



**BINGWI  
NEYAASHI  
ANISHINAABEK**

**THE DEVELOPMENT OF A  
GREEN COMMUNITY**

# BNA HISTORY

- BNA (Sand Point) was a thriving community on the south east shores of Lake Nipigon
- BNA was displaced from its lands in the middle of the 20<sup>th</sup> century through a series of floods and park development
- The First Nation received its reserve lands in 2010, and proceeded with Land Code Ratification in 2014
- Opportunity: To build a green, sustainable community with a clean slate for development





# BNA FLOOD VULNERABILITY PROJECT

- BNA is working with CE Strategies on a Flood Vulnerability Study and is nearing its completion
- With support from ISC, Significant mapping work was completed as a part of this project, as well as drone work surveying the reserve - goal of planning for a future of climate change
- Over 30 member interviews were completed as part of a Land Use Study in the territory
- The next phase is to look at the engineering required to ensure BNA's protection from climate change

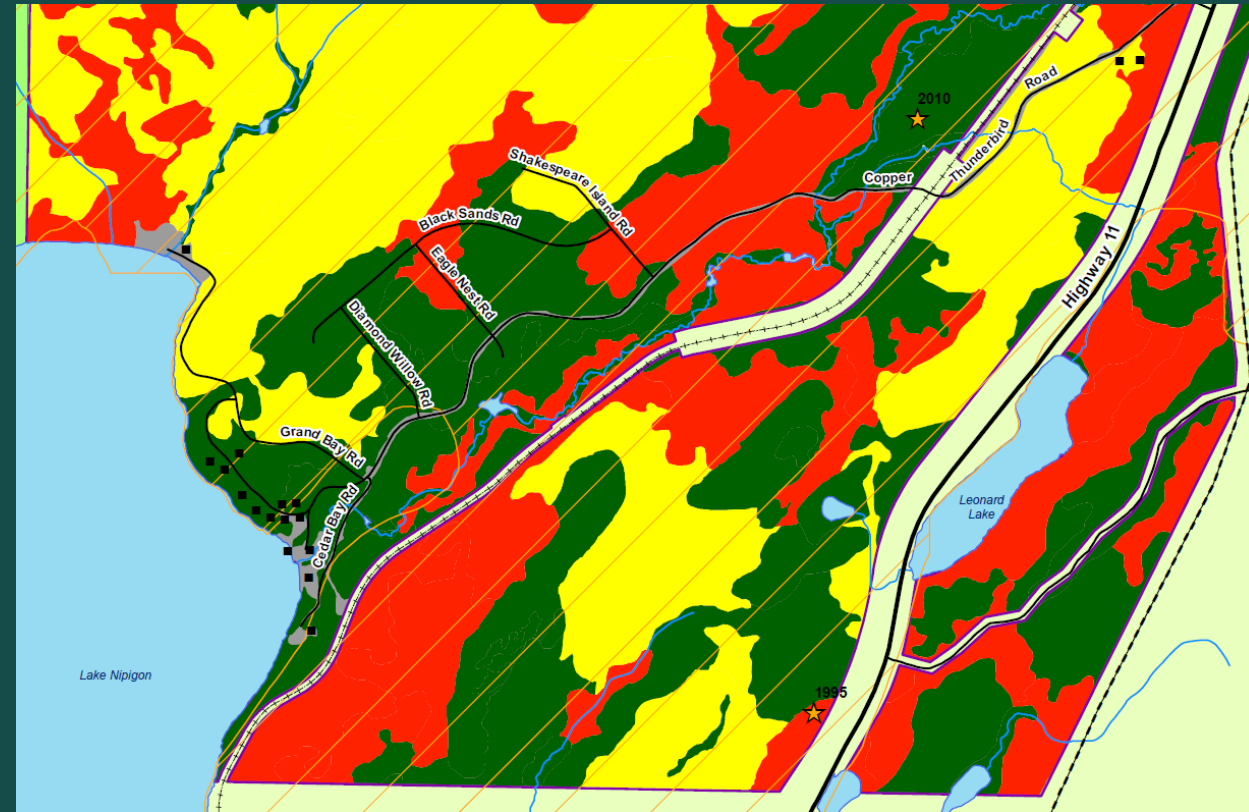
## NEXT STEPS

- GIS training for staff
- Commence a GPS training course in Sand Point with interested BNA members (this summer)
- Apply for the next phase of this project through ISC, which is working with TBT on the engineering and mitigation measures



# BNA FIRESMART PROJECT

- BNA has just completed its Firesmart Project with support from ISC
- It involves formulating a “Fire Plan” as well as mapping to ensure that appropriate measures are taken to protect BNA members and assets from possible wildfires
- A team from Four Nations Forestry came and cleared problem trees and areas from the community. Through this project, BNA acquired significant chainsaws, brushsaws, and safety equipment for future use
- Critical Project - fire of 1999



