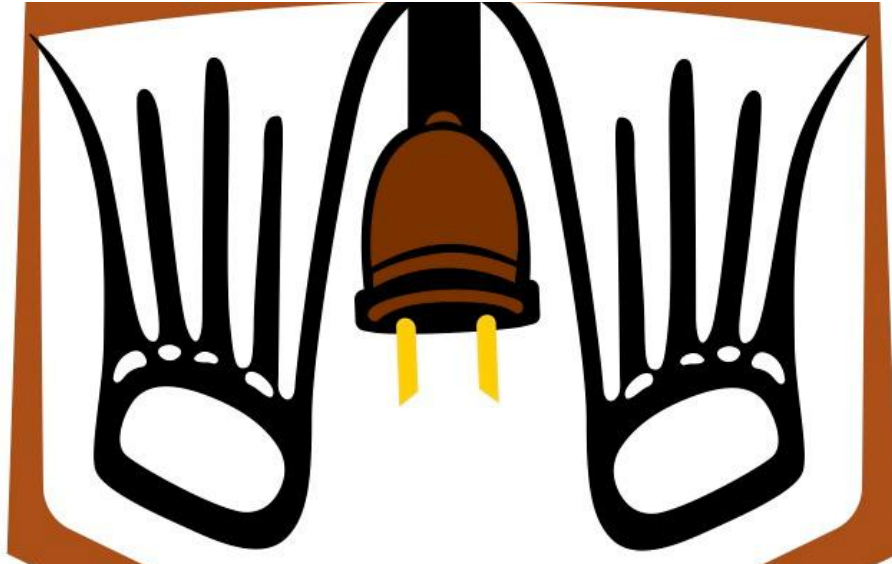


Haítzaqv Climate Action

We are creating a “community-led” Clean Energy Plan



New Haítzaqv Climate Action Logo

Designed by Ýxvmi Shirl Hall

Artist description:

"The surrounding *łáqva* (copper) represents the authority and boundary of the Haítzaqv Territory. The lightning represents *wúǵmí* (creator's) electricity, as we move through our own electricity. The sacred *dńýás* (red cedar tree) is of great importance to the Haítzaqv providing our shelter, clothing, transportation and oxygen. The human hands represent our responsibility and stewardship for the planet."

Wálas ğiáxsiša Ýxvmi Shirl Hall

WHAT YOU'LL FIND INSIDE:

- CLIMATE ACTION COORDINATOR UPDATE
- YOUTH ENGAGEMENT
- NEW STAFF
- ECOFIT KITS: PAM WILSON
- 12 HAÍŁZAQV CLIMATE SOLUTIONS



Message from Haíłzaqv Climate Action Coordinator Leona Humchitt

Yiyáu wáwáǵvtus,

First of all, we want to thank everyone who continues to make time to participate in our community engagement sessions on zoom, social media, Ethelo surveys, and the new website www.heiltsukclimateaction.ca

The essence of our mandate for this phase is to engage, consult, and receive meaningful input from our members to create our 5 year 'community-led' Clean Energy Plan.

Climate action is a shared responsibility and depends on the community taking collective action.

To drive effective climate action, a culture of collaboration and meaningful engagement is important to ensure there will be a sound future for our sásm̓ (children).

We are building on the strength of our wáwáǵvtusgvuła (late family) and pulling on the wisdom of our híh̓m̓bił (ancestors) to enter the green economy sector while staying rooted in Haíłzaqv values.

Our last survey had 300 participants! We'll be releasing our second survey in the coming months. We are asking Haíłzaqv to prioritize 12 clean energy strategies, identified by the community, as we work to secure funding to realize our clean energy future. Our aim is to ensure all Haíłzaqv voices are heard.

Together, we will create a Haíłzaqv reality that includes a green economy, sustainability, and combats greenhouse gas emissions.

We are working to have our Haíłzaqv values reflected in our current situation, to strive to bring balance back to our community, and to alleviate the on-going colonial reality of climate change. Our clean energy plan will be by the Haíłzaqv and for the Haíłzaqv.

We look forward to your continued participation in this important work for our Nationhood and Haíłzaqv energy sovereignty.

**Wálas ǵiáxsiǵa,
Leona Humchitt, Climate Action Coordinator, Heiltsuk Tribal Councillor**



Earth Day at Bella Bella Community School! our sásm̓ are our future



Háikañakv̓la: to rise higher and higher

The Haítzaqv Climate Action Team spent Earth Day 2021 with the Bella Bella Community School High School students. The students had the opportunity to contribute to the 3-5 year 'community-led' Clean Energy Plan that is currently being developed. These students are well aware as a community we need to refocus on the green economy and away from resource extraction.

