



Forward Looking Statements

with information made public by companies that report in accordance with U.S. standards.

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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, 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 naticipated, 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 manage co

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 or events except as required by applicable securities laws.



NexGen | Who we are

NexGen is advancing the generational Rook I Project which will be the largest producer of uranium globally when in production at a time the world is experiencing an increase in electricity consumption with the primary objective of decarbonization.

A team of experienced uranium industry professionals with expertise in exploration, corporate finance, mine development, and operations, NexGen is focused on setting elite standards in every respect of our conduct and operations.



PURPOSE

Create as much positivity as possible – socially, economically, environmentally.



VISION

Become a world leading uranium producer delivering the clean energy needs of the future.



Build a sustainable clean energy legacy through elite standards in environmental performance, mine management and community advancement.



VALUES

honesty, respect, resilience, accountability



Listed under NXE Ticker:

TSX-V	2013
TSX	2016
NYSE	2017
ASX	2021



Awards and Recognitions:

2018 PDAC Bill Dennis Award for Canadian Mineral Discovery

2019 PDAC Environmental & Social Responsibility Award 2020 Paragon Award for Community Excellence



NexGen Energy Ltd. | History

- Founded in 2010 by Leigh Curyer and group of proven uranium industry professionals.
- Shared belief that uranium would play a critical role in the delivery of a clean energy future for the planet.
- Focused on the acquisition, exploration and development of Canadian uranium projects.
- Set out to find a Tier One asset.
- Currently advancing the Rook I Project in alignment with visions, values and with an elite ESG profile.



Rook | Project | The Need

Major governments and corporations have made commitments to cut their carbon emissions to reach net zero in coming years. Nuclear energy must be part of the energy mix to combat climate change.









Rook I Project | Low cost, long life, environmentally elite

- Largest development-stage uranium project in Canada
- Land-based, basement-hosted Arrow Discovery
- Underground mine, surface mill and ancillary facilities, and an underground tailings management facility
- Will be a significant supplier of uranium to help meet growing global demand for electricity from clean, low-carbon sources such as nuclear power

- A leading global resource project with reserves supporting a mine life of 11 years, and a resource open in all directions
- Elite Environmental, Social and Governance (ESG) commitments to the advancement of environment and community
- Project advancement
 - 2017 Preliminary Economic Assessment
 - 2018 Pre-feasibility Study
 - 2021 Feasibility Study (US\$50/lb U₃O₈)





Rook I Project Indigenous and Community | Engagement and Partnership

Engagement as a Core Value:

- Setting the standard for meaningful engagement in the natural resources sector
- Engagement with local communities and Indigenous Groups commenced prior to the first hole being drilled at the Rook I Project in 2013

Communities:

- Clearwater River Dene Nation
- Métis Nation of Saskatchewan, Métis Northern Region II
- Birch Narrows Dene Nation
- Buffalo River Dene Nation

Joint Working Group(s)

- Support the inclusion of Indigenous Knowledge (IK) throughout the environmental assessment process
- Comprising Senior NexGen staff and representatives appointed by elected Indigenous Leadership

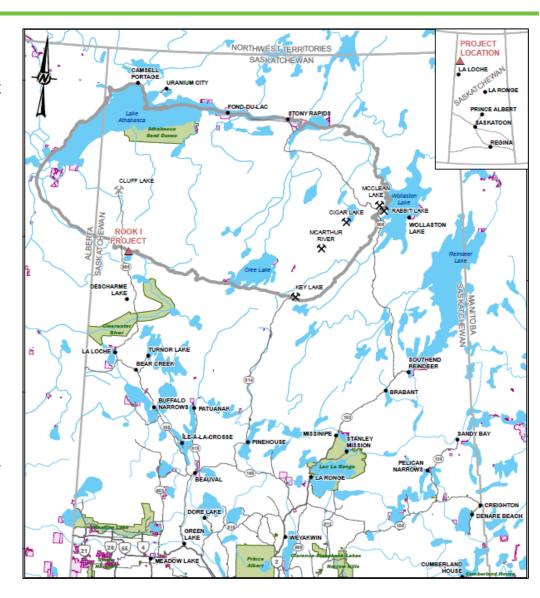
Partnership Approach: Study Agreements

- Define framework for collection of information to support the environmental assessment process
- Provide capacity for a Community-led Traditional Land Use (TLU) Study and gathering of IK specific to the Rook I Project

