

DRAFT Benefits Analysis: Line to Pickle Lake

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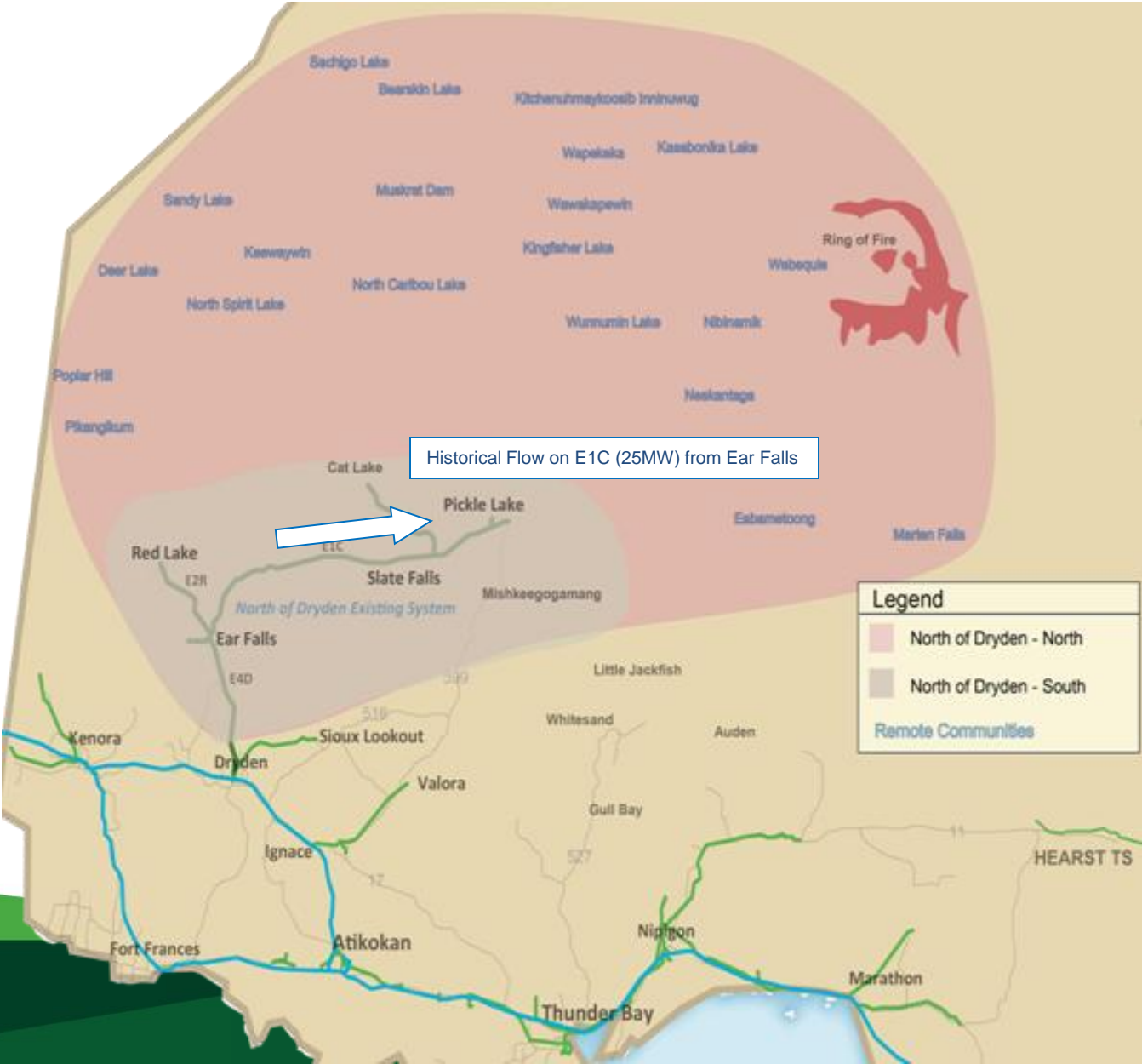
Outline

