

ELECTRICAL SUPPLY NEEDS @MINES/MAJOR EXPLORATION PROJECTS IN N.W.O. 2025

North of Nipigon

Company (Deposit)	Ore	Map #	ETF Study Start Year	Transmission Connections	Mine Life from 2024	Mill Size	Capital Cost	Cost Production/ Production	Powerline Transmission Required	Current MW Load	Power Required at Start (MW)	Year	Future Power Required (MW)	Total Power Required (Notes)
Greenstone Gold (Equinox Gold)--Greenstone Mine (5.5 M oz gold) (Geraldton)	Gold	Operating	2024	A4L	14	27,000 t/Day		400,000 oz gold/yr	10 KM (approx.)	45				
WYLOO -Eagles Nest (11 Mt @ 2.5% Cu-Ni) (Ring of Fire)	Copper-Nickle	10	2028	A4L	20	2700t/day	\$609M	\$97/t--1 million tons/year	future TL on NRL?		40		40	80
Equinox Gold-Brookbank Deposit- (517,000 oz gold-ug) (NE of Beardmore)	Gold	6	2028	A4L							10		10	20
Landore Res.-(BAM Gold Deposit) (1.5 M oz.@ 1.02 g/t gold) (N. Lk Nipigon)	Gold	18	2028	A4L	6.25	2200 t/day	\$93.81M	\$816/oz	75 km		15		15	30
Laurion Resources-Ishkoday Project (144K t stockpile @ 1.59 g/t gold) (NE of Beardmore)	Gold	35	2030	A4L							10		10	20
WYLOO-Blackbird and Black Thor (200 M t Chromite) (Ring of Fire)	Chromite	4	2030	A4L	30 to 100						30		30	60

Rock Tech Lithium-Georgia
Lake (6.57 Mt @1.02%
Li2O-5 zones) (S of
Beardmore)

Lithium

11

2026

A4L

11

1500 t/day
recover 1.1
Mt @6.2%
Li2O

\$65.3M

\$397/t

20 KM 44 KV Line

10.5

2026

40

50.5

Green Technology Metals-Seymour and Root Deposits (25 Mt@ 1.04 % Li2O) (Lk Nip and S Lookout	Lithium	27	2026	A4L 115kv 100MW Capacity	16	4500t/day	\$203M-mine/mill \$754M convertor		110 km to Beardmore		5	2029/2030	30	35
Total North of Nipigon								768.1 M			120.5		175	295.5

North Shore

			ETF Study Start Year	Tranmission Connections	Mine Life from 2024	Mill Size	Capital Cost	Cost Production/ Production	Powerline Transmission Required	Current MW Load	Power Required at Start (MW)	Year	Future Power Required (MW)	Total Power Required (Notes)
Barrick Gold-Hemlo--Williams Mine (5.5M oz gold) (Marathon area)	Gold	Operating	2024	57M1 or 56M1	10+			\$1700/oz AISC/ 160,000 oz/yr		35				
Generation Mining - Marathon Project (5.6 M Oz.Palladium+Platinum ; 1.1 billion lbs copper) (N of	Palladium, Platinum	20	2025	57M1 or 56M1	13	14,000 t/Day	\$665M	\$ 809 /oz AISC	4 KM 115 KV Line		4	2026	54	58
Metallum-Winston Lk Mine(2.2Mt@13.7% Zn)(N of Schreiber)	Zinc	34	2028	57M1 or 56M1	9	1000t/day		\$0.51/lb	existing trans lineline maintenace required-substation on site		10			
Vault Minerals(formerly Silver Lake)-Sugar Zone Mine (1.64 M oz gold)(N of White River)	Gold	Operating	2024--(temp closure)re start 2025	M2W	11	800 t/day	\$118.7M	\$708/oz -80,700 oz gold/yr		0		2026	3	8.5
Total North Shore								783.7M			14		57	71

Hearst

Company (Deposit)			ETF Study Start Year	Tranmission Connections	Mine Life from 2024	Mill Size	Capital Cost	Cost Production/ Production	Powerline Transmission Required	Current MW Load	Power Required at Start (MW)	Year of Expansion	Future Power Required (MW)	Total Power Required (Notes)
Zentek--Albany- 1.5 m/t C measured and infered @4% Carbon(N Hearst)	Carbon	1	2030	From East			\$411M		30 km		9			9

