



ᓄᓇᑭᓪ ᓄᓂᓂᓴᓗᑭᓪ ᓄᓇᓗᓴᓄᓪ
Nunavut Nukkiksautiit Corporation

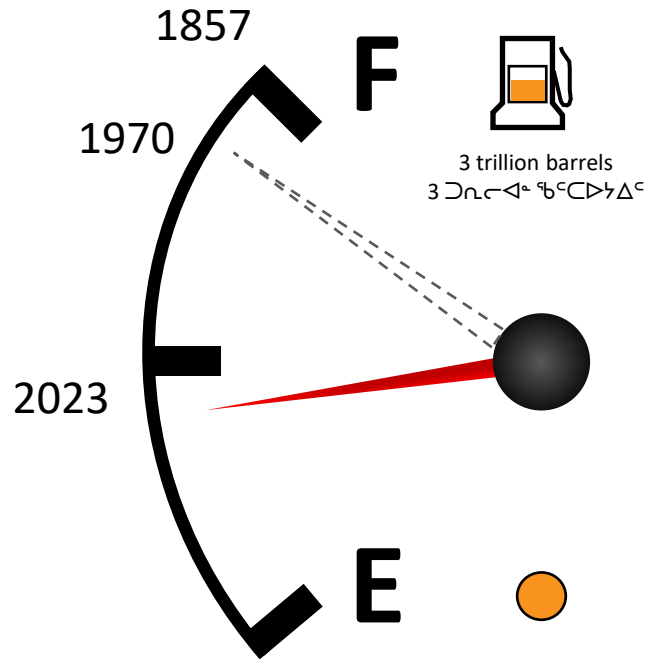
Iqaluit Energy Options

ᓄᓇᓗᓴᓄᓪ ᓄᓂᓴᓗᓴᓄᓪ ᓄᓇᓗᓴᓄᓪ ᓄᓇᓗᓴᓄᓪ ᓄᓇᓗᓴᓄᓪ



Why Now?

የኮሎምቢያ ስጦታ?



World Oil Reserves
ጠቅላይ ግብርና ጥቅም

Diesel dependency is not an "if" problem, it's a "when" problem

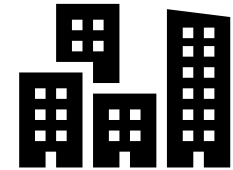
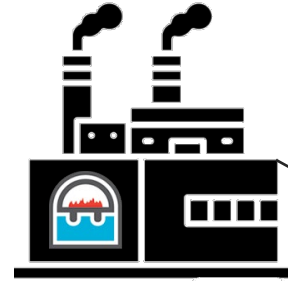
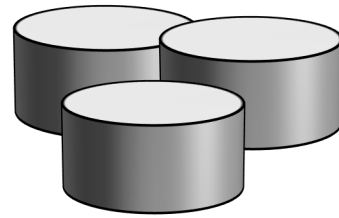
ግብርና ጥቅም ለጥንቃቄ ስጦታ
"ጥንቃቄ", "ጥንቃቄ"
ጥንቃቄ ለጥንቃቄ

ᐱᓐᓇ ᑖᓄᓂᓕᓐᓕᓐᓂᓐ?

What is the Current State?

Global Oil Market

- Oil extraction (1/3rd)
- Oil Refinery (1/3rd)
- Logistics/taxes (1/3rd)
- Unregulated

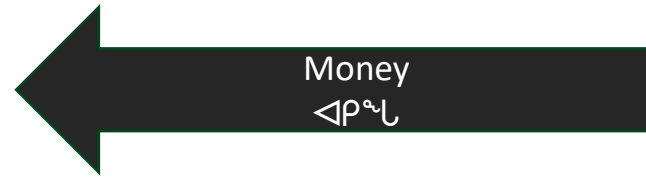


ᓄᓇ ᑖᓄᓂᓐᓂᓐ ᓂᓄᓐᓂᓐᓂᓐ

- ᓂᓄᓐᓂᓐᓂᓐ (1/3)
- ᓂᓄᓐᓂᓐᓂᓐ (1/3)
- ᓂᓄᓐᓂᓐᓂᓐ/ᓂᓄᓐᓂᓐ (1/3)
- ᓂᓄᓐᓂᓐᓂᓐᓂᓐᓂᓐ



Fuel Subsidy
ᓂᓄᓐᓂᓐᓂᓐ ᓂᓄᓐᓂᓐ

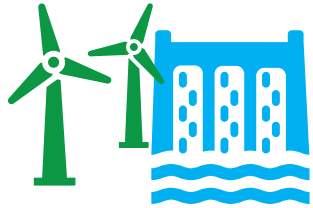


የብድር ስጦታ ማጠናቀቅና ማጠናቀቅ?

What is the Future State?

