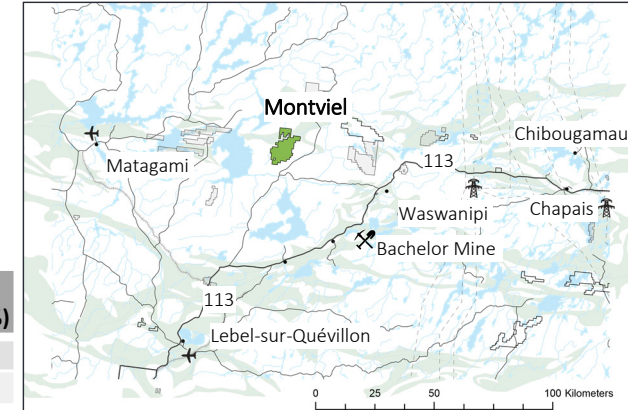




Lanthanides / Niobium project

MONTVIEL REE WORLD CLASS DEPOSIT

- Large resource with favorable distribution towards Nd & Pr
- Niobium represents ~20% of the estimated NSR value
- Proven fluorocarbonate minerals & High recoveries
- Low acid (58 kg/t) & low power (<60 MW) consumption

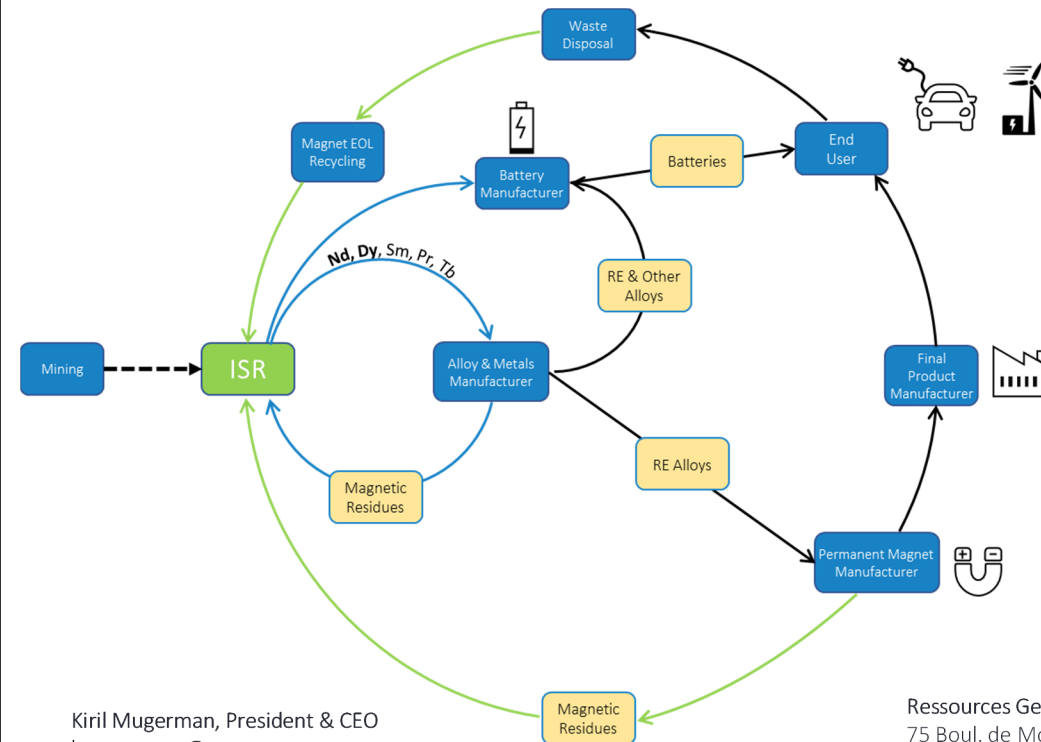


NSR Value (CA\$/tonne)	Category	Million Tonnes	TREO Grade (%)
335	Indicated	82.4	1.51
312	Inferred	184.2	1.43

- ✓ Mineral resources are estimated and reported in compliance with NI 43-101 (June 17, 2015)
- ✓ Based on NSR cut-off value of CA\$180 per tonne

ISR Technology Progress 2014-2018	2014	2016	2017	2018 ⁱ	2019 ⁱⁱ
Separation Technique	FFE	M. Rotofor	ISR	ISR	ISR
Capacity of a Single Separation Reactor, (ml)	30	50	2,500	20,000	200,000
REE Concentration in Separation Reactor, (g/l) ⁱⁱⁱ	0.0035	0.0625 - 30	~130	~100	~100
Approx. Cost of Prototype, (US\$)	150,000	15,000	15,000	20,000	< 100,000
Type of Sample Separated	Synthetic	Synthetic	Industrial Residue	Industrial Residue	Industrial Residue
Major Separated Elements	Multi-Elements	La, Eu, Yb	Nd, Dy	Nd, Dy	Nd, Dy
Purity of Separated REO, (%)	94 to 98	85 to 90	85 to 95	+99	+99.9
Single Run Recovery, (%)	70 to 90	40 to 55	60 to 90	60 to 95	80 to 95
Residence Time in Separation Reactor, (hr) ^{iv}	1/6-1/2	4-6	~12	~8	4-6
Separation Factor (Nd/Dy) ^v	-	-	~10	~30	?

ⁱ Plan for this year ⁱⁱⁱ Volume averaged concentration ^v SX: HCl/HDEHP SF = 42; SX: HCl/EHEHPA SF = 22 (Gupta)
ⁱⁱ Objectives and estimates ^{iv} Single run



CLOSING THE LOOP FOR WESTERN RARE EARTH SUPPLY FOR THE PERMANENT MAGNET INDUSTRY

DERISKING THROUGH PRODUCTION

DEVELOPPING A SUSTAINABLE SEPARATION TECHNOLOGY



Innovation arm of GéoMégA (96.1% owned)

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