participant.

1. Incorporation of Plan

The Plan is hereby incorporated by reference in its entirety into the U.S. Terms and Conditions, subject to and as modified by the supplemental terms and conditions set forth herein. Capitalized terms not defined herein shall have the meanings ascribed to such terms in the Plan.

2. Definitions

Initially capitalized terms used in the U.S. Terms and Conditions (and not defined in this Section 2 or in the Preamble), will have the meanings ascribed to such terms in the Plan. Reference to the singular will include references to the plural.

For the purposes of the U.S. Terms and Conditions, the following words and phrases will have the meanings indicated:

- (a) "**Entry Date**" means, with respect to a U.S. Participant, the date on which such U.S. Participant is first eligible to participate in the Plan.
- (b) "**Initial DSUs**" means any DSUs credited to a U.S. Participant's DSU Account on or before December 31 of the calendar year that includes the U.S. Participant's Entry Date.
- (c) "**Section 409A**" means Section 409A of the Code, including any amendments or successor provisions to that section and any regulations and other administrative guidance thereunder, in each case as they, from time to time, may be amended or interpreted through further administrative guidance.
- (d) "**U.S. Securities Act**" means the U.S. Securities Act of 1933 and the rules and regulations promulgated thereunder, or any successor law, as it may be amended from time to time.

3. Coverage

The Plan, as modified and supplemented by these U.S. Terms and Conditions, shall apply to each U.S. Participant who is eligible to participate in the Plan.

4. Redemption of DSUs

- (a) A U.S. Participant shall make his or her redemption election pursuant to a Redemption Notice substantially in the form attached as Exhibit 1 and these U.S. Terms and Conditions. For the purposes of these U.S. Terms and Conditions, a U.S. Participant's "Date of Termination" shall be the later of (a) the actual date the U.S. Participant ceases to be a Director of the Corporation or any Affiliate, as applicable, and (b) the date on which the U.S. Participant incurs a "separation from service" from the Corporation within the meaning of Section 409A. In addition, if the U.S. Participant is a "specified employee" (within the meaning of Section 409A) of the Corporation on his or her Date of Termination, no DSUs credited to the U.S. Participant's DSU Account will be redeemed before the date that is six (6) months following the U.S. Participant's Date of Termination.
- (b) With respect to any Initial DSUs credited to a U.S. Participant's DSU Account, the U.S. Participant must file with the Corporation a complete and correct Redemption Notice no later than 30 days following the U.S. Participant's Entry Date. Any Initial DSUs that are not covered by a timely, complete and correct Redemption Notice filed with the Corporation will be redeemed in accordance with the rules set forth in Section 5(d)(iii) of the Plan.
- (c) With respect to any DSUs (other than Initial DSUs) credited to a U.S. Participant's DSU Account after December 31 of the calendar year that includes the U.S. Participant's Entry Date, the U.S. Participant must file with the Corporation a complete and correct Redemption Notice no later than December 31 of the calendar year immediately preceding the calendar year in which such DSUs are credited to the U.S. Participant's DSU Account. Any such DSUs that are not covered by a timely, complete and correct Redemption Notice filed with the Corporation will be redeemed in accordance with the rules set forth Section 5(d)(iii) of the Plan.
- (d) If a Redemption Date selected by a U.S. Participant falls within a Black-Out Period (not including Black-Out Periods imposed due to a cease trade order), then such Redemption Date shall be earlier of (a) ten (10) Business Days from the date the Black-Out Period ends or (b) December 31 of the calendar year of the scheduled Redemption Date.

5. Section 409A

DSUs credited under the Plan to U.S. Participants are intended to comply with Section 409A and the Plan will be construed and administered accordingly. Notwithstanding any other provision of the Plan, payments provided under the Plan may be made only upon an event and in a manner that complies with Section 409A or an applicable exemption. The applicable provisions of Section 409A are hereby incorporated by reference into the Plan with respect to DSUs credited to the DSU Accounts of U.S. Participants and shall control over any provision in conflict therewith. Nothing in the Plan or these U.S. Terms and Conditions is or contains a representation to any U.S. Participant regarding the tax consequences of the grant, settlement, or sale of any DSU (or the Common Shares underlying such DSU), and should not be interpreted as such. In no event shall the Corporation or any of its Affiliates be liable for all or any portion of any taxes, penalties, interest or other expenses that may be incurred by a U.S. Participant on account of non-compliance with Section 409A.

6. Legal Compliance

The Common Shares issuable under the Plan will be issued in compliance with all applicable laws, including, without limitation, the U.S. Securities Exchange Act of 1934, as amended, the U.S. Securities Act, and any other applicable U.S. laws. Any resale or transfer of Common Shares issued to a U.S. Participant under the Plan must also comply with all applicable laws governing the resale or transfer of the Common Shares. The Corporation may impose such restrictions, conditions or limitations as it determines appropriate as to the timing and manner of any sales of Common Shares issued to a U.S. Participant under the Plan or other subsequent transfers by a U.S. Participant of any such Common Shares, including without limitation (a) restrictions that may be necessary in the absence of an effective registration statement under the U.S. Securities Act, and (b) restrictions as to the use of a specified brokerage firm or other agent for such sales or transfers.

7. Amendments

Without limiting Section 9 of the Plan, the Corporation retains the right to amend these U.S. Terms and Conditions and/or any DSU issued to a U.S. Participant to the extent necessary or appropriate to comply with U.S. law.

**EXHIBIT 1 TO SCHEDULE "C" (TO THE DEFERRED SHARE UNIT PLAN
OF NXT ENERGY SOLUTIONS INC.)**

**REDEMPTION NOTICE
(FOR DESIGNATED PARTICIPANTS WHO ARE U.S. PARTICIPANTS)**

NXT Energy Solutions Inc. (the "**Corporation**") pays Annual Remuneration and, if applicable, Meeting Fees (each as defined in the Corporation's Deferred Share Unit Plan (the "**Plan**")) to Designated Participants, a percentage of which may be paid in DSUs.