Impact & Mutual Benefit Agreements (IBAs)

Two (2) agreements signed; additional negotiations ongoing

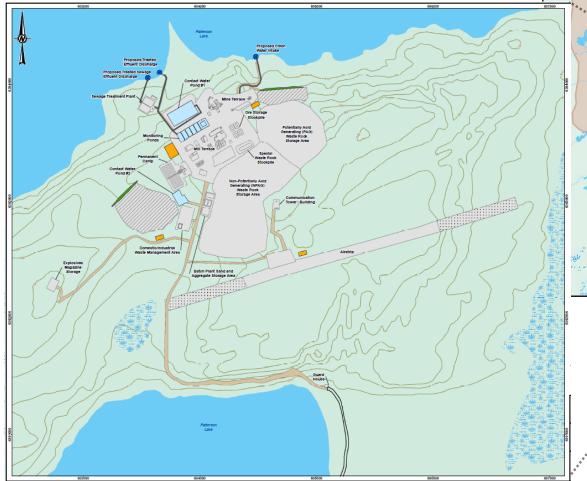


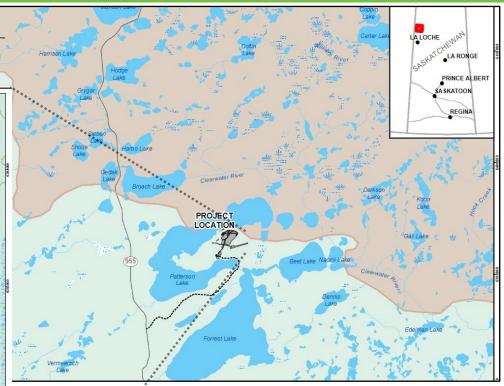


Rook | Project | Overview

Northwest Saskatchewan

Adjacent to Patterson Lake





Project Infrastructure Footprint ≈ 230 hectares



Rook | Project | Our commitment to elite environmental performance

NexGen Energy is committed to elite environmental performance throughout all phases of developing and incorporating best-in-class environmental practices, designs and technologies. These methods and elite standards leverage NexGen's experience and known technologies to ensure the health and safety of personnel and the protection of the environment.

Exercising responsible stewardship of air, land, and water resources

Applying economically viable best available technology and practices

Keeping all releases and adverse impacts as low as reasonably achievable

Respecting the principle of pollution prevention

Designing and operating for responsible closure

Minimizing the generation of waste

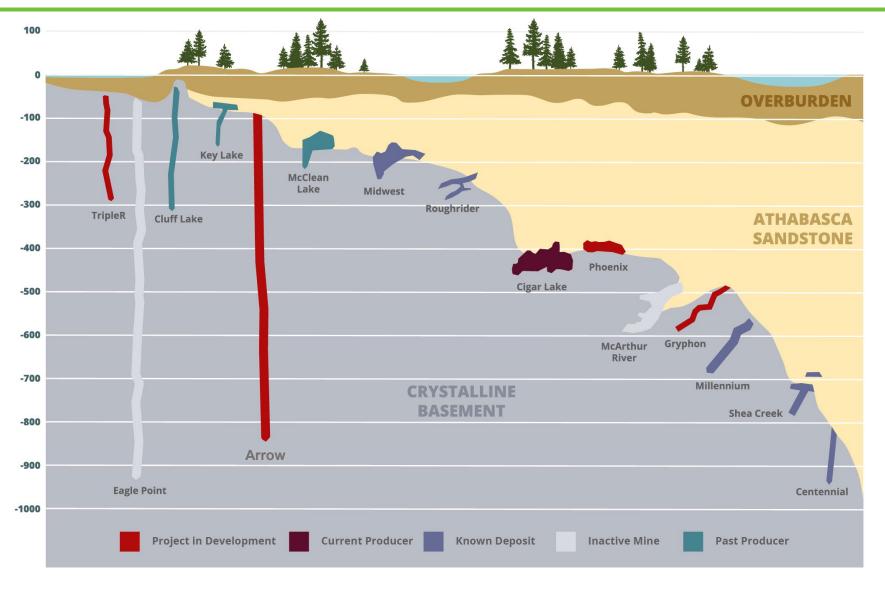
Responsibly managing tailings and waste facilities throughout their lifecycle