PICKLE LAKE

Company (Deposit)			ETF Study Start Year	Tranmission Connections	Mine Life from 2024	Mill Size	Capital Cost	Cost Production/ Production	Powerline Transmission Required	Current MW Load	Power Required at Start (MW)	Year of Expansion	Future Power Required (MW)	Total Power Required (Notes)
Metals Creek-Dona Lk Mine (south of Pickle) now NewmontLake	platinum and palladium	9	2027								12			12
FireFly Metals-Pickle Crow (2.2 M oz gold @ 7.8g/t)(Pickle Lake)	Gold	24	2028			225 t/day mill, then expand later		?----->100,000 oz/yr	20 KM Line upgrade		15			15
Canadian Critical Minerals Orecap Investments---Thierry Mine-(1.8 B lb Cu; 340M lbs Ni)	Copper	30	2030								60			60
Rockex Mining Corp. Lk St Joseph- (1 Billion t @ 25-30% Fe)(N. of S Lookout)	Iron	33	2032		30	6 M t of conc/yr	\$1.56B	\$865/oz Au and 61000 oz/year	230 KV Line 20 KM		180			180

Orla Mining-Musselwhite Mine (6 M oz gold) (N Caribou Lk GSB)	Gold	Operating	2024		10+					23.5		2026	5.5	5.5
Ardidan Limited _ Pickle Lake Gold	Gold	36												
TOTAL PICKLE LAKE											267			272.5

Ear Falls - Red Lake

Company (Deposit)			ETF Study Start Year	Tranmission Connections	Mine Life from 2024	Mill Size	Capital Cost	Cost Production/ Production	Powerline Transmission Required	Current MW Load	Power Required at Start (MW)	Year of Expansion	Future Power Required (MW)	Total Power Required (Notes)
Evolution Mining-Red Lake Mine (12.3 M oz gold) (Red Lake)	Gold	Operating	2024		16			\$2000/oz AISC 120,000 oz/yr	TL in place	33		2026	11	11
Kinross Gold-Great Bear Project-(SE of Red Lake)	Gold	8	2024		10+				20 KM	5		2028	55	60
West Red Lake Gold Mines - Madsen Mine-(Red Lake)	Gold	Operating	2025			800 tonne per day mill on site			44 kv line to be replaced by 138kv line by 2028	12				
Evolution Mining- Bateman (979,000 oz M&I Gold) (Red Lake)	Gold	2	2026		8.2	1250-1800 t/day (expand to 2500/day)	\$109.3M	\$882/oz AIS	20 KM 44 KV Line		10	2027	5	15
Equinox Gold-Hasaga (1.7 M oz gold)) (Red Lake)	Gold	16	2026										12	12
Frontier Lithium-Pakeagama Lake Lithium(58.6 Mt @ 1.54% LiO2 (North of Red Lake)	Lithium	23	2026		24	1500t/day	\$1.15B - mine/mill /refinery	\$397/t	Watay TL 3.5 km from deposit-		20.2	2028	40	60.2
First Mining Gold Corp (3.8 M oz gold) (Springpole Lake)	Gold	28	2028		11.3	30,000 t/day	\$586M	\$645/oz AU AIS- 330,000 oz gold/yr	93 kmTL by 2028		55			55

West+33:41 Red Lake GM-Rowan Prospect- (300,000 oz gold) (Red Lake area)	Gold	22	2028								7			7
TOTAL RED LAKE E2R							1.845.3 B				92.2		123	220.2

Supplied by Dryden TS

Company (Deposit)			ETF Study Start Year	Tranmission Connections	Mine Life from 2024	Mill Size	Capital Cost	Cost Production/ Production	Powerline Transmission Required	Current MW Load	Power Required at Start (MW)	Year of Expansion	Future Power Required (MW)	Total Power Required (Notes)
Nexgold Mining formerly Treasury Metals -Goliath (and Goldlund shared mill) Zone (3.1 M oz	Gold	12 & 13	2028	D26A	13.5	2500 t/day	\$133.2M	\$611/oz-- 87,850 oz gold/yr	200 metres		22.6			22.6
TOTAL FOR DRYDEN TS							243.2 M				22.6		40	62.6
TOTAL NORTH OF DRYDEN											381.8		163	555.3

