


OUR FUTURE, OUR PLAN FOR NUCLEAR POWER

SMR Development in Saskatchewan
Regional Evaluation Process Workshop #2
December 13 & 15, 2022



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Land Acknowledgement



SaskPower's work reaches the ancestral lands of many Nations.

This includes those Nations on Treaty 2, 4, 5, 6, 8 and 10 Territories as well as the Dakota and Métis Nations.

As a Crown utility, we reaffirm our relationship with the Peoples of these lands and honour our shared determination to preserve the lands for generations to come.



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SAFETY MOMENT

3

3

Agenda

| | |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| 9:00 – 9:20 a.m. | Welcome, Safety Moment, Introductions |
| 9:20 – 9:40 a.m. | Session #1 <ul style="list-style-type: none"> • Ice Breaker • Recap Workshop #1 |
| 9:40-10:50 a.m. | Session #2: Siting Criteria <ul style="list-style-type: none"> • Siting Process • Regional Siting Criteria |
| Break | |
| 11:00 a.m. – 12:00 p.m. | Session #3: Water Valuation |
| Lunch Break | |
| 12:30 – 1:45 p.m. | Session #4: Regional Visioning Workshop |
| Break | |
| 2:00 – 2:45 p.m. | Session #5: Planning for Workshop #3 |
| 2:45 – 3:00 p.m. | Session #6 Next Steps and Wrap-up |

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Welcome Back Ice Breaker

Go to www.menti.com and use the code:
5398 2582

Mentimeter

Which aspect of this Regional Evolution Process are you most interested in?

Siting Process

Environmental Impacts

Economic Development

Regulatory Requirements

Community Engagement

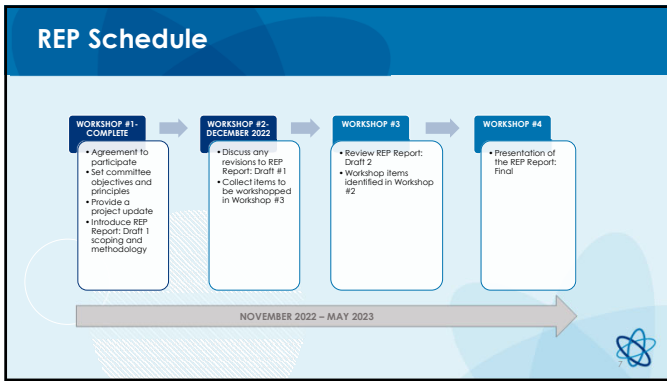
Indigenous Engagement

[Submit](#)

5

Recap Workshop #1

6



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REP Workshop #1 Breakout Session -Recap

Committee Objectives

- Provide information, input, feedback and suggestions to SafePower.
- Provide available information to help SafePower better identify potential benefits, and/or to best interests of the study area.
- Coordinate and have dialogue with an or representative group of the study area.
- Provide committee issues and concerns to the represented organization/community.

Committee Principles

I will hold myself and my fellow Committee Members accountable to uphold the following Principles:

8

Example Principle Cards

Committee Principles

I will hold myself and my fellow Committee Members accountable to uphold the following Principles:

Remain Focused to the best of my ability in provide input to attain the goals of the REP group.

Committee Principles

I will hold myself and my fellow Committee Members accountable to uphold the following Principles:

*Listen to understand
Question for clarity
Support each other to learn in a professional manner*

Committee Principles

I will hold myself and my fellow Committee Members accountable to uphold the following Principles:

To Hold on Show no BIAS; To ACCEPT All Views NO MATTER HOW DIVERSE FOR FURTHER DISCUSSIONS

Committee Principles

I will hold myself and my fellow Committee Members accountable to uphold the following Principles:

To work collaboratively with all members of the REP group, asking questions to clarify all aspects of the REP project and do a representative for the community.