Capitalized terms used but not defined herein shall have the meanings attributed to such terms in the Plan, as modified by the U.S. Terms and Conditions.

In order to redeem the DSUs as set out in this Redemption Notice, a completed Redemption Notice must be received prior to a Designated Participant's Date of Termination.

I, _____, the undersigned Designated Participant:

1. acknowledge that I have received and reviewed a copy of the Plan (including the U.S. Terms and Conditions) and agree to be bound by the terms and conditions thereof;
2. confirm that I am a U.S. Participant;
3. acknowledge that under the Plan, I am only permitted to select up to two separate dates as of which either a portion or all of the DSUs credited to my DSU Account will be redeemed, and that such Redemption Date(s) must fall within the parameters specified in Section 5(d)(ii)(B) – (D) of the Plan;
4. hereby elect to redeem the DSUs credited to my DSU Account as follows:

Number of DSUs to be Redeemed (specify whole percentage or whole number)	Redemption Date

5. acknowledge that I will receive on the Redemption Date, at the Board's sole discretion in accordance with the Plan: (A) a cash amount equal to the aggregate Fair Market Value of such Common Shares as at the Redemption Date; (B) the number of the Common Shares (issued from treasury) equal to the number of DSUs credited to my DSU Account as of the Redemption Date (as adjusted pursuant to the Plan); or (C) a combination thereof, in each case in consideration for my surrender to the Corporation of the DSUs;
6. acknowledge and understand that I am required to file this Redemption Notice with the Corporation:
 - (a) no later than 30 days following my Entry Date with respect to any Initial DSUs covered by this Redemption Notice; and
 - (b) with respect to any other DSUs covered by this Redemption Notice, no later than December 31 of the calendar year immediately preceding the calendar year in which such DSUs will be credited to my DSU Account;
7. acknowledge and understand that if I fail to timely file this Redemption Notice or if I fail to elect a Redemption Date(s) within the parameters specified in Section 5(d)(ii)(B) – (D), I will be deemed to have filed with

the Corporation a single Redemption Notice electing to redeem all of the DSUs credited to my DSU Account on a single Redemption Date which will, subject to Section 5(d)(i), be the date which is six months after my Date of Termination; and

8. acknowledge and understand that this Redemption Notice will become irrevocable on the applicable deadline date specified in paragraph 5, above.

Date

Witness Signature

Signature of Designated Participant

Name of Designated Participant (please print)

Witness Name (please print)

**SCHEDULE "D" (TO THE DEFERRED SHARE UNIT PLAN
OF NXT ENERGY SOLUTIONS INC.)**

CERTIFICATE OF U.S. PARTICIPANT

This Certificate is delivered pursuant to Section 12(b) of the Deferred Share Unit Plan of NXT Energy Solutions Inc. (the "**Corporation**"), and evidences that the undersigned, _____, being the holder (the "**DSU Holder**") of "deferred share units" (the "**DSUs**") which may entitle the DSU Holder to receive certain shares (the "**Common Shares**") of the capital stock of the Corporation upon such term, conditions and price as set forth in the Plan, hereby represents, warrants, acknowledges and affirms as follows:

1. the undersigned is a resident of the United States of America; and
2. the undersigned, in his/her capacity as a Designated Participant of the Corporation, has had full access to the books and records of the Corporation; has had the opportunity to access and review the Corporation's public Internet filings on the System for Electronic Document Analysis and Retrieval at www.sedar.com and to consult with his/her legal and tax advisors with regard thereto; has been offered the opportunity to ask questions and receive answers from management concerning the Corporation and its securities; and that any request for such information has been complied with to the undersigned's satisfaction; and
3. the undersigned understands and agrees that all certificate(s) representing any Common Shares issued in respect of the DSUs will be endorsed with, and be subject to the terms and conditions of, the following U.S. restrictive legend:

"THE SECURITIES REPRESENTED HEREBY HAVE NOT BEEN REGISTERED UNDER THE UNITED STATES SECURITIES ACT OF 1933, AS AMENDED (THE "U.S. SECURITIES ACT") OR UNDER ANY STATE SECURITIES LAWS. THE HOLDER HEREOF, BY PURCHASING SUCH SECURITIES, AGREES FOR THE BENEFIT OF NXT ENERGY SOLUTIONS INC. ("THE CORPORATION") THAT SUCH SECURITIES MAY BE OFFERED, SOLD OR OTHERWISE TRANSFERRED ONLY (A) TO THE CORPORATION, (B) PURSUANT TO AN EFFECTIVE REGISTRATION STATEMENT UNDER THE U.S. SECURITIES ACT AND APPLICABLE STATE LAWS; (C) OUTSIDE THE UNITED STATES IN ACCORDANCE WITH REGULATION S UNDER THE U.S. SECURITIES ACT, (D) WITHIN THE UNITED STATES IN ACCORDANCE WITH AN EXEMPTION FROM REGISTRATION UNDER THE U.S. SECURITIES ACT PROVIDED BY RULE 144 OR 144A THEREUNDER, IF AVAILABLE, AND IN COMPLIANCE WITH ANY APPLICABLE STATE SECURITIES LAWS, OR (E) IN A TRANSACTION THAT DOES NOT REQUIRE REGISTRATION UNDER THE U.S. SECURITIES ACT OR APPLICABLE STATE SECURITIES LAWS, AND THE SELLER HAS FURNISHED TO THE CORPORATION AN OPINION TO SUCH EFFECT, FROM COUNSEL OF RECOGNIZED STANDING REASONABLY SATISFACTORY TO THE CORPORATION, PRIOR TO SUCH OFFER, SALE OR TRANSFER UNDER (D) OR (E) ABOVE. DELIVERY OF THIS CERTIFICATE MAY NOT CONSTITUTE GOOD DELIVERY IN SETTLEMENT OF TRANSACTIONS ON STOCK EXCHANGES IN CANADA.

