



NexGen Receives Strong Support for Rook I Project Financing in Excess of US\$1 Billion

Vancouver, BC, May 1, 2023 - NexGen Energy Ltd. ("NexGen" or the "Company") (TSX: NXE) (NYSE: NXE) (ASX: NXG) is pleased to announce that it has received significant initial interest from prospective financial institutions, including commercial lenders and export credit agencies, for providing project financing for the Rook I Project (the "Project" or "Rook I"). To date, NexGen has 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.

The progress of project financing discussions with external parties further validates the high-quality nature of Rook I – a low-cost operation in the tier-one jurisdiction of Saskatchewan that continues to demonstrate elite technical, environmental, and social standards with strong support from local communities. NexGen will continue to progress discussions with the groups and provide updates on this matter as appropriate. Finalization of the agreements is scheduled for Q4 2023 in line with the Project development schedule.

Leigh Curyer, Chief Executive Officer, commented: "Strong interest from lenders and other financing parties for the development of Rook I demonstrates NexGen's delivery of a sustainable, clean energy legacy that will benefit our valued stakeholders and all of Canada. The receipt of these expressions of interest are a clear de-risking step demonstrating lender confidence in the economics of the Rook I Project, the uranium market fundamentals incorporating the Project and the elite ESG manner NexGen is delivering in the development of the Project."

About NexGen

NexGen Energy is a Canadian company focused on delivering clean energy fuel for the future. The Company's flagship Rook I Project is being optimally developed into the largest low-cost producing uranium mine globally, incorporating the most elite standards in environmental and social governance. The Rook I Project is supported by a NI 43-101 compliant Feasibility Study which outlines the elite environmental performance and industry-leading economics. NexGen is led by a team of experienced uranium and mining industry professionals with expertise across the entire mining life cycle, including exploration, financing, project engineering and construction, operations, and closure. NexGen is leveraging its proven experience to deliver a Project that leads the entire mining industry socially, technically, and environmentally. The Project and prospective portfolio in northern Saskatchewan will provide generational long-term economic, environmental, and social benefits for Saskatchewan, Canada, and the world.

NexGen is listed on the Toronto Stock Exchange, the New York Stock Exchange under the ticker symbol "NXE," and on the Australian Securities Exchange under the ticker symbol "NXG," providing access to global investors to participate in NexGen's mission of solving three major global challenges in decarbonization, energy security and access to power. The Company is headquartered in Vancouver, British Columbia, with its primary operations office in Saskatoon, Saskatchewan.

This news release constitutes a "designated news release" for the purposes of the Company's prospectus supplement dated January 6, 2023 to its short form base shelf prospectus dated December 29, 2022.

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Technical Disclosure

All technical information in this news release has been reviewed and approved by Kevin Small, NexGen's Senior Vice President, Engineering and Operations, a qualified person under National Instrument 43-101.

A technical report in respect of the FS is filed on SEDAR (www.sedar.com) and EDGAR (www.sec.gov/edgar.shtml) and is available for review on NexGen Energy's website (www.nexgenenergy.ca).

Cautionary Note to U.S. Investors

This news release includes Mineral Reserves and Mineral Resources classification terms that comply with reporting standards in Canada, and the Mineral Reserves and the Mineral Resources estimates are made in accordance with NI 43-101. NI 43-101 is a rule developed by the Canadian Securities Administrators that establishes standards for all public disclosure an issuer makes of scientific and technical information concerning mineral projects. These standards differ from the requirements of the Securities and Exchange Commission ("SEC") set by the SEC's rules that are applicable to domestic United States reporting companies. Consequently, Mineral Reserves and Mineral Resources information included in this news release is not comparable to similar information that would generally be disclosed by domestic U.S. reporting companies subject to the reporting and disclosure requirements of the SEC. Accordingly, information concerning mineral deposits set forth herein may not be comparable with information made public by companies that report in accordance with U.S. standards.

Forward-Looking Information

The information contained herein contains "forward-looking statements" within the meaning of applicable United States securities laws and regulations and "forward-looking information" within the meaning of applicable Canadian securities legislation. "Forward-looking information" includes, but is not limited to, statements with respect to mineral reserve and mineral resource estimates, the 2021 Arrow Deposit, Rook I Project and estimates of uranium production, grade, and long-term average uranium prices, anticipated effects of completed drill results on the Rook I Project, planned work programs, completion of further site investigations and engineering work to support basic engineering of the Project and expected outcomes. Generally, but not always, forward-looking information and statements can be identified by the use of words 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. Statements relating to "mineral resources" are deemed to be forward-looking information, as they involve the implied assessment that, based on certain estimates and assumptions, the mineral resources described can be profitably produced in the future.

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. Forward-looking information and statements are made based upon numerous assumptions, including, among others, that the mineral reserve and resources estimates and the key assumptions and parameters on which such estimates are based are as set out in this news release and the technical report for the property, the results of planned exploration activities are as anticipated, the price and market supply of uranium, the cost of planned exploration activities, that financing will be available if and when needed and on reasonable terms, that third party contractors, equipment, supplies and governmental and other approvals required to conduct NexGen's planned exploration activities will be available on reasonable terms and in a timely manner and that general business and economic conditions will not change in a materially adverse manner. 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 in the future.