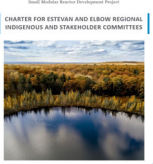
Committee Principles

I will hold myself and my fellow Committee Members accountable to uphold the following Principles:

Listen and understand what others think and respect opinion - Work as a community for everyone best interests

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Charter – Finalized



Small Modular Reactor Development Project
CHARTER FOR ESTEVAN AND ELROW REGIONAL INDIGENOUS AND STAKEHOLDER COMMITTEES

No Change to Committee Objectives

- Committee Principles:
 - 1) Listen to understand while being respectful and patient
 - 2) Remain focused to the best of my ability in providing input to attain the goals of the REP (see "The Objectives of the Committee" above)
 - 3) Work as a community for everyone's best interest
 - 4) Come Prepared to meetings and participate fully
 - 5) Be transparent and share information learned in the REP





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QUESTIONS

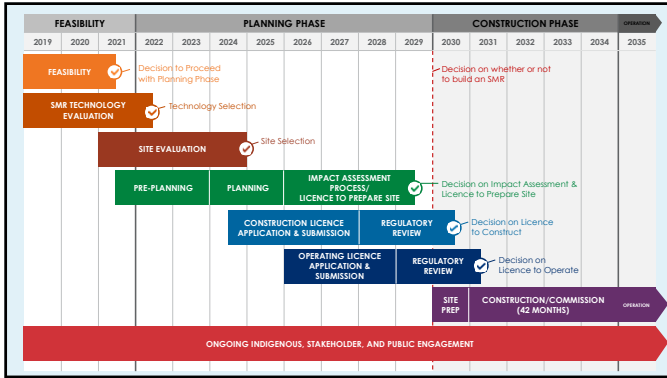
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Site Selection Process



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Step 1 – Technology Selection

What is the selected technology?

- Review and evaluate available reactor technologies
- Identify risks and technical requirements
- Siting considerations

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Step 2 – Identify Suitable Areas

How do we identify suitable siting areas?

- Available regional data
- Identify and weigh siting criteria
- Environmental, Social, Technical Themes
- Indicator Workbooks

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Indicator Workbooks

Regional Evaluation Process (REP)
Workshop 2 - Estevan and Elbow
November 2018 - 2019

Social / Cultural

Indicators

- 11. Communities
- 12. Employment and Income (2016-2018) (100%)
- 13. New Mobile Homes
- 14. School Achievement
- 15. Crime Incidence
- 16. Population Change
- 17. Population Density
- 18. Population Density (20)
- 19. Population Density (50)
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Environmental

Indicators

- 101. Aquatic Species at Risk (ASIR)
- 102. Aquatic Species at Risk (ASIR) (2016-2018)
- 103. Aquatic Species at Risk (ASIR) (2019-2021)
- 104. Aquatic Species at Risk (ASIR) (2022-2024)
- 105. Aquatic Species at Risk (ASIR) (2025-2027)
- 106. Aquatic Species at Risk (ASIR) (2028-2030)
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- 177. Aquatic Species at Risk (ASIR) (2241-2243)
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- 195. Aquatic Species at Risk (ASIR) (2295-2297)
- 196. Aquatic Species at Risk (ASIR) (2298-2299)

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Indicator Workbooks – Key Examples

FEDERAL CRITICAL HABITAT

Avoid areas with sensitive species

SOURCE
Environment and Climate Change Canada

DATA SOURCE
Data Source

LAYER PRE-PROCESSING AND COMMENTS
No buffer added.

HOW'S BUFFER?

DESCRIPTION
Critical habitat and important habitat for species at risk listed on Schedule 1 of the Federal Species at Risk Act (SARA) are located in Saskatchewan. Not all of the areas within these boundaries are necessary critical habitat and should be considered in conjunction with the corresponding species recovery document. Some important critical habitat areas are included.

WHAT?

WHAT?

WHY?

GEOGRAPHIC EXTENT

WEIGHT FOR SAM STRING

Importance

EXCLUSION

Theme

2

Federal Critical Habitat

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Indicator Workbooks – Key Examples

WETLANDS

Avoid development on wetlands

SOURCE
Cortina, Geomatics, Natural Resources Canada (NRCan)

LAYER PRE-PROCESSING AND COMMENTS
Add intermittent wetlands. No buffer added.

DESCRIPTION
Development on wetlands should be avoided. Includes Critical Interdependent Wetlands defined as a body of water coming and going at intervals and subjected also, at times, with vegetation requiring a significant amount of water.

WHAT?

WHAT?

WHY?

