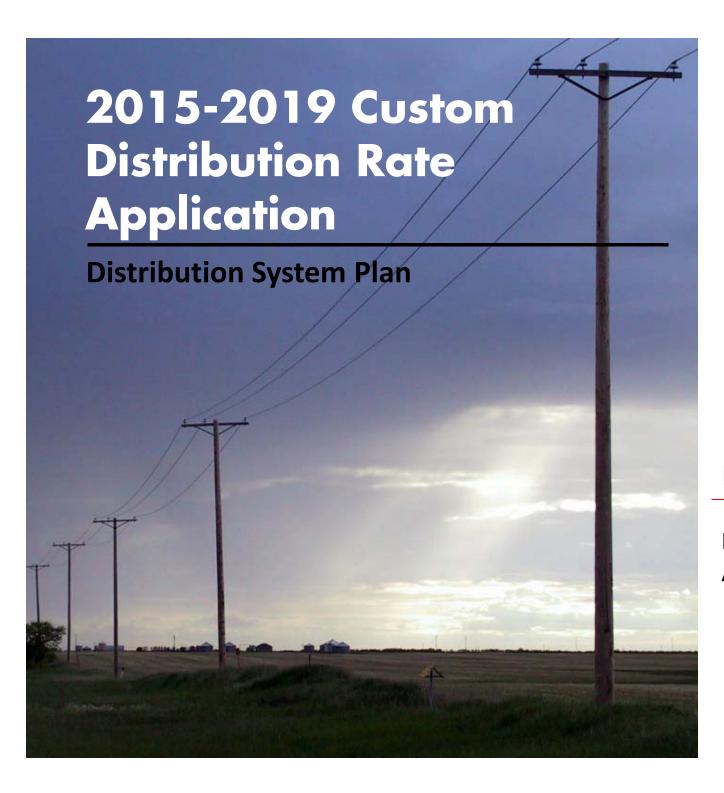
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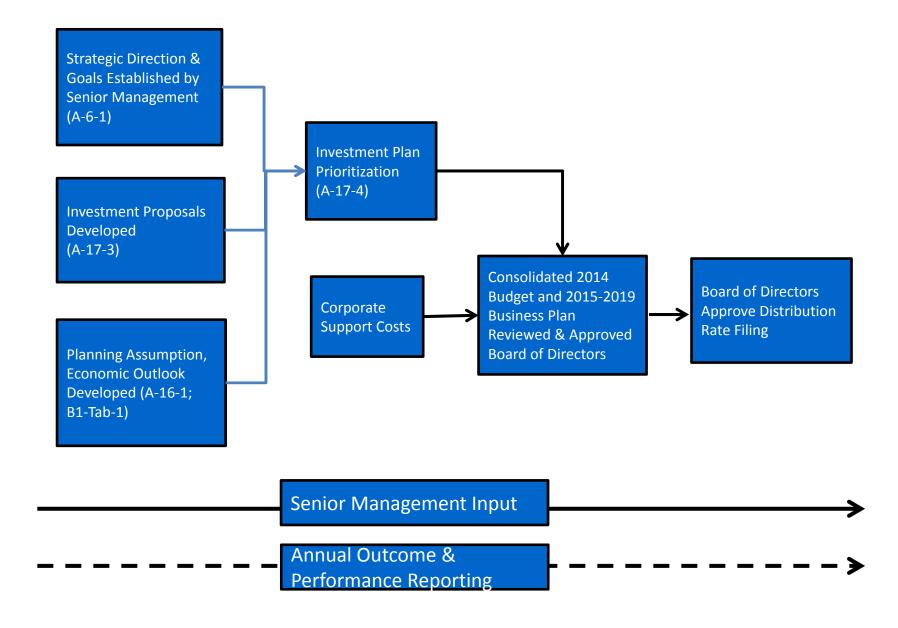


Paul Brown

Director, Distribution Asset Management



The Planning Process (A-17-1)



Developing Investment Proposals(A-17-3)

- Determine customer needs through customer satisfaction and transactional research (A-5-1)
- Collect and analyze system data during routine maintenance and inspections and technical assessments
- Assess needs with a view to mitigating risk associated with failure while maintaining performance and satisfying customer expectations
- Identify investment alternatives with emphasis on identifying best value alternatives and bundling opportunities

Selection/Prioritization/Pacing (A-17-4)

Selecting Investments through Asset Risk Assessment

- Address customer, system growth and renewable generation needs
- Renew end-of-life assets to ensure safety and service continuity
- Maintain Q4 reliability/ improve efficiency
- Modernize distribution system to add customer value
- Effectively respond to unplanned system events

Pacing/Prioritization/Optimization of Investments

- Asset Investment Planning Tool include parameters set by Hydro One planners on a case-by-case basis
- Managerial consideration of customer needs and program/project risk



Asset Risk Assessment

(A-17-4)

- Asset Analytics is a tool used by planners in the Asset Risk Assessment process
- Asset data at a glance by feeder/station/class of assets
- Aligning asset groupings to fit Regional Planning Process
- Streamlines the identification of higher risk assets
- Assists in determining the most cost effective remedial action a high risk asset requires

Asset Analytics Risk Factors



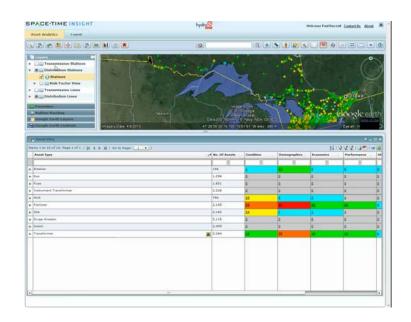
6 risk factors are colour coded on a red to blue scale to give a visual representation of asset risk. Risk factors for a given asset are calculated relative to assets of the same type.



- 1. Condition Risk reflects probability of failure due to the degradation of condition over time.
- **2. Demographic Risk** reflects the probability of failure based on a particular make, manufacturer, and/or vintage of an asset.
- **3. Economics Risk** reflects the economic evaluation of the ongoing costs to operate an asset.
- 4. Performance Risk reflects the historical performance of an asset.
- 5. Utilization Risk reflects the deterioration rate of assets that are highly utilized.
- **6. Criticality Risk** represents the impact that an asset's failure has on the distribution system, specifically, the number, type and size of impacted customers.



Asset Analytics Demonstration



Play video