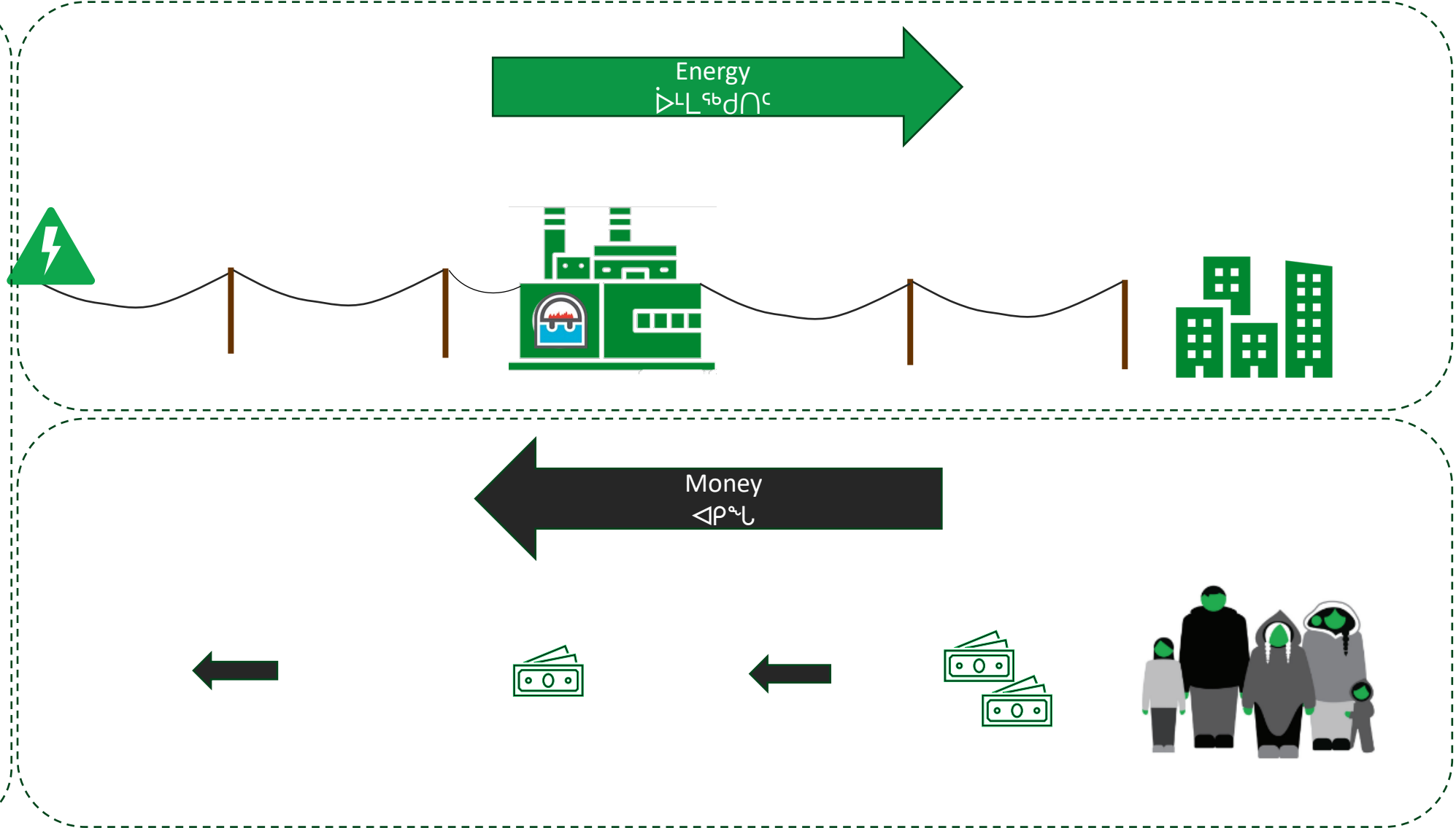
Local Renewables

- Sell power to QEC
- Local facility operations
- No imports required

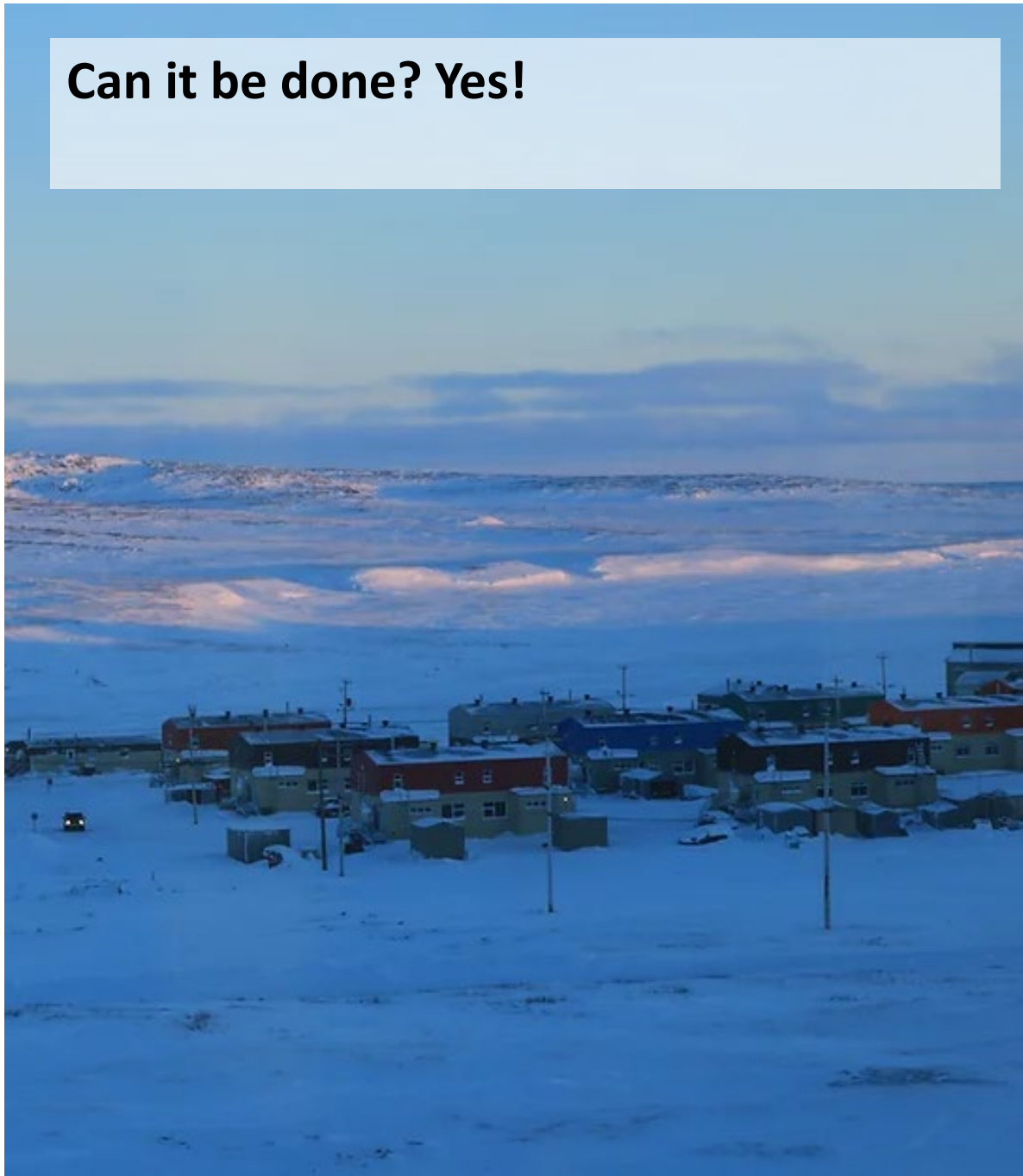


ወጪ ማጠናቀቅ

- ከግብርና ማጠናቀቅ ማጠናቀቅ
- ከግብርና ማጠናቀቅ ማጠናቀቅ ማጠናቀቅ
- ማጠናቀቅ ማጠናቀቅ ማጠናቀቅ
- ማጠናቀቅ ማጠናቀቅ ማጠናቀቅ



Can it be done? Yes!