GEOGRAPHIC EXTENT

WEIGHT FOR SAM STRING

1

Wetlands

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Indicator Workbooks – Key Examples

PROXIMITY TO WORKFORCE

Prefer sites within 75 km of settlements > 2,000 people

SOURCE
Iain Campbell 2014 Census data

LAYER PRE-PROCESSING AND COMMENTS
Calculate population of populated areas by adding the population of dissemination areas within 75km. Distance decay buffer added from 0 to 75km.

DESCRIPTION
Populations greater than 2,000 people provide a localized workforce and access to emergency services (eg. hospitals, fire, police etc.). The 2011 Statistics Canada Census data was used for communities above 1,000 people to reflect a 2% annual compounded growth rate was applied.

GEOGRAPHIC EXTENT

WEIGHT FOR IMA STRING

21
Proximity to Workforce

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Indicator Workbooks – Key Examples

SURFICIAL GEOLOGY

The site should be geotechnically stable

SOURCE
Bathymetric Mapping and Petroleum Geology, Surficial Geology 2004

LAYER PRE-PROCESSING AND COMMENTS
Geotechnical team scored surficial geology types with three subtypes based on plugging potential. When not applicable to a site, a default geotechnical score of 0 was used. Note: some locations may be 900m and use instead where they exist.

DESCRIPTION
Surficial geology should be suitable for building infrastructure on. Some areas (sandbars) are unsuitable for infrastructure.

GEOGRAPHIC EXTENT

WEIGHT FOR IMA STRING

49
Surficial Geology

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Indicator Workbooks – Key Examples

WATER SOURCES

Prefer sites within 10 km of highly suitable water sources

SOURCE
Sudbrow, Golden, Clearwater, Deseronto, Napanee Resource Canada (RCC)

LAYER PRE-PROCESSING AND COMMENTS
Water resource suitability index with a 10 km buffer added. Use highest suitability where buffer overlaps.

DESCRIPTION
The site should be within 10 km of a suitable water source. Water availability factors, water quality factors and physical water body characteristics have been considered.

GEOGRAPHIC EXTENT

WEIGHT FOR IMA STRING

52
Water Sources

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Indicator Workbooks – Key Examples

WATER SOURCES PROXIMITY

Suitable water sources should be located within 3 km

SOURCE
Saskatchewan, Ontario, Manitoba, Saskatchewan, Alberta, Yukon, Northwest Territories, Nunavut

LATER FEE PROCESSING AND COMMENTS
Suitability from 0.5 km to high (100), 3 - 10 km distance depends on the water system.

DESCRIPTION
Although other references have indicated 10 km as an acceptable distance, the ISEF regional assessment study has shown a lower distance is suitable provided there are appropriate water quality and land use (e.g., 0.5 km or less distance).

GEOGRAPHIC EXTENT

WEIGHT FOR ISEF SITING

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Water Sources Proximity

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Siting Criteria and Tools

| Theme | Criteria |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental | Protected lands Rare/endangered species Terrestrial wildlife habitat inventory lands Woodland caribou habitat Wetlands Permanently waterbodies Permanent watercourses Aquatic species at risk range Federal critical habitat areas |
| Social/Cultural | Historical lands First Nations Reserves Urban municipal areas Future urban development Heritage sensitivity Department of National Defence military lands Proximity to workforce Population density International border |
| Technical | Headframe Airspace - O&G wells and facilities Airspace - Pipelines high pressure Airspace - Pipelines water Airspace - Railway Airspace - Sask Power lands Restricted Seismic hazard Managed dams Severe precipitation Drought potential Switching stations Existing power Sufficient capacity Plants Tomahawk potential Leads Transmission grid Water sources |

DATA ACQUISITION AND PROCESSING

CRITERIA ASSESSMENT

SUITABILITY ANALYSIS

SITE DELINEATION & EDUCATION

OPTION ANALYSIS

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Step 3 – Siting Areas

Where are the most suitable siting areas?

- Suitability analysis identified two candidate study areas for siting

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Step 4 – Engagement

4

What do people, communities and stakeholders say?
What else do we need to know?