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, the existence of negative operating cash flow and dependence on third party financing, uncertainty of the availability of additional financing (including the project financing referred to herein), the risk that pending assay results will not confirm previously announced preliminary results, conclusions of economic valuations, the risk that actual results of exploration activities will be different than anticipated, the cost of labour, equipment or materials will increase more than expected, that the future price of uranium will decline or otherwise not rise to an economic level, the appeal of alternate sources of energy to uranium-produced energy, that the Canadian dollar will strengthen against the U.S. dollar, that mineral resources and reserves are not as estimated, that actual costs or actual results of reclamation activities are greater than expected, that changes in project parameters and plans continue to be refined and may result in increased costs, of unexpected variations in mineral resources and reserves, grade or recovery rates or other risks generally associated with mining, unanticipated delays in obtaining governmental, regulatory or First Nations approvals, risks related to First

Nations title and consultation, reliance upon key management and other personnel, deficiencies in the Company's title to its properties, uninsurable risks, failure to manage conflicts of interest, failure to obtain or maintain required permits and licences, risks related to changes in laws, regulations, policy and public perception, as well as those factors or other risks as more fully described in NexGen's Annual Information Form dated February 24, 2023 filed with the securities commissions of all of the provinces of Canada except Quebec and in NexGen's 40-F filed with the United States Securities and Exchange Commission, which are available on SEDAR at www.sedar.com and Edgar at www.sec.gov .

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 statements or implied by forward-looking information or statements, there may be other factors that cause results not to be as anticipated, estimated, or intended. Readers are cautioned not to place undue reliance on forward-looking information or statements due to the inherent uncertainty thereof.

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 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.

NexGen Energy (Canada) Ltd.

ARBN 649 325 128

A foreign company registered in its original jurisdiction of British Columbia, Canada as NexGen Energy Ltd.

SUPPLEMENTARY PROSPECTUS

1. Important Information

This is a supplementary prospectus (**Supplementary Prospectus**) which supplements and is intended to be read with the prospectus dated 9 January 2023 (**Original Prospectus**) as supplemented by a refresh supplementary prospectus dated 6 April 2023 (**Refresh Supplementary Prospectus**), each of which was issued by NexGen Energy (Canada) Ltd. (ARBN 649 325 128), a foreign company registered in its original jurisdiction of British Columbia, Canada as NexGen Energy Ltd. (British Columbia company incorporation number BC0983846) (**NexGen**).

This Supplementary Prospectus is dated 1 May 2023 and was lodged with ASIC on that date.

ASIC, the ASX and their respective officers take no responsibility for the contents of this Supplementary Prospectus.

This Supplementary Prospectus should be read together with the Original Prospectus and the Refresh Supplementary Prospectus. Other than as set out below, all details in relation to the Original Prospectus and the Refresh Supplementary Prospectus remain unchanged. Terms and abbreviations defined in the Original Prospectus and the Refresh Supplementary Prospectus have the same meaning in this Supplementary Prospectus. If there is any conflict between the Original Prospectus or the Refresh Supplementary Prospectus and this Supplementary Prospectus, this Supplementary Prospectus will prevail.

This Supplementary Prospectus will be issued with the Original Prospectus and the Refresh Supplementary Prospectus as an electronic prospectus, copies of which can be downloaded from <https://www2.asx.com.au/markets/trade-our-cash-market/todays-announcements> under the code "NXG". This is an important document and should be read in its entirety. If you do not understand it, you should consult your professional advisers without delay. NexGen will send a copy of this Supplementary Prospectus to all applicants who have subscribed for CDIs under the Original Prospectus or the Original Prospectus and the Refresh Supplementary Prospectus to the date of this Supplementary Prospectus.

2. Purpose of this Supplementary Prospectus

The purpose of this Supplementary Prospectus is to provide additional information to investors as set out in Section 4 below.

3. No investor action required

The Directors believe that the changes in this Supplementary Prospectus are not materially adverse from the point of view of an investor. Accordingly, no additional investor action is required. An investor may apply to be issued CDIs pursuant to the Cleansing Offer in the manner set out in section 1.5 of the Original Prospectus.

4. New Information – NexGen Receives Strong Support for Rook I Project Financing in Excess of US \$1 Billion

NexGen has today released the announcement attached to this Supplementary Prospectus.

The Directors of NexGen are not aware of any other acts, matters or things (not already described in the Original Prospectus or the Refresh Supplementary Prospectus) which may be material to the making of and informed assessment of the effect of the Cleansing Offer on NexGen or the rights attaching to the CDIs.

5. Authorisation and consent to lodgement

The Supplementary Prospectus is issued by NexGen and its issue has been authorised by a resolution of the Directors.

In accordance with section 720 of the Corporations Act, each Director has consented to the lodgement of this Supplementary Prospectus with ASIC and has not withdrawn that consent.

Signed for and on behalf of NexGen.

A handwritten signature in black ink, appearing to read "LR Curyer". The signature is written in a cursive style with a large, looping initial "L" and "R".

Leigh Curyer
President and Chief Executive Officer
NexGen Energy (Canada) Ltd

Dated: May 1, 2023