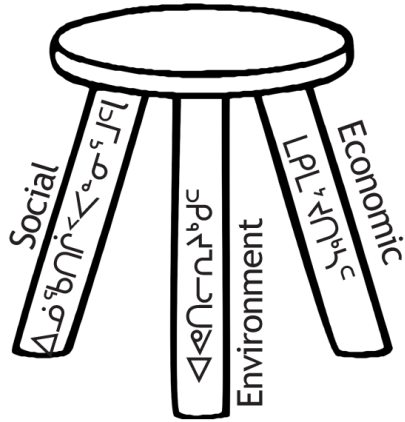


ΛΓΠΔΨϞϟϠϡϢϣϤϥϦϧϨϩϪϫϬϭϮϯϰϱϲϳϴϵ϶ϷϸϹϺϻϼϽϾϿϠϡϢϣϤϥϦϧϨϩϪϫϬϭϮϯϰϱϲϳϴϵ϶ϷϸϹϺϻϼϽϾϿ

ᐱᓄᓂᓯᓂᓐ-ᐱᓯᓄᓂᓯᓂᓐ ᐱᓄᓂᓯᓂᓐ ᐅᓂᓂᓯᓂᓐ

The Three-Legged Stool

35%
 “Hunting & Fishing”
 “Cultural Importance”



30%
 “Char Habitat”
 “Caribou Migration”
 “Species at Risk”

35%
 “Your Electricity Bill”
 “Constructability”