SUBJECT TO APPLICABLE CANADIAN LAW, AND PROVIDED THAT THE FOLLOWING PROCEDURE COMPLIES WITH U.S. SECURITIES LAWS AT THE TIME OF SALE, A NEW CERTIFICATE BEARING NO U.S. RESTRICTIVE LEGENDS MAY BE OBTAINED FROM THE CORPORATION'S REGISTRAR AND TRANSFER AGENT UPON DELIVERY OF THIS CERTIFICATE AND A DULY EXECUTED DECLARATION, IN A FORM SATISFACTORY TO THE TRANSFER AGENT AND THE CORPORATION, TO THE EFFECT THAT SUCH SALE IS

BEING MADE IN ACCORDANCE WITH REGULATION S UNDER THE U.S. SECURITIES ACT."

Provided that, if the Common Shares bearing such legend are being sold outside the United States in compliance with Rule 904 of such Regulation S and in compliance with applicable local laws and regulations, the Corporation shall use its reasonable best efforts to cause the legend to be timely removed upon delivery of the certificate and a duly executed declaration to the Corporation's registrar and transfer agent in the form attached hereto as "Exhibit 1" to this Schedule "D" (or as the Corporation may reasonably prescribe from time to time); *provided, further*, that if any such Common Shares are being sold pursuant to Rule 144 under the U.S. Securities Act, the legend may be removed by delivery to the Corporation's registrar and transfer agent of an opinion of U.S. counsel of recognized standing in form and substance satisfactory to the Corporation, to the effect that the legend is no longer required under applicable requirements of the U.S. Securities Act and applicable state securities laws.

Please issue a certificate for the Common Shares (if any) being issued pursuant to my DSUs as follows:

Name: _____
(please print)

Address: _____

Signature of DSU Holder:

Date

Witness Signature

Signature of Designated Participant

Name of Designated Participant (please print)

Witness Name (please print)

**EXHIBIT 1 TO SCHEDULE "D" (TO THE DEFERRED SHARE UNIT PLAN
OF NXT ENERGY SOLUTIONS INC.)**

DECLARATIONS FOR REMOVAL OF U.S. RESTRICTIVE LEGEND

To: Computershare Trust Company, as registrar and transfer agent for the shares of NXT Energy Solutions Inc.
 (the "**Corporation**")

The undersigned (A) acknowledges that the sale of _____ shares of the Corporation, represented by certificate number _____, to which this declaration relates, has been made in reliance on Rule 904 of Regulation S under the United States Securities Act of 1933, as amended (the "**1933 Act**"), and (B) certifies that (1) the undersigned is not an "affiliate" (as defined in Rule 405 under the 1933 Act) of the Corporation, or is an "affiliate" solely by virtue of being an officer and/or Director thereof; (2) the offer of such securities was not made to a "US Person" or to a person in the United States and either (a) at the time the buy order was originated, the buyer was outside the United States, or the seller and any person acting on its behalf reasonably believe that the buyer was outside the United States, or (b) the transaction was executed on or through the facilities of The Toronto Stock Exchange, and neither the seller nor any person acting on its behalf knows that the transaction was prearranged with a buyer in the United States; (3) in the case of the undersigned being an officer and/or Director of the Corporation, no selling concession, fee or other remuneration will be paid in connection with such offer and sale other than the usual and customary broker's commission; and (4) neither the seller nor any person acting on its behalf engaged in any directed selling efforts in connection with the offer and sale of such securities. Terms used herein have the meanings given to them by Regulation S.

Date

Witness Signature

Signature of Designated Participant

Name of Designated Participant (please print)

Witness Name (please print)

Affirmation by Seller's Broker-Dealer

We have read the foregoing representations of our customer with regard to the sale of shares described therein, and on behalf of ourselves we certify and affirm that (A) we have no knowledge that the transaction had been prearranged with a buyer in the United States, (B) the transaction was executed on or through the facilities of The Toronto Stock Exchange and (C) neither we, nor any person acting on our behalf, engaged in any directed selling efforts in connection with the offer and sale of such securities. Terms used herein have the meanings given to them by Regulation S.

Name of Firm

By: _____
 Signature of Authorized officer

Name of Authorized officer (please print)

Date

SCHEDULE "H"
STATEMENT OF CORPORATE GOVERNANCE PRACTICES

The table below describes the corporate governance practices of NXT Energy Solutions Inc. (the "**Company**") as set out in Form 58-101F1 – *Corporate Governance Disclosure*. Defined terms used herein have the same meaning as in the Company's Information Circular dated May 10, 2019.

Content of Provision	Governance Practices of the Company
Board of Directors	
Disclose the identity of directors who are independent.	The Board has determined that three of the five current directors are "independent" within the meaning of NI 52-110. The three independent directors at the date of the Information Circular were John Tilson, Thomas E. Valentine and Bruce G. Wilcox. George Liszicasz is an "Executive Officer" of the Company within the meaning of NI 51-102 and is therefore not independent. Mr. Selby served as Interim Chief Financial Officer from December 2017 to January 2018, and within the meaning of NI 51-102 is therefore not independent.
Disclose the identity of directors who are not independent and describe the basis for that determination.	
Disclose whether or not a majority of directors are independent. If a majority of directors are not independent, describe what the board of directors (the board) does to facilitate its exercise of independent judgement in carrying out its responsibilities.	
If a director is presently a director of any other issuer that is a reporting issuer (or the equivalent) in a jurisdiction or a foreign jurisdiction, identify both the director and the other issuer.	Such other directorships have been disclosed in this Information Circular.
Disclose whether or not the independent directors hold regularly scheduled meetings at which non-independent directors and members of management are not in attendance. If the independent directors hold such meetings, disclose the number of meetings held since the beginning of the issuers most recently completed financial year. If the independent directors do not hold such meetings, describe what the board does to facilitate open and candid discussion among its independent directors.	The current Corporate Governance Committee is composed of three of the independent directors. The Corporate Governance Committee meets in person or by conference call at least monthly, or more frequently as required. Non-independent directors and members of management are not in attendance at these meetings. The Corporate Governance Committee also meets on an ad hoc basis where circumstances warrant.
Disclose whether or not the chair of the board is an independent director. If the board has a chair or lead director who is an independent director, disclose the identity of the independent chair or lead director, and describe his or her role and responsibilities. If the board has neither a chair that is independent nor a lead director that is independent, describe what the board does to provide leadership for its independent directors.	George Liszicasz is the Chairman of the Board. Mr. Liszicasz also serves as the President & Chief Executive Officer of the Company and is considered an "Executive Officer" of the Company within the meaning of NI 52-110, and is therefore not independent. Charles Selby is the Lead Director. Mr. Selby served as Interim Chief Financial Officer of the Company from December 2017 to January 2018 as is considered to have been, within the last three years, an "Executive Officer" of the Company within the meaning of NI 52-110 and is therefore not independent. The Board continues to have confidence in the independent judgement of Mr. Selby, even though he performed some Chief Financial Officer duties from December 2017 to January 2018. He was appointed as NXT's Lead Director in 2016.