- Virtual Workshops
- REP Workshop 2
- Information will be gathered, evaluated and incorporated into siting studies

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Indicator Workbooks – Input Examples

FUTURE URBAN DEVELOPMENT

Minimize encroachment on future development

SOURCE: International Agency for Urban Development (IAUD)

Comment on the weighting of an existing indicator

Comment on a proximity criteria

Provide additional information relevant to an existing criteria

16 Future Urban Development

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Indicator Workbooks – Input Examples

EXAMPLE OF A PROXIMITY CRITERIA

Zero to 5 km is low suitability, from 5 to 10 km distance decay from low to high from urban municipality

Feature (Urban Municipal Areas)

- The feature can or cannot be an exclusion
- This area is equally less suitable
- The area is gradually more suitable (i.e., distance decay)
- Everything past this point is most suitable

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Indicator Workbooks – Breakout Session

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Breakout

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Step 5 – Candidate Site Detailed Studies

- Multiple Candidate Sites
- Detailed Site-Specific Studies
- Select Shortlisted Sites

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Online Engagement Hub

[Saskpower.com/engage](https://saskpower.com/engage)

Planning for Nuclear Power

Understanding Nuclear Power from Small Modular Reactors
We're exploring small modular reactors in Saskatchewan and need your help.
GET STARTED

Study Areas
We want to learn more about the shortlisted study areas. Please help us populate the map.
GET STARTED

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Appendix B: REP Participant Activity Sheet

APPENDIX B REP PARTICIPANT ACITVITY SHEET

Provide us your feedback by filling out the information below.

What study area are you supplying information for?
 Estevan Elbow
Note: if you are responding to both please fill out one form per study area.

Section 4.0 Siting Process

The boundaries of each study area can be adjusted or further refined based on feedback received through the Regional Evaluation Process (REP). Do you feel the boundaries of the study area need to be adjusted? If so, describe how?

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Follow-up

Section 4 of Appendix B

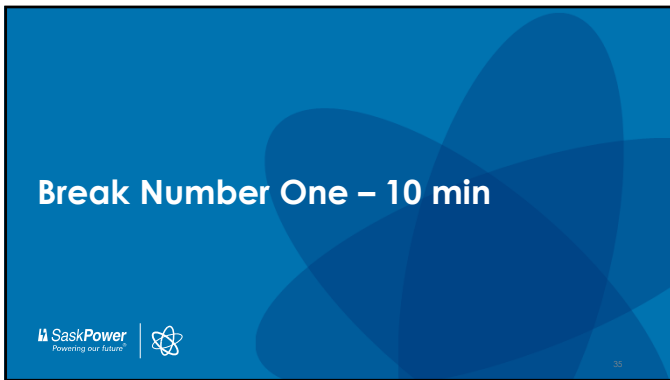
What indicators are we missing?
 What else should be considered?
 Did we assign the right weights for level of importance? If not -why?

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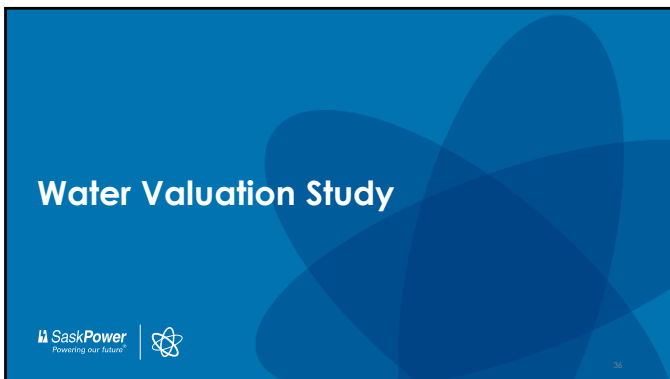
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Agenda

1. What We Have Heard
2. Water Valuation
 - What is it?
 - Why is it done?
 - What is it used for?
3. Water Valuation for the SMR Development Project
 - Use in supporting siting decisions
 - Types of water values
 - Data collection and analysis
4. Group Discussion
5. The Water Valuation Survey




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Water Values: What We Have Heard




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What We Have Heard




We know water is essential for all life and highly valued. Community input is key for this study.

Questions and concerns from the public so far:



Would the project impact the following?

- Risk to irrigation or cattle use from an increase in algae or decrease in water availability?
- Impact to recreation from an increase in algae, changes in ice cover in winter for ice fishing?
- Risk to human health leading to a risk of contamination to drinking water?
- Risk to environment leading to a risk of contamination to lakes and downstream habitat/wildlife?
- Risk to ecosystem health from thermal changes in water temperature?