ᓄᓂᓂᓯᓂᓐ ᐱᓄᓂᓯᓂᓐ ᐱᓄᓂᓯᓂᓐ
 Nunavut Nukkiqsautiit Corporation



CODAS Ranking Method
 ᐱᓄᓂᓯᓂᓐ ᐱᓄᓂᓯᓂᓐ ᐱᓄᓂᓯᓂᓐ

ᓂᓂᓂᓯᓂᓐ ᓄᓂᓂᓯᓂᓐ ᐱᓄᓂᓯᓂᓐ ᐱᓄᓂᓯᓂᓐ

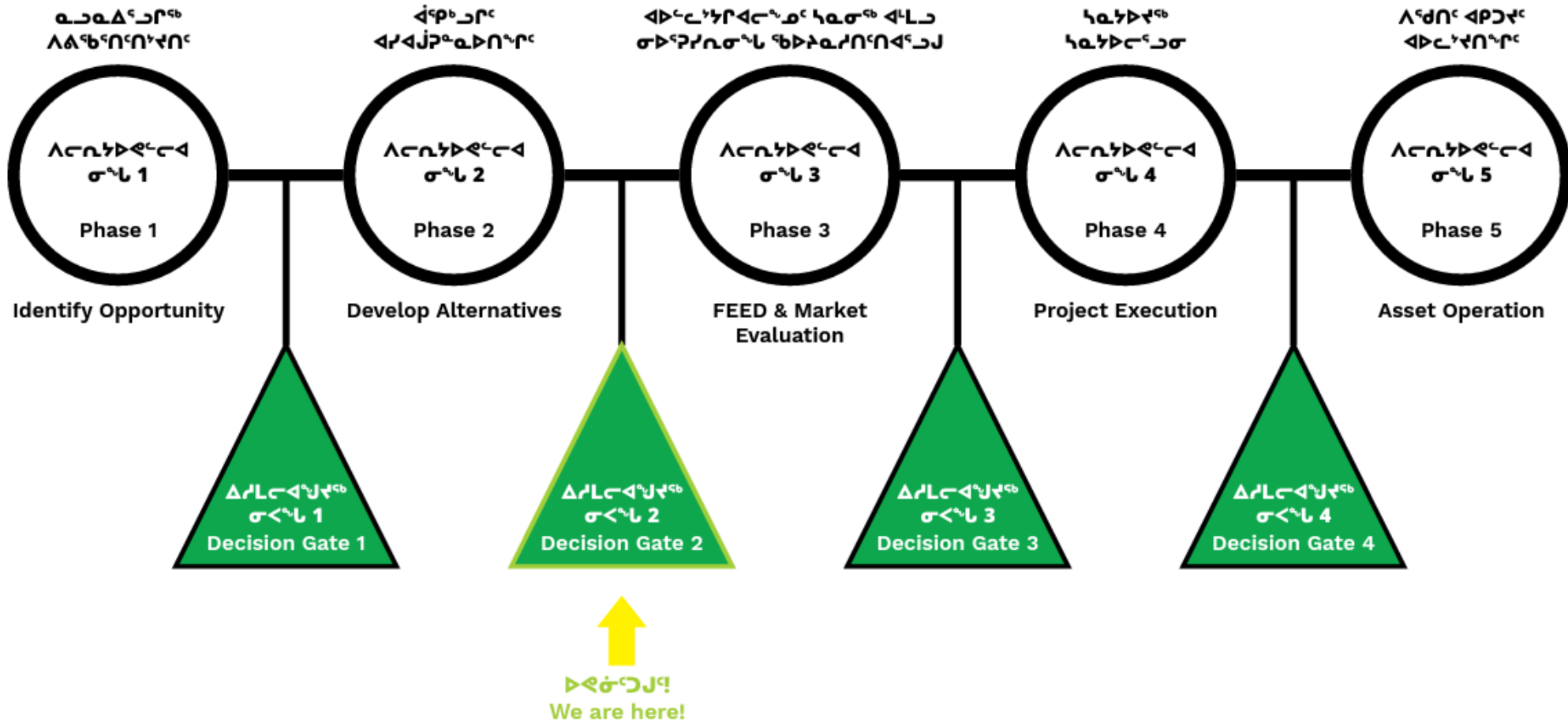
Load	Max Power (MW)	Average Power (MW)	Min Power (MW)	Energy (GWh/yr)	Percent
Electrical	10	8	6	65	25%
Thermal	42	16	2	140	60%
Industrial	6	4	0	30	15%
Coincident Demand	52	28	8	235	100%