Content of Provision	Governance Practices of the Company
	<p>The Lead Director is responsible for:</p> <ul style="list-style-type: none"> • facilitating the functioning of the Board independent of management and ensuring that directors have an independent leadership contact; • ensuring that the Board has adequate resources, especially by way of full, timely and relevant information to support its decision-making requirements; • assisting and providing input to the Chairman of the Board on preparation of agendas for Board meetings as required; • consulting with the Chairman of the Board on the effectiveness of Board committees; • ensuring that independent directors have adequate opportunities to meet to discuss issues without Management present; • chairing Board meetings when the Chairman of the Board and Chief Executive Officer of the Company are not in attendance; • ensuring delegated committee functions are carried out and reported to the Board, for example, the Chief Executive Officer of the Company performance assessment, Chief Executive Officer of the Company and Board succession planning, and strategic planning; and • acting as a liaison between the Board and management.
<p>Disclose the attendance record of each director for all board meetings held since the beginning of the issuers most recently completed financial year.</p>	<p>The attendance records for all Board and Board committee meetings has been disclosed in the Information Circular. Please see the section under the heading "<i>Corporate Governance</i>" in the Information Circular for more details.</p>
<i>Board Mandate</i>	
<p>Disclose the text of the board's written mandate. If the board does not have a written mandate, describe how the board delineates its role and responsibilities.</p>	<p>The mandate of the Board is appended to the Information Circular as Schedule "J".</p>
<i>Position Descriptions</i>	
<p>Disclose whether or not the board has developed written position descriptions for the chair and the chair of each board committee. If the board has not developed written position descriptions for the chair and/or the chair of each board committee, briefly describe how the board delineates the role and responsibilities of each such position.</p>	<p>Written position descriptions have been developed for the Chairman of the Board, the Lead Director and for the Chair of each Board committee as well as for the Chief Executive Officer of the Company and the Chief Financial Officer of the Company.</p> <p>In addition, both current and newly elected members of the Board are provided a briefing note, prepared by the Governance Committee, which describes the roles and responsibilities of Board members, sub-committee chairs, and executives.</p>
<p>Disclose whether or not the board and CEO have developed a written position description for the CEO. If the board and CEO have not developed such a position description, briefly describe how the board delineates the role and responsibilities of the CEO.</p>	<p>A written position description has been developed for the Chief Executive Officer of the Company by the Corporate Governance Committee of the Board.</p> <p>In addition, both current and newly elected members of the Board are provided a briefing note, prepared by the Governance Committee, which describes the roles and responsibilities of Board members, sub-committee chairs, and executives.</p>
<i>Orientation and Continuing Education</i>	
<p>Briefly describe what measures the board takes to orient new directors regarding</p> <p>(i) the role of the board, its committees and its directors, and</p>	<p>New directors meet with the Board and senior management to discuss the business activities of the Company and are given the opportunity to familiarize themselves with the Company and gain insight into the Company's business, business plans and operations</p>

Content of Provision	Governance Practices of the Company
<p>(ii) the nature and operation of the issuer's business.</p> <p>Briefly describe what measures, if any, the board takes to provide continuing education for its directors. If the board does not provide continuing education, describe how the board ensures that its directors maintain the skill and knowledge necessary to meet their obligations as directors.</p>	<p>by visiting the Company's offices and reviewing SFD[®] survey documentation and processes.</p> <p>In addition, both current and newly elected members of the Board are provided a briefing note, prepared by the Governance Committee, which, among other things, serves as a both an orientation for new Board members and an update for existing Board members with respect to relevant topics in corporate governance.</p>
<i>Ethical Business Conduct</i>	
<p>Disclose whether or not the board has adopted a written code for the directors, officers and employees. If the board has adopted a written code:</p> <p>(i) disclose how a person or company may obtain a copy of the code;</p> <p>(ii) describe how the board monitors compliance with its code, or if the board does not monitor compliance, explain whether and how the board satisfies itself regarding compliance with its code; and</p> <p>(iii) provide a cross-reference to any material change report filed since the beginning of the issuers most recently completed financial year that pertains to any conduct of a director or executive officer that constitutes a departure from the code.</p>	<p>The Company has adopted a Code of Conduct and Business Ethics (the "Code") for all directors, officers, employees and consultants.</p> <p>The Code is available on the Company's intranet site. Additionally, the Code is available on the Company's website at www.nxtenergy.com. The Code is also filed on SEDAR. Lastly, should anyone wish a hard copy of any of these policies, they may be obtained on request from the Corporate Secretary at 302, 3320 17th Avenue SW, Calgary, AB T3E 0B4.</p> <p>Compliance is monitored by the Audit Committee receiving, annually, certificates from NXT's officers and senior management confirming their compliance with the Code. The Audit Committee reviews the certifications and reports to the Board. In addition to the annual certification of the officers, each employee and consultant receives annually a communication from management reiterating the need to comply with the Code.</p>
<p>Describe any steps the board takes to ensure directors exercise independent judgement in considering transactions and agreements in respect of which a director or executive officer has a material interest.</p>	<p>Directors must disclose all interests and relationships of which the director is aware which may give rise to a conflict of interest. Directors are also required to disclose any actual or potential personal interest in a matter on which the Board is deciding and withdraw from deliberations and voting on the matter.</p>
<p>Describe any other steps the board takes to encourage and promote a culture of ethical business conduct.</p>	<p>All Board members as well as all employees have received a copy of the Code and have signed a Certification of Compliance Form acknowledging their understanding and compliance therewith. The Code provides guidance in a number of areas to ensure fair, ethical, lawful and consistent conduct by the Company and its employees. The Code specifically deals with business ethics, employment practices, insider trading and conflicts of interest.</p>
<i>Nomination of Directors</i>	
<p>Describe the process by which the board identifies new candidates for board nomination.</p> <p>Disclose whether or not the board has a nominating committee composed entirely of independent directors. If the board does not have a nominating committee composed entirely of independent directors, describe what steps the board takes to encourage an objective nomination process.</p>	<p>The Chairman of the Board, in consultation with the Board, is responsible for proposing new nominees to the Board. The Governance Committee, in its discussions with the Board, will determine what competencies and skills the Board considers necessary to discharge its duties and will identify potential candidates based on the skills required to fulfill its needs. Other factors considered by the Board are an individual's experience, expertise, and reputation.</p>