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Water Valuation: The Basics

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What is Water Valuation?




Mission
Water valuation studies are used to inform businesses, governments, and the public on water values, impacts, and dependencies.

The information the studies provide is used to inform decisions about projects or programs:


- What are the impacts and trade-offs?
- What are the unintended consequences?
- How can we make the project better?

Valuing water means that we recognize *all* benefits provided by water – and understand what could be lost if there is an impact on water.




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What is Water Valuation?




Goal
The primary goal of water valuation is to document all the water values that may be impacted by a project or program. Specifically, this includes:

- Studying **all key values**, whether they are a direct part of the economy, provide ecosystem functions that indirectly support human uses and social values, or are otherwise valued by people
- Estimate values using **a common metric** where possible, to support consideration of all values on a level playing field
- Document the **social context** in addition to the monetary values to get a fuller understanding
- Model **changes in all key values** with the project to understand the impact across value types



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Application of Water Valuation




Uses of Water Valuation Studies

Water valuation can be applied across the board from municipal water management to business investment decisions to agricultural irrigation practices.

Examples include:

- Making water allocation more efficient
- Identifying opportunities to preserve water
- Determining best locations for business development with minimal impact to water
- Identifying "externalities" and designing business practices that protect water values
- Informing government policies and programs for environmental management
- Supporting corporate environmental, social and governance reporting




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Water Valuation and the SMR Development Project




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Water Valuation and the SMR Development Project



- The Water Valuation Study is one of the studies SaskPower is completing to inform the identification of water values within potential siting areas
- This study will seek to understand and describe the types of values that people place on water
- It will also show how these values might be impacted by an SMR Development Project



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Potential Siting Areas

Estevan Study Area

Boundaries are approximated
 - Potential siting areas
 - Proposed study areas
 - Potential water source
 - Rail transportation

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Potential Siting Areas

Elbow Study Area

Boundaries are approximated
 - Potential siting areas
 - Proposed study areas
 - Potential water source

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Study Data Collection and Analysis

Data Sources

In order to include diverse data including community knowledge as part of the water valuation study process, data will be collected from the following sources:

- Broad public and Indigenous engagement, including:
 - In-person virtual events
 - Online engagement
 - Location mapping tools
 - Water Valuation Survey
- The Duty to Consult process
- The Regional Evaluation Process (REP)
- Other technical, physical, biological and socioeconomic studies

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Study Data Collection and Analysis

Value of Water

- Direct Use of Water by People**
Water supply for agriculture, industry, business, and communities. Recreational and socio-cultural uses.
- Use of Water by the Environment that also Benefits People**
Ecosystem functions (e.g., regulating water flow, nutrient cycling, support for biodiversity).
- Option to Use Water in the Future**
Premium for future use by people and the environment (i.e., value of preserving ecosystems for potential future users).
- Non-Use Values**
Existence, altruistic, bequest (e.g., cultural, aesthetic or heritage value, value of knowing something is preserved for future generations).

Data Analysis

Data on a wide range of water values will be analyzed.

A spatial economic model will be applied to estimate monetary values:

- Current values
- Changes with the project and climate change

The analysis will be supplemented with other information on values provided by Indigenous groups, stakeholders, and the public.

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Study Data Collection and Analysis

Types of Water Values Being Considered

| Environmental Values | Economic Values | Social and Cultural Values |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Water storage and moderation of flow • Groundwater recharge • Flood and storm protection • Water quality and treatment • Local climate regulation • Erosion control and protection of shoreline • Support for biodiversity (habitat and species) | <ul style="list-style-type: none"> • Power generation (thermal and hydroelectric) • Irrigation agriculture • Water for livestock • Industrial use • Municipal/ regional association water supply • Commercial recreation and tourism • Aquaculture • Fisheries | <ul style="list-style-type: none"> • Public recreation • Science and education • Cultural use • Heritage and spiritual values |

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Group Discussion

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Group Discussion





Some Questions for Discussion

- What comes to mind when you think about the value of water?
- What water values are of greatest importance to you?
- What concerns do you have regarding potential impacts on water?




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The Water Valuation Survey


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The Water Valuation Survey



Why are we doing this survey?

