



## EXPRESSION OF INTEREST

**Assessment of the current and future potential volume of underutilized or waste biomass from local forestry and wood processing activities and their potential use and markets.**

### Key EOI Information

The North Queensland Regional Forestry Hub is seeking Expressions of Interest (EOI) from individuals and organisations interests in assisting Hub members in evaluating the current and future potential volume of underutilized or waste biomass from several local forestry and wood processing activities as well as the potential commercial utilisation of identified various biomass resources.

Prospects for using this underutilised or waste wood biomass must also be identified and explored considering the wide array of value-added uses. The project is expected to be completed using a combination of desk research and in-person or remote stakeholder consultation. Project components (described in section 3 below) could be delivered as part of a single consulting project or as separate projects by various consultants.

If you believe that your expertise satisfies the requirements outlined in this document, please complete and submit an Expression of Interest (EOI).

**Closing date for the EOI submission:** 25/07/2022

**Email your EOI to:** Hub Manager – Hulton King [h.king@nqfh.com.au](mailto:h.king@nqfh.com.au)

Once submitted, your EOI will be considered by the Hub Committee. If the proposal is deemed acceptable for consideration, a Hub representative will contact you to discuss your proposal.

## 1. Introduction

The Queensland forest and timber industry makes a significant economic contribution to the State, supporting more than 25,000 direct and indirect jobs, as well as contributing more than \$3.2 billion to the state economy. Many of these jobs are in rural and regional areas across the State.

In September 2018, the Australian Government launched the National Forest Industries Plan: Growing a Better Australia – A Billion Trees for Jobs and Growth. The Plan outlines the Commonwealth Government's strategy to drive growth in the renewable timber and wood fibre industry. It supports the sustainable forest industries as long-term growth engines for regional Australia. The Plan ambitiously aims to deliver a billion new trees over the next decade (including 400,000 new hectares of plantations nationally) to meet a projected fourfold increase in global demand for timber and wood fibre products by 2050. This translates to planting the right trees, at the right scale, in the right places.

The Federal Government has to date provided funding for hubs in Southwest Western Australia, South Australia, and Victoria (The Green Triangle); North and Northwest Tasmania; Northeast New South

Wales; Central West New South Wales; Southwest Slopes New South Wales; Gippsland Victoria; Southeast Queensland; and North Queensland.

The North Queensland Regional Forestry Hub is assessing priority issues to determine the technical issues, needs and opportunities to progress growth. The Hub is seeking to fund projects that will help grow our forest industry through improved investor returns, smarter management and utilisation of forestry resources, traditional owner engagement, as well as a renewed community understanding and engagement in forestry.

## 2. Project Justification

Queensland is home to 41% of Australia's forests. The state has the most forested land area in the country, with 52.5 million hectares of native forests and 233,000 hectares of plantations. Most of Queensland's timber comes from mature softwood plantations dominated by exotic pine and native hoop pine.<sup>1</sup> Across Northern Australia you can find approximately 15,000ha of softwood (mainly *Pinus caribaea*) plantation in Far North Queensland (e.g. around Mareeba), approximately 1,500ha of teak (*Tectona grandis*) plantation (Qld), approximately 13,000ha of African mahogany (*Khaya senegalensis*) plantations (NT) and an estimated 500ha of red mahogany (*Eucalyptus pellita*) plantations, all intended primarily for higher-value, solid wood products.<sup>2</sup>

**The Queensland timber industry recognises that biomass waste from local forestry and wood processing operations is a significant renewable resource that is presently being underutilised. For example, forest harvesting residues have historically been wasted while unmarketable and small-diameter trees, tops, and limbs that could be used to create renewable bioenergy and bioproducts remained unutilised behind forestry harvesting operations (Project objectives 1 and 2).**

A shift towards sustainable biomass utilisation and the promotion of a circular bioeconomy is also supported by national agencies such as Australia Renewable Energy Agency (ARENA) and Bioenergy Australia, industry leaders and researchers affiliated with the Queensland Department of Primary Industries and the Queensland-based National Centre for Timber Durability and Design. A recent project known as the Australian Biomass for Bioenergy (ABBA) assessment<sup>3</sup>, collected, calculated and mapped, on a state-by-state basis, data on the location and potential volumes of biomass from a wide range of industries for inclusion on the National Map platform. Biomass sources that have been captured so far are listed below.

