

SaskPower Linear Developments: Environmental Screening and Mitigation

2017 Native Prairie Restoration & Reclamation
Workshop

Regina, Saskatchewan
February 9, 2017



OUR KEY CHALLENGES

- Growing demand for power
- Aging system requires significant investment
- Emissions regulations eliminate one of our primary **baseload** power sources: coal without carbon capture
- Adding more renewable (but **intermittent**) generation sources

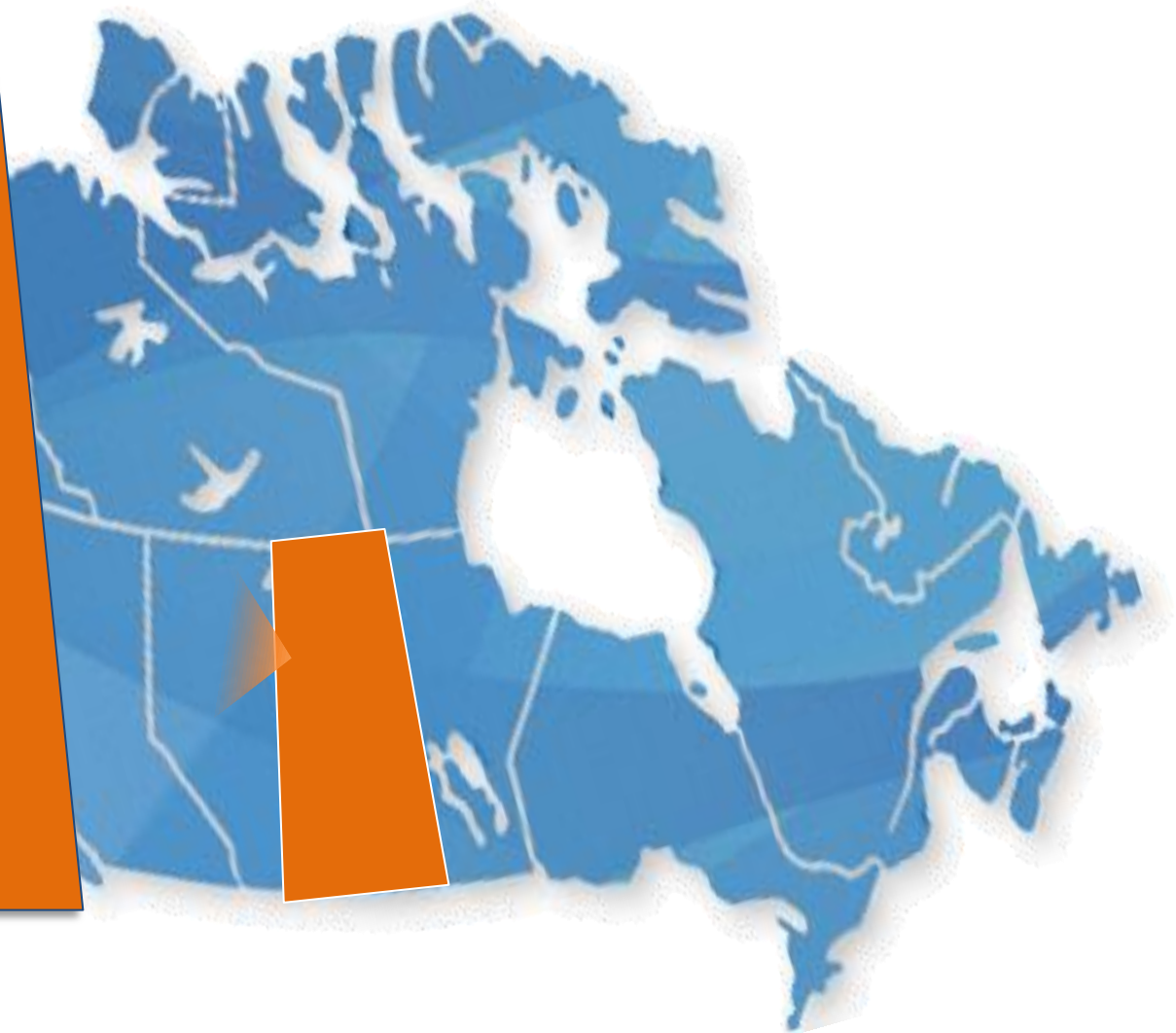
SASKATCHEWAN'S PRIMARY ELECTRICITY SUPPLIER

**520,00
CUSTOMERS
(9,800 new
in 2015-16)**

**4,400 MW
CAPACITY**

**3,747 MW
NEW PEAK
LOAD (2017)**

**157,000 KM
OF POWER
LINES**



ENVIRONMENTAL SCREENING

- Planners and designers use tools to ‘screen’ projects for potential risk.
- Low risk projects are allowed to proceed through the planning process.
- Projects with potential risks are reviewed by environmental personnel.
- Environmental personnel determine legislative requirements and/or mitigations required.

RISK-BASED APPROACH

- In 2016, approximately 4300 projects were screened.
- The system determined that approximately 2300 required more detailed review
- SaskPower has to meet regulatory requirements, balance environmental, financial and social expectations while providing reliable service to the people of Saskatchewan.
- Efficient tools and processes are essential in order to meet both responsibilities.

ENVIRONMENTAL SCREENING: PAST



ENVIRONMENTAL SCREENING: PAST

Rare Species List

Print Report **Continue Screening**

Rare Species have been sighted in the land locations below. If your project crosses any of these, a field check may be needed. Please send DEANNE NEWKIRK or STAN SAYLOR the following information by mail to Environmental Programs, 6SE, SaskPower 2025 Victoria Avenue, Regina, Sk., S4P 0S1 or fax at 566-3428:

Map of project plans, Project Name, Project File Number, Land Location(s) of Project, Purpose of Project, General Description Including Length of Line, Date You Would Like Reply.

Quarter	Section	Township	Range	Meridian
NE	9	021	021	3
SE	30	021	021	3
NE	36	021	021	3
SE	36	021	021	3
Se *	0			