Thunder Bay

Company (Deposit)			ETF Study Start Year	Tranmission Connections	Mine Life from 2024	Mill Size	Capital Cost	Cost Production/ Production	Powerline Transmission Required	Current MW Load	Power Required at Start (MW)	Year of Expansion	Future Power Required (MW)	Total Power Required (Notes)
Impala Canada-- Lac des Illes Mine (3M oz Pd) (N of Thunder Bay)	Palladium	Operating	2024		3 yr	13,500 t/day mill			Existing LDI owned 69 km long TL-- maxed out and requires upgrading	47				
Clean Air Metals(TBNorth (3.8 + 1.1 Moz PGEs))(N of Thunder Bay)+ Thunder Bay North Deposit	platinum and palladium	31	2029	Multiple options on service from Nipigon Generation	7		\$164 to \$360 M		6 KM		15			15
Green Technology Metals Converter											20			
Kesselrun Resources-Huronian Project (546K oz gold historic res) (W of Thunder Bay)	Gold	17	2028	B6M for 115kv A21L, A22L for 230kv + NEW							10			10
Goldshore Resources -- Moss Lake Gold Project (6.7 Million oz gold)(W. of Thunder Bay)	Gold	21	2033	B6M for 115kv A21L, A22L for 230kv + NEW							50			50
Delta Resources-Delta 1 Project (BandOre) (250K oz gold-historic res) (W of Thunder Bay)	Gold	39	2030	B6M for 115kv A21L, A22L for 230kv							10			10
Company A											60		120	180
Company B											12			12
Company C											24			24

Company D

								40			40
				1.382				241		120	341

WAWA

Company (Deposit)			ETF Study Start Year	Tranmission Connections	Mine Life from 2024	Mill Size	Capital Cost	Cost Production/ Production	Powerline Transmission Required	Current MW Load	Power Required at Start (MW)	Year of Expansion	Future Power Required (MW)	Total Power Required (Notes)
Alamos Gold-Island and Magino Mines-Island Deposit=6.1 M oz)(Wawa Area)	Gold	Operating	2024	From East	10+			\$925/oz AISC/ 160,000 oz for 2024 forecast		26		2026	8	8
Wesdome--Eagle River Mine (1 M oz gold) (Wawa Area)	Gold	Operating	2024	From East	10+	850 t/day		90,000 oz for 2024 (guidance)	Existing 48 km TL Wawa to mill 115kv and 18 km 27.5 kv TL mill to mine	20				
TOTAL WAWA											0			8

WEST OF THUNDER BAY

Company (Deposit)			ETF Study Start Year	Tranmission Connections	Mine Life from 2024	Mill Size	Capital Cost	Cost Production/ Production	Powerline Transmission Required	Current MW Load	Power Required at Start (MW)	Year of Expansion	Future Power Required (MW)	Total Power Required (Notes)
International Lithium-Raleigh Lake--6.1Mt @ .61% LiO North of Atikokan	Lithium	3	2026	M2D for 115kv, D26A for 230kv + New							4.6			4.6
Agnico Eagle-(Hammond Reef) (5.13 M. oz gold) (N of Atikokan)	Gold	15	2028	M2D for 115kv, D26A for 230kv + New	14	50,000 t/day	\$614M	\$382/oz-369,000 oz gold/yr	32 KM 230 KV Line		65			65
New Gold- (Rainy River Mine) (NW of F Frances) Intrepid Zone Underground development	Gold	Operating	2024	F25A for 230 kv	7	21,000 t/day		\$710/oz--Mill-254,000 oz gold/yr	17 KM 230 KV Line in place	42		2025	3	45
TOTAL WEST OF THUNDER BAY							\$614M			42	69.6			114.6

Fort Frances to Kenora

First Mining Gold Corp-Cameron Lake (997,000 oz gold) (SE of Kenora)	Gold	7	2028	K6F for 115kv, K24F for 230 kv	10 +	2750 t/day	\$110 M	\$865/oz Au and 61000 oz/year			15			15
Tartisan Nickel Corp--Kenbridge Project -(74 M lb Ni, 39.1 M lb Cu) (E.of Kenora)	Nickle-Copper	37	2028	K3D for 115, K23D for 230 kv	9	1500t/day					20			20

Avalon Advanced Materials- Separation Rapids(8.4 Mt @ 1.41% Li2O)(N of Kenora)	Lithium	26	2029	Circuits from Caribou and Whitedog to Kenora	20				35 km		15	2029	40	55
														90
Regional Total Load Requiring Supply														1484.4