- Background
- Existing North of Dryden System
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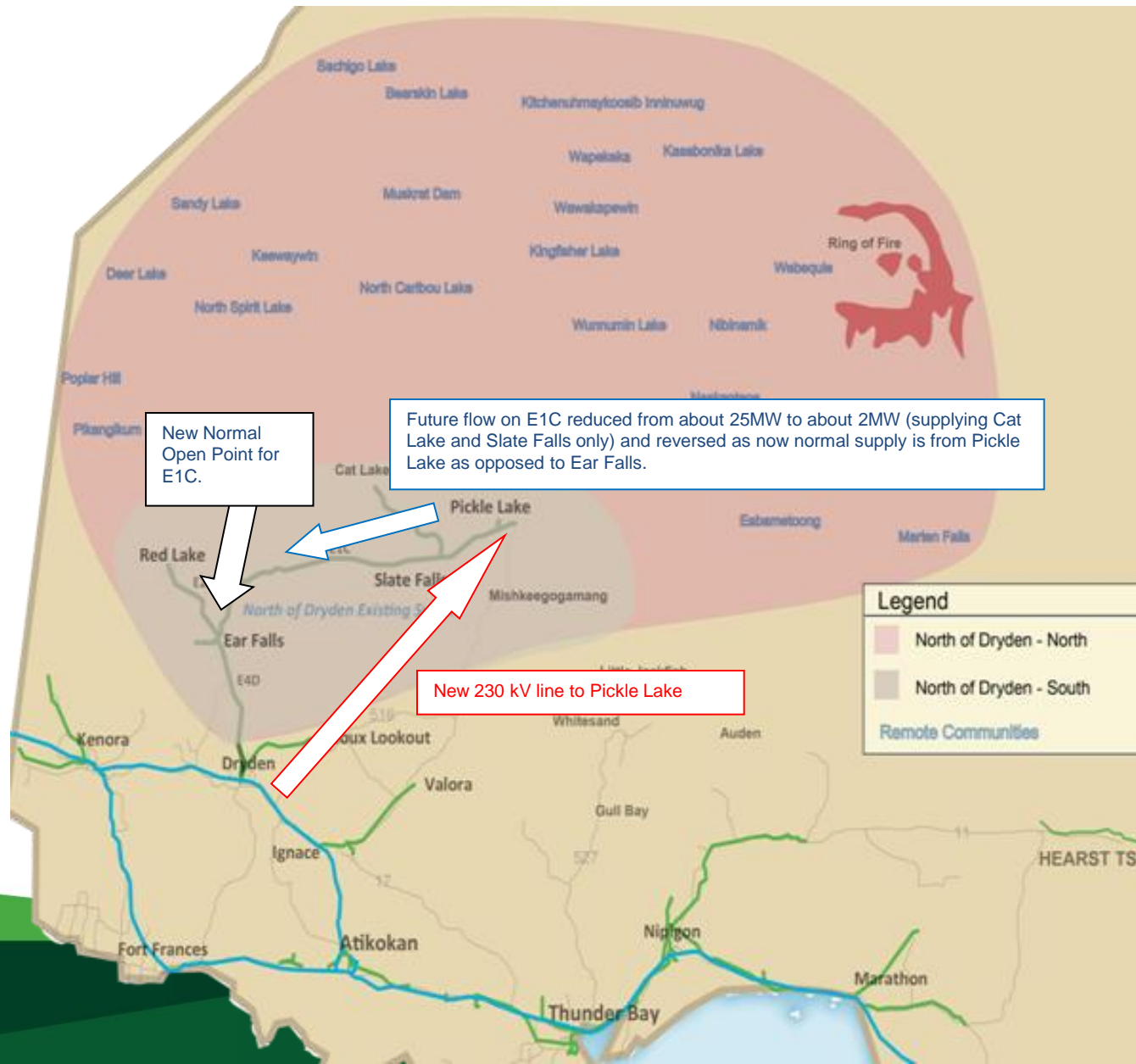
Background

- The 2010 and 2013 LTEPs identified the connection of remote First Nation communities as a priority for the province
- The IESO produced the Remote Community Connection Plan and the North of Dryden IRRP
- Wataynikaneyap Power has been identified by the Government of Ontario as the designated proponent to connect remote communities.
- In order to reinforce the existing North of Dryden system, and to accommodate remote community connections, a new 230 kV line to Pickle Lake “The Project” is required

Existing North of Dryden System



The Project – Line to Pickle Lake



DRAFT - Benefits Analysis

BENEFICIARIES	BENEFITS						<u>Improved Efficiency and Other Benefits</u>
	<u>Capacity¹</u> <u>[% of incremental capacity added by Project, 2027 Forecast]</u>		<u>Reliability²</u>				
	Remotes Only	Remotes + IRRP Forecast Industrial Growth		<u>Frequency</u> <u>[occ/yr]</u>	<u>Duration</u> <u>[hrs/occ]</u>	<u>Expected Energy Not Served</u> <u>[MWh/yr]</u>	
Existing Pickle Lake Industrial Customers	0	14	Existing	9	9.8	1625	Supply Security and Restoration, Maintainability
			W/ Project	2	0.5	19	
			Δ [%]	-78%	-95%	-99%	
Existing Pickle Lake LDC Customers	0	0	Existing	9	9.8	235	
			W/ Project	4	6.1	61	
			Δ [%]	-58%	-38%	-74%	
Existing Red Lake Industrial Customers	0	2	Existing	6	5.6	1520	Supply Security and Restoration, Maintainability
			W/ Project	6	3.3	828	
			Δ [%]	0%	-42%	-46%	
Existing Red Lake LDC Customers	0	0	Existing	6	5.6	220	
			W/ Project	6	3.3	121	
			Δ [%]	0%	-42%	-45%	
Remote Communities	100	47	N/A			Supply Security and Restoration, Maintainability	
IRRP Forecast New Industrial Pickle Lake	0	24	N/A			Supply Security and Restoration, Maintainability	
IRRP Forecast New Industrial Red Lake	0	13	N/A			Supply Security and Restoration, Maintainability	
RATEPAYERS	0	0	N/A			Expected Lower O&M Costs Reduced Losses Improved Efficiency of Local Generation	