

NXT ENERGY SOLUTIONS INC.

NOTICE OF ANNUAL MEETING OF SHAREHOLDERS

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

When: 1:00 pm (Calgary time) on Monday, June 7, 2021

Where: Virtual-only meeting, via live audio webcast at: <https://web.lumiagm.com/241856377>

The purpose of the Meeting will be to consider the following items of business:

1. to receive and consider the audited financial statements of the Company for the year ended December 31, 2020, the accompanying notes thereto, and the auditor's report in respect thereof;
2. to elect six directors of the Company;
3. 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**"); and
4. 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 management information circular which forms part of this Notice.

The Board has fixed April 23, 2021 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 30th day of April, 2021.

BY ORDER OF THE BOARD OF DIRECTORS

"George Liszicasz"

President & Chief Executive Officer,
Chairman of the Board of Directors

Important

As this is a virtual only Meeting, Shareholders are encouraged 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.