

# Management's Discussion and Analysis

For the year ended December 31, 2023 (expressed in thousands of Canadian dollars, except as noted)

# CONTENTS

Cautionary Note Regarding Forward-Looking Information And Statements	3
Business Overview	4
2023 Highlights	5
Operations Outlook	12
Health, Safety, and Environment	
Financial Results	13
Financial Position Summary	
Liquidity and Capital Resources	
Capital Management	19
Contractual Obligations and Commitments	19
Summary of Quarterly Results	20
Summary of Selected Annual Financial Results	20
Related Party Transactions	21
Outstanding Share Data	22
Outstanding Convertible Debentures	22
Off-Balance Sheet Arrangements	22
Segment Information	22
Accounting Policy Overview	22
Critical Accounting Policies and Judgements	22
Key Sources of Estimation Uncertainty	22
Changes in Accounting Policies including Initial Adoption	23
Financial Instruments and Risk Management	23
Risk Factors	23
Financial Risks	23
Other Risk Factors	25
Disclosure Controls and Internal Control Over Financial Reporting	29
Disclosure Controls and Procedures	
Management's Report on Internal Control Over Financial Reporting	
Technical Disclosure	
Approval	

# **NexGen Energy Ltd.** Management's Discussion and Analysis for the year ended December 31, 2023 (expressed in thousands of Canadian dollars, except as noted)

This Management's Discussion and Analysis ("MD&A") was prepared as of March 6, 2024 and provides an analysis of the financial and operating results of NexGen Energy Ltd ("NexGen" or "the Company") for the year ended December 31, 2023. Additional information regarding NexGen, including its Annual Information Form for the year ended December 31, 2023, as well as other information filed with the Canadian, US and Australian securities regulatory authorities, is available under the Company's profile on SEDAR+ at www.sedarplus.ca, on the Electronic Data Gathering, Analysis, and Retrieval ("EDGAR") at <u>www.sec.gov</u>, and on the Australian Stock Exchange ("ASX") at www.asx.com.au, respectively. All monetary amounts are in thousands of Canadian dollars unless otherwise specified.

The following discussion and analysis of the financial condition and results of operations of NexGen should be read in conjunction with the Company's audited consolidated financial statements for the year ended December 31, 2023 and December 31, 2022 (the "Annual Financial Statements") and the related notes, which have been prepared in accordance with International Financial Reporting Standards ("IFRS").

On December 5, 2023, NexGen deconsolidated IsoEnergy Ltd. ("IsoEnergy") due to the completion of a merger between IsoEnergy and Consolidated Uranium Inc. ("CUR"),that pursuant to IFRS resulted in the loss of control of IsoEnergy. In accordance with IFRS, IsoEnergy's financial results are consolidated with those of NexGen up to December 4, 2023, including in this MD&A. IsoEnergy is listed on the TSX Venture Exchange under the ticker symbol "ISO" and has its own management, directors, internal control processes and financial budgets and finances its own operations. Further information regarding IsoEnergy is available under its own profile on <u>www.sedarplus.ca</u>.

Management is responsible for the Annual Financial Statements and this MD&A. The Audit Committee of the Company's Board of Directors (the "Board") reviews and recommends for approval to the Board, who then review and approve, the Annual Financial Statements and this MD&A. This MD&A contains forward-looking information. Please see the section, "Cautionary Note Regarding Forward-Looking Information" for a discussion of the risks, uncertainties and assumptions used to develop the Company's forward-looking information.

## **CAUTIONARY NOTE REGARDING FORWARD-LOOKING INFORMATION AND STATEMENTS**

This MD&A contains "forward-looking statements" within the meaning of the United States Private Securities Litigation Reform Act of 1995 and "forward-looking information" within the meaning of applicable Canadian securities legislation. Forward-looking information and statements include, but are not limited to, statements with respect to planned exploration and development activities, the future interpretation of geological information, the cost and results of exploration and development activities, future financings, the future price of uranium and requirements for additional capital.

Generally, forward-looking information and statements can be identified by the use of forward-looking terminology such as "plans", "expects", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates", or "believes" or the negative connotation thereof or variations of such words and phrases or state that certain actions, events or results "may", "could", "would", "might" or "will be taken", "occur" or "be achieved" or the negative connotation thereof.

Forward-looking information and statements are based on the then current expectations, beliefs, assumptions, estimates and forecasts about NexGen's business and the industry and markets in which it operates. Forwardlooking information and statements are made based upon numerous assumptions, including among others, that the results of planned exploration and development activities are as anticipated and on time; the price of uranium; the cost of planned exploration and development activities; that there will be limited changes in any project parameters as plans continue to be refined; that financing will be available if and when needed and on reasonable terms; that financial, uranium and other markets will not be adversely affected by a global pandemic (including COVID-19); that third-party contractors, equipment, supplies and governmental and other approvals required to conduct NexGen's planned exploration and development activities will be available on reasonable terms and in a timely manner; that there will be no revocation of government approvals; and that general business, economic, competitive, social and political conditions will not change in a material adverse manner; the expectations regarding mineral reserves and mineral resources; realization of mineral reserves and mineral resource estimates; results, estimates, assumptions and forecasts in the Rook I FS Technical Report (as defined below); the use of proceeds from financing activities, including the ATM Program and the 2023 Private Placement (each as defined below); and the amount of proceeds raised pursuant to the ATM Program. Although the assumptions made by the Company in providing forward looking information or making forward looking statements are considered reasonable by management at the time, there can be no assurance that such assumptions will prove to be accurate.

Forward-looking information and statements also involve known and unknown risks and uncertainties and other factors, which may cause actual results, performances and achievements of NexGen to differ materially from any projections of results, performances and achievements of NexGen expressed or implied by such forward-looking information or statements, including, among others, negative operating cash flow and dependence on third-party financing, uncertainty of additional financing, the risk that pending assay results will not confirm previously announced preliminary results, imprecision of mineral resource estimates, the appeal of alternate sources of energy and sustained low uranium prices, aboriginal title and consultation issues, exploration and development risks, uninsurable risks, reliance upon key management and other personnel, deficiencies in the Company's title to its properties, information security and cyber threats, uninsurable risks, failure to manage conflicts of interest, failure to obtain or maintain required permits and licenses, changes in laws, regulations and policy, competition for resources,; and financing and other factors discussed or referred to in the Company's most recent Annual Information Form under "Risk Factors".

Although the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in the forward-looking information or implied by forward-looking information, there may be other factors that cause results not to be as anticipated, estimated or intended.

There can be no assurance that forward-looking information and statements will prove to be accurate, as actual results and future events could differ materially from those anticipated, estimated or intended. Accordingly, readers should not place undue reliance on forward-looking statements or information. The forward-looking information and statements contained in this MD&A are made as of the date of this MD&A and, accordingly, are subject to change after such date. The Company undertakes no obligation to update or reissue forward-looking information as a result of new information or events except as required by applicable securities laws.

## **BUSINESS OVERVIEW**

NexGen is a British Columbia corporation with a focus on developing into production the 100% owned Rook I Project (the "Rook I Project" or the "Project") located in the southwestern Athabasca Basin of Saskatchewan, Canada. NexGen has a highly experienced team of uranium industry professionals with a successful track record in the discovery of uranium deposits and in the development of projects from discovery to production. NexGen also owns a portfolio of highly prospective exploration uranium properties in the southwestern Athabasca Basin of Saskatchewan, Canada.

The Rook I Project is the location of the Company's Arrow Deposit discovery in February 2014. The Arrow Deposit has Measured and Indicated Mineral Resources totalling 3.75 million tonnes ("Mt") grading 3.10%  $U_3O_8$  containing 257 million ("M") Ibs  $U_3O_8$ . The Probable Mineral Reserves were estimated at 240 M Ibs  $U_3O_8$  contained in 4.6Mt grading 2.37%  $U_3O_8$ . See "*Feasibility Study*" below.

The Company has also intersected numerous other mineralized zones on trend from Arrow along the Patterson Corridor on Rook I which are subject to further exploration before economic potential can be assessed. The Rook I Project consists of thirty-two (32) contiguous mineral claims totaling 35,065 hectares.

The Company's common shares (the "Shares") trade on the Toronto Stock Exchange (the "TSX") and the New York Stock Exchange (the "NYSE") under the symbol "NXE", and on the ASX in the form of Chess Depository Instruments ("CDIs") under the symbol "NXG".

## 2023 HIGHLIGHTS

## Corporate

On January 6, 2023, NexGen established an at-the-market equity program (the "ATM Program") pursuant to the terms of an equity distribution agreement dated January 6, 2023 (the "January Sales Agreement") among the Company, Virtu ITG Canada Corp., as Canadian agent, and Virtu Americas, LLC, as U.S. agent (together, the "Agents"), which allowed it to issue up to \$250 million of Shares to the public, from time to time, at its discretion, on the TSX and/or the NYSE, and/or any other marketplace for the Shares in Canada or the United States or as otherwise agreed between the Agents and NexGen. The ATM Program is designed to provide NexGen with additional financing flexibility which may be used in conjunction with other funding sources.

On January 31, 2023, NexGen appointed Mr. Ivan Mullany to the Board.

On April 26, 2023, the Company announced the publication of its 2022 Sustainability Report highlighting the specific programs, initiatives, and organizational frameworks that NexGen has created or expanded upon to demonstrate the continued seamless integration of sustainability throughout the Company.

On May 1, 2023, NexGen announced it received significant initial interest from prospective financial institutions, including commercial lenders and export credit agencies, for providing project financing for the Project. The Company received non-binding expressions of interest totalling over US\$1 billion in available debt for the Project, subject to acceptable financing terms and conditions as well as satisfactory due diligence (including environmental and social reviews) and the entering into of definitive documentation.

On August 29, 2023, the Company announced the appointment of Benjamin Salter as Chief Financial Officer and Tracy Primeau as Special Advisor.