Content of Provision	Governance Practices of the Company
If the board has a nominating committee, describe the responsibilities, powers and operation of the nominating committee.	NXT does not have a nominating committee; however, the Governance Committee is composed entirely of independent directors and is charged with recommending new candidates for nomination to the Board.
Compensation	
Describe the process by which the board determines the compensation for the issuer's directors and officers.	The Compensation Committee has the primary responsibility for determining compensation for the directors and senior officers with the objective of ensuring the compensation package is fair and consistent with industry practices. Where appropriate the Compensation Committee will engage outside compensation consultants to obtain industry comparisons and receive independent recommendations. The Compensation Committee is composed entirely of independent members.
Disclose whether or not the board has a compensation committee composed entirely of independent directors. If the board does not have a compensation committee composed entirely of independent directors, describe what steps the board takes to ensure an objective process for determining such compensation.	
If the board has a compensation committee, describe the responsibilities, powers and operation of the compensation committee.	The Board has adopted a formal mandate for the Compensation Committee, which provides that the Compensation Committee is responsible for reviewing and approving the compensation of the directors and officers of the Company. The Compensation Committee also reviews and approves changes to the Company's compensation policies and approves the hiring of executive management recruited from outside the Company.
Other Board Committees	
If the board has standing committees other than the audit, compensation and nominating committees, identify the committees and describe their function.	The Company has two other standing committees; Corporate Governance Committee and Disclosure Committee. The description of committee functions has been disclosed in the "Corporate Governance" and "Disclosure Committee" sections of the Information Circular.
Assessments	
Disclose whether or not the board, its committees and individual directors are regularly assessed with respect to their effectiveness and contribution. If assessments are regularly conducted, describe the process used for the assessments. If assessments are not regularly conducted, describe how the board satisfies itself that the board, its committees, and its individual directors are performing effectively.	In 2014, the Governance Committee initiated an annual Board member "self-assessment" and feedback review process, the results of which are summarized and discussed amongst the Board. In mid-2017, the Governance Committee supplemented this process with a monthly Governance Committee conference call wherein these assessments, among other matters, are assessed and thereafter reported to the Board. This process continues.
Director Term Limits and Other Mechanisms of Board Renewal	
Disclose whether or not the issuer has adopted term limits for the directors on its board or other mechanisms of board renewal and, if so, include a description of those director term limits or other mechanisms of board renewal. If the issuer has not adopted director term limits or other mechanisms of board renewal, disclose why it has not done so.	There is currently no formal term limit in place for members of the Board, however the Board is elected annually by the Shareholders. The Governance Committee is tasked with ensuring members of the Board are fit to serve as members of the Board, and to ensure members of the Board stay current on corporate governance trends.
Policies Regarding the Representation of Women on the Board	