- a. Forestry - harvest and wood-processing residues
- b. Agriculture - broadacre cropping residues
- c. Agriculture - livestock manure residues
- d. Horticulture - intensive cropping residues
- e. Solid Organic Waste - Municipal Solid Waste (MSW); Construction & Demolition (C&D); Commercial and Industrial (C&I)

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<sup>1</sup> Timber Queensland

<sup>2</sup> CRCNA - Northern forestry and forest products situational analysis <https://crcna.com.au/file-download/download/public/400>

<sup>3</sup> <https://www.data.qld.gov.au/dataset/australian-biomass-for-bioenergy-assessment>

### 3. Project Scope

- 1) Conduct a comprehensive assessment of the existing and prospective volumes of underutilised or waste biomass generated by forestry and wood processing operations in local government areas (LGAs) covered by the Hub, as well as an assessment of existing or potential markets for commercial utilisation. The proposed project components are as follows:
  - Native and plantation forest resources – plantation silviculture (thinning, pruning), maintenance.
  - Harvesting residues– inventory and potential uses.
  - Wood processing and fabrication residues.
  - Pest species removal and associated initiatives (e.g., prickly acacia *Vachellia farnesiana*).
  - Mining and agricultural land use activities (i.e., biomass from land-clearing).
  - Estimated Biomass residues from past/future cyclone impacts.
- 2) Assessment of primary processing and value adding sectors' processing waste (including recycling and municipal waste wood collection services), logs from infrastructure works (including roads, power poles and mining activities), and treated wood waste from construction.
- 3) Subsequent assessment of existing or potential markets for commercial utilisation.

### 4. Methodology

The project/s in scope should identify and discuss the following key components:

- a. Location, volume, and quality of underutilized or waste biomass from forestry and wood processing operations – an up-to-date inventory as a first stage that will include a review of the available publications from previous projects and available databases as well as consultation with relevant stakeholders across the sector. This could be a stop-and-go process determining if there is an economically sized opportunity to continue the investigation. (The potential for volume consolidation and transportation to potential processing sites/areas should also be explored as part of this activity)
- b. Description of existing market uses of biomass residues in the region, and estimation of the proportion of biomass used in each market relative to the total volume of biomass produced, including waste biomass (i.e. destined for landfill).
- c. Based on the above steps, undertake an analysis of the potential expansion of existing and/or value adding processing of the identified volumes. (This may include conversion into wood pellets for domestic or commercial co-generation use, animal bedding or other uses in animal farms, briquetting, and wood plastic composites).
  - o Particular consideration for bio-char and biomass residue products including fertiliser.Subsequently, the top three value adding regional opportunities – based on their financial, environmental and employment potential - will be identified and described into more details (estimated cost, requirements, applicable standards, main users/markets).
- d. Existing Federal and state government policies and support programs for bioenergy and circular economy within the Hub Boundary.

- e. Other impediments or challenges regarding financial, regulatory, supply chain and institutional barriers.

**The project is expected to be completed using a combination of desk research and in-person / remote stakeholder consultation. All three project components (described above) could be delivered as part of a single consulting project or as separate projects by various consultants.**

[North Queensland Hub Boundaries](#)<sup>4</sup>

LGAs covered by the Hub include:

Aurukun Shire Council	Hinchinbrook Shire Council	Northern Peninsula Area Regional Council
Burdekin Shire Council	Hope Vale Aboriginal Shire Council	Pormpuraaw Aboriginal Shire Council
Burke Shire Council	Kowanyama Aboriginal Shire Council	Richmond Shire Council
Cairns Regional Council	Lockhart River Aboriginal Shire Council	Tablelands Regional Council
Carpentaria Shire Council	McKinlay Shire Council	Torres Shire Council
Cassowary Coast Regional Council	Mackay Regional Council	Torres Strait Island Regional Council
Charters Towers Regional Cook Shire Council	Mapoon Aboriginal Shire Council	Townsville City Council
Croydon Shire Council	Mapoon Aboriginal Shire Council	Whitsunday Regional Council
Doomadgee Aboriginal Shire Council	Mareeba Shire Council	Wujal Wujal Aboriginal Shire Council
Douglas Shire Council	Mornington Shire Council	Yarrabah Aboriginal Shire Council
Etheridge Shire Council	Napranum Aboriginal Shire Council	
Flinders Shire Council		

Consultation with businesses, state and municipal governments, and other relevant stakeholders, as well as local communities, is required for the project. Stakeholder interviews and/or consultation workshops must be done at least once during the report development process.