On September 22, 2023, NexGen announced the closing of a private placement (the "2023 Private Placement") of US\$110 million in aggregate principal amount of 9.0% unsecured convertible debentures (the "2023 Debentures") with Queen's Road Capital Investment Ltd. ("QRC") and Washington H Soul Pattinson and Company Limited ("WHSP"). The Company paid a 3% establishment fee of \$4,443 (US\$3,300) to the investors through the issuance of 634,615 Shares.

In connection with the 2023 Private Placement, the Company entered into an amended and restated investor rights agreement with QRC and an investor rights agreement with WHSP, each containing voting alignment, standstill, and transfer restriction covenants that will apply (subject to certain exceptions) unless and until there is a change of control of the Company. Copies of the investor rights agreements are available under the Company's profile on SEDAR+ at www.sedarplus.ca.

On September 28, 2023, QRC elected to convert into Shares the US\$15 million aggregate principal amount of 7.5% unsecured convertible debentures issued by the Company in 2020, that were due to mature on May 27, 2025 (the "2020 Debentures"). The Company issued 8,663,461 Shares relating to the conversion of the principal and 19,522 Shares relating to the accrued and unpaid interest up to the date of conversion for the 2020 Debentures.

# **NexGen Energy Ltd.** Management's Discussion and Analysis for the year ended December 31, 2023 (expressed in thousands of Canadian dollars, except as noted)

On December 5, 2023, IsoEnergy and CUR completed a merger (the "Merger"), whereby IsoEnergy acquired all of the issued and outstanding common shares of CUR (the "CUR Shares"). CUR shareholders received 0.500 common shares of IsoEnergy (each whole share, an "IsoEnergy Share") for each CUR Share held. Following completion of the Merger, the IsoEnergy Shares continued to trade on the TSXV.

In connection with the Merger, on October 19, 2023, IsoEnergy closed a private placement of 8,134,500 subscription receipts at an issuance price of \$4.50 ("Iso Subscription Receipts"). Each Iso Subscription Receipt entitled the holder thereof to receive, for no additional consideration and without further action on part of the holder thereof, on or about the date the Merger is completed, one IsoEnergy Share. NexGen participated in the private placement by purchasing 3,333,350 Iso Subscription Receipts at an issuance price of \$4.50 per subscription, totalling \$15 million. On December 5, 2023, the 3,333,350 Iso Subscription Receipts held by NexGen were converted into 3,333,350 IsoEnergy Shares.

Upon completion of the Merger, NexGen's ownership in IsoEnergy decreased from 48.7% immediately prior to the transaction to 34.0% as of December 5, 2023, resulting in NexGen's loss of control as defined by IFRS and subsequent deconsolidation of IsoEnergy. From December 5, 2023 to December 31, 2023, NexGen's investment in IsoEnergy has been accounted for using the equity method.

On December 11, 2023, NexGen announced that it updated its ATM Program in accordance with the terms and conditions of an equity distribution agreement dated December 11, 2023 (the "December Sales Agreement") among NexGen and the Agents, which allowed it to issue up to \$500 million of shares to the public, from time to time, at its discretion, on the TSX and/or the NYSE, and/or any other marketplace for the Shares in Canada or the United States or as otherwise agreed between the Agents and NexGen. Concurrent with entering into the December Sales Agreement, the January Sales Agreement was terminated.

## Operational

On June 15, 2023, NexGen announced the signing of an industry leading impact benefit agreement (the "IBA") with the Métis Nation – Saskatchewan Northern Region 2 ("MN-S NR2") and the Métis Nation – Saskatchewan ("MN-S") covering all phases of the Rook I Project. The IBA defines the environmental, cultural, economic, training, employment, business opportunities, and other benefits to be provided to the MN-S NR2 and MN-S by NexGen and confirms the consent and support of the MN-S NR2 and MN-S for the Project.

The signing of an IBA with the MN-S NR2 and MN-S follows the signing of Benefit Agreements (as defined below) with each of the Clearwater River Dene Nation ("CRDN"), Birch Narrows Dene Nation ("BNDN"), and Buffalo River Dene Nation ("BRDN"). These four Nations collectively represent the First Nation and Métis communities for which the Saskatchewan Ministry of Environment ("ENV") assigned procedural aspects of the Duty to Consult for the Project to NexGen, and which have been identified by NexGen as the primary Indigenous Nations for consultation in consideration of the Federal requirements of the Canadian Nuclear Safety Commission ("CNSC").

In June 2023, the Company commenced the 2023 Site Infrastructure and Confirmation Program ("SI&CP") under Provincial approvals received from the ENV. The SI&CP focus is to expand and upgrade existing infrastructure at the Rook I property that supports regional exploration activity as well as to conduct exploration activities in support of continued engineering data confirmation for the Rook I Project.

# **NexGen Energy Ltd.** Management's Discussion and Analysis for the year ended December 31, 2023 (expressed in thousands of Canadian dollars, except as noted)

On August 21, 2023, NexGen announced the completion of the Provincial Environmental Assessment ("EA") technical review process and submission of the Provincial Final Environmental Impact Statement ("EIS") to the ENV. The ENV subsequently announced the commencement of the 30-day public review period for the Provincial Final EIS on September 2, 2023, which concluded on October 3, 2023.

On September 5, 2023 and in parallel to the Provincial EA process, NexGen submitted responses to Federal technical review comments received on the Draft EIS through the Federal EA review process completed in Q4 2022. On November 14, 2023, the CNSC confirmed conclusion of the CNSC completeness check of NexGen's technical review comment submission and commencement of their technical review. Results of the technical review of NexGen's responses were received on February 12, 2024. NexGen is currently developing responses to the remaining technical review comments. Once complete, the technical review comment responses will be submitted by NexGen to the CNSC, along with a revised Federal EIS.

On November 9, 2023, NexGen announced that it received Ministerial Environmental Assessment approval under *The Environmental Assessment Act* of Saskatchewan to proceed with the development of the Project.

During the year, NexGen further advanced the front end engineering and design ("FEED") for the Rook I Project, while continuing to progress the Rook I Project through the critical path detailed engineering and procurement phases.

## **Operations Review – Rook I Project**

## **Project Development**

In Q1 2021, NexGen completed an independent feasibility study ("FS") and issued a news release outlining the results on February 22, 2021. The FS validated the previous stage engineering, produced a Class 3 (AACE) capital and operating cost estimate that are summarized in the National Instrument 43-101 – *Standards of Disclosure for Mineral Projects* ("NI 43-101") technical report entitled "Arrow Deposit, Rook I Project, Saskatchewan, NI 43-101 Technical Report on Feasibility Study dated March 10, 2021" (the "Rook 1 FS Technical Report"), and supports the EA processes and licence application activities. The FS is based on an initial 10.7-year mine life; however the Company is seeking permitting and licensing approvals for a 24-year mine operating life.

## Feasibility Study

The Rook I FS Technical Report includes updated Mineral Reserve and Mineral Resource estimates for the Arrow Deposit. The information contained in this MD&A regarding the Rook I Project has been derived from the Rook I FS Technical Report, is subject to certain assumptions, qualifications, and procedures described in the Rook I FS Technical Report, and is qualified in its entirety by the full text of the Rook I FS Technical Report. Reference should be made to the full text of the Rook I FS Technical Report.

## <u>Highlights</u>

### Summary of Arrow Deposit Feasibility Study<sup>(1)</sup>

U <sub>3</sub> O <sub>8</sub> Price used in Economic Model <sup>(2)</sup>	\$50/lb (Base Case)	\$100/lb <sup>(3)</sup>
After-Tax NPV @ 8%	\$3.47 Billion	\$8.13 Billion
After-Tax Internal Rate of Return (IRR)	52.4%	81.6%
After-Tax Payback	0.9 Year	0.58 Year
Pre-Commitment Early Works Capital	\$158 Million	\$158 Million
Project Execution Capital	\$1,142 Million	\$1,142 Million
Total Initial Capital Costs ("CAPEX")	\$1,300 Million	\$1,300 Million
Average Annual Production (Years 1-5)	28.8 M lbs U <sub>3</sub> O <sub>8</sub>	28.8 M lbs U <sub>3</sub> O <sub>8</sub>
Average Annual After-Tax Net Cash Flow (Years 1- 5)	\$1,038 Million	\$2,114 Million
Average Annual Production (Life of Mine)	21.7 M lbs U <sub>3</sub> O <sub>8</sub>	21.7 M lbs U <sub>3</sub> O <sub>8</sub>
Average Annual After-Tax Net Cash Flow (Life of Mine)	\$763 Million	\$1,588 Million
Nominal Mill Capacity	1,300 tonnes per day	1,300 tonnes per day
Average Annual Mill Feed Grade	2.37% U <sub>3</sub> O <sub>8</sub>	2.37% U <sub>3</sub> O <sub>8</sub>
Mine Life	10.7 Years	10.7 Years
Average Annual Operating Cost ("OPEX", Life of Mine)	\$ 7.58 (US\$5.69)/lb U₃O <sub>8</sub>	\$ 7.58 (US\$5.69)/lb U <sub>3</sub> O <sub>8</sub>

1) The economic analysis was based on the timing of a final investment decision ("FID") and does not include the Pre-Commitment Early Works Capital, which are costs NexGen intends on expending prior to the FID. Pre-Commitment Early Works scope includes site preparation, and the supporting infrastructure (concrete batch plant, Phase I camp accommodations and bulk fuel storage) required to support full Project Execution Capital.

2) FS Base Case analysis in the FS is based on CAD \$1.00 = US \$0.75.

3) For illustrative purposes to demonstrate the sensitivities to uranium prices, an alternative to the Base Case analysis in the FS using  $100/lb U_{308}$  is shown, and readers are cautioned that such information may not be appropriate for other purposes. Analysis is based on CAD 1.00 = US 0.75. See below "Economic Results" for further discussion on the sensitivity analysis in the FS.