Content of Provision	Governance Practices of the Company
<p>Disclose whether the issuer has adopted a written policy relating to the identification and nomination of women directors. If the issuer has not adopted such a policy, disclose why it has not done so.</p> <p>If an issuer has adopted a policy referred to in (i), disclose the following in respect of the policy: (A) a short summary of its objectives and key provisions, (B) the measures taken to ensure that the policy has been effectively implemented, (C) annual and cumulative progress by the issuer in achieving the objectives of the policy, and (D) whether and, if so, how the board or its nominating committee measures the effectiveness of the policy.</p>	<p>While the Board has not adopted a written policy relating to the identification and nomination of women directors, it embraces a broad concept of diversity that encompasses additional factors including age, race, personal attributes, skills, training, educational background and life experience. This allows the Board to identify and select new directors from the widest possible group of potential candidates in order to best serve the interests of NXT and its Shareholders. NXT believes identifying capable and diverse nominees for the Board is best achieved with this broad approach, instead of being constrained by quotas or specific targets. This approach is part of NXT's commitment to ensure that the Board has the required range of skills, knowledge, experience and perspectives to provide the strategic direction and leadership necessary for NXT to achieve its business objectives.</p>
<i>Consideration of the Representation of Women in the Director Identification and Selection Process</i>	
<p>Disclose whether and, if so, how the board or nominating committee considers the level of representation of women on the board in identifying and nominating candidates for election or re-election to the board. If the issuer does not consider the level of representation of women on the board in identifying and nominating candidates for election or re-election to the board, disclose the issuer's reasons for not doing so.</p>	<p>Although NXT does not specifically evaluate candidates based on the level of representation of women on the Board, it does consider candidates against an objective merit-based criteria which gives due regard to the value of varying perspectives. This allows NXT to ensure that the Board is inclusive of the different perspectives necessary to best serve the interests of NXT and its Shareholders, while avoiding an inflexible approach based on percentage of representation.</p>
<i>Consideration Given to the Representation of Women in Executive Officer Appointments</i>	
<p>Disclose whether and, if so, how the issuer considers the level of representation of women in executive officer positions when making executive officer appointments. If the issuer does not consider the level of representation of women in executive officer positions when making executive officer appointments, disclose the issuer's reasons for not doing so.</p>	<p>NXT's position with respect to the representation of women in executive officer positions is the same as its position with respect to the representation of women on the Board. NXT does not consider quotas or specific targets of representation in the hiring process, but instead promotes on a merit-based system that values diversity of skills, knowledge, experience and perspectives. This allows for the most capable candidates to be hired, while ensuring a wide variety of perspectives can be utilized to best serve the interests of NXT.</p>
<i>Issuer's Targets Regarding the Representation of Women on the Board and in Executive Officer Positions</i>	
<p>(i) For purposes of this Item, a "target" means a number or percentage, or a range of numbers or percentages, adopted by the issuer of women on the issuer's board or in executive officer positions of the issuer by a specific date.</p> <p>(ii) Disclose whether the issuer has adopted a target regarding women on the issuer's board. If the issuer has not adopted a target, disclose why it has not done so.</p> <p>(iii) Disclose whether the issuer has adopted a target regarding women in executive officer positions</p>	<p>The Board has not adopted a target regarding women on the Board or in executive officer positions for the reasons set out above. The Board feels that adopting such a target could unduly restrict NXT's ability to identify and select the most qualified people.</p>

Content of Provision	Governance Practices of the Company
<p>of the issuer. If the issuer has not adopted a target, disclose why it has not done so.</p> <p>(iv) If the issuer has adopted a target referred to in either (ii) or (iii), disclose: (A) the target, and (B) the annual and cumulative progress of the issuer in achieving the target.</p>	
<p><i>Number of Women on the Board and in Executive Officer Positions</i></p>	
<p>(i) Disclose the number and proportion (in percentage terms) of directors on the issuer's board who are women.</p>	<p>Currently 0 (0%) of NXT's Board members are women, but there is one female nominee up for election at the Meeting – if elected, and the rest of the nominees are also elected, 1 (16.7%) of the Board members would be a woman.</p>
<p>(ii) Disclose the number and proportion (in percentage terms) of executive officers of the issuer, including all major subsidiaries of the issuer, who are women.</p>	<p>Currently 0 (0%) of NXT's executive officers are women.</p>

SCHEDULE "I" AUDIT COMMITTEE CHARTER

INTRODUCTION

This charter (the "**Charter**") has been adopted to govern the composition, mandate, responsibilities and authority of the Audit Committee (the "**Committee**") of the Board of Directors (the "**Board**") of NXT Energy Solutions Inc. (the "**Company**").

COMPOSITION AND PROCEDURES

1. The Committee shall be appointed by the Board and shall be composed of three directors, with at least two of whom being "independent" as required by the *Business Corporations Act* (Alberta) (the "**Act**").
2. The Board will appoint the chair of the Committee.
3. The quorum for meetings shall be a majority of the members of the Committee, present in person or by telephone or other telecommunication device that permits all persons participating in the meeting to speak and to hear each other.
4. Meetings of the Committee shall be conducted as follows:
 - (a) the Committee shall meet, in person or by teleconference, at least four times annually at such times and locations as may be requested by the chair of the Committee. Notice of meetings to the members shall be the same as set out in the by-laws of the Company for meetings of the Board. The Auditors or any member of the Committee may request a meeting of the Committee; and
 - (b) management representatives may be invited to attend meetings (except private sessions with the Auditors as defined below).

PRIMARY RESPONSIBILITIES OF THE COMMITTEE

The primary responsibilities of the Committee are:

1. To recommend to the Board:
 - (a) the external auditor (the "**Auditors**") to be nominated for appointment by the Shareholders of the Company for the purpose of preparing or issuing the Auditor's report or performing other audit, review or attest services for the Company; and
 - (b) the compensation of the Auditors.
2. To oversee the work of the Auditors in preparing or issuing the Auditor's report on the Company's annual consolidated financial statements or performing other audit, review or attest services for the Company including the resolution of disagreements between management of the Company and the Auditors regarding financial reporting.
3. To pre-approve, as required by the Act and subject to the exemptions in the Act, all non-audit services to be provided to the Company by the Auditors. The Committee may, in accordance with the requirements of the Act, delegate to one or more members of the Committee the authority to pre-approve non-audit services to be provided by the Auditors, provided that all such pre-approvals of non-audit services shall be presented to the Committee at its first scheduled meeting following such pre-approval.
4. To review:
 - (a) the Company's unaudited quarterly consolidated financial statements for the first, second and third quarters of the Company's fiscal year ("**quarterly statements**") and the Company's audited annual consolidated financial statements ("**annual statements**");

- (b) the Management's Discussion and Analysis ("**MD&A**") prepared in conjunction with the quarterly and annual statements; and
 - (c) all press releases to be issued by the Company with respect to its annual and quarterly earnings and press releases on other material financial reporting matters.
5. To satisfy itself that adequate procedures are adopted by the Company for the review of the Company's public disclosure of financial information extracted or derived from the Company's financial statements other than the public disclosure referred to in section 4 above, and to regularly assess the adequacy of such procedures.
 6. To satisfy itself that adequate procedures are adopted and oversee the maintenance of procedures for:
 - (a) the receipt, retention and treatment of complaints received by the Company regarding accounting, internal accounting controls or auditing matters; and
 - (b) the confidential anonymous submission by employees of the Company and its subsidiaries of concerns regarding questionable accounting or auditing matters.
 7. To review and approve the Company's and its subsidiaries' hiring policies regarding partners, employees and former partners and employees of the current and former Auditors of the Company and its subsidiaries.

