



**Blanca de Ulibarri**

Project Manager