### **Mineral Resources**

The updated Mineral Resource estimate has an effective date of June 19, 2019 and builds upon the Mineral Resource estimate used in the Company's previously released pre-feasibility study by incorporating additional holes drilled in 2018 and 2019. The updated Mineral Resource estimate is principally comprised of Measured Mineral Resources of 209.6 M lbs of  $U_3O_8$  contained in 2,183 kt grading 4.35%  $U_3O_8$  as well as, Indicated Mineral Resources of 47.1 M lbs of  $U_3O_8$  contained in 1,572 kt grading 1.36%  $U_3O_8$ , and Inferred Mineral Resources of 80.7 M lbs of  $U_3O_8$  contained in 4,399 kt grading 0.83%  $U_3O_8$ , summarized in the table below.

## NexGen Energy Ltd.

Management's Discussion and Analysis for the year ended December 31, 2023 (expressed in thousands of Canadian dollars, except as noted)

### **Arrow Deposit Mineral Resource Estimate**

	FS Mineral Resource							
Structure	Tonnage (k tonnes)	Grade (U₃O <sub>8</sub> %)	Contained Metal (U <sub>3</sub> O <sub>8</sub> M lb)					
		Меа	sured					
A2 LG	920	0.79	16.0					
A2 HG	441	16.65	161.9					
A3 LG	821	1.75	31.7					
Total:	2,183	4.35	209.6					
		Indi	cated					
A2 LG	700	0.79	12.2					
A2 HG	56	9.92	12.3					
A3 LG	815	1.26	22.7					
Total:	1,572	1.36	47.1					
		Measured a	nd Indicated					
A2 LG	1,620	0.79	28.1					
A2 HG	497	15.9	174.2					
A3 LG	1,637	1.51	54.4					
Total:	3,754	3.1	256.7					
		Infe	erred					
A1 LG	1,557	0.69	23.7					
A2 LG	863	0.61	11.5					
A2 HG	3	10.95	0.6					
A3 LG	1,207	1.12	29.8					
A4 LG	769	0.89	15.0					
Total:	4,399	0.83	80.7					

Notes:

1. CIM Definition Standards were followed for Mineral Resources. Mineral Resources are reported inclusive of Mineral Reserves.

2. Mineral Resources are reported at a cut-off grade of 0.25% U<sub>3</sub>O<sub>8</sub> based on a long-term price of US\$50 per lb U<sub>3</sub>O<sub>8</sub> and estimated costs.

3. A minimum mining width of 1.0 m was used.

4. The effective date of Mineral Resources is June 19, 2019

5. Numbers may not add due to rounding.

6. Mineral Resources that are not Mineral Reserves do not have demonstrated economics.

### **Mineral Reserves**

The Rook I FS Technical Report defines Probable Mineral Reserves of 239.6 M lbs of  $U_3O_8$  contained in 4,575 kt grading 2.37%  $U_3O_8$  from the Measured and Indicated Mineral Resources, summarized in the table below. The Probable Mineral Reserves include diluting materials and allowances for losses which may occur when material is mined. Although a majority of the Mineral Reserves are based on Measured Mineral Reserves, it was decided to allocate 100% of the Mineral Reserves to the Probable Mineral Reserves category (as opposed to the Proven Mineral Reserves category), due to the Rook I Project currently being in an exploration and development stage.

## NexGen Energy Ltd.

### Arrow Probable Mineral Reserves

Probable Mineral Reserves							
Structure	Tonnage (k tonnes)	Grade (U₃Oଃ%)	Contained Metal (U₃O₅ M Ib)				
A2	2,594	3.32%	190.0				
A3	1,982	1.13%	49.5				
Total	4,575	2.37%	239.6				

Notes:

- 1. CIM definitions were followed for Mineral Reserves.
- 2. Mineral Reserves are reported with an effective date of January 21, 2021.
- 3. Mineral Reserves include transverse and longitudinal stopes, ore development, marginal ore, special waste and a nominal amount of waste required for mill ramp-up and grade control.
- 4. Stopes were estimated at a cut-off grade of  $0.30\% U_3O_8$ .
- 5. Marginal ore is material between 0.26% U<sub>3</sub>O<sub>8</sub> and 0.30% U<sub>3</sub>O<sub>8</sub> that must be extracted to access mining areas.
- 6. Special waste is material between 0.03% and 0.26%  $U_3O_8$  that must be extracted to access mining areas. Material below 0.03%  $U_3O_8$  is considered benign waste that must be treated and stockpiled in an engineered facility.
- Mineral Reserves are estimated using a long-term metal price of US\$50 per pound U<sub>3</sub>O<sub>8</sub>, and a 0.75 US\$/C\$ exchange rate (C\$1.00 = US\$0.75). The cost to ship the yellow cake product to a refinery is considered to be included in the metal price.
- 8. A minimum mining width of 3.0 m was applied for all long hole stopes.
- 9. Mineral Reserves are estimated using a combined underground mining recovery of 95.5% and total dilution (planned and unplanned) of 33.8%.
- 10. The density varies according to the  $U_3O_8$  grade in the block model. Waste density is 2.464 t/m<sup>3</sup>.
- 11. Numbers may not add due to rounding.

### **Economic Results**

The Rook I FS Technical Report was based on a uranium price estimate of US $50/lb U_3O_8$  per pound, net of yellow cake transportation fees and a fixed USD:CAD conversion rate of 0.75 (the "Base Case").

The economic analysis is based on the timing of a final investment decision ("FID"), and it does not include the pre-commitment early works capital costs, which are costs NexGen intends, in part or entirely, on expending prior to the FID. The pre-commitment early works scope includes preparing the site, completing initial freeze hole drilling, and building the supporting infrastructure (i.e. concrete batch plant, Phase I camp accommodations, and bulk fuel storage) required for the Rook I Project. Under the Rook I FS Technical Report, costs for the pre-commitment early works total an estimated \$158 million. See "*Risk Factors – General Inflationary Pressures*".

The Rook I FS Technical Report returned an after-tax NPV@8% of \$3.47 billion and an IRR of 52.4% for the Base Case. The economic model was subjected to a sensitivity analysis to determine the effects of changing metals prices, grade, metal recovery, exchange rate, OPEX, CAPEX, labour, and reagent costs. The NPV is most sensitive to metals prices, grade, metal recovery, and exchange rate and not as sensitive to OPEX, CAPEX, labour, or reagent costs. The sensitivity of the after-tax NPV and IRR are summarized in the following table using the price of uranium as the dependent variable.

# **NexGen Energy Ltd.** Management's Discussion and Analysis for the year ended December 31, 2023 (expressed in thousands of Canadian dollars, except as noted)

Uranium Price (US\$/Ib U <sub>3</sub> O <sub>8</sub> ) <sup>(1)</sup>	After-Tax NPV	After-Tax IRR
\$150/lb U <sub>3</sub> O <sub>8</sub>	\$12.80 Billion	101.8%
\$100/lb U <sub>3</sub> O <sub>8</sub>	\$8.13 Billion	81.6%
\$90/lb U <sub>3</sub> O <sub>8</sub>	\$7.20 Billion	76.8%
\$80/lb U <sub>3</sub> O <sub>8</sub>	\$6.27 Billion	71.5%
\$70/lb U <sub>3</sub> O <sub>8</sub>	\$5.33 Billion	65.8%
\$60/lb U <sub>3</sub> O <sub>8</sub>	\$4.40 Billion	59.5%
\$50/lb U <sub>3</sub> O <sub>8</sub> (Base Case)	\$3.47 Billion	52.4%

### **NPV and IRR Sensitivity to Uranium Price**

<sup>(1)</sup> The base case for  $U_3O_8$  in the FS is \$50/lb. Prices in the above figure, which include \$150/lb and remove prices from \$30/lb to \$45/lb from the extended sensitivity analysis in the FS, have been used for illustrative purposes only to demonstrate the sensitivities of the NPV and IRR in the FS to uranium prices, and readers are cautioned that such information may not be appropriate for other purposes. NPV and IRR in the FS are most sensitive to: metal prices, grade, metal recovery, and exchange rates.

### Permitting, Regulatory, and Engagement

During the year, the Company completed the Provincial EA technical review process and submitted the Provincial Final EIS to the ENV, initiating the conduct of a 30-day Provincial public review which commenced on September 2, 2023 and concluded on October 3, 2023.

On November 9, 2023, NexGen announced that it received Ministerial approval under The Environmental Assessment Act of Saskatchewan to proceed with the development of the Rook I Project.

In parallel to the ongoing Provincial approvals process, NexGen is advancing Federal approvals required for the Project, which include securing both Federal EA and licence approvals from the CNSC. NexGen has implemented an integrated approach to the Federal EA and licensing processes for the Project whereby information to support the licence application has been submitted to the CNSC in a staged manner since 2019 to ensure alignment between the EA and licensing documentation.

During 2023, NexGen submitted responses to the Federal technical review comments received on the Draft EIS through the Federal EA review process completed in Q4 2022. The CNSC conducted a completeness check of NexGen's responses, and on November 14, 2023 deemed NexGen's submission complete and confirmed commencement of technical review of the comments by the Federal-Indigenous Review Team. Results of the Federal-Indigenous Review Team review were provided to NexGen on February 12, 2024. NexGen is currently developing responses to the remaining technical review comments. Once complete, the technical review comment responses will be submitted by NexGen to the CNSC, along with a revised Federal EIS.

On September 1, 2023, the CNSC provided formal notification of their acceptance of NexGen's initial licence application to prepare site and construct the Project. CNSC acceptance followed a 60-day sufficiency review conducted by CNSC staff, which confirmed completeness and compliance with all applicable CNSC requirements.

The Company is continuing its longstanding engagement with the communities within proximity of the Rook I Project, as per the study agreements entered into with four Indigenous groups in Q4 2019 (the "Study Agreements").

The Study Agreements formalized the engagement approaches that would support each primary Indigenous Group's participation in the EA process, particularly to:

- develop a Joint Working Group ("JWG") structure for each Indigenous Group to support the inclusion of Indigenous Knowledge into the EA process and to facilitate regular, ongoing engagement;
- assist in the identification of valued components for the EA;
- explore special interest topics for each Indigenous Group;
- support Indigenous Knowledge and Traditional Land Use ("IKTLU") Studies in various forms particular to each Indigenous Group; and
- establish a Community Coordinator position in each Indigenous Group to act as the primary contact between NexGen and the Indigenous Group.