- The primary goal of the Water Valuation Study is to document the environmental, economic, and socio-cultural values of water within the potential siting areas
- The survey is one source of information that will be used as input to model and describe water values
- This survey will help SaskPower understand the types of values that you place on water and what you view as important when it comes to the lakes and rivers



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The Water Valuation Survey

We ask that you take the time now to complete the survey.



Access the survey here:
saskpower.com/engage

Please share the information we discussed with your organization and community and encourage others to complete the survey.

Thank you!




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QUESTIONS


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Break Number Two – Lunch 30 min



Powering our future



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Regional Visioning Workshop





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Active Listening



Sharing and Listening

In this activity we will reprise our roles as 'Sharers' and 'Listeners' to discuss your first job.



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Current Regional Identity



Work together to respond to the following:

- What is this region known for?
- How are natural resources used in this region?
- Who lives and works in this region? Who visits this region?
- Who represents this region?
- What in the region is of environmental and/or cultural importance?
- Have we missed any important aspects in our description of the municipal setting or economy of the study area?





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Future Regional Identity

Formulate our Vision Statement

What does the future of this region look like in 2050?



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Vision Statement Examples

New York State Department of Health



New Yorkers will be the healthiest people in the world - living in communities that promote health, protected from health threats, and having access to quality, evidence-based, cost-effective health services.



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Vision Statement Examples

Vancouver Island University




Through the promotion of excellence in learning, we inspire our students and the people of Vancouver Island and coastal British Columbia as a trusted educational partner in the search for sustainable cultural, economic, environmental and social prosperity.




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Vision Statement Examples




SaskPower
Powering Saskatchewan to a cleaner energy future through innovation, performance and service.




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Vision Statement Examples



Saskatchewan Roughrider Foundation
We are champions and leaders of positive change in our communities.



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Formulating Our Vision Statement

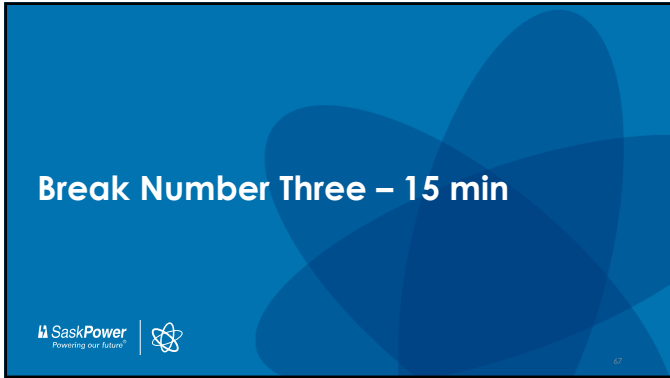


Remember:

- Concentrate on the goals, outcomes, dreams for the region
- Be specific and bold
- Stick to essentials
- Be concise, simple, memorable and inspirational



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Preliminary Interests

As a table, rank topics in order of priority:

- Nuclear Waste
- Human Health
- Accidents/Malfunctons
- Economic Impacts and Benefits
- Engagement
- Technology
- Environmental Impacts
- Cultural Heritage Considerations
- Social Considerations
- Other – Please Identify




Go to www.menli.com
and use the code:
5398 2582





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Additional Questions




- Who else do you want to hear from in this Regional Evaluation Process?
- Do you feel the boundaries of the Proposed Study Area need to be adjusted? If so, how?

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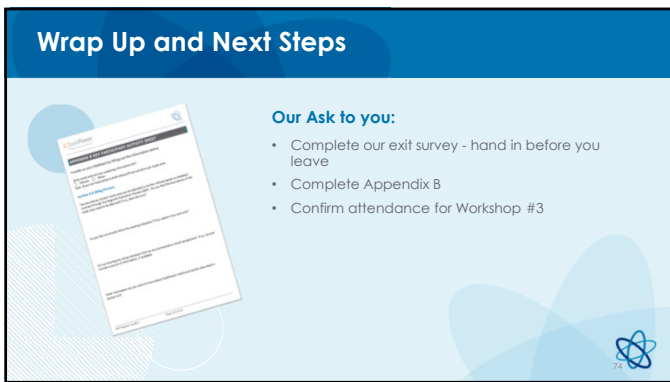
QUESTIONS



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