# PAPASAY SAWMILL EXPANSION: BIOHEAT

- The Papasay Sawmill commenced operations in 2017, producing green lumber with portable Woodmizer saws - now expanding
- Operated with no heat for two winters
- With support from NRCan, 2019 BNA installed a Biomass Boiler on the back of the sawmill, utilizing chipped wood residue from the operation to heat the facility
- Goal: Heat the facility, and use everything

## NEXT STEPS

- Expand the boiler system to include the new kiln chamber, so lumber can be dried with our own sawmill residue



# BNA DISTRICT HEATING PROJECT

- BNA is working with TBT Engineering and Northern Community Solutions on a District Heating Project
- The idea is to hook up as many converted homes and buildings as possible to central biomass heating system
- The system would use chipped residue from the sawmill operation (which has additional waste to use) to pump glycol through a piping system, lowering heating costs for members and the community
- The goal is to find a critical mass of infrastructure to make this initiative economically feasible, as well as finding the appropriate location for these district heating unit(s)

## NEXT STEPS

- Complete the Bioheat study and analysis, which is being supported by NRCan
- Use study to apply to NRCan for District Bioheat and conversion costs



# BNA ELECTRIC BATTERY STORAGE PROJECT

- To carry on with its green initiatives, BNA is pursuing an Electric Battery Storage Project with support from IESO
- It will involve erecting solar panels and a charging station, and acquiring electric motorized equipment for testing and use on the land
- Purpose: Lower use of gas and diesel while undertaking traditional and modern activities

## NEXT STEPS

- Select the equipment - boat motors, golf carts, side-by-side, lawnmower, etc. - for this project
- Select location for this initiative





# BNA GREEN SPACE PROJECT

- With the support of FedNor, BNA is developing the area near the greenhouse and creek as a community green space
- It will have walking paths, trees, a large fire pit and seating area, a walking bridge, outhouses, among other aesthetics
- BNA is working with members Paulette Facca and Ryan Gorrie on this project, as well as TBT Engineering.

## NEXT STEPS

- Continue working with TBT Engineering and BNA members on the design of this space
- In the process of conducting the RFP, and will hire contractor to carry out the construction of the space
- Manage the overall project schedule and budget



# BNA GREENHOUSE AND FOOD SOVEREIGNTY

- In its continuing efforts to develop a green and sustainable community, BNA has constructed a greenhouse and raised garden beds near the area by the creek
- The greenhouse is able to grow seasonal fruits and vegetables, and significant lumber was utilized from the Papasay Sawmill

## NEXT STEPS

- Discussions about making greenhouse “year-round”, ensuring fresh fruits and vegetables can be grown in the wintertime

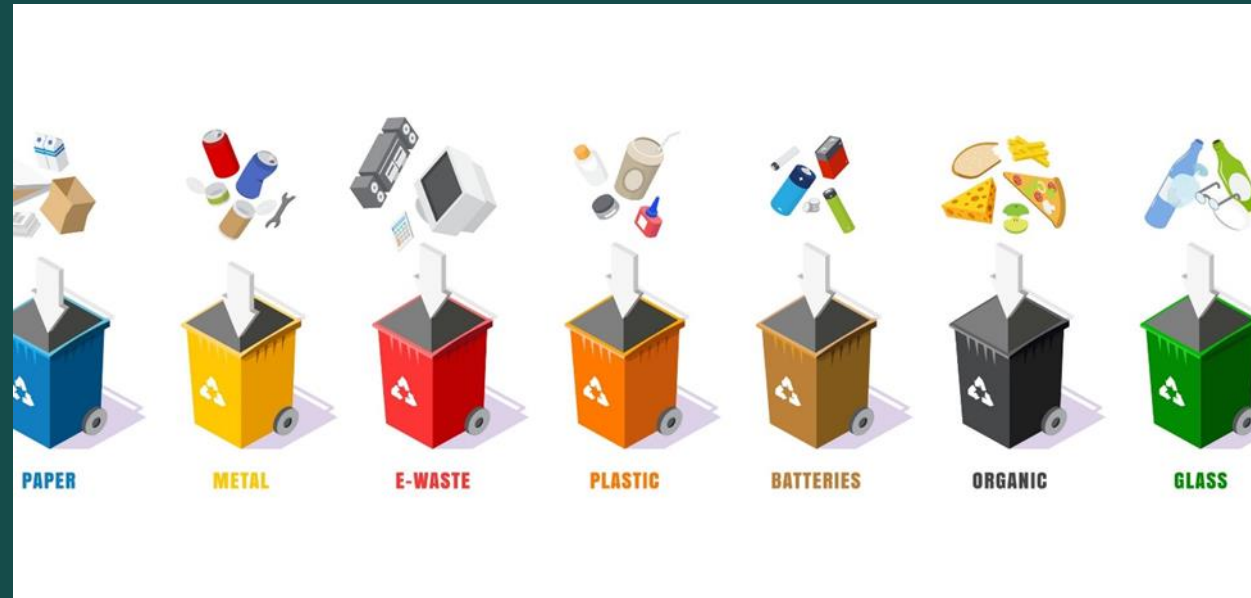


# BNA RECYCLING SERVICES

- In order to maintain a clean and green community, BNA has ensured that there are recycling services available for Sand Point residents
- Large recycling bins were purchased and placed near the new community homes, and are regularly emptied