AUTHORITY OF THE COMMITTEE

Subject to prior consultation with the Chief Executive Officer or the Chief Financial Officer (except in unusual circumstances), the Committee is authorized to:

1. engage independent counsel and other advisors it determines necessary to carry out the Committee's duties and responsibilities;
2. set and require the Company to pay the compensation and charged expenses for any advisors engaged by the Committee; and
3. communicate directly with any internal audit staff of the Company and its subsidiaries (if any) and the Auditors.

ADDITIONAL RESPONSIBILITIES AND DUTIES OF THE COMMITTEE

Auditors

1. The Committee shall ensure that the Company requires and instructs the Auditors to report directly to the Committee.
2. The Committee is responsible for ensuring the independence of the Auditors. On an annual basis, the Committee shall obtain a formal written statement from the Auditors delineating all relationships between the Auditors and the Company and confirming the independence of the Auditors. This written statement shall be obtained in conjunction with the audit of the annual financial statements after each fiscal year end.

Review of Annual Financial Statements

The Committee shall review the annual financial statements and related MD&A of the Company prior to their public release and shall report the results of its review to the Board and make recommendations to the Board with respect to Board approval of the financial statements and related MD&A. At the Committee meeting at which the Company's annual financial statements are to be reviewed, the Committee shall meet, in person or by teleconference, with representatives of the Auditors and with the Company's management to assess and understand the annual financial statements and the results of the audit including, but not limited to:

1. that the Company's system of internal controls and financial reporting systems are adequate to produce fair and complete disclosure of its financial results;
2. that the Company's reporting is complete and fairly presents its financial condition in accordance with generally accepted accounting principles;

3. that accounting judgments and estimates used by management are reasonable and do not constitute earnings management;
4. that risk management policies are in place to identify and reduce significant financial and business risks; and
5. that the Company has in place a system to ensure compliance with applicable laws, regulations and policies.

Review of Quarterly Financial Statements

The Committee shall review the interim quarterly financial statements and related MD&A of the Company prior to their public release and shall report the results of its review to the Board and make recommendations to the Board with respect to Board approval of the quarterly statements and related MD&A unless the Board has delegated to the Committee the authority to approve the quarterly statements and related MD&A, in which case the Committee shall also approve the quarterly statements and related MD&A. The review by the Company shall be substantially completed prior to the issuance of a press release respecting the quarterly financial results. The Committee shall meet with the Company's management to assess and understand the interim quarterly financial statements and to discuss the results of their preparation and review.

Other Responsibilities and Duties

1. As part of the quarterly and annual reviews described above, the Committee will:
 - (a) meet with management in the absence of the Auditors for the annual review;
 - (b) meet with the Auditors in the absence of management for the annual review;
 - (c) review with management and the Auditors any proposed changes in major accounting policies, the presentation and impact of significant risks and uncertainties, and key estimates and judgments of management that may be material to financial reporting;
 - (d) review with management and the Auditors any significant financial reporting issues discussed during the fiscal period and the method of resolution;
 - (e) review any problems experienced by the Auditors in performing the annual audit, including any restrictions imposed by management or significant accounting issues on which there was a disagreement with management;
 - (f) obtain an explanation from management of all significant variances between comparative reporting periods;
 - (g) review the post-audit or management letter, containing the recommendations of the Auditors, and management's response and subsequent follow up to matters raised by the Auditors;
 - (h) review any evaluation of internal controls by the Auditors, together with management's response; and
 - (i) review and reassess the Charter for adequacy at least annually and make changes as it deems necessary.
2. In addition to the quarterly and annual reviews, the Committee will:
 - (a) prior to the commencement of each annual audit, meet with the Auditors to review the Auditors' audit plan for the ensuing audit;
 - (b) review with management and the Auditors all material accounting and financial issues affecting the Company not dealt with in annual and quarterly reviews; and
 - (c) review annually and recommend changes to the Company's Code of Conduct & Business Ethics.
3. The Committee shall perform such other duties as may be required by the Board or as may be delegated to the Committee by the Board.

SCHEDULE "J" **BOARD MANDATE**

PURPOSE

The principal role of the Board of Directors of NXT Energy Solutions Inc. (the "**Company**") is stewardship of the Company through the creation of shareholder value, including the protection and enhancement of the value of its assets, as the fundamental objective. The stewardship responsibility means that the Board oversees the conduct of the business and management, which is responsible for the day-to-day conduct of the business. The Board must assess and ensure systems are in place to manage the risks of the Company's business with the objective of preserving the Company's assets. The Board, through the Chief Executive Officer ("**CEO**"), sets the attitude and disposition of the Company towards compliance with applicable laws, environmental, safety and health policies, financial practices and reporting. In addition to its primary accountability to shareholders, the Board is also accountable to employees, government authorities, other stakeholders and the public.

PRIMARY RESPONSIBILITIES

The principal responsibilities of the Board, which are required to ensure the overall stewardship of the Company are as follows:

1. The Board must ensure that there are long-term goals in place and must adopt a strategic planning process. The CEO, with the approval of the Board, must establish long-term goals for the Company. The CEO formulates the Company's strategy, policies and proposed actions and presents them to the Board for approval. The Board brings objectivity and judgment to this process. The Board ultimately approves, on an annual basis, the strategic plan which takes into account, among other things, the opportunities and risks of the Company's business.
2. The Board must identify and have an understanding of the principal risks associated with the Company's businesses and must ensure that appropriate systems are in place which effectively monitor and manage those risks.
3. The Board must ensure that processes are in place to enable it to monitor and measure management's, and in particular the CEO's, performance in achieving the Company's stated objectives. These processes should include appropriate training, development and succession planning of management.
4. To the extent feasible, the Board shall satisfy itself as to the integrity of the CEO and other executive officers and that the CEO and other executive officers create a culture of integrity throughout the Company.
5. The Board must ensure that the necessary internal controls and management systems are in place that effectively monitor the Company's operations and ensure compliance with applicable laws, regulations and policies.
6. The Board must monitor compliance with the Company's Code of Business Conduct and Ethics; and
7. The Board must ensure the Company has adopted a communication policy which effectively communicates with and receives feedback from shareholders. The Board must also ensure that the Company has appropriate processes in place to effectively communicate with employees, government authorities, other stakeholders and the public.