CANADIAN
PROJECTS
LIMITED
A TETRA TECH COMPANY



Our Decision Making Approach



ፍጠራዊ ጥናት
Results



"ናገረ ገጠናዎች" ለግብርና ግብርና

"Red Light" Regions

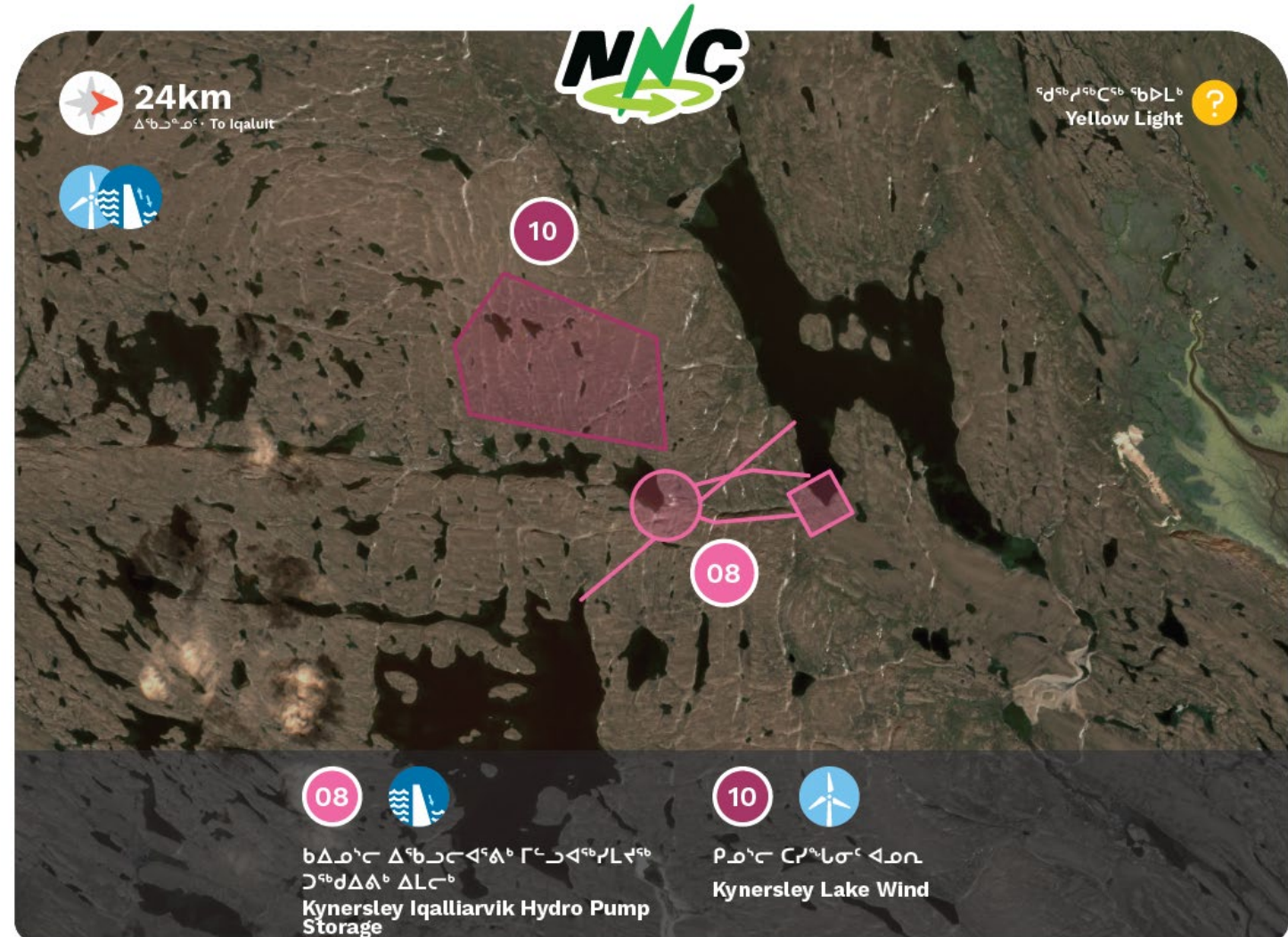
McKeand River North Hydro ጊቦሮ ገጠና ለግብርና ግብርና	
Development Type ለግብርና ግብርና	Conventional Hydro (10-50MW) ግብርና ግብርና ለግብርና ግብርና
Dam Size ገጠና ግብርና	140m
Cost vs. Diesel ግብርና ግብርና	200% ↑
Social Score ግብርና ግብርና	High ግብርና ግብርና
Environment Score ግብርና ግብርና	Very Low ግብርና ግብርና
Technical Score ለግብርና ግብርና	Very Low ግብርና ግብርና
OVERALL SCORE ግብርና ግብርና	2.2/10