Our young and capable population deserves meaningful work in line with our Haítzaqv values, in the Haítzaqv homelands and these young people will all benefit from our collective climate action solutions.

Four bikes were drawn and gifted to the students for all the efforts to be apart of the solution. Our future is in good hands!



New Staff!



Qáńístisłá Michael Vegh

Clean Energy Planner

Michael is a great grandson of Gordon Reid, Grandson of Mickey (Margaret) Reid, and son of Idina Vegh and Brad Vegh. Michael is the lead author of The Haítzaqv Clean Energy Plan, which will outline how to address our Nation’s energy needs, challenges and opportunities. The plan will provide an initial path to create a clean and effective energy system that reflects Haítzaqv values.



Zuleika Bhamji

Executive Assistant

Zuleika's maternal great grandparents were Wilfred and Rosie Brown. Her maternal Grandma was Judy Brown who went to Port Alberni residential school. Her mother is Paula and father is Mohammed from Gujarat, India.

Prior to becoming an executive assistant, Zuleika worked as a legal administrative assistant in family, corporate, immigration, Indigenous at Wills and Estates Law. Zuleika provides high level administrative and organizational support to the team. This is a remote position.

Hey Heiltsuk Nation! Check this out! Home Energy

Improvements

Are Your Energy Bills High?

Heiltsuk Nation and BC Hydro are offering energy efficiency upgrades that will improve your home comfort while saving you energy and money by:

- Installing efficient LED light bulbs
- Sealing air leaks in walls, and around windows and doors
- Installing faucet aerators and low flow shower heads
- Providing clothes-lines or racks, fridge thermometers, and smart power strips
- Reviewing your home for other energy saving opportunities

Questions? Or want to put your house on the list?

Call or text Pamela Wilson, Lead at

250 957 7491, or email

tagilaconsulting@yahoo.ca

Energy Saving Tips!

- **Adjust your thermostat to 21°C** and even lower at night or when you are not home. Heating costs rise by 5% every degree above 20°C.
- **Wash clothes in cold water, and run washers with full loads.** It takes a lot of energy to heat water!
- **Take shorter showers**
- **Skip the heat-dry setting** for the dishwasher
- **Hang clothes to dry** instead of using your dryer.
- **Check and change furnace filters** regularly
- **Unplug your unused electronics,** or use a smart power strip

How the Program Works

Step 1: A trained home energy technician will visit your home to install basic energy upgrades and identify potential future upgrades.

Step 2: The Band will keep track of future upgrades needed in your home and make additional improvements as budget allows.

Step 3: Follow tips on how to manage energy in your home and watch your electricity bills decrease!

Save Money Now!!! Call to book!!!



12 Haítzaqv Climate Solutions VOTE NOW!

Community-Led Clean Energy Plan Continues

On behalf of the Haítzaqv Climate Action Team, we are honoured to carry out this “heart work” on behalf of future generations. We appreciate the time and energy everyone has given to the collective initiative so far. We need your continued support and input. You are an expert in our community, and we want to hear what the communities priorities are for taking action against climate change. Haítzaqv Climate Solutions Survey is now live <https://heiltsukclimatesolutions.ethelo.net> please take the time to prioritize the 12 Climate Solutions that were recommendations from community members in the first visioning survey.

We have heard your climate grief for our land, water and resources. Let us continue to work together for our shared futures. Below are the 12 Climate Solutions more information in on the survey platform: <https://heiltsukclimatesolutions.ethelo.net>



GRAND PRIZE

50 HP ELECTRIC BOAT MOTOR
VALUED AT \$9000

+
\$1000 CASH



WIN

A FRIDGE
A FREEZER
\$500

Do the Survey Today!



Electrification of Marine Vessels

The community is aiming to switch marine vessels to electric from gas/diesel. This will significantly reduce our greenhouse gas emissions. The project will start with the conversion of the seabus between Denny Island and Bella Bella and adding electric outboard motors to the trolling fleet. We will install charging infrastructure dockside. Transportation is one of our highest emission areas. This transition will provide an understanding of the feasibility of electric marine transportation in our community. Switching to electric boats will result in lower maintenance costs. The price of electricity from Ocean Falls is cheaper than gas and diesel, reducing fuel costs.