NON-DELEGABLE RESPONSIBILITIES

Pursuant to the Business Corporations Act (Alberta) (the "**Act**"), certain matters are considered to be of such importance, so as to warrant the attention of all Directors and, accordingly, the Act prescribes that the following matters either cannot be delegated or may only be delegated in a qualified or partial manner:

- the submission of items to shareholders for their approval;

- the filling of a vacancy among the directors or in the office of auditor;
- the appointment of additional directors;
- the issue of securities;
- the declaration of dividend;
- the purchase, redemption or other acquisition of the Company's own shares;
- the payment of certain commissions prescribed by the Act;
- the approval of a management proxy circular;
- the approval of annual financial statements; and
- the adoption, amendment or repeal of by-laws.

CUSTOMARY BOARD MATTERS

The following typifies matters customarily considered by the Board in fulfilling its responsibility for stewardship of the Company. The Board may determine it appropriate to delegate certain of these matters to committees of the Board:

- the appointment of officers, other than executive officers;
- adopting a process to consider the competencies and skills the Board, as a whole, should possess and assess the competencies and skills of each Board member and consider the appropriate size of the Board, with a view to facilitating effective decision-making;
- determining the remuneration of directors and auditors;
- reviewing and recommending to shareholders, changes to capital structure;
- approving the Company's long-term strategy and the annual capital expenditure plan of the Company and its subsidiaries and where appropriate any supplementary capital plan;
- approving banking, borrowing and investment policies;
- determining dividend policy;
- developing the Company's approach to corporate governance including, without limitation, developing a set of corporate governance principles and guidelines;
- approving the holding, location and date of meetings of shareholders;
- appointment of members to committees of the Board of Directors and approving terms of reference for and the matters to be delegated to such committees;
- granting any waivers from the Company's Code of Business Conduct and Ethics for the benefit of the Company's directors or executive officers;
- granting and delegating authority to designated officers and employees including the authority to commit capital, open bank accounts, sign bank requisitions and sign contracts, documents and instruments in writing;
- determining the number of directors and recommending nominees for election by the shareholders;
- approving amendments to the Company's existing plans: Stock Option Plan, employee benefits plans, or such other plans as the Company approves from time to time;
- approving the acquisition or disposition of certain corporate assets; and
- appointing the Company's transfer agents and registrars.

BOARD COMMITTEES

The Board of Directors has the authority to appoint a committee or committees of the Board and may delegate powers to such committees (with the exceptions prescribed by the Act). The matters to be delegated to committees of the Board and the constitution of such committees are assessed annually or more frequently as circumstances require. The following committees have been constituted:

1. the Audit Committee, to deal with financial reporting and control systems;
2. the Compensation Committee, to deal with the assessment of management and succession to key positions and compensation within the Company;
3. the Disclosure Committee, to deal with the Company's approach to disclosure and the promotion of compliance; and
4. the Corporate Governance Committee, to deal with the Company's approach to corporate governance and the promotion of compliance.

COMPOSITION & PROCEDURE

The Board of Directors is elected annually by shareholders. The number of Directors to be elected at shareholders meetings is fixed by the by-laws. While the election of directors is ultimately determined by the shareholders, it is the policy of the Board that a majority of the Directors be independent (as defined under applicable stock exchange rules and securities laws).

The Chairman of the Board presides as Chair at all meetings of the Board and shareholders of the Company. The Corporate Secretary or the Recording Secretary attends all meetings of the Board and shareholders and records the proceedings thereof. The Corporate Secretary prepares and keeps minutes and records of all meetings of the Board.

Meetings of the Board of Directors, including telephone conference meetings, are to be held at such time and place as the Chairman of the Board, or any two Directors, may determine. Notice of meetings shall be given to each Director in accordance with the by-laws. Meetings of the Board of Directors may be held without formal notice if all of the Directors are present and do not object to notice not having been given, or if those absent waive notice in any manner before or after the meeting.

Notice of meeting may be delivered personally, given by mail, facsimile or other electronic means of communication.

Each Board member is expected to attend Board meetings and meetings of committees of which he or she is a member and to become familiar with deliberations and decisions as soon as possible after any missed meetings. In that regard, members of the Board are expected to prepare for Board (and committee) meetings by reviewing meeting materials distributed to members of the Board, to the extent feasible, in advance of such meetings. Matters of a confidential or sensitive nature may be discussed at Board (or committee) meeting without advance distribution of meeting materials to members of the Board. It is expected that members of the Board will actively participate in determining and setting the long and short-term goals and interests of the Company.

In recognition of its independence, the Board shall regularly hold discussions without management present.

A resolution in writing signed by all the Directors entitled to vote on that resolution at a meeting of the Directors is as valid as if it had been passed at a meeting of the Directors. A copy of any such resolution in writing is kept with the minutes of the proceedings of the Directors.

At meetings of the Board, any matter requiring a resolution of the Directors is decided by a majority of the votes cast on the question; and in the case of an equality of votes, the Chair of the meeting is entitled to a second or casting vote.

The Board shall ensure that there is a process in place for annually evaluating the effectiveness of the Board, the committees of the Board and individual directors.

COMPENSATION

No Director, unless he or she is an officer of the Company, should receive remuneration from the Company other than compensation received in his or her capacity as a Director.