## NEXT STEPS

- Expand the BNA recycling program to ensure more items can be recycled
- Complete the Waste Transfer Station and move recycling service to the central area of the transfer station
- Better communicate the availability of these services to the BNA membership



# ROCK TECH LITHIUM MINING DEVELOPMENT

- This is a large lithium mining development project just to the southeast of BNA's reserve (Road runs through the First Nation)
- It is looking at ways to develop in the most environmentally sustainable fashion possible - with direct First Nation involvement
- It is a multi-year development with infrastructure, energy, transportation, and partnership development opportunities. It involves BNA, BZA and RRIB First Nations
- Lithium Battery-powered vehicles is the future

## NEXT STEPS

- Ensure Exploration Agreement terms are honoured
- Finalize 3-Nations Resources LP with BZA and RRIB, and continue with partnership formation with BZA/RRIB
- Commence Impact Benefit Agreement Negotiations

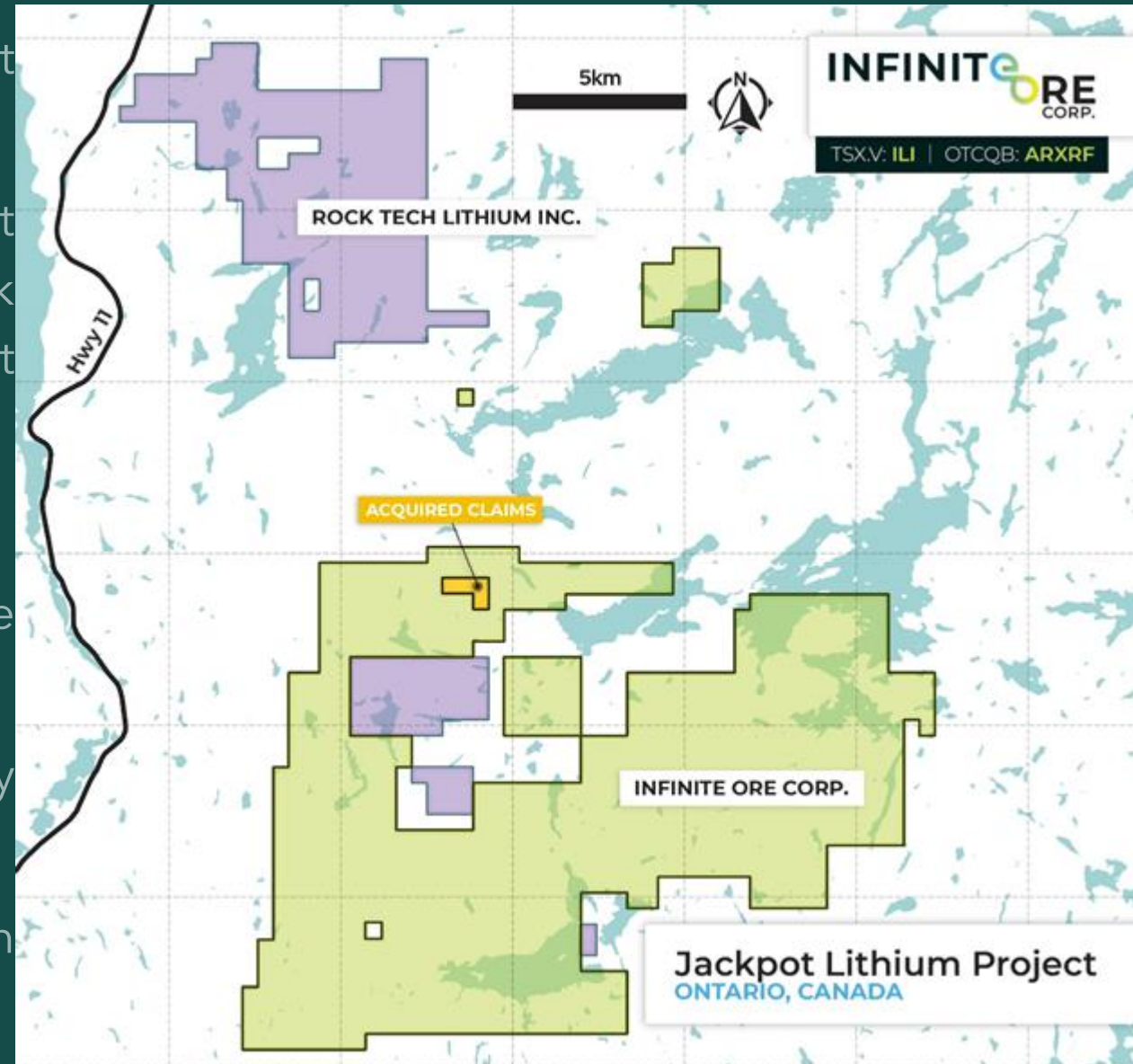


# IMAGINE LITHIUM (FORMERLY “INFINITE”)

- This is a large lithium property to the southeast of Rock Tech: The “Jackpot Property”