Project Summary:

1. Partner with the Province of BC to cost share the conversion of the seabus and trolling fleet.
2. Pilot Project for 1 year to trial electric systems in Hałtzaqv Homelands and installation of charging infrastructure.
3. Evaluate pilot project.
4. Expand electric options to all businesses and boat owners in Bella Bella, through available provincial subsidy programs.
5. As boats are replaced, ensure electric options are considered.
6. Within 5 years, up to 50% of boats operating in Hałtzaqv Homelands are electric.
7. Work with industry operators to mandate electrified marine vessel of their fleets.

Remember to Vote!





Community Transportation

Electric vehicle (EV) projects can unlock a variety of opportunities for people to become directly involved in the clean energy transition away from fossil fuel dependence. Using EVs will not only offset the environmental impact of gas-burning vehicles, but also stimulates conversations about how people use fossil fuels for their everyday needs.

It may not be practical to transition an entire community to EVs all at once, but a gradual implementation will ensure that the challenges are addressed at a small scale so that a larger future roll-out will be more successful in the future.

This project involves the installation of 10 (ten) EV chargers in our community and the deployment of 6 (six) EVs to serve the community.

The scope of the project would include the following infrastructure:

1. Six Level 1 charging units to be equipped with the vehicles.
2. Four Level 2 charging units to be installed at central locations in the community for shared use.
3. Three sedan-style, four-door electric cars for in-community travel purposes.
4. Two SUV style EVs for travel in the community and out into the surrounding lands where off-road conditions may cause issues for cars to travel safely.

Zero Emission Electric Vehicle Charging Station:

We will also apply for the CleanBC Go Electric Rebates for the installation of Zero Emission Vehicle Charging Stations for public use and community fleet use.

Remember to Vote!





Retrofitting Community Homes

Deep Energy Retrofits for Haítzaqv Homes:

Energy efficiency is the invisible hero of a clean energy community. Energy efficiency projects can range from teaching people about how to use less energy (conservation) to deep energy retrofits which look at a home or building to reduce how much energy it uses. Deep energy retrofits can involve: improving the air barrier of a home; adding insulation to walls, basements/crawlspace, and attics; swapping out heating and cooling equipment; and more. Energy retrofits also require energy audits to be done. These can be done by certified energy advisors or done by someone with a bit of basic training.

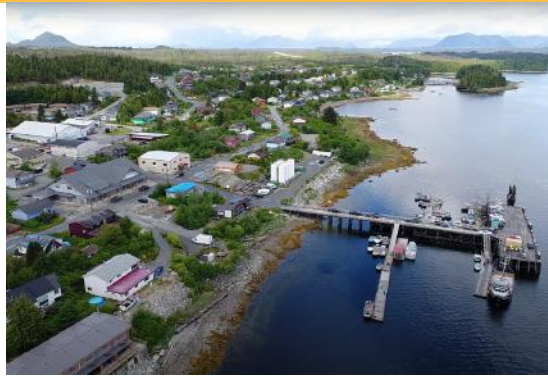
NRCan audits may be required for certain funding sources. This project builds on Haítzaqv's successful heat pump projects.

Project Summary

This project involves deep-energy retrofits on half the homes in Bella Bella (approximately 200 homes) over a 12- year period. The aim would be to improve the energy efficiency of the homes by at least 30%. Please see survey for full details.

Remember to Vote!





Retrofitting Community Buildings

Our buildings, just like our homes, can be made more energy-efficient through deep energy retrofits.

Deep energy retrofits can involve: improving the air barrier of a building; adding insulation to walls, basements/crawlspace, and attics; swapping out heating and cooling equipment; and more. Energy retrofits usually also require energy audits to be done. These can be done by certified energy advisors or done by someone with a bit of basic training. NRCan audits may be required for certain funding sources.

However, carrying out these projects can be time-intensive. They are limited by the construction season. This project will require additional training to understand building science (which Hałtzaqv members have already started) and require effective financial structures to finance the project and see an economic return from the project.

Project Summary

This project involves deep-energy retrofits on four large community buildings in Bella Bella (Community Hall, Bella Bella Community School, Band Office, Waglisla Band Store) over a 5- year period. The aim would be to improve the energy efficiency of the buildings by at least 30% and transform their heating source from fossil fuel to electricity.

Remember to Vote!