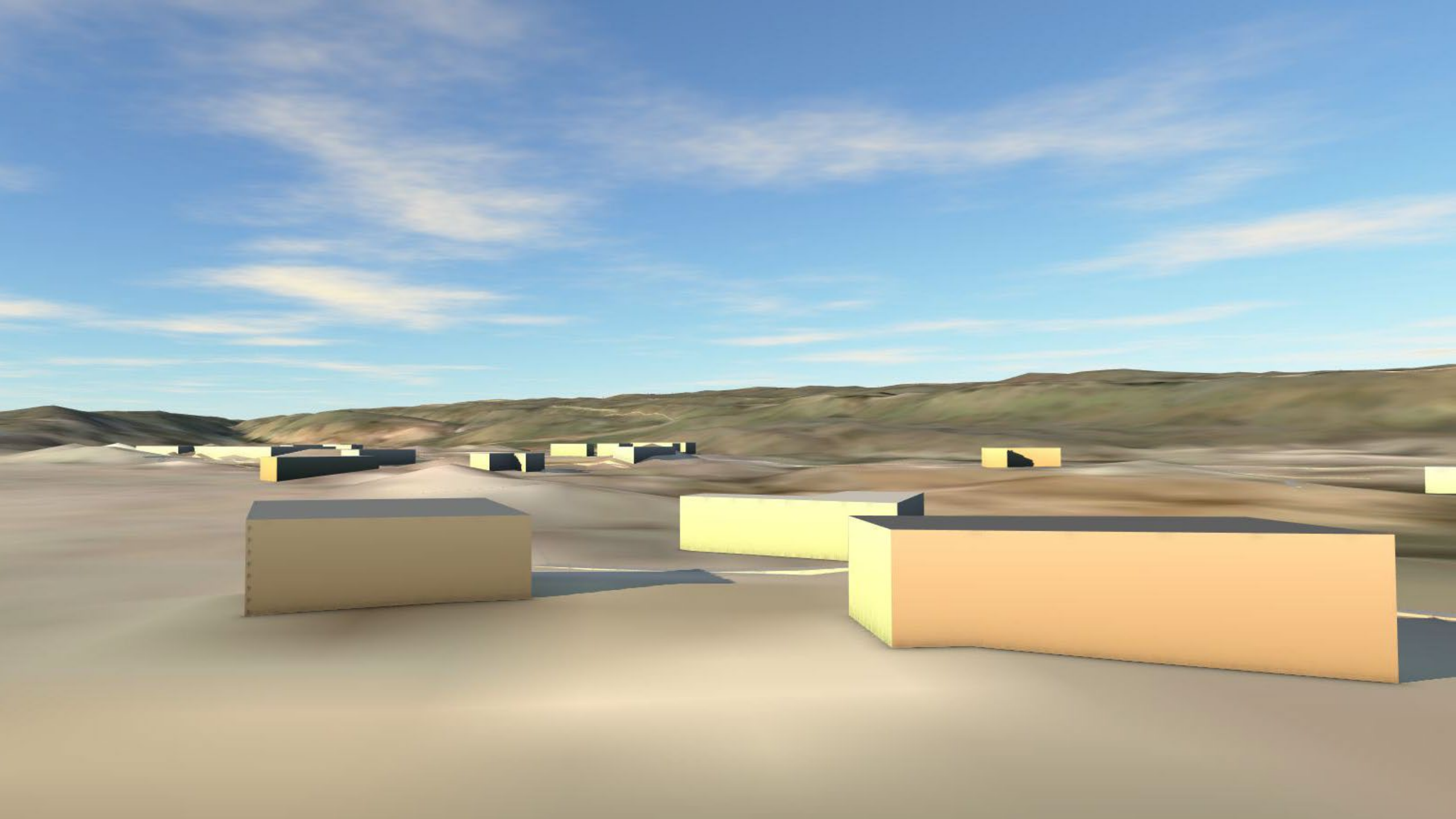
"Yellow Light" Regions

"Yellow Light" Regions

Kynersley Iqalliarvik Hydro Pumped Storage ᐅᐃᓃᓐ ᐃᖃᓗᓕᐃᖅᐃᓐ ᐎᓕᓗᐃᖃᓐᐎᐎᓐ ᓗᖃᓃᐃᐃᓐ ᐃᐎᓕᓐ	
Development Type ᐱᓕᓕᐃᓂᐃᓗᓐ ᖃᓃᐃᓕᓗᓂᓐ	Pumped Storage (20-60MW) ᐎᓕᓗᐃᖃᓐᐎᐎᓐ ᐱᖅᓃᓐᓃᐃᓐ
Dam Size ᐎᐎᓕᓐᓐᓐ ᐃᖅᓃᓐ	0m
Cost vs. Diesel ᐃᓂᓐ ᐃᓐᓐ ᐃᓐᓂᐃᓗᓐ	0-15% ↓
Social Score ᐃᓂᖃᓐᓃᓐ ᖃᖅᓂᖅᓃᓐᓃᓐ	Medium ᐃᓂᓐᓂᖅᓂᐃᓗᓐ
Environment Score ᐃᓂᓃᓗᓐ ᖃᖅᓂᖅᓂᐃᓗᓐ	Medium ᐃᓂᓐᓂᖅᓂᐃᓗᓐ
Technical Score ᐱᓕᓐᓂᖅᓂᐃᓗᓐ ᖃᖅᓂᖅᓂᐃᓗᓐ	Medium ᐃᓂᓐᓂᖅᓂᐃᓗᓐ
OVERALL SCORE ᐎᐎᓂᖅᓂᐃᓗᓐ ᐃᓐᓂᖅᓂᐃᓗᓐ	5/10

