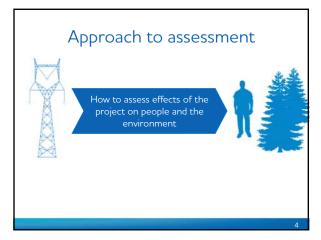


Regulatory

- The Environment Act, Manitoba
- Guidelines and requirements set out in the National Energy Board Filing Manual
- Canadian Environmental Assessment Act, 2012



Approach to assessment

- Learn from past projects and assessments
- Broad, adaptive engagement
- Aboriginal Traditional Knowledge
- Assessed effects to valued components
 - Clear pathways of effect
 - Defined thresholds and criteria
 - Iterative scoping, assessing and monitoring
 - Recognize linkages
- Considerate of the principles of sustainable development

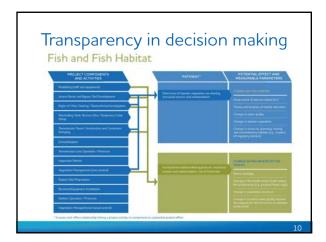
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Lessons from past projects and experiences | Figure | Fi



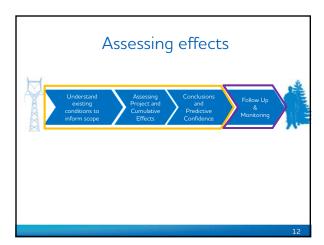






Aboriginal Traditional Knowledge studies

- Contributed to a greater understanding of the study area
- Contributed to project design
- Helped to identify project effects
- Helped in the development of relevant mitigation and monitoring plans



Assessing effects



- Understanding the existing environment
- Listening to concerns
- Valued Component selection
- Boundaries
- Thresholds

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Scoping

Understanding existing environment:

- Desktop review
- Considerate of past effects (trends in health, drivers of change)
- Key Person Interviews
- Engagement outcomes
- Field surveys

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Scoping

Valued Com



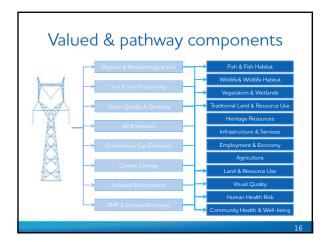


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• have been identified as important

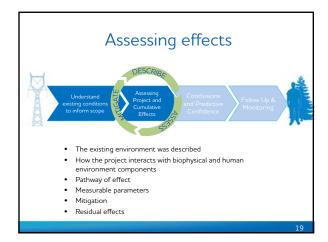


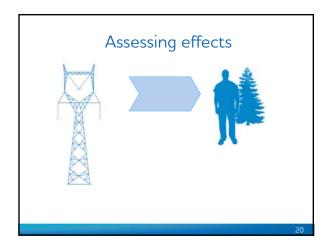
Boundaries

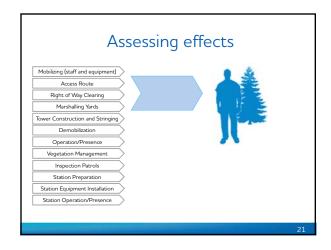
- Spatial Boundaries
 - Project development area (PDA)
 - Local assessment area (LAA)
 - Regional assessment area (RAA)
- Temporal boundaries
 - Valued component-specific

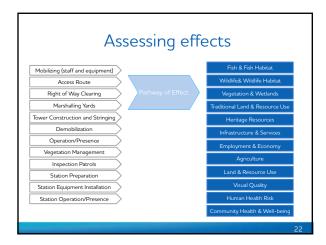
17

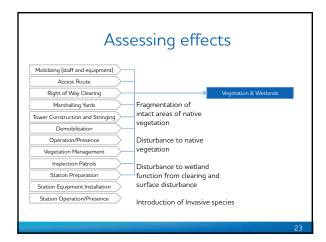
Thresholds and significance

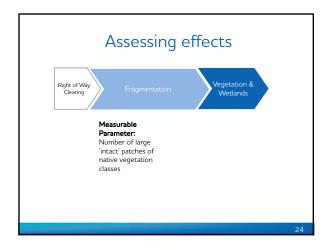












Mitigation



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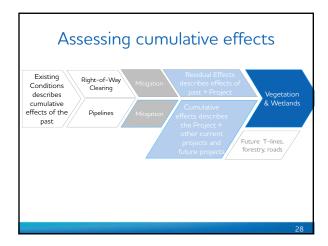
Assessing effects

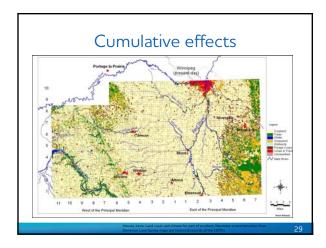
Right of Way Clearing Mitigation Routing Residual Vegetation & Traditional Land & Resource Use

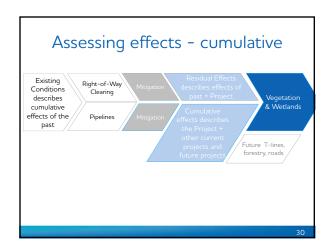
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Criteria to describe residual effects

- Direction
- Magnitude
- Geographical extent
- Frequency
- Duration
- Reversibility
- Ecological or socio-economic context

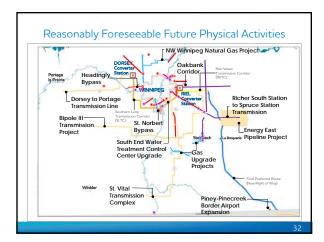


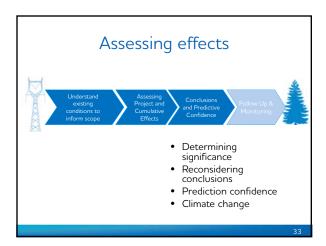




Past, present and future projects

- Agriculture
- Residential developments
- Roads, airports and the Floodway
- Recreational activities
- Domestic and commercial resource use activities
- Pipelines
- Transmission lines





Determining significance

- Criteria
- Thresholds
- Professional judgment
- Other worldviews

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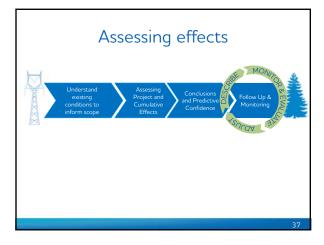
Reconsideration of conclusions

- Sagkeeng First Nation
- Dakota Plains Wahpeton First Nation
- Dakota Tipi First Nation
- Manitoba Metis Federation

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Prediction confidence

- Predictions
 - Confidence
 - To future climate change scenarios, using global climate model projections
 - Mean monthly temperatures
 - Wind speed
 - Precipitation
 - Other potential accidents or events are assessed in Effects of the Environment on the Project



Follow up & monitoring

- Construction Environmental Protection Plan
 - How to implement mitigation measures
 - Describes monitoring initiatives, the Environmental Monitoring Plan
 - Adaptive

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Sustainability

- Manitoba Hydro's Sustainable Development Policy and Principles
- Consistency of the project with
 - Principles and Guidelines of Sustainable
 Development of Manitoba's The Sustainable
 Development Act, C.C.S.M. c. S270;
 - Sustainable Development Act (Canada, 2008)
 - Federal Sustainable Development Themes set out in the 2013 Federal Sustainable Development Strategy (FSDS) (Environment Canada 2013).