Key stakeholders to be consulted during the project include, but are not limited to:

- a. Forest growers,
- b. Harvesters & Processors
- c. Local, State and Commonwealth government and agencies as appropriate
- d. Transport and freight providers
- e. Municipal waste collection and disposal services / landfill / waste management
- f. Other groups as per the priority issues for the region, for example, relevant supply chain actors

## 5. Project Deliverables

Key deliverables include the completion of the following at the satisfaction of the Hub Committee:

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<sup>4</sup> <https://www.awe.gov.au/sites/default/files/documents/north-queensland-rfh.pdf>

- Detailed project plan, including stakeholder identification and consultation methodology is completed by applicant
- Draft reports are completed and presented to the Hub Committee at different stages of the project life (as agreed)
- Final report is completed and presented to the Hub Committee before the project completion.

## 6. Project Timeline

The project is scheduled to begin in July/August and to conclude within 3 months of the project start date.

## 7. Indicative Budget

This project comes with a **\$75,000** indicative budget cutoff for applications.

## 8. Selection Criteria

The Hub will select the successful applicant for the report based on evaluation of all submitted proposals against the following criteria.

### **CRITERIA 1: Capabilities and expertise in producing technical reports**

To address this selection criterion, the expression of interest should describe the following:

- Applicant's ability to produce high quality technical reports (e.g. related experience preparing reports for alternate clients)
- Contact details of two previous clients for which the applicant has produced similar reports, including company position, telephone, and email address, that the Hub can contact as referees
- Examples of any publicly or commercially available reports that the applicant has produced

### **CRITERIA 2: Capabilities and expertise in the utilisation of waste biomass, particularly wood (forestry operations, value-adding processing and potentially recycled wood).**

To address this selection criterion, the expression of interest should describe the following:

- Applicant's experience, skills and capabilities relating to the project's scoping requirements identified in Item 3 above
- Examples of any publicly available reports that the applicant has produced related to the utilisation of waste biomass, particularly wood

### **CRITERIA 3: Knowledge and experience of the project team members in the forestry sector or close associated sectors (research and education, agriculture) and the profile of the key point of contact and project team**

To address this selection criterion, the expression of interest should provide the following:

- An overview of the applicant's organisation and business operations
- An overview of the proposed project team
- A brief description of each project team member's professional experience; highlighting their relevant experience and capabilities in relation to the project requirements
- A key point of contact for the Hub who will act as the project manager for the project

#### **CRITERIA 4: Total cost and cost structure (against the identified deliverables)**

To address this selection criterion, the expression of interest should provide the following:

- Total cost that will be charged, inclusive and exclusive of GST, for completing the project
- Break down of cost structure against key project deliverables

The Hub may additionally request candidates to engage in interviews and/or to present their plans formally as part of the selection process.

#### **CRITERIA 5: Proposed methodology to achieve the scope of works**

To address this selection criterion, the expression of interest should provide the following:

- An outline of the proposed methodology and/or approaches to be adopted to achieve the scope of works and deliverables, including an outline of a project plan, the factors they believe will be critical to the success of the project, as well as their design methods and approaches to the management of challenges and risks.

## **9. EOI Terms and Conditions**

### **EOI Terms and Conditions**

1. A party seeking to express interest in applying for this must do so by submitting a completed EOI form, addressing criteria 1-5, sent to the listed address, no later than the closing date and time, stated in the EOI.
2. Each party who submits an EOI Form agrees to be bound by the terms and conditions set out in this information package.
3. Within the EOI Form, all prices must be stated inclusive of Goods and Services Tax (GST).
4. Each EOI submission will constitute a legally binding offer by the submitting party to produce a Report(s), and in accordance with the terms of, the completed EOI Form.
5. The NQFHub is not bound to accept any EOI submission.
6. In circumstances where an applicant, within its EOI submission, offers to produce one or more Reports, the price offered for each Report constitutes a separate offer capable of acceptance by the Hub unless the price is specifically noted as being part of a discount package.
7. EOIs may be submitted by any person or entity, including:
  - 7.1. Not-for-profit community groups.
  - 7.2. Commercial organisations; and
  - 7.3. Private Individuals.
8. All queries regarding this EOI process must be directed to the Hub General Manager