In addition, each Study Agreement committed NexGen to providing capacity funding for the JWG engagement, retention of technical support by the Indigenous Group, and completion of the self-directed IKTLU Studies. Each of the CRDN, MN-S, BNDN, and BRDN completed IKTLU Studies in support of the EA for the Project.

Further, the Study Agreements confirmed that the parties would negotiate impact benefit agreements or mutual benefit agreements (each, a "Benefit Agreement") in good faith. During 2021, the Company signed Benefit Agreements with each of the BNDN and the BRDN covering all phases of the Rook I Project. In Q2 2022, the Company signed a Benefit Agreement with the CRDN. During Q2 2023, the Company signed a Benefit Agreement with the MN-S NR2 and MN-S.

The Benefit Agreements have been developed to define the environmental, cultural, economic, training, employment, business opportunities, and other benefits to be provided to the Indigenous Groups by NexGen and to confirm the consent and support of those Indigenous Groups for the Project. These four Indigenous Groups (i.e., the CRDN, MN-S, BNDN, and BRDN) collectively represent the First Nation and Métis communities for which the ENV assigned procedural aspects of the Duty to Consult for the Project to NexGen, and which have been identified by NexGen as the primary Indigenous Nations for consultation in consideration of the Federal requirements of the CNSC.

NexGen has developed Environmental Committees with each of the Indigenous Groups with signed Benefit Agreements. JWG activities with the CRDN, MN-S NR2 and MN-S, BNDN, and BRDN are now being implemented through the respective Environmental Committees.

# **OPERATIONS OUTLOOK**

The Company intends to advance the development of the Rook I Project as outlined in the Rook I FS Technical Report. The work will include:

- transition from FEED to detailed engineering to prepare for project execution phase; and
- conducting site confirmation and process plant optimization studies to support the engineering programs.

Through 2024, building on the Provincial EA approval received in 2023, the Company will continue to advance the final Federal EA and licensing activities process required to obtain a Uranium Mine and Mill Licence from the CNSC following the establishment of a Commission Hearing Date, and continue engagement with Provincial and Federal regulators and communities.

## HEALTH, SAFETY, AND ENVIRONMENT

NexGen places the health and safety of its people as the highest priority and is committed to sustainable development in a safe and responsible manner. NexGen recognizes that the long-term sustainability of its business is dependent upon elite stewardship in the protection of the environment, protection of its people and the careful management of the exploration, development, and extraction of mineral resources.

Management is focused on optimizing its strong culture of safety, which includes equipping people with the tools, training, and mindset to result in constant safety awareness. NexGen strives for a zero-harm workplace, while also recognizing the need for emergency preparedness. The Company has a site-specific emergency response plan and conducts periodic exercises followed by critical analysis that evaluates the response and recommends improvements. This plan is reviewed annually, at minimum. NexGen takes a proactive and long-term approach to risk management that supports investment in the practices needed to be successful and meet commitments.

The Company has implemented comprehensive communicable and infectious disease response protocols at each of its locations.

## **FINANCIAL RESULTS**

Financial results for the three months and year ended December 31, 2023 and 2022 (Unaudited)

	T	hree	months ended	Th	ree months ended		Year ended		Year ended
	п	acan	iber 31,	D۵	cember 31,	D	ended ecember 31,	D۵	cember 31,
\$000s	U	CUCII	2023	00	2022		2023	00	2022
Salaries, benefits, and directors' fees	\$		5,500	\$	3,646	\$	12,704	\$	9,306
Office, administrative, and travel			5,604		2,946		15,616		7,853
Professional fees and insurance			4,838		2,196		17,469		5,661
Depreciation			496		455		1,804		1,814
Share-based payments		1	4,068		11,580		37,142		35,146
	\$	(30	0,506)	\$	(20,823)		(84,735)	\$	(59,780)
Finance income			2,324		1,149		6,030		2,787
Mark to market gain (loss) on convertible debentures		(1	0,250)		56		(48,745)		(2,863)
Interest expense on convertible debentures		(:	3,729)		(590)		(6,098)		(2,179)
Interest on lease liabilities		•	(32)		(47)		(153)		(207)
Share of net income from associate			920		-		920		-
Gain on loss of control of IsoEnergy		20	94,038		-		204,038		-
Other expense		(	1,367)		-		(1,378)		(85)
Foreign exchange gain (loss)		(*	1,268)		(178)		(1,123)		1,017
Income (Loss) before taxes	\$	16	60,130	\$	(20,433)	\$	68,756	\$	(61,310)
Deferred income tax recovery (loss)			(162)		278		1,412		1,042
Net income (loss)	\$	15	59,968	\$	(20,155)	\$	70,168	\$	(60,268)
Basic earnings (loss) per share attributable to NexGen shareholders		\$	0.30	\$	(0.05)	\$	6 0.16	\$	(0.12)
Diluted earnings (loss) per share attributable to NexGen shareholders		\$	0.29	\$	(0.05)	\$	0.16	\$	(0.12)

### Three months ended December 31, 2023 versus three months ended December 31, 2022

During the three months ended December 31, 2023 (the "Current Quarter"), NexGen recorded a net income of \$160.0 million or \$0.31 basic earnings per share attributable to NexGen shareholders compared to the three months ended December 31, 2022 (the "Comparative Quarter") with a net loss of \$20.2 million or \$0.05 basic loss per share attributable to NexGen shareholders, representing an increase in net income of \$180.2 million quarter over quarter. The result was primarily due to the following:

- Salaries, benefits, and directors' fees increased by \$1.9 million from \$3.6 million in the Comparative Quarter to \$5.5 million in the Current Quarter primarily due to an increase in the number of employees in line with increased operations including the appointment of key personnel to the Company's management team.
- Office, administrative, and travel costs increased by \$2.7 million in the Current Quarter compared to the Comparative Quarter. The increase is primarily related to additional travel and community partnerships in the Current Quarter.
- Professional fees and insurance increased by \$2.6 million from \$2.2 million in the Comparative Quarter to \$4.8 million in the Current Quarter primarily due to corporate development initiatives.
- Share based compensation increased by \$2.5 million from \$11.6 million during the Comparative Quarter to \$14.1 million in the Current Quarter. The increase is primarily due to the timing of stock option vesting and granting during the Current Quarter compared to the Comparative Quarter and an increase in the Company's share price resulting in a higher fair value of stock options vested and granted.
- The Company recognized a mark-to-market loss on convertible debentures of \$10.3 million during the Current Quarter compared to a mark-to-market gain of \$0.1 million during the Comparative Quarter. Mark-to-market gains and losses result from the fair value re-measurement of convertible debentures at each reporting date, with any changes in the fair value being recognized in the net loss and comprehensive loss for the period. The mark-to-market loss on the 2023 Debentures for the Current Quarter is mainly due to an increase in Company's share price during the Current Quarter. The mark-to-market loss during the Current Quarter was offset by the mark-to-market gain on IsoEnergy's convertible debentures for the period to December 4, 2023, due to a decrease in IsoEnergy's share price.
- The interest expense on convertible debentures increased by \$3.1 million from \$0.6 million in the Comparative Quarter to \$3.7 million in the Current Quarter. The increase is primarily due to interest on the 2023 Debentures incurred during the Current Quarter that did not occur in the Comparative Quarter.
- The gain on loss of control of IsoEnergy during the Current Quarter is due to deconsolidation of IsoEnergy on December 5, 2023 and the resulting fair value adjustment of the Company's investment at that date.
- The share of net income from associate is due to the recognition of the Company's share of IsoEnergy's profit and loss for the period from December 5, 2023 to December 31, 2023, subsequent to the deconsolidation of IsoEnergy on December 5, 2023.
- Finance income increased by \$1.2 million due to an increased cash balance and higher interest rates.

## Year ended December 31, 2023 versus year ended December 31, 2022

During the year ended December 31, 2023 (the "Current Year"), NexGen recorded a net income of \$70.2 million or \$0.16 basic earnings per share attributable to NexGen shareholders compared to the year ended December 31, 2022 (the "Comparative Year") with a net loss of \$60.3 million or \$0.12 basic loss per share attributable to NexGen shareholders, representing an increase in income of \$130.5 million year over year. The increase in income was primarily due to the following:

- Salaries, benefits, and directors' fees increased by \$3.4 million from \$9.3 million in the Comparative Year to \$12.7 million in the Current Year primarily due to an increase in the number of employees in line with increased operations including the appointment of key personnel to the Company's management team.
- Office, administrative, and travel costs increased by \$7.7 million in the Current Year compared to the Comparative Year. The increase is primarily related to additional travel, community partnerships, and an overall increase in costs consistent with the expansion of operations in preparation for the project execution phase.
- Professional fees and insurance increased by \$11.8 million from \$5.7 million in the Comparative Year to \$17.5 million in the Current Year primarily due to professional fees resulting from the issuance of the 2023 Debentures and corporate development initiatives.
- Share based compensation in the Current Year was \$37.1 million compared to \$35.1 million in the Comparative Year. The increase is primarily due to the difference in Black Scholes valuation of share based compensation granted and vested during the Current Year compared to the Comparative Year and reflects an increase in the Company's share price resulting in a higher fair value of stock options vested and granted.
- The Company recognized a mark-to-market loss on convertible debentures of \$48.7 million during the Current Year compared to a mark-to-market loss of \$2.9 million during the Comparative Year. Mark-to-market gains and losses result from the fair value re-measurement of convertible debentures at each reporting date, with any changes in the fair value being recognized in net loss and comprehensive loss for the period. The mark-to-market loss for the Current Year is mainly due to an increase in the Company's share price and IsoEnergy's share price during the Current Year.
- The interest expense on convertible debentures increased by \$3.9 million from \$2.2 million in the Comparative Year to \$6.1 million in the Current Year. The increase is mainly due to interest incurred on the 2023 Debentures during the Current Year that did not occur in the Comparative Year.
- The gain on loss of control of IsoEnergy during the Current Year is due to deconsolidation of IsoEnergy on December 5, 2023 and the resulting fair value adjustment of the Company's investment at that date.
- Finance income increased by \$3.2 million due to an increased average cash balance and higher interest rates.
- The share of net income from associate is due to the recognition of the Company's share of IsoEnergy's profit and loss for the period from December 5, 2023 to December 31, 2023, subsequent to the deconsolidation of IsoEnergy on December 5, 2023.