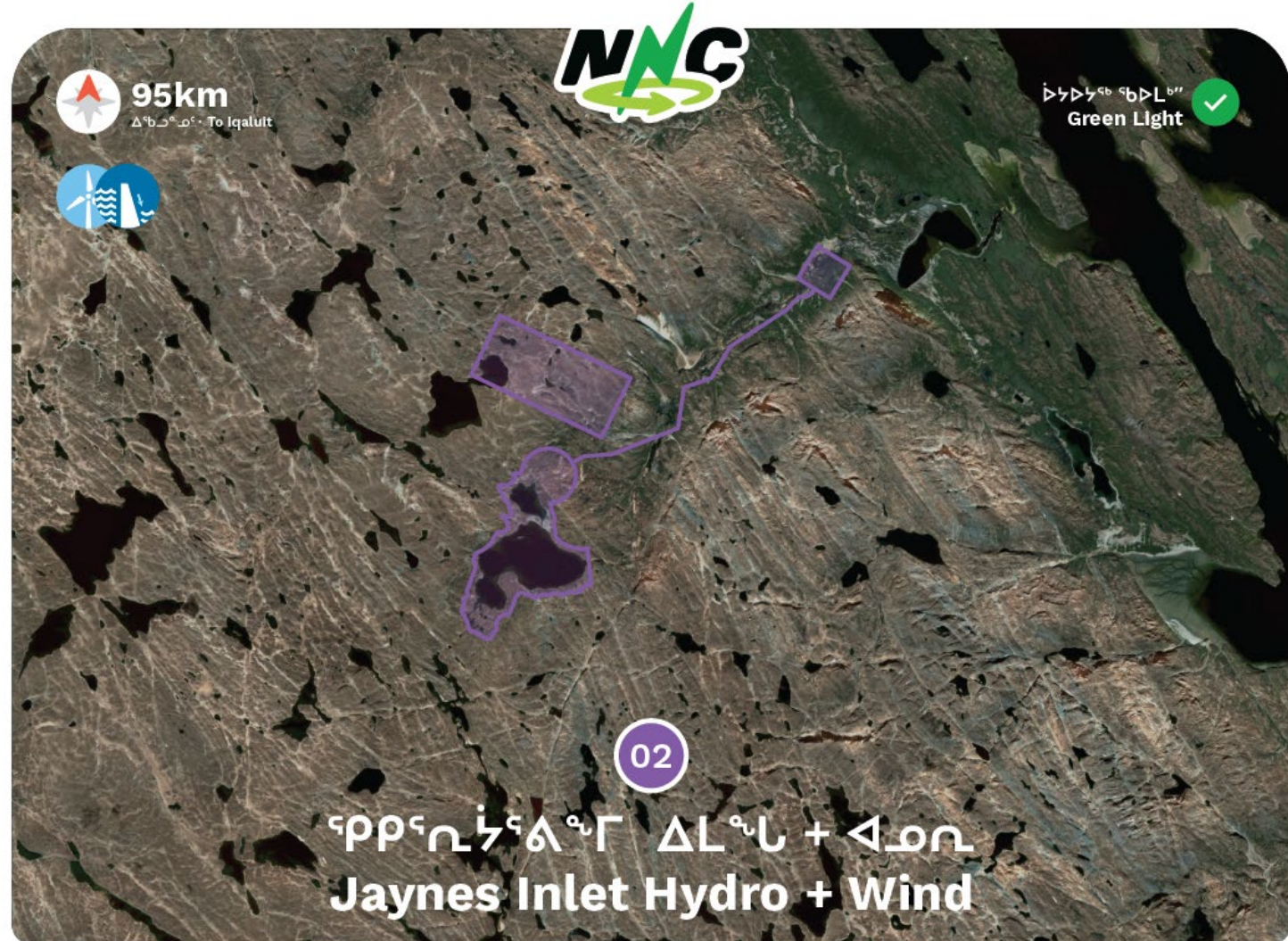


Niaqunguk Wind

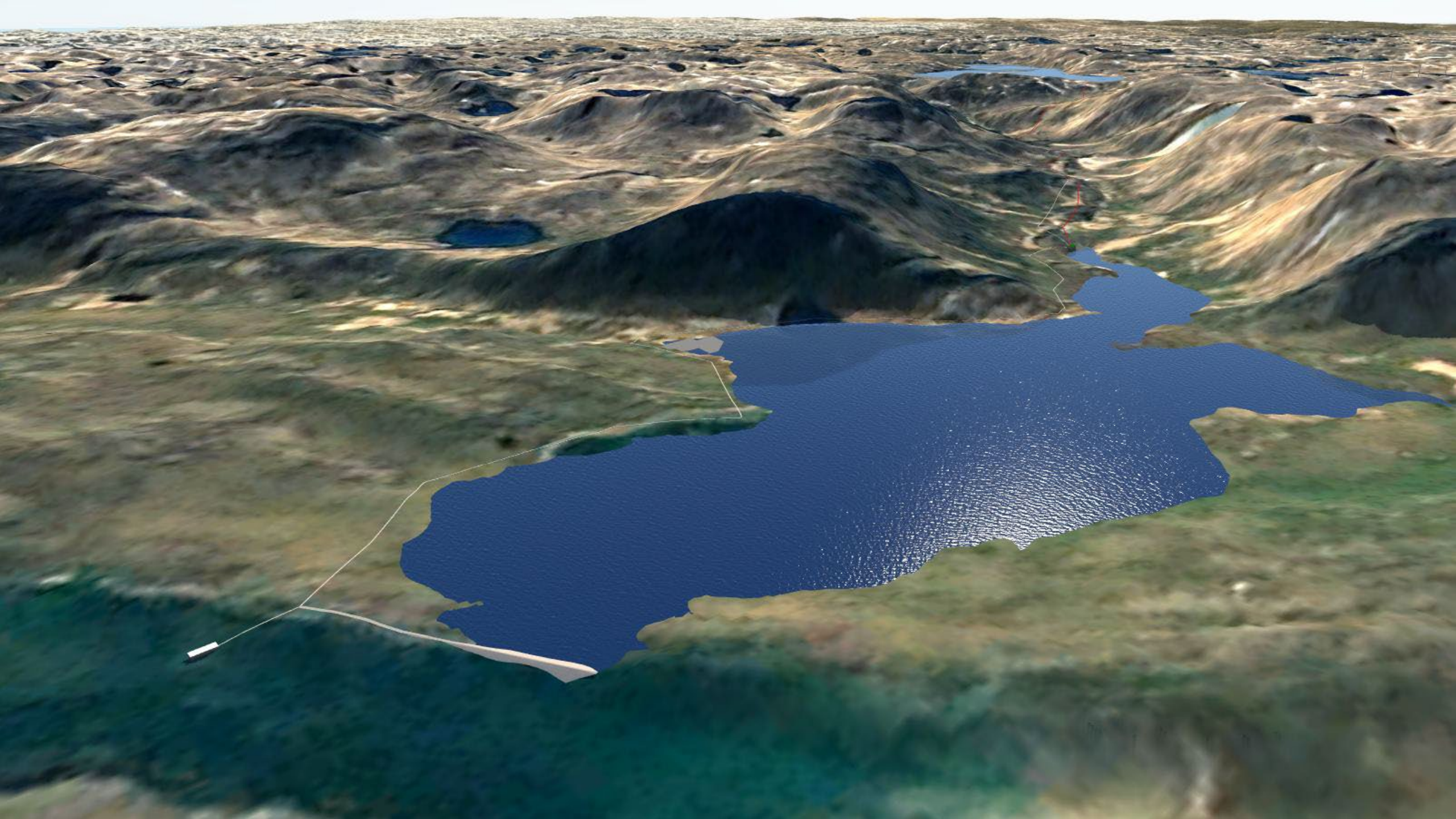


“Green Light” Regions

Jaynes Inlet Hydro + Wind ᑭᑭᑦᑎᑦᑎᑦᑎᑦ ᑭᑭᑦᑎᑦᑎᑦ ᑭᑭᑦᑎᑦᑎᑦ + ᑭᑭᑦᑎᑦᑎᑦ	
Development Type ᑭᑭᑦᑎᑦᑎᑦᑎᑦ ᑭᑭᑦᑎᑦᑎᑦᑎᑦ	Hydro + Wind (15MW) ᑭᑭᑦᑎᑦᑎᑦᑎᑦ ᑭᑭᑦᑎᑦᑎᑦ + ᑭᑭᑦᑎᑦᑎᑦ
Dam Size ᑭᑭᑦᑎᑦᑎᑦᑎᑦ ᑭᑭᑦᑎᑦᑎᑦᑎᑦ	5m
Cost vs. Diesel ᑭᑭᑦᑎᑦᑎᑦᑎᑦ ᑭᑭᑦᑎᑦᑎᑦᑎᑦ	44% ↓
Social Score ᑭᑭᑦᑎᑦᑎᑦᑎᑦ ᑭᑭᑦᑎᑦᑎᑦᑎᑦᑎᑦᑎᑦᑎᑦᑎᑦ	Medium ᑭᑭᑦᑎᑦᑎᑦᑎᑦ
Environment Score ᑭᑭᑦᑎᑦᑎᑦᑎᑦ ᑭᑭᑦᑎᑦᑎᑦᑎᑦᑎᑦ	Medium ᑭᑭᑦᑎᑦᑎᑦᑎᑦ
