NXT ENERGY SOLUTIONS INC.



8th Floor, 100 University Avenue Toronto, Ontario M5J 2Y1 www.computershare.com

Security Class

Holder Account Number

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Form of Proxy - Annual and Special Meeting to be held on Monday, July 15, 2024

This Form of Proxy is solicited by and on behalf of Management.

Notes to proxy

- 1. Every holder has the right to appoint some other person or company of their choice, who need not be a holder, to attend and act on their behalf at the meeting or any adjournment or postponement thereof. If you wish to appoint a person or company other than the Management Nominees whose names are printed herein, please insert the name of your chosen proxyholder in the space provided (see reverse).
- 2. If the securities are registered in the name of more than one owner (for example, joint ownership, trustees, executors, etc.), then all those registered should sign this proxy. If you are voting on behalf of a corporation or another individual you may be required to provide documentation evidencing your power to sign this proxy with signing capacity stated.
- 3. This proxy should be signed in the exact manner as the name(s) appear(s) on the proxy.
- 4. If a date is not inserted in the space provided on the reverse of this proxy, it will be deemed to bear the date on which it was mailed to the holder by Management.
- 5. The securities represented by this proxy will be voted as directed by the holder, however, if such a direction is not made in respect of any matter, and the proxy appoints the Management Nominees listed on the reverse, this proxy will be voted as recommended by Management.
- 6. The securities represented by this proxy will be voted in favour, or withheld from voting, or voted against each of the matters described herein, as applicable, in accordance with the instructions of the holder, on any ballot that may be called for. If you have specified a choice with respect to any matter to be acted on, the securities will be voted accordingly.
- 7. This proxy confers discretionary authority in respect of amendments or variations to matters of business to be acted on at the meeting or any other matters properly brought before 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.
- 8. This proxy should be read in conjunction with the accompanying documentation provided by Management.

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Proxies submitted must be received by 10:00 am, Calgary Time, on Thursday, July 11, 2024.

VOTE USING THE TELEPHONE OR INTERNET 24 HOURS A DAY 7 DAYS A WEEK!



To Vote Using the Telephone

Call the number listed BELOW from a touch tone telephone

1-866-732-VOTE (8683) Toll Free



To Vote Using the Internet

- Go to the following web site: www.investorvote.com
- Smartphone?
 Scan the QR code to vote now.



If you vote by telephone or the Internet, DO NOT mail back this proxy.

Voting by mail may be the only method for securities held in the name of a corporation or securities being voted on behalf of another individual.

Voting by mail or by Internet are the only methods by which a holder may appoint a person as proxyholder other than the Management Nominees named on the reverse of this proxy. Instead of mailing this proxy, you may choose one of the two voting methods outlined above to vote this proxy.

To vote by telephone or the Internet, you will need to provide your CONTROL NUMBER listed below.

CONTROL NUMBER

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Appointment of Proxyholder

I/We the undersigned shareholder(s) of NXT Energy Solutions Inc. (the "Corporation") hereby appoint as proxyholders: Charles Selby, Chairman, or failing this person, Eugene Woychyshyn, Vice-President of Finance & Chief Financial Officer (the "Management Nominees")

OR

Print the name of the person you are appointing if this person is someone other than the Management Nominees listed herein.

as my/our proxyholder with full power of substitution and to attend, act and to vote for and on behalf of the holder in accordance with the following direction (or if no directions have been given, as the proxyholder sees fit) and on all other matters that may properly come before the Annual and Special Meeting of shareholders of the Corporation to be held at Norton Rose Fulbright Canada LLP, Suite 3700, 400 - 3rd Avenue SW, Calgary, Alberta T2P 4H2 on Monday, July 15, 2024 at 10:00 am, Calgary Time and at any adjournment or postponement thereof.

VOTING RECOMMENDATIONS ARE INDICATED BY HIGHLIGHTED TEXT OVER THE BOXES.

1. Election of Directors	For	Against		For	Against		For	Against
01. Peter Mork			02. Theodore Patsellis			03. Charles Selby		
04. Gerry Sheehan			05. John Tilson			06. Thomas E. Valentine		
07. Bruce G. Wilcox			08. Eugene Woychyshyn					
							For	Withhold
2. Appointment of Auditors								
Appointment of MNP LLP as Auditors of the Corporation for the ensuing year and authorizing the Directors to fix their remuneration.								
							For	Against
3. Control Person								
To consider and approve the Control 10, 2024.	Person F	Resolution,	the full text of which is reproduc	ced as Schedul	e "A" to the	e Information Circular dated June	е Ш	
, .							For	Against
4. Insider Participation								
To consider and approve the Insider Participation Resolution, the full text of which is reproduced as Schedule "B" to the Information Circular dated June 10, 2024.								
Julie 10, 2024.						For	Against	
5. Security Based Compensation Agreement							_	
To consider and approve the Security Based Compensation Agreement, the full text of which is reproduced as Schedule "C" to the Information Circular dated June 10, 2024.								
Signature of Proxyholder				Signature(s)		Date		
I/We authorize you to act in accordance w revoke any proxy previously given with res indicated above, and the proxy appoint voted as recommended by Managemen	s the Man	instructions e Meeting. I agement N	set out above. I/We hereby f no voting instructions are ominees, this Proxy will be				1 1	
Interim Financial Statements - Mark this box if like to receive Interim Financial Statements and accompanying Management's Discussion and Amail.	-		Annual Financial Statements - Mark like to receive the Annual Financial Sta accompanying Management's Discuss mail.	atements and				

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If you are not mailing back your proxy, you may register online to receive the above financial report(s) by mail at www.computershare.com/mailinglist.

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