• Deferred income tax recovery increased by \$0.4 million from \$1.0 million in the Comparative Year to \$1.4 million in the Current Year. The difference is mainly due to the deferred tax recovery on the renunciation of flow-through share expenses in IsoEnergy in the Current Year. IsoEnergy did not renounce any flow-through share expenditures in the Comparative Year.

## **Financial Position Summary**

### Statement of financial position summary as at December 31, 2023 and December 31, 2022

\$000s	Decembe	er 31, 2023	December 31, 2022		
Current assets					
Cash	\$	290,743	\$	134,447	
Marketable securities		-		5,775	
Amounts receivable		1,940		1,801	
Prepaid expenses and other assets		13,770		2,165	
Lease receivable		512		-	
		306,965		144,188	
Non-current assets					
Exploration and evaluation assets		451,356		405,248	
Property and equipment		5,404		5,048	
Investment in associate		240,116		-	
Lease receivable		3,502		-	
Deposits		82		76	
Total assets	\$	1,007,425	\$	554,560	
Current liabilities					
Accounts payable and accrued liabilities	\$	26,986	\$	13,723	
Lease liabilities		926		775	
Flow-through share premium liability		-		2,069	
		27,912		16,567	
Non-current liabilities					
Convertible debentures		158,478		80,021	
Long-term lease liabilities		1,016		1,688	
Deferred income tax liabilities		-		867	
Total liabilities	\$	187,406	\$	99,143	
Equity					
Equity attributable to NexGen Energy Ltd. shareholders		820,019		417,876	
Non-controlling interests		-		37,541	
Total equity	\$	820,019	\$	455,417	

## **Liquidity and Capital Resources**

On September 22, 2023, NexGen announced the closing of the 2023 Private Placement of US\$110 million in aggregate principal amount of 2023 Debentures with QRC and WHSP. Proceeds from the 2023 Private Placement will be used to fund the continuing development and further exploration of the Company's mineral properties, and for general corporate purposes.

On September 28, 2023, the holder of US\$15 million aggregate principal amount of the 2020 Debentures elected to convert the 2020 Debentures into 8,663,461 Shares of the Company.

On December 11, 2023, the ATM Program was updated under the December Sales Agreement, which will provide NexGen with additional financing flexibility which may be used in conjunction with other funding sources. Under the December Sales Agreement, the Company can issue up to \$500 million of Shares to the public, from time to time, at its discretion. The December Sales Agreement will be effective until the earlier of the sale of all of the Shares issuable pursuant to the ATM Program and December 11, 2025, unless terminated prior to such date.

The Company intends to use the net proceeds from the ATM Program to fund the continued development and further exploration of its mineral properties, including the Rook I Project, and for general corporate purposes.

On March 11, 2021 and March 16, 2021, NexGen closed a bought deal equity offering (the "2021 Offering") for aggregate gross proceeds of approximately \$150.3 million and the associated over-allotment option (the "Over-Allotment Option") for aggregate gross proceeds of approximately \$22.5 million, for total gross proceeds of approximately \$172.8 million. The Company intends to apply the net proceeds of the 2021 Offering and Over-Allotment Option towards the development of the Rook I Project, including site investigations, process plant optimizations and engineering, pre-commitment early works, and for general working capital. The following table sets forth a comparison of the disclosure regarding NexGen's estimated use of proceeds in its final short form prospectus dated March 8, 2021, which is available on SEDAR+ at www.sedarplus.ca, and its actual use of such funds as at December 31, 2023:

\$000s	Estimated Use of Net P	roceeds	Actual Use of Net Proceeds		
Development of Rook I Project					
Site Investigation	\$	9,000	\$	9,026	
Process Plant Optimizations		1,500		2,158	
Engineering <sup>1</sup>		35,000		35,952	
Permitting and Other Development Costs <sup>1</sup>		-		24,612	
Pre-Commitment Early Works <sup>1</sup>		94,500		46,994	
General working capital		23,290		20,895	
Exploration <sup>1</sup>		-		23,653	
Total <sup>2</sup>	\$	163,290	\$	163,290	

<sup>1</sup>The Company has re-allocated funds originally planned for the pre-commitment early works into other Rook I development costs including Engineering, Permitting and Other Development Costs for advancing the EA and licensing activities, and the Exploration of mineral properties, each as noted above. There is no expected impact on its ability to achieve its business objectives and milestones.

<sup>2</sup>The net proceeds of the 2021 Offering and the Over-Allotment Option reflect the aggregate gross proceeds of \$172.8 million after deducting underwriters' fees and transaction expenses of \$9.5 million.

# **NexGen Energy Ltd.** Management's Discussion and Analysis for the year ended December 31, 2023 (expressed in thousands of Canadian dollars, except as noted)

NexGen had a working capital surplus of \$279.1 million as at December 31, 2023 (December 31, 2022 – \$127.6 million). The Company currently has sufficient cash to fund its current operating and administration costs.

The increase in working capital of \$151.5 million from December 31, 2022 to December 31, 2023 was primarily attributable to proceeds raised from the ATM Program and the issuance of the 2023 Private Placement, offset by expenditures incurred to advance the Rook I Project together with the funding of operational and administration costs.

The net change in cash position at December 31, 2023 compared to September 30, 2023 was a decrease of \$79.7 million, attributable to the following components of the statement of cash flows:

- NexGen's operating outflow before working capital adjustments was \$13.9 million during the Current Quarter (Comparative Quarter – outflow of \$7.6 million) due to increased operational costs in the Current Quarter correlated to the stage of development of the Rook I Project.
- The outflow from changes in working capital items was \$8.7 million during the Current Quarter (Comparative Quarter outflow of \$4.1 million) due to increased prepaid expenses related to operational activities and the timing of payments.
- Investing activities used \$84.2 million in the Current Quarter, associated primarily with the development of the Rook I Project, and the impact of cash due to deconsolidation of IsoEnergy (Comparative Quarter outflow of \$19.3 million).
- Financing activities had an inflow of \$26.8 million in the Current Quarter (Comparative Quarter inflow of \$19.5 million) primarily due to net proceeds from IsoEnergy's private placement of IsoEnergy Subscription Receipts of \$21.6 million and proceeds from option exercises of \$8.8 million, offset by interest paid on convertible debentures of \$2.0 million.

The net change in cash position at December 31, 2023 compared to December 31, 2022 was an increase of \$156.3 million, attributable to the following components of the statement of cash flows:

- NexGen's operating outflow before working capital adjustments was \$39.9 million during the Current Year (Comparative Year – outflow of \$20.0 million) due to increased operational costs in the Current Year as the Company advanced the Rook I Project.
- The outflow from changes in working capital items was \$12.7 million during the Current Year (Comparative Year outflow of \$0.1 million) due to increased prepaid expenses.
- Investing activities used \$160.1 million in the Current Year, associated primarily with the development of the Rook I Project, the impact of cash due to deconsolidation of IsoEnergy and the acquisition of equipment to lease to create an Indigenous owned business in Northern Saskatchewan (Comparative Year – outflow of \$68.1 million).
- Financing activities had an inflow of \$368.9 million in the Current Year (Comparative Year inflow of \$19.9 million) primarily due to the commencement of the ATM Program which raised net proceeds of \$175.9 million, the issuance of the 2023 Debentures for net proceeds of \$148.0 million, proceeds from stock option exercises of \$27.6 million, and net proceeds from IsoEnergy's private placement of \$21.6 million.

Prior to the termination of the January Sales Agreement, the Company issued 24,724,125 Shares under the ATM Program at an average price of \$7.36 per share for gross proceeds of \$182.1 million and paid commission fees of \$3.7 million and other transaction costs of \$3.2 million. The Company did not issue shares under the December Sales Agreement during the year ended December 31, 2023.

Subsequent to December 31, 2023 through to the date of this MD&A, the Company issued 13,000,800 Shares under the ATM Program which raised gross proceeds of \$135.0 million and paid commission fees of \$1.3 million and other transaction costs of \$3.5 million for net proceeds of \$130.2 million.

## **Capital Management**

The Company manages its capital structure, and adjusts it, based on the funds available to the Company, to support the acquisition, exploration and evaluation of assets. To effectively manage the entity's capital requirements, the Company has in place a planning, budgeting and forecasting process to help determine the funds required to ensure the Company has the appropriate liquidity to meet its operating and growth objectives.

In the management of capital, the Company considers all components of equity and debt, net of cash, and is dependent on third-party financing, whether through debt, equity, or other means. Although the Company has been successful in raising funds to date, there is no assurance that the Company will be successful in obtaining the required financing in the future or that such financing will be available on terms acceptable to the Company.

The properties in which the Company currently has an interest are in the exploration and development stage. As such, the Company has historically relied on the equity markets to fund its activities. The Company will continue to assess new properties and seek to acquire an interest in additional properties if it determines that there is sufficient geologic or economic potential and if it has adequate financial resources to do so.

As discussed in the section above entitled "Liquidity and Capital Resources", the Company completed the 2021 Offering and Over-Allotment Option, raising gross proceeds of approximately \$172.8 million in the period ended March 31, 2021. On September 22, 2023, the Company closed the 2023 Private Placement, raising gross proceeds of approximately \$148.1 million. On September 28, 2023, the 2020 Debentures were fully converted into Shares. On December 11, 2023, the Company updated its ATM Program enabling it to raise gross proceeds of up to \$500 million. The Company holds sufficient US dollars to make all interest payments due under the 2023 Debentures until maturity.

The Company is not subject to externally imposed capital requirements. There were no changes in the Company's approach to capital management during the period ended December 31, 2023.