Responsibly managing energy use and greenhouse gas emissions

Monitoring and assessing against indicators and targets based on sound science



Rook | Project | Geological Setting







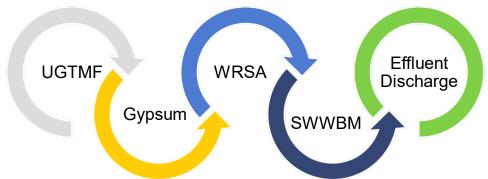
Rook I | Best in class tailings management approach

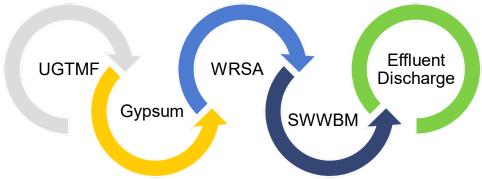
All processed waste streams to be stored underground, either in **backfilled** mine stopes or in a purpose-built Underground Tailings Management Facility (UGTMF).

The UGTMF will significantly reduce the surface footprint of the Project and represents continued and ongoing reclamation during operations.

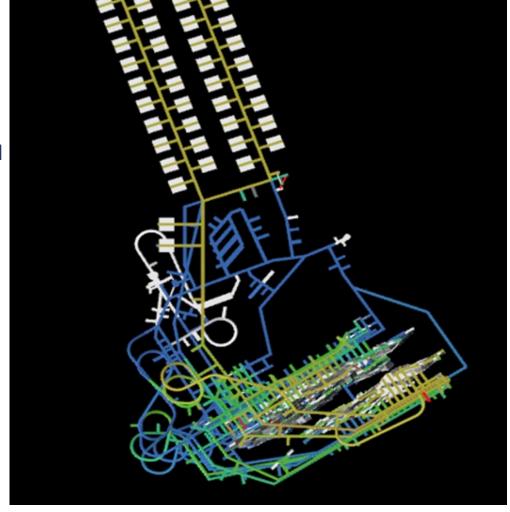
Feasibility Study test work confirmed paste fill strength meets or exceeds all requirements set in the original design for a potential paste backfill to be used for underground stope stability.

ZERO risk of surface tailings failures, entirely mitigating one of the largest risk potentials in existing and development-stage mining projects.









WRSA: Waste Rock Storage Area **SWWBM**: Site-wide Water Balance Model

Rook I Permitting | Integrated Approach

Overview

Harmonized provincial and federal Environmental Assessment process, coordinated by the Canadian Nuclear Safety Commission (CNSC)

- Saskatchewan: The Environmental Assessment Act
- Canada: Canadian Environmental Assessment Act, 2012

Integrated federal permitting and licensing advancing in parallel

- Currently advancing licensing scope for site preparation, construction and commissioning
- Early engagement with federal regulators on Licence Application and Integrated Management System

Status

Environmental Assessment

- Formally commenced with submission of Project Description (February 2019)
- Revised Project Description and Terms of Reference submitted (April 2019)
- CNSC Decision on Environmental Assessment scope received (February 2020)

Licence Application

- Formally commenced with initial Licence application submission (February 2019)
- Submission of additional information to support the Licence application ongoing



Rook I Permitting | Aligning Values for Positive Outcomes

NexGen Approach: Advancing a Tier 1 Project with a Values-Based Organization

Indigenous and Community Engagement

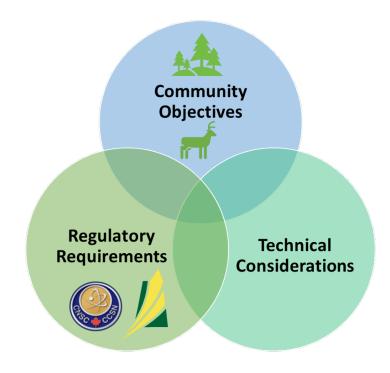
- Study Agreements for the inclusion of Indigenous Knowledge during the EA Process; five formal (5) study agreements with TLUs
- Joint Working Groups and Community information sessions
- Ongoing engagement through COVID-19; transition to virtual meetings

Technically Robust

- Integrated Project Development and EA teams incorporating enhancements into environmental assessment Project case
- Coordinated, multi-disciplinary team with experience in the uranium space

Regulatory Relationships

- Transparent communications
- Ongoing technical presentations



Lifecycle Approach





