



Kitasoo Xai'xais Energy Initiative

Reducing our energy demand

History

Hydro Powered Community

- Hydro Power since 1981
- Upgraded in 2011
- At capacity - need to reduce electricity to stay green!



History continued....

Relationship with Great Bear Initiative

- Clean Energy Action Plan
- Energy Facilitator since 2012



Electricity Plan

- Pointed to electricity restrictions
- Explored Heat Pumps
- Recommended Housing Upgrades
(before new generation / Heat pumps)

KXN Energy Management Phase 1

- Home Upgrades
- Community Energy Literacy
- Housing Policy



Home Upgrades

- Housing audits
- Home upgrades
- Training local people
- 8 homes had basic upgrades



Community Energy Literacy



Community Energy Literacy

- Engaging and built community interest
- Students & teachers want to spread messages to broader community
- Understand where we use too much electricity, and how to use less



Housing Policy

BCR to support efficiency in existing and new homes

Existing Homes → Maintenance and Upgrades

New homes → Ultra-efficient / Culturally Appropriate

Implementation → Resources and Training

KXN Energy Management Phase 2

Implement Housing Policy

- Home Upgrades
- Continue with Community
- Energy Literacy
- Ultra Efficient Home



Housing Policy

Existing Homes

Will be upgraded according to need:

- Air sealing
 - Windows
 - Insulation
 - Improved ventilation
 - LED lights
 - Water fixtures
 - Control systems
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- New energy efficiency appliances as necessary

Existing Homes

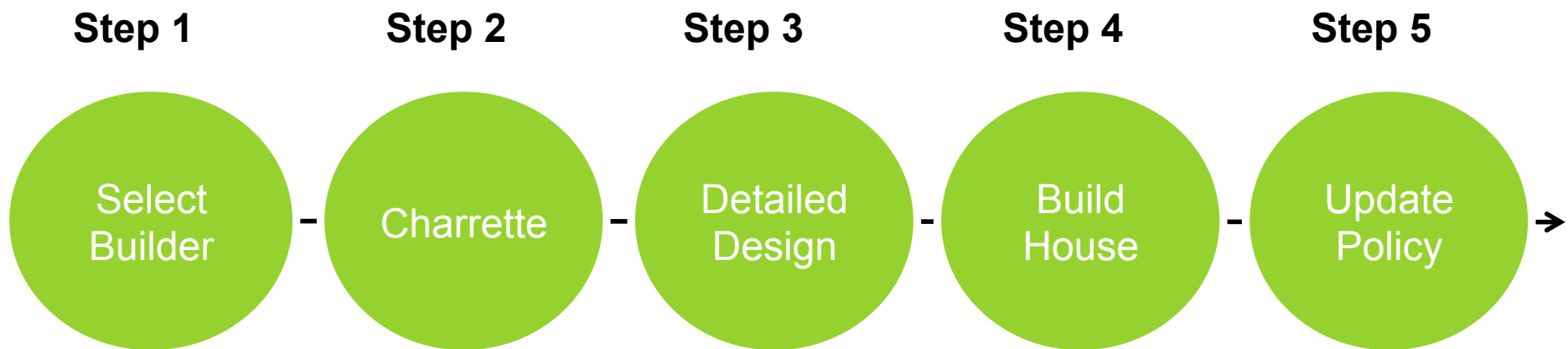
New Homes

- Energy performance better than BC Building code
- Energy assessments before walls complete and occupancy
- Blower door test before builders are paid!
- Training for new occupants
- New maintenance staff / building inspector/ energy inspector will be needed

New Homes - Passive Housing Pilot



New Homes - Passive Housing Pilot



Why Important?

- Once complete one house, can do them all
- Process can be used elsewhere

Resources Required for Implementation

Resources

- Finds to hire and train a housing maintenance FTE
- Funds to complete the passive housing pilot project
- Secure qualified contractors to complete work on budget

Processes

- Embed efficiency into regular maintenance (material list)
- Explore how to leverage contracted services

Other Energy Initiatives in Klemtu

- Solar Project
- Hydro Upgrade
- Distribution Line Upgrade



Energy Management on the Coast

Accelerate **clean energy**
and **energy efficiency** with
all Coastal First Nations

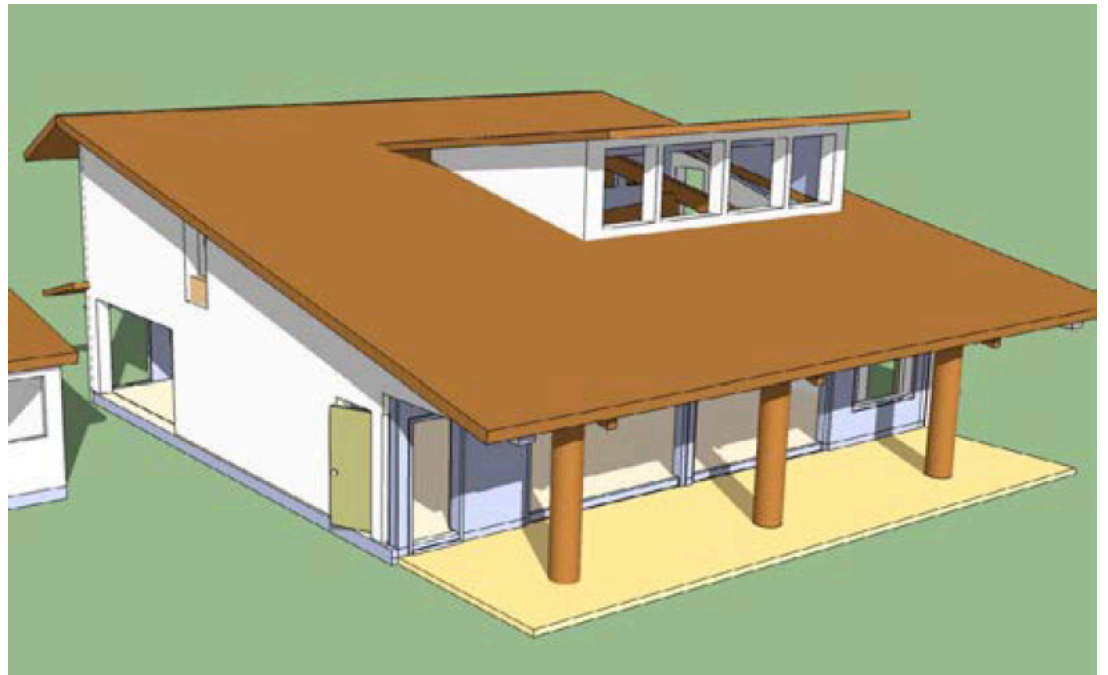


Ultra-Efficient Housing Roadmap

- Beyond Kitasoo – all Great Bear First Nations

Scope of this Project

- Roadmap
- Coastal Building Guide
- Symposium
- Training



Roadmap

Resources

- Building methods; existing standards; Legal and policy considerations for contractors; local economic development; Energy efficient heating; Costs

Industry Map

- Stakeholders and roles: builders, architects, funders, training organizations, NGOs and other service providers
- Verification

Case Studies

- transferable lessons and community champions



Roadmap - continued

- **Guide** – Offer best practices for efficient building on the west coast
- **Symposium** – Opportunity to share knowledge and build trust
- **Training** – Ensuring local resources to support new buildings practices

THANK YOU

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