	L	ess than	1 to 3	4	4 to 5	Over	<sup>-</sup> 5	
\$000s		1 year	years		years	yea	rs	Total
Trade and other payables	\$	26,986	\$ -	\$	-	\$	-	\$ 26,986
Convertible debentures		-	-	15	8,478		-	158,478
Lease liabilities		1,476	1,476		-		-	2,952
	\$	28,462	\$ 1,476	\$ 158	8,478	\$	-	\$ 188,416

. .

# **Contractual Obligations and Commitments**

# NexGen Energy Ltd.

Management's Discussion and Analysis for the year ended December 31, 2023 (expressed in thousands of Canadian dollars, except as noted)

## **Summary of Quarterly Results**

### Summary of Quarterly Results (Unaudited)

	For the three months ended						
	Dec 31,	Sept 30,	June 30,	Mar 31,			
\$000s except per share amounts	2023	2023	2023	2023			
Finance income	2,324	1,103	1,247	1,356			
Net income (loss)	159,968	(63,196)	(17,498)	(9,107)			
Net income (loss) for the period attributable to shareholders of NexGen	158,901	(52,135)	(19,292)	(6,658)			
Basic earnings (loss) per share	0.30	(0.11)	(0.04)	(0.01)			
Diluted earnings (loss) per share	0.29	(0.11)	(0.04)	(0.01)			

	For the three months ended						
	Dec 31,	Sept 30,	June 30,	Mar 31,			
\$000s except per share amounts	2022	2022	2022	2022			
Finance income	1,149	896	491	251			
Net income (loss)	(20,155)	(27,298)	17,585	(30,402)			
Net income (loss) for the period attributable to shareholders of NexGen	(22,505)	(21,895)	13,484	(25,673)			
Basic earnings (loss) per share	(0.05)	(0.05)	0.03	(0.05)			
Diluted earnings (loss) per share	(0.05)	(0.05)	(0.02)	(0.05)			

## **Summary of Selected Annual Financial Results**

## Summary of Select Annual Financials Results (Audited)

	December 31,	December 31,	December 31,
(\$000s except per share amounts)	2023	2022	2021
Total Revenue	-	-	-
Net income (loss) for the year	70,168	(60,268)	(126,948)
Comprehensive income (loss) for the year	67,746	(63,198)	(122,213)
Net income (loss) for the year attributable to shareholders of NexGen Energy Ltd.	80,816	(56,587)	(119,087)
Basic net earnings (loss) per share attributable to shareholders of NexGen Energy Ltd.	0.16	(0.12)	(0.26)
Diluted earnings (loss) per share attributable to shareholders of NexGen Energy Ltd.	0.16	(0.12)	(0.26)
Total Assets	1,007,425	554,560	546,563
Total Liabilities	187,406	99,143	85,215
Dividends declared	-	-	-

NexGen does not derive any revenue from its operations except for interest income from its cash. Its primary focus is the development of the Rook I Project, in addition to the acquisition, exploration, evaluation and development of resource properties.

# **NexGen Energy Ltd.** Management's Discussion and Analysis for the year ended December 31, 2023 (expressed in thousands of Canadian dollars, except as noted)

The significant fluctuations in income (loss) are mainly the result of the gain recognized on the loss of control of IsoEnergy, the loss recognized on the conversion of the 2020 Debentures, mark-to-market gains or losses recognized on the fair value re-valuation of the convertible debentures at each quarter driven primarily by the changes in share price of the Company and IsoEnergy with any changes in the fair value being recognized in the income (loss) for the quarter, and the Black Scholes valuation of the share-based compensation.

Interest income recorded as finance income has fluctuated depending on cash balances available to generate interest and the earned rate of interest.

The income (loss) per period has also fluctuated depending on the Company's activity level and periodic variances in certain items. Quarterly periods are therefore not comparable due to the nature and timing of exploration and development activities.

The increase in total assets year over year coincides with the exploration, evaluation and development of NexGen's resource properties, the timing of financings and equity offerings, the fair value adjustment of the Company's investment in IsoEnergy following the completion of the Merger, offset by the deconsolidation of IsoEnergy. The increase in total liabilities in 2023 compared to 2022 is primarily due to the issue of the 2023 Debentures, partially offset by the deconsolidation of IsoEnergy.

## **Related Party Transactions**

### **Compensation of Key Management and Directors**

	Three months ended					Year ended December 31,		
\$000s		2023	Dec	ember 31, 2022		2023	Dece	2022
Short-term compensation <sup>(1)</sup>	\$	3,566	\$	2,386	\$	7,317	\$	5,379
Share-based payments <sup>(2)</sup>		11,316		9,475		33,319		32,210
Consulting fees (3) (4)		33		32		130		231
	\$	14,925	\$	11,893	\$	40,766	\$	37,820

<sup>(1)</sup> Short-term compensation to key management personnel for the three months and year ended December 31, 2023 amounted to \$3,566 and \$7,317 (2022 - \$2,386 and \$5,379) of which \$3,549 and \$7,100 (2022 - \$2,310 and \$5,148) was expensed and included in salaries, benefits, and directors' fees on the statement of net loss and comprehensive loss. The remaining \$17 and \$217 (2022 - \$76 and \$231) was capitalized to exploration and evaluation assets.

<sup>(2)</sup> Share-based payments to key management personnel for the three months and year ended December 31, 2023 amounted to \$11,316 and \$33,319 (2022 - \$9,475 and \$32,210) of which \$11,248 and \$32,793 (2022 - \$9,647 and \$31,826) was expensed and \$68 and \$526 (2022 - recovery of \$172 and expense of \$384) was capitalized to exploration and evaluation assets.

<sup>(3)</sup> The Company used consulting services from Flying W Consulting Inc., which is associated with Brad Wall, a director of the Company in relation to advice on corporate matters for the three months and year ended December 31, 2023 amounting to \$33 and \$130 (2022 - \$32 and \$130) pursuant to a consulting contract providing for a monthly service fee of \$11 and terminable upon three months' notice.

<sup>(4)</sup> The Company used consulting services from Weymark Consulting Ltd., which is associated with Ryan Weymark, who was a former employee of the Company during a portion of the year ended December 31, 2022, in relation to various studies for the three months and year ended December 31, 2023 amounting to \$nil and \$nil (2022 - \$nil and \$101) pursuant to a consulting contract based on an hourly rate and terminable at any time.

As at December 31, 2023, there was \$43 (December 31, 2022 - \$43) included in accounts payable and accrued liabilities owing to its directors and officers for compensation.

# **Outstanding Share Data**

The authorized capital of NexGen consists of an unlimited number of Shares and an unlimited number of preferred shares. As at March 6, 2024, there were 539,549,657 Shares, 50,282,469 stock options with exercise prices ranging between \$1.59 and \$9.33, and no preferred shares issued and outstanding.

## **Outstanding Convertible Debentures**

On September 22, 2023, the Company entered into agreements with QRC and WHSP for gross proceeds of US\$110 million in connection with the 2023 Private Placement of the 2023 Debentures. The 2023 Debentures carry a 9.0% coupon, have a maturity date of September 22, 2028 and are convertible at the holder's option at a conversion price of US\$6.76 into a maximum of 16,272,189 Shares of NexGen. As at March 6, 2024, US\$110 million of the principal of the 2023 Debentures remain outstanding.

Convertible Debenture	Principal	Conversion Price	Type of shares issuable upon conversion	Number of shares issuable upon conversion
2023 Debentures	US\$110 million	US\$6.76	Common shares of NexGen	16,272,189

# **OFF-BALANCE SHEET ARRANGEMENTS**

NexGen has not entered into any material off-balance sheet arrangements such as guarantee contracts, contingent interests in assets transferred to unconsolidated entities, derivative instrument obligations, or with respect to any obligations under a variable interest entity arrangement.

## **SEGMENT INFORMATION**

The Company operates in one reportable segment, being the acquisition, exploration and development of uranium properties. All of the Company's non-current assets are located in Canada.

# ACCOUNTING POLICY OVERVIEW

## **Critical Accounting Policies and Judgements**

The critical judgements that the Company's management has made in the process of applying the Company's accounting policies, apart from those involving estimations, that have the most significant effect on the amounts recognized in the Company's consolidated financial statements exploration and evaluation assets, convertible debentures, assessment of control, and share-based payments. Refer to the Annual Financial Statements for further detail of the Company's Critical Accounting Estimates.

## **Key Sources of Estimation Uncertainty**

The preparation of consolidated financial statements in conformity with IFRS requires management to make estimates and assumptions that affect the amounts reported in the consolidated financial statements and related notes to the consolidated financial statements. Estimates and assumptions are continuously evaluated and are based on management's experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances.

The significant assumptions about the future and other major sources of estimation uncertainty as at the end of the reporting period that have a significant risk of resulting in a material adjustment to the carrying amounts of the Company's assets and liabilities include exploration and evaluation assets, convertible debentures, assessment of control, and share-based payments. Refer to the Annual Financial Statements for further detail of the Company's Critical Accounting Estimates.

## **Changes in Accounting Policies including Initial Adoption**

The Company has had no significant changes in accounting policies. Refer to the Annual Financial Statements for further details of the Company's changes in accounting policies.

## FINANCIAL INSTRUMENTS AND RISK MANAGEMENT

The Company's financial instruments consist of cash, marketable securities, warrants, amounts receivables, accounts payable and accrued liabilities and the 2023 Debentures.

Financial instruments measured at fair value are classified into one of three levels in the fair value hierarchy according to the relative reliability of the inputs used to estimate the fair values.

The three levels of the fair value hierarchy are:

- Level 1 unadjusted quoted prices in active markets for identical assets or liabilities
- Level 2 inputs other than quoted prices that are observable for the asset or liability either directly or indirectly; and
- Level 3 inputs that are not based on observable market data.

The fair values of the Company's cash, amounts receivables, and accounts payable and accrued liabilities approximate their carrying values due to their short-term nature.

The marketable securities and warrants are re-measured at fair value at each reporting date with any change in fair value recognized other comprehensive income. The marketable securities are classified as Level 1 and the warrants as Level 2.