Record: 1 of 4

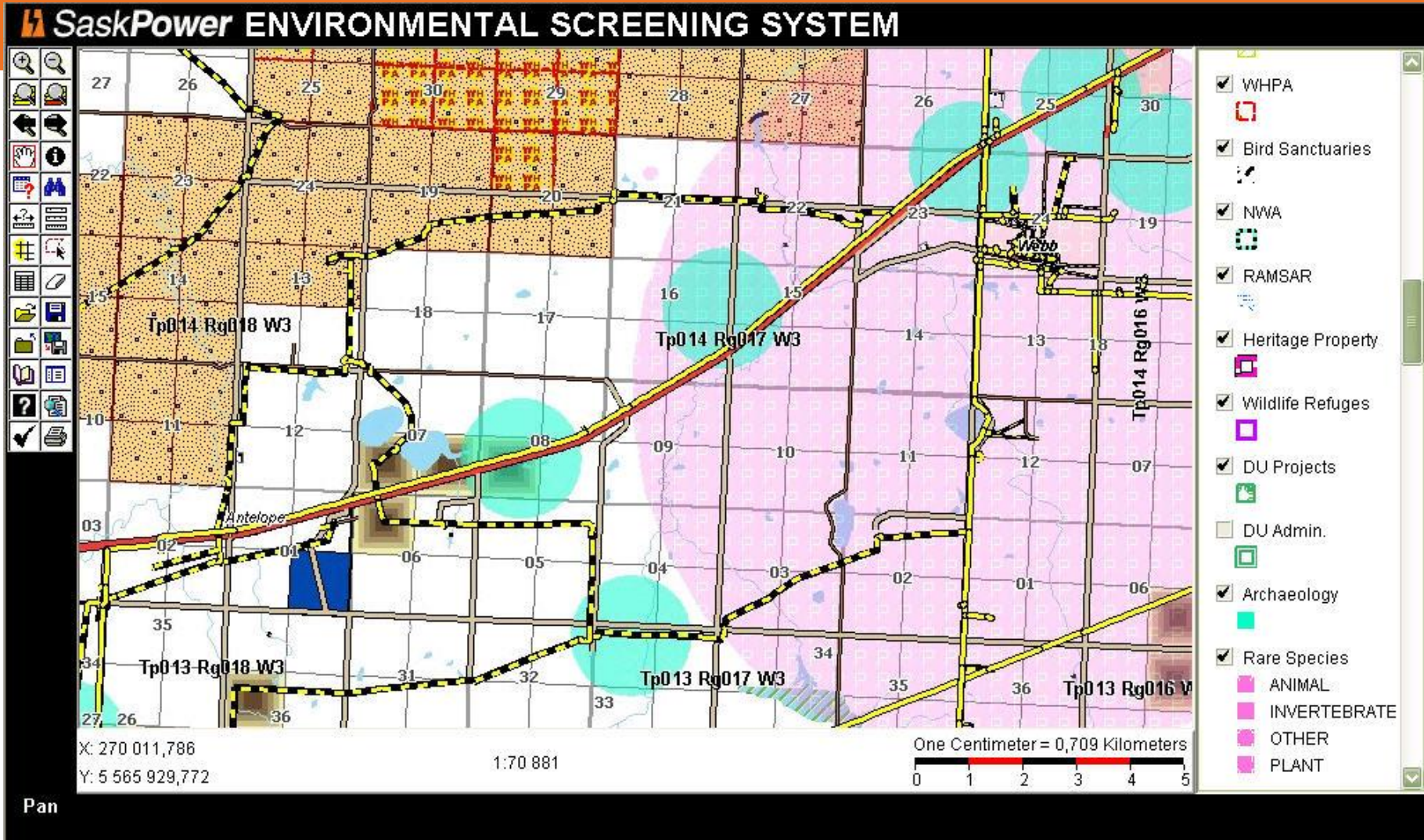
Exit Program

The yellow township is the following project location: TOWNSHIP: 021 RANGE: 021 MERIDIAN: 2

SaskPower
future®

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ENVIRONMENTAL SCREENING: PAST



ENVIRONMENTAL SCREENING: CURRENT

- Continue to use a GIS platform
 - Project planners/designers are able to import their design drawing.
 - The system screens their design against the environmental data.
 - Forms were integrated into a workflow which streamlines the process while maintaining environmental protection and risk mitigation.
 - Records retained by the system.
- Improvements removed opportunities for human error.

ENVIRONMENTAL SCREENING: FUTURE

SaskPower continually reviews its processes and tools.

Future tools may include:

- Direct connection to SaskPower's design tools;
- Mobility applications to make environmental data available in the field;
- 'Live' connection to source data to ensure most current data is available.

ENVIRONMENTAL MITIGATION

Implementation of mitigation measures (pre 2015):

- Inconsistent
- Project by project
- Driven by permits

In 2015, Environmental Best Management Practices (BMPs):

- Standardized mitigation measures – even on low risk projects
- Training provided to all employees and contractors involved in the development of linear infrastructure (i.e. powerlines)
- Improved consistency
- Improved environmental results

ENVIRONMENTAL MITIGATION

Currently, SaskPower has ten BMPs developed

- Surface Water
- Wildlife and Habitat
- Birds
- Native Grassland, Agricultural Land, and Sandhill Environments
- Soil
- Heritage Resources
- Tree and Shrub Clearing, Salvage and Disposal
- Weeds
- Disposal and Storage of Nonhazardous and Hazardous Waste
- Spills and Releases

Questions & Discussion

