

# Forestry Manufacturing Analysis

Update: October 13, 2021

## Summary

The Forestry Manufacturing Analysis aims to carry out the following recommendations from The Future of Forestry Think Tank sessions:

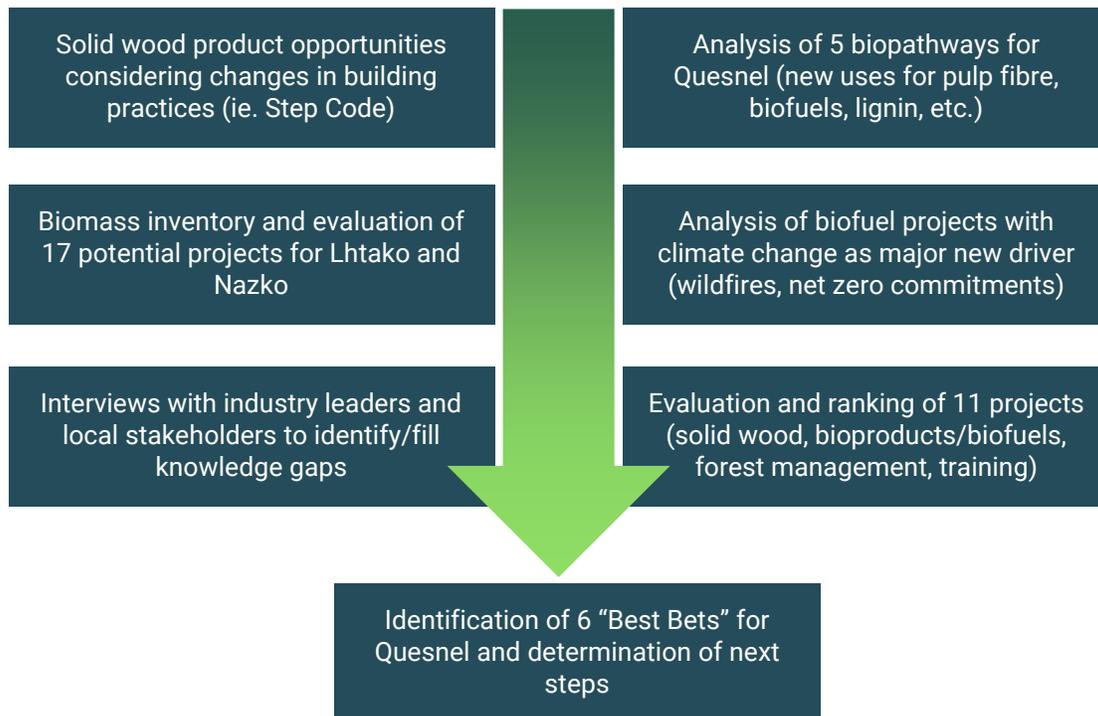
- Optimize fibre recovery and utilization, realize more value, and reduce costs
- Assess the market demand for future forest products
- Secure investments that diversify the manufacturing hub
- Expand training, education and research at the North Cariboo Campus

Since the inception of the Forestry Initiatives Program in 2019, five reports have been completed under the Forestry Manufacturing Analysis:

1. 2020: Wood Technology Solutions – Report For Quesnel
2. 2020: Forest-based bio-products: A review of potential pathways for the City of Quesnel
3. 2021: Forest-based bio-products: Biofuels pathways for the City of Quesnel in a carbon-constrained world
4. 2021: Biomass Utilization Scoping Study for Lhtako Dene and Nazko First Nation (City of Quesnel was a collaborator)
5. 2021: Forest Futures Study: Project Evaluation and Results for the City of Quesnel

For more information, please contact [erobinson@quesnel.ca](mailto:erobinson@quesnel.ca).

The scope of the work to date includes:





## Best Bets

Rank	Project	Summary
1	District energy (COQ); Combined Heat & Power (CHP) (First Nations)	Technology is well-known and has a large local impact by reducing GHG emissions and improving economic benefit
2	Regional forestry management pilot	Act as test bed for innovative approaches and technology in harvesting & forest management; work with Community Forest and First Nations partners
3	Expanded Secondary manufacturing	Value-added wood products can utilize thinnings/residue fibre; advanced wood building systems (prefab) are growing in demand (Step Code)
4	Renewable Natural Gas (RNG) plant	Significant contribution to Canada's climate change goals, although technologies are still under development and requires high volume of low-grade fibre
5	Bio-crude plant	Contributes to Canada's climate change goals, although technologies are still under development and requires high volume of low-grade fibre (ex: Arbios (Canfor-Licella) in Prince George)
6	Training Centre for trades and careers	Expand North Cariboo Community Campus to support entire value chain; work with industry to deliver training required in the region; partner with other centres (BCIT, NAIT, etc.)

## Next Steps

Project	Next Steps
District Heating (COQ)	<ul style="list-style-type: none"> <li>- Proceed with the feasibility study upon funding approval (estimated November 2021)</li> <li>- Educate internally on the opportunity for greenfield projects to achieve GHG emissions savings</li> </ul>
Training Center for trades/careers	<ul style="list-style-type: none"> <li>- Identify training needs with industry, First Nations, educators and governments</li> <li>- Identify potential collaborations and partnerships with other education and training institutions</li> <li>- Develop a business plan, identify funding opportunities</li> </ul>
Regional Forest Management Pilot	<ul style="list-style-type: none"> <li>- Educate Council on the new Provincial forestry policies and how Quesnel can demonstrate on our landbase how to operationalize them</li> <li>- Convene a Think Tank workshop of stakeholders to lay out a strategic direction, priorities, and action plan</li> </ul>
Expanded Secondary Manufacturing	<ul style="list-style-type: none"> <li>- Engage stakeholders in a targeted workshop on value-added wood products/system; foster matchmaking opportunities</li> </ul>
Housing	<ul style="list-style-type: none"> <li>- Map out how green housing and forestry work together to demonstrate a true NZE (Net Zero Emissions) community</li> <li>- Work with CNC and UNBC to develop training pilots to address the gap in advanced wood building systems and current trades education</li> <li>- Continue to engage the COQ Development department to smoothly enable the 3-D printed "bio-concrete" structure with FPInnovations</li> <li>- Engage First Nations and local players in modular housing to develop a housing pilot project that also provides training</li> </ul>