The 2023 Debentures are re-measured at fair value at each reporting date with any change in fair value recognized in profit or loss with the exception that under IFRS 9, the change in fair value that is attributable to change in credit risk is presented in other comprehensive income. The 2023 Debentures are classified as Level 2.

## **Risk Factors**

Readers of this Management's Discussion and Analysis should give careful consideration to the information included or incorporated by reference in this document and the Company's Annual Financial Statements and related notes for the year ended December 31, 2023. For further details of risk factors, please refer to the most recent Annual Information Form dated March 6, 2024 filed on SEDAR+ at <u>www.sedarplus.ca</u>, the Annual Financial Statements, and the below discussions.

## **Financial Risks**

The Company is exposed to varying degrees of a variety of financial instrument related risks. The Board approves and monitors the risk management processes, inclusive of counterparty limits, controlling and reporting structures. The type of risk exposure and the way in which such exposure is managed is provided as follows:

### <u>Credit Risk</u>

Credit risk is the risk that one party to a financial instrument will fail to discharge an obligation and cause the other party to incur a financial loss. Financial instruments potentially subject to credit risk are cash and amounts receivable. The Company holds cash with large Canadian banks. The Company's amounts receivable consists of input tax credits receivable from the Government of Canada and interest accrued on cash. Accordingly, the Company does not believe it is subject to significant credit risk.

The Company's maximum exposure to credit risk is as follows:

	December 31, 2023	Decemb	er 31, 2022
Cash	\$ 290,743	\$	134,447
Amounts receivable	1,940		1,801
Lease receivable	4,014		-
	\$ 296,697	\$	136,248

## <u>Liquidity Risk</u>

Liquidity risk is the risk that an entity will encounter difficulty in raising funds to meet commitments associated with financial instruments. Liquidity requirements are managed based on expected cash flows to ensure that there is sufficient capital to meet short-term obligations. The Company's approach to managing liquidity risk is to ensure that it will have sufficient liquidity to meet liabilities when due. As at December 31, 2023, NexGen had cash of \$290,743 to settle current liabilities of \$27,912.

## Foreign Currency Risk

The functional currency of the Company and its subsidiaries is the Canadian dollar. The Company is affected by currency transaction risk and currency translation risk. Consequently, fluctuations of the Canadian dollar in relation to other currencies impact the fair value of financial assets, liabilities and operating results. Financial assets and liabilities subject to currency translation risk primarily includes US dollar denominated cash, US dollar accounts payable and the 2023 Debentures. The Company maintains Canadian and US dollar bank accounts in Canada.

The Company is exposed to foreign exchange risk on its 2023 Debentures. At maturity the aggregate of US\$110 million principal amount of the 2023 Debentures will become due in full, and prior to maturity, at a premium upon the occurrence of certain events. The Company holds sufficient US dollars to make all cash interest payments due under the 2023 Debentures until maturity but not to pay the principal amount. Accordingly, the Company is subject to risks associated with fluctuations in the Canadian/US dollar exchange rate that may make the 2023 Debentures more costly to repay.

As at December 31, 2023, the Company's US dollar net financial liabilities were US\$81,006. Thus a 10% change in the Canadian dollar versus the US dollar exchange rates would give rise to a \$10,728 change in net loss and comprehensive loss.

The Company has not entered into any agreements or purchased any instruments to hedge possible currency risks at this time.

### Equity and Commodity Price Risk

The Company is exposed to price risk with respect to commodity and equity prices. Equity price risk is defined as the potential adverse impact on the Company's earnings due to movements in individual equity prices or general movements in the level of the stock market. Accordingly, significant movements in equity prices may affect the valuation of the 2023 Debentures which may adversely impact the Company's earnings.

Commodity price risk is defined as the potential adverse impact on earnings and economic value due to commodity price movements and volatility. Future declines in commodity prices may impact the valuation of long-lived assets. The Company closely monitors commodity prices of uranium, individual equity movements, and the stock market to determine the appropriate course of action, if any, to be taken by the Company.

### Interest Rate Risk

Interest rate risk is the risk that the future cash flows of a financial instrument will fluctuate due to changes in market interest rates. The Company holds its cash in bank accounts that earn variable interest rates. Due to the short-term nature of these financial instruments, fluctuations in market rates do not have a significant impact on the estimated fair value of the Company's cash balances as of December 31, 2023. The Company manages interest rate risk by maintaining an investment policy for short-term investments. This policy focuses primarily on preservation of capital and liquidity. The Company monitors the investments it makes and is satisfied with the credit rating of its banks. The 2023 Debentures in an aggregate principal amount of US\$110 million, carry a fixed interest rate of 9.0% and are not subject to interest rate fluctuations.

## **Other Risk Factors**

The operations of the Company are speculative due to the high-risk nature of its business which is the exploration of mining properties. For a comprehensive list of the risks and uncertainties facing the Company, please see "*Risk Factors*" in the Company's most recent annual information form and below under "*Industry and Economic Factors that May Affect the Business*". These are not the only risks and uncertainties that NexGen faces. Additional risks and uncertainties not presently known to the Company or that the Company currently considers immaterial may also impair its business operations. These risk factors could materially affect the Company's future operating results and could cause actual events to differ materially from those described in forward-looking statements relating to the Company.

### Negative Impacts by an Outbreak of Infectious Disease or Pandemic

An outbreak of infectious disease, pandemic or a similar public health threat, such as the COVID-19 pandemic, and the response thereto, could adversely impact the Company, both operationally and financially. The global response to the COVID-19 pandemic has resulted in, among other things, border closures, severe travel restrictions and extreme fluctuations in financial and commodity markets. Additional measures may be implemented by one or more governments around the world in jurisdictions where the Company operates. Labour shortages due to illness, Company or government-imposed isolation programs, or restrictions on the movement of personnel or possible supply chain disruptions could result in a reduction or interruption of the Company's operations, including operational shutdowns or suspensions. The inability to continue ongoing exploration and development work could have a material adverse effect on the Cowpany's future cash flows, earnings, results of operations and financial condition. The extent to which COVID-19 and any other pandemic or public health crisis impacts the Company's business, affairs, operations, financial condition, liquidity, availability of credit and results of operations will depend on future developments that are highly uncertain and cannot be accurately predicted, including new information which may emerge concerning the severity of and the actions required to contain the COVID-19 pandemic or remedy its impact, among others.

## Negative Operating Cash Flow and Dependence on Third Party Financing

The Company has no source of operating cash flow and there can be no assurance that the Company will ever achieve profitability. Accordingly, the Company is dependent on third-party financing to continue exploration activities on the Company's properties, maintain capacity and satisfy contractual obligations. Accordingly, the amount and timing of expenditures depends on the Company's cash reserves and access to third-party financing. Failure to obtain such additional financing could result in delay or indefinite postponement of further exploration and development of the Company's properties, including the Rook I Project, or require the Company to sell one or more of its properties (or an interest therein). In particular, there can be no assurance that the Company will have achieved profitability prior to the maturity date and may be required to finance the repayment of all or a part of the principal amount of the 2023 Debentures. Failure to repay the 2023 Debentures in accordance with the terms thereof would have a material adverse effect on the Company's financial position.

## **Uncertainty of Additional Financing**

As stated above, the Company is dependent on third-party financing, whether through debt, equity, or other means. Although the Company has been successful in raising funds to date, there is no assurance that the Company will be successful in obtaining required financing in the future or that such financing will be available on terms acceptable to the Company. The Company's access to third-party financing depends on several factors including the price of uranium, the results of ongoing exploration, the Company's obligations under the 2023 Debentures, a claim against the Company, a significant event disrupting the Company's business or uranium industry generally, or other factors may make it difficult or impossible to obtain financing through debt, equity, or other means on favourable terms, or at all. As previously stated, failure to obtain such additional financing could result in delay or indefinite postponement of further exploration and development of the Company's properties, including the Rook I Project, or require the Company to sell one or more of its properties (or an interest therein).

## The Price of Uranium Price and Alternate Sources of Energy

The price of the Company's securities is highly sensitive to fluctuations in the price of uranium. Historically, the fluctuations in these prices have been, and are expected to continue to be, affected by numerous factors beyond the Company's control. Such factors include, among others: demand for nuclear power; political and economic conditions in uranium producing and consuming countries; public and political response to a nuclear accident; improvements in nuclear reactor efficiencies; reprocessing of used reactor fuel and the re-enrichment of depleted uranium tails; sales of excess inventories by governments and industry participants; and production levels and production costs in key uranium producing countries.

In addition, nuclear energy competes with other sources of energy like oil, natural gas, coal and hydroelectricity. These sources are somewhat interchangeable with nuclear energy, particularly over the longer term. If lower prices of oil, natural gas, coal and hydroelectricity are sustained over time, it may result in lower demand for uranium concentrates and uranium conversion services, which, among other things, could lead to lower uranium prices. Growth of the uranium and nuclear power industry will also depend on continuing and growing public support for nuclear technology to generate electricity. Unique political, technological and environmental factors affect the nuclear industry, exposing it to the risk of public opinion, which could have a negative effect on the demand for nuclear power and increase the regulation of the nuclear power industry. An accident at a nuclear reactor anywhere in the world could affect acceptance of nuclear energy and the future prospects for nuclear generation.

All of the above factors could have a material and adverse effect on the Company's ability to obtain the required financing in the future or to obtain such financing on terms acceptable to the Company, resulting in material and adverse effects on its exploration and development programs, cash flow and financial condition.

## **Exploration Risks**

Exploration for mineral resources involves a high degree of risk and few properties that are explored are ultimately developed into producing mines. The risks and uncertainties inherent in exploration activities include but are not limited to: general economic, market and business conditions, the regulatory process and actions, failure to obtain necessary permits and approvals, technical issues, new legislation, competitive and general economic factors and conditions, the uncertainties resulting from potential delays or changes in plans, the occurrence of unexpected events and management's capacity to execute and implement its future plans. There is also no assurance that even if commercial quantities of ore are discovered that it will be developed and brought into commercial production. The commercial viability of a mineral deposit once discovered is also dependent upon a number of factors, most of which factors are beyond the control of the Company and may result in the Company not receiving adequate return on investment capital.