- BNA has signed an Exploration Agreement nearly identical to what it signed with Rock Tech. It involves BNA, BZA and RRIB First Nations.

## NEXT STEPS

- Ensure Exploration Agreement terms are honoured
- Work with Imagine on their road (Papasay currently maintaining)
- Continue with partnership formation with BZA/RRIB

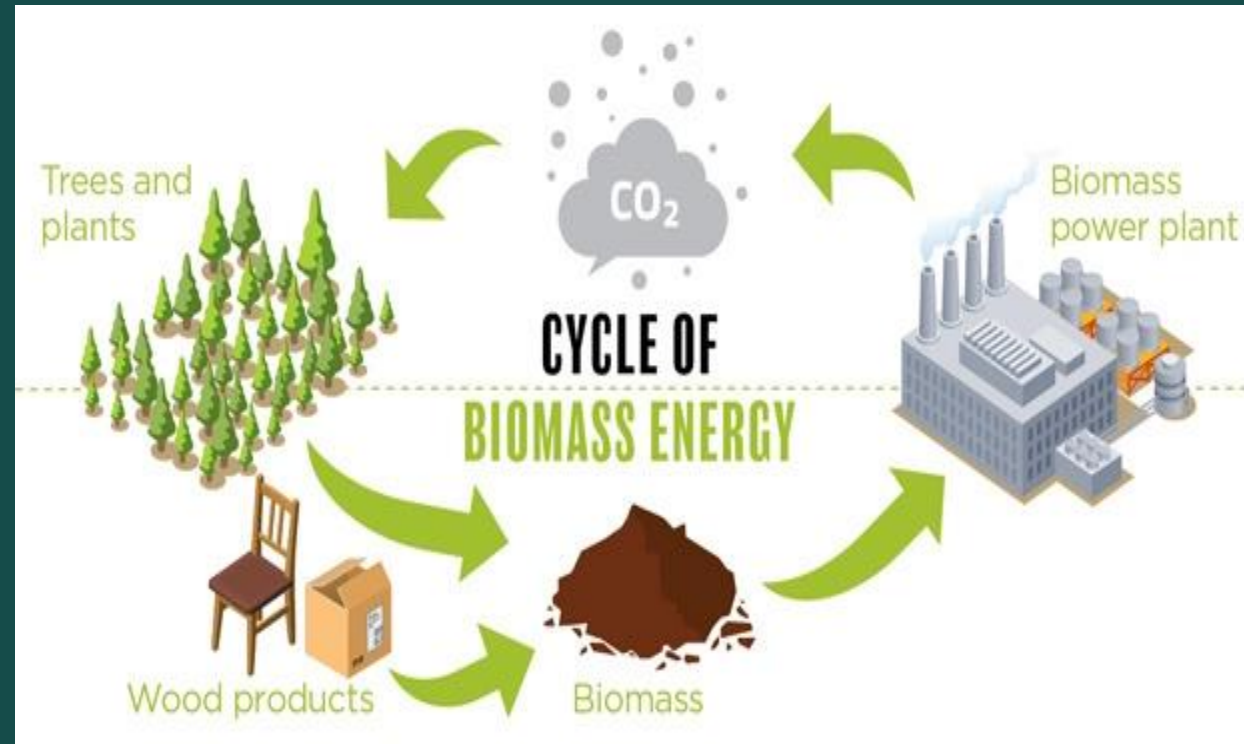


# NATURAL GAS CONVERSION PROJECT

- Through Lake Nipigon Forest Management Inc. (LNFMI), Papasay and other shareholders are looking at a project in which we can use brush piles and underutilized species (like poplar) and convert to natural gas
- We are exploring the idea of building a Biomass plant – possibly on BNA’s land near the Rock Tech road – to convert the biomass and run power to RTL mine along the new road being built

## NEXT STEPS

- Proposal submitted to NRCAN to study this opportunity
- Work with Rock Tech on the evaluation of options for energy at the plant
- Finalize the re-ratification of BNA’s Land Code to ensure that we can lease land for this opportunity if it arises





**MIIGWETCH!**