Home Heating Systems

Heat and electricity bills on average per year are \$3,600 per home in Bella Bella. This is due to inefficient and expensive diesel heating systems. We want to provide every home in Bella Bella with the option of switching to an electric heat pump and/or a high efficiency catalytic wood stove. One home switching to a heat pump eliminates five tonnes of greenhouse gas emissions annually.

After switching to a heat pump those bills decreased household energy spending by more than \$1,500 per year, and reduced fuel consumption by 2,000 litres of diesel per home per year. Currently 129 homes have made the switch, making up nearly a third of homes in our community. Meaning 645 tonnes of greenhouse gas emissions are being eliminated from our environment this year. We have reduced our fuel consumption by 2,000 litres of diesel per home per year.

Catalytic wood stoves are on average 82% more efficient than traditional wood stoves, which also reduces labour from gathering wood. Catalytic Woodstoves can save time and labour for our members by reducing the amount of wood required by 82% per year, while reducing GHG emissions by burning less wood and provide a high quality of heat. Our current energy systems in community are inefficient and expensive. By switch to heat pumps and/or catalytic wood stoves, we can reduce our GHG emissions, increase indoor air quality, and provide high quality heat in all of our homes.

Remember to Vote!





Food Sovereignty

The Covid 19 crisis highlighted our lack of food security and has had major impacts to our Nation that are compounded with climate change. Failures in the fisheries due to commercial overfishing and climate change are putting a major stress on our protein resources. This project seeks to create both fresh and nutritious vegetables and potentially freshwater farmed fish such as sturgeon or tilapia through a combined greenhouse/vertical farm and fish pools.

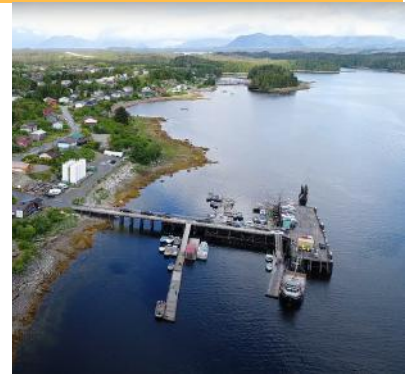
The greenhouse would provide abundant food in season, the vertical farm would produce fresh and nutritious greens year round and the fish system would work together as a circle of nutrition. Vertical farming is an indoor system that uses nutrient loaded water, LED lighting and is able to produce large amounts of fresh food in a small space using minimal energy.

This initiative would generate jobs, training opportunities and potentially food to sell to both local restaurants and tourists.

This project is expected to reduce our Nations' greenhouse gas emissions through the production of local food from zero-emission sources, while at the same time giving us abundant healthy food.

Remember to Vote!





Renewable Diesel

Bringing cleaner diesel fuel to the Bella Bella fuel dock for local boat owners to test, evaluate and use instead of the dirty diesel that we now use.

“Renewable Diesel” is made with plant material but is chemically equivalent to petroleum diesel.

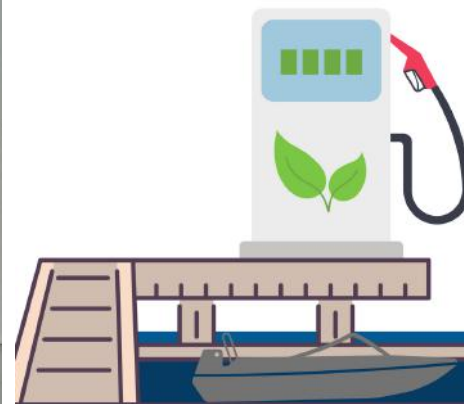
Project Rationale

Switching to a much cleaner fuel (and potentially lubricants too) made from waste, has been proven to be simple, effective, and affordable.

If all, or most, Bella Bella diesel vessels and trucks switched to renewable diesel over six months for example, studies show that their collective carbon emissions would drop by 60-90% and marine toxicity by similar ranges or more.

As vessels are retired and replaced most will likely move to even cleaner fuel in the form of electric engines.

Remember to Vote!