## **Uninsurable Risks**

Mining operations generally involve a high degree of risk. Exploration, development and production operations on mineral properties involve numerous risks, including but not limited to unexpected or unusual geological operating conditions, seismic activity, rock bursts, cave-ins, fires, floods, landslides, earthquakes and other environmental occurrences, and political and social instability, any of which could result in damage to, or destruction of life or property, environmental damage and possible legal liability. Although the Company believes that appropriate precautions to mitigate these risks are being taken, operations are subject to hazards such as equipment failure or failure of structures, which may result in environmental pollution and consequent liability. It is not always possible to obtain insurance against all such risks and the Company may decide not to insure against certain risks because of high premiums or other reasons. Should such liabilities arise, they could reduce or eliminate the Company's future profitability and result in increasing costs and a decline in the value of the Shares. While the Company may obtain insurance against certain risks in such amounts as it considers adequate, the nature of these risks is such that liabilities could exceed policy limits or be excluded from coverage. The potential costs that could be associated with any liabilities not covered by insurance or in excess of insurance coverage may cause substantial delays and require significant capital outlays, thereby adversely affecting the Company's business and financial condition.

## **Reliance upon Key Management and Other Personnel**

The Company relies on the specialized skills of management in the areas of mineral exploration, geology, project development and business negotiations and management. The loss of any of these individuals could have an adverse effect on the Company. The Company does not currently maintain key-man life insurance on any of its key employees. In addition, as the Company's business activity continues to grow, it will require additional key financial, administrative and qualified technical personnel. Although the Company believes that it will be successful in attracting, retaining and training qualified personnel, there can be no assurance of such success. If it is not successful in attracting, retaining and training qualified personnel, the efficiency of the Company's business could be affected, which could have an adverse impact on its future cash flows, earnings, results of operation and financial condition.

### **Imprecision of Mineral Reserve and Resource Estimates**

Mineral Reserve and Resource figures are estimates, and no assurances can be given that the estimated levels of uranium will be produced. Such estimates are expressions of judgment based on knowledge, mining experience, analysis of drilling results and industry practices. Valid estimates made at a given time may significantly change when new information becomes available. While the Company believes that its Mineral Resource estimate is well established and reflects management's best estimates, by their nature, Mineral Resource estimates are imprecise and depend, to a certain extent, upon geological assumptions based on limited data, and statistical inferences which may ultimately prove unreliable. Should the Company encounter mineralization or formations different from those predicted by past sampling and drilling, resource estimates may have to be adjusted.

These are not the only risks and uncertainties that NexGen faces. Additional risks and uncertainties not presently known to the Company or that the Company currently considers immaterial may also impair its business operations. These risk factors could materially affect the Company's future operating results and could cause actual events to differ materially from those described in forward-looking statements relating to the Company.

### **General Inflationary Pressures**

General inflationary pressures may affect labour and other costs, which could have a material adverse effect on the Company's financial condition, results of operations and the capital expenditures required to advance the Company's business plans. There can be no assurance that any governmental action taken to control inflationary or deflationary cycles will be effective or whether any governmental action may contribute to economic uncertainty. Governmental action to address inflation or deflation may also affect currency values. Accordingly, inflation and any governmental response thereto may have a material adverse effect on the Company's business, results of operations, cash flow, financial condition and the price of the Shares.

### Industry and Economic Factors that May Affect the Business

The business of mining for minerals involves a high degree of risk. NexGen is an exploration and development company and is subject to risks and challenges similar to companies in a comparable stage and industry. These risks include, but are not limited to, the challenges of securing adequate capital, exploration, development and operational risks inherent in the mining industry; changes in government policies and regulations; the ability to obtain the necessary permitting; as well as global economic and uranium price and exchange rate volatility; all of which are uncertain.

The underlying value of the Company's exploration and evaluation assets is dependent upon the existence and economic recovery of mineral reserves and is subject to, but not limited to, the risks and challenges identified above. Changes in future conditions could require material write-downs of the carrying value of the Company's exploration and evaluation assets. Certain of NexGen's properties are subject to various royalty agreements.

In particular, the Company does not generate revenue. As a result, the Company continues to be dependent on third-party financing to continue exploration and development activities on the Company's properties, maintain capacity and satisfy contractual obligations including servicing the interest payments due on the 2023 Debentures and repaying the principal amount thereof at maturity (or sooner in the event of redemption in accordance with the terms of the 2023 Debentures). Accordingly, the Company's future performance will be most affected by its access to financing, whether debt, equity or other means.

Access to such financing, in turn, is affected by general economic conditions, the price of uranium, exploration risks and the other factors described in the section entitled "Risk Factors" in the Company's most recent annual information form.

For further information on Risk Factors, refer to those set forth in the Company's Annual Information Form dated March 6, 2024, filed under the Company's profile on SEDAR+ at <u>www.sedarplus.ca</u> on EDGAR at <u>www.sec.gov</u>.

## **DISCLOSURE CONTROLS AND INTERNAL CONTROL OVER FINANCIAL REPORTING**

## **Disclosure Controls and Procedures**

Disclosure controls and procedures have been designed to provide reasonable assurance that all relevant information required to be disclosed by the Company is accumulated and communicated to senior management as appropriate and recorded, processed, summarized and reported to allow timely decisions with respect to required disclosure, including in its annual filings, interim filings or other reports filed or submitted by it under securities legislation.

The Company's management, including the Chief Executive Officer (the "CEO") and Chief Financial Officer (the "CFO"), has evaluated the effectiveness of the design and operation of the Company's disclosure controls and procedures and, as defined in the rules of the US Securities and Exchange Commission and the Canadian Securities Administrators, as at December 31, 2023. Based on this evaluation, the CEO and CFO have concluded that the Company's disclosure controls and procedures were effective as at December 31, 2023.

## Management's Report on Internal Control Over Financial Reporting

The Company's management, including its CEO and CFO, is responsible for establishing and maintaining internal control over financial reporting, and conducted an evaluation of the effectiveness of the Company's internal control over financial reporting based on the *Internal Control — Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

Based on this evaluation, management concluded that the Company's internal control over financial reporting was effective as of December 31, 2023. There have been no changes in the Company's internal control over financial reporting during the year that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting. Internal control over financial reporting is intended to provide reasonable assurance regarding the reliability of the Company's financial reporting for external purposes in accordance with IFRS, as issued by the IASB. The Company's management, including the CEO and the CFO, believe that any control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Because of the inherent limitations in all control systems, they cannot provide absolute assurance that all control issues and instances of fraud, if any, within the Company have been prevented or detected. These inherent limitations include the realities that judgments in decision-making can be faulty, and that breakdowns can occur because of simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people, or by unauthorized override of the control. The design of any systems of controls also is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Accordingly, because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected.

KPMG LLP, an independent registered public accounting firm that audited and reported on the Company's consolidated financial statements, has issued an attestation report on the effectiveness of the Company's internal control over financial reporting as of December 31, 2023. The attestation report is included in the Report of Independent Registered Public Accounting Firm on NexGen's internal control over financial reporting that accompany's Annual Financial Statements.

# **TECHNICAL DISCLOSURE**

All scientific and technical information in this MD&A is derived from the Company's Rook I FS Technical Report. For details of the Rook I Project, including the key assumptions, parameters and methods used to estimate the updated Mineral Resource, please refer to the Rook I FS Technical Report filed under the Company's profile on SEDAR+ at <u>www.sedarplus.ca</u> and on EDGAR at <u>www.sec.gov</u>.

All scientific and technical information in this MD&A has been reviewed and approved by Mr. Kevin Small, P.Eng., Senior Vice President, Operations and Engineering, and Mr. Jason Craven, P.Geo., Manager, Exploration for NexGen. Each of Mr. Small and Mr. Craven is a qualified person for the purposes of NI 43-101. Mr. Craven has verified the sampling, analytical, and test data underlying the information or opinions contained herein by reviewing original data certificates and monitoring all of the data collection protocols.

Natural gamma radiation in drill core reported in this MD&A was measured in counts per second (cps) using a Radiation Solutions Inc. RS-120 gamma-ray scintillometer. The reader is cautioned that total count gamma readings may not be directly or uniformly related to uranium grades of the rock sample measured; they should be used only as a preliminary indication of the presence of radioactive minerals.

All references in this MD&A to "Mineral Resource", "Inferred Mineral Resource", "Indicated Mineral Resource", "Measured Mineral Resource", "Mineral Reserve", "Proven Mineral Reserve" and "Probable Mineral Reserve" have the meanings ascribed to those terms by the Canadian Institute of Mining, Metallurgy and Petroleum, as the CIM Definition Standards on Mineral Resources and Mineral Reserves adopted by CIM Council, as amended. The requirements of NI 43-101 are different than Securities and Exchange Commission disclosure requirements applicable to mineral Resources contained herein is not comparable to disclosure by issuers required to comply with Securities and Exchange Commission disclosure by issuers required to comply with Securities and Exchange Commission disclosure by issuers required to comply with Securities and Exchange Commission disclosure by issuers required to comply with Securities and Exchange Commission disclosure by issuers required to comply with Securities and Exchange Commission disclosure by issuers required to comply with Securities and Exchange Commission disclosure by issuers required to comply with Securities and Exchange Commission disclosure by issuers required to comply with Securities and Exchange Commission disclosure requirements.

## APPROVAL

The Board approved the disclosure contained in this MD&A. A copy of this MD&A will be provided to anyone who requests it and can be located, along with additional information, including the Company's current annual information form, on the Company's profile on SEDAR+ at <u>www.sedarplus.ca</u>, on EDGAR at <u>www.sec.gov</u>, on the ASX at www.asx.com.au or by contacting the Company's Corporate Secretary, located at Suite 3150, 1021 West Hastings Street, Vancouver, BC V6E 0C3 or at (604) 428-4112.