Technical Score ᑭᑭᑦᑎᑦᑎᑦᑎᑦ ᑭᑭᑦᑎᑦᑎᑦᑎᑦᑎᑦᑎᑦ	High ᑭᑭᑦᑎᑦᑎᑦᑎᑦᑎᑦ
OVERALL SCORE ᑭᑭᑦᑎᑦᑎᑦᑎᑦ ᑭᑭᑦᑎᑦᑎᑦᑎᑦᑎᑦᑎᑦᑎᑦᑎᑦᑎᑦ	7/10



Jaynes Inlet Hydro & Wind



McKeand River South Hydro



የኃይማኖት ለርቢ ልብኝነት

Next Steps



1. Review of your Feedback!

1. የሚገኝ የጥያቄዎች!

2. Recommend Region for Further Study

2. ለተጨማሪ ጥናት የሚገባውን ክልል ማመልከት

3. Begin Detailed Study Work

3. ለተመረጠው ክልል ማጠናቀቅ

ᑦᑏᑦᑏᑦᑏᑦ

Thank you



ᑏᑦᑏᑦᑏᑦᑏᑦ / Contact



ᑏᑦᑏᑦᑏᑦᑏᑦ ᑏᑦᑏᑦᑏᑦᑏᑦ ᑏᑦᑏᑦᑏᑦᑏᑦ
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