Solar Project

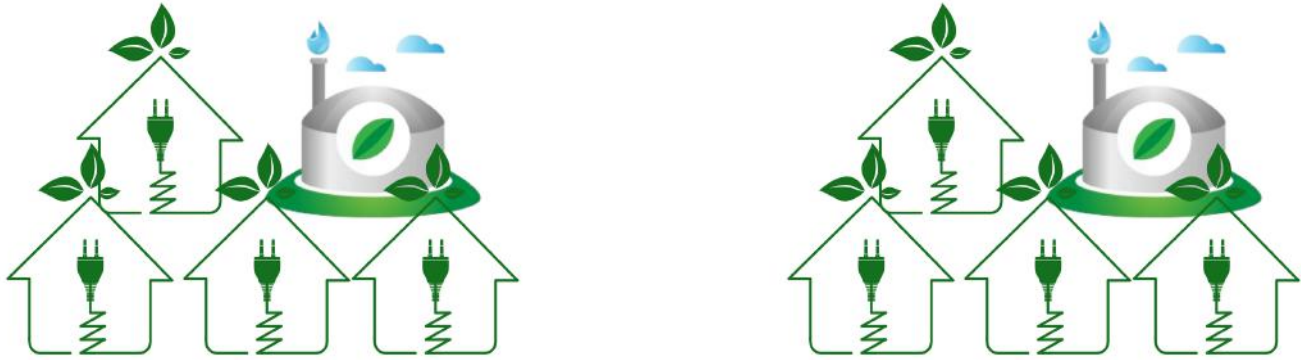
The Haítzaqv Nation would actively work towards the widespread adoption of solar panels throughout all residential homes and other community buildings. Projects would be implemented on existing residential roofs throughout the community. More solar panels would be ground-mounted to complement the roof-mounted systems to offset community buildings.

Project Summary

- Use collected data to develop an average household electricity demand for all homes.
- Collect data to develop average community-building electricity demand for all buildings.
- Engage with BC Hydro to review the potential impacts of the proposed solar initiative.
- Pursue funding opportunities.
- Create a detailed implementation strategy that focuses on key values, goals and priorities as they relate to energy self-sufficiency.
- Create a detailed project plan to help minimize project risks, delays and costs. The advancement of the proposed solar initiative is substantive and will require significant logistical and project management resources.
- Outline a preliminary project management plan.

Remember to Vote!





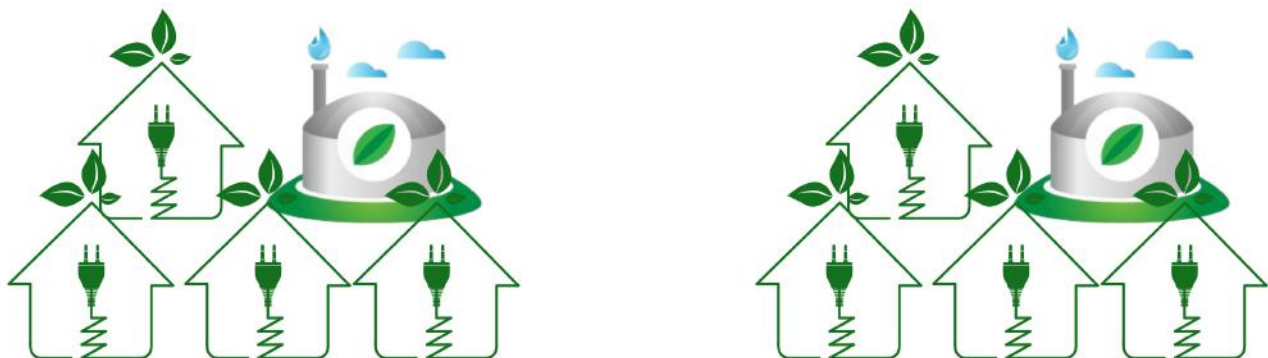
BioPower Eco-Village

We can install a small combined heat and power (CHP) system that uses biomass energy. Biomass energy is energy derived from plants and plant-derived materials. The soon to be established Hałtzaqv Nation sawmill, once fully operational will produce enough residual material to fuel a small, combined heat and power (CHP) system. The CHP unit would produce 40kW of electricity and 110 kW of heat, enough to power and heat approximately 10 homes.

The CHP would power and heat a new development, a 'Eco-Village' of 10 homes that would be only powered and heated by local resources. The Eco-Village itself would be constructed from local resources, manufactured by the sawmill and constructed by members of the Hałtzaqv Nation. The Eco-Village will incorporate as much of the traditional style of living as possible. Excess heat from the system would be used to heat greenhouses for localized food production in the Eco-Village and for the community.

Heating fuels are expensive in Bella Bella all heating fuels need to be transported via barge, which creates a significant amount of GHG emissions. The sawmill & dry-land sort will generate renewable biomass material that is available for heat and power generation, and would otherwise be a waste product. This is a pathway to establish energy efficient housing opportunities for our members Eco-Village incorporates traditional values and style of living while bringing in new clean energy technology in form of combined heat and power and potentially technologies incorporated in the housing design.

Remember to Vote!





Haíłzaqv Energy Sovereignty

Haíłzaqv Nation is considering its energy sovereignty and developing a strategy that works for our community. Our largest source of energy comes from Ocean Falls (Laíq) of the Yísdáitxv Territory of the Haíłzaqv Nation and is currently not being utilized to its full total output capabilities. Reassertion of ownership of Haíłzaqv land and waterways, including Ocean Falls, would be a key aspect in any Haíłzaqv Nation energy sovereignty strategy. By purchasing the infrastructure that generates the electricity for Bella Bella, we would be able to be in control of our local energy source and generate new economies and sources of revenue. The infrastructure is currently owned by Boralex.

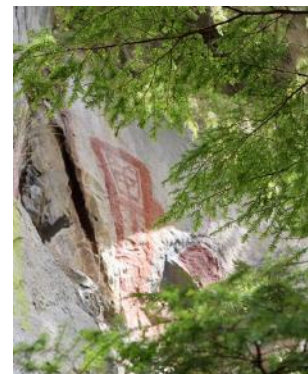
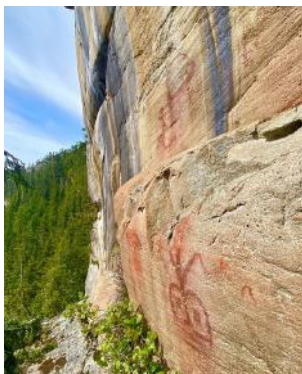
Project Summary

Haíłzaqv Nation is developing an energy sovereignty strategy. To do this, we would follow the guidance of joint leadership both our Yímás and elected tribal council, especially in the assertion of Haíłzaqv autonomy through negotiations with Canada for the reclamation of Haíłzaqv land and resources.

- Work with the existing reconciliation strategies.
- Continue the Climate Action Team's work with the Indigenous Off Diesel Initiative
- Locate other funding sources to leverage opportunities.
- Conduct an appraisal of Ocean Falls.
- Research the potential number of jobs created and other economic opportunities.

The next phase for the Haíłzaqv energy sovereignty strategy would be for the project team to outline a preliminary project management plan.

Remember to Vote!





Passive House Kit

The Heiltsuk Housing Department is seeking to develop a set of house plans and a kit of parts that will empower Haíłzaqv people to build our own homes with our own wood.

The Haíłzaqv have been constructing wood houses for about 14,000 years. We intend to continue doing so, and have recently constructed a sawmill and resumed training builders. However, institutional barriers to funding and complications to contracting have made it difficult for Haíłzaqv families to have new homes constructed on recently created lots.

The Haíłzaqv Kit House creates a pathway for families to construct a single-family home in two seasons thereby qualifying for funding, while (b) enabling the community to resume its tradition of wood construction. At the same time, the Haíłzaqv Kit House carves a pathway for economic development. These homes will be built with Haíłzaqv wood and Haíłzaqv labour. Over time, the community will be able to export knowledge and components to other Coastal First Nations, empowering them to build their own kit homes.

This project will proceed through four stages: House Planning, Kit Design, Pilot Construction, Kit Replication.

Remember to Vote!





Capacity Development Strategy

It is important to increase awareness and education on Climate Action & Clean Energy across the lifespan for all Haíłzaqv people and build Haíłzaqv capacity to participate in climate action, clean energy initiatives, and our new green economy.

We will accomplish this by creating and implementing a Capacity Development Strategy with our local educational institutions, including Bella Bella Community School, Heiltsuk College, Midcoast First Nations Training Society, and other local education programs. We will strategically partner with external education institutions to accomplish our vision. The strategy will be inclusive of the whole community and focus on young people under the age of 30.

Climate change is a global issue that deeply impacts Haíłzaqv people. Haíłzaqv Climate Action will require the whole community to be aware and educated on the issues, to take united action for our future generations. We need to refocus our community on the green economy and away from resource extraction (fishing, logging). As we build our conservation and green economy, we will need people with the education, training, and skills to take on new types of jobs. Our young and capable population deserves meaningful work in line with our Haíłzaqv values, in Haíłzaqv Homelands. Háíkahnákvla: to rise higher and higher. Only together as a community can we rise to the great challenge of Climate Change. Our Haíłzaqv people are our greatest strength, we need to be aware and all working together.

Remember to Vote!