9. Prospective parties must bear their own costs and expenses relating to their participation in this EOI process.
10. During the assessment process, applicants may be contacted by the Hub to provide further information about the application. Failure to provide any requested information in a timely manner may result in the application being rejected.
11. The form of agreement which will come into place on acceptance of the successful tender response.
12. The invoice shall be sent, within 30 days of the end of the Contract to the Hub Manger. h.king@nqfh.com.au quoting the Contract name. The NQFHub Inc undertakes to pay correctly submitted invoices within 30 days of receipt. The NQFHub Inc shall not be responsible for any delay in payment caused by an incomplete or illegible invoice. Administration Expressions of interest must be submitted by 25/07/2022. Late applications will not be considered.

### **Notification of Outcome**

It is currently anticipated that the Hub will advise the successful party (or parties) that their EOI submission has been accepted by no later than close of business 25/07/2022

A successful party must, upon notice by the Hub that its offer(s) has been accepted, return to the Hub a duly signed agreement within 7 days.

### **Confidentiality**

The Hub will use and disclose the information provided by applicants for the purposes of discharging their functions under this Information Package and otherwise for the purposes of developing and delivering the Reports and related uses.

### **Publicity of Successful Applicants**

There may be a public announcement of successful applicants. Prior to each announcement, successful applicants will be notified of the outcome of their application. The public announcement may include details of successful applicants, the nature of the Report and timing schedules.

### **Disclaimer**

Although care has been taken in the preparation of this document, no warranty, express or implied, is given by the Hub as to the accuracy or completeness of the information it contains. The Hub accepts no responsibility for any loss or damage that may arise from anything contained in or omitted from or that may arise from the use of this document, and any person relying on this document and the information it contains does so at their own risk absolutely.

The Hub does not accept liability or responsibility for any loss incurred by any applicant that is in any way related to this EOI process or related to production of Assessment Reports pursuant to this EOI.

## Attachment 1: EXPRESSION OF INTEREST FORM

### Assessment of the current and future potential volume of underutilized or waste biomass from local forestry and wood processing activities

#### PART A: Applicant Details

Lead Organisation Name	
Address	
Primary Contact Name	
Position Title	
Telephone	
Email	

#### Part B: Selection Criteria

##### CRITERIA 1: Capabilities and expertise in producing technical reports

To address this selection criterion, the expression of interest should describe the following:

- Applicant's ability to produce high quality technical reports (e.g. related experience preparing reports for alternate clients)
- Contact details of two previous clients for which the applicant has produced similar reports, including company position, telephone and email address, that the Hub can contact as referees
- Examples of any publicly available reports that the applicant has produced

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**CRITERIA 2: Capabilities and expertise in the utilisation of waste biomass, particularly wood**

To address this selection criterion, the expression of interest should describe the following:

- Applicant’s experience, skills and capabilities relating to the project’s scoping requirements identified in Item 3 above
- Examples of any publicly available reports that the applicant has produced related to the utilisation of waste biomass, particularly wood.

**CRITERIA 3: Key point of contact and project team**

To address this selection criterion, the expression of interest should provide the following:

- An overview of the applicant’s organisation and business operations
- An overview of the proposed project team
- A brief description of each project team member’s professional experience; highlighting their relevant experience and capabilities in relation to the project requirements
- A key point of contact for the Hub who will act as the project manager for the project

**CRITERIA 4: Total cost and cost structure**

To address this selection criterion, the expression of interest should provide the following:

- Total cost that will be charged, inclusive and exclusive of GST, for completing the project
- Break-down of cost structure against key project deliverables

**CRITERIA 5: Proposed methodology to achieve the scope of works**

To address this selection criterion, the expression of interest should provide the following:

- An outline of the proposed methodology and/or approaches to be adopted to achieve the scope of works and deliverables, including an outline of a project plan, the factors they believe will be critical to the success of the project, as well as their design methods and approaches to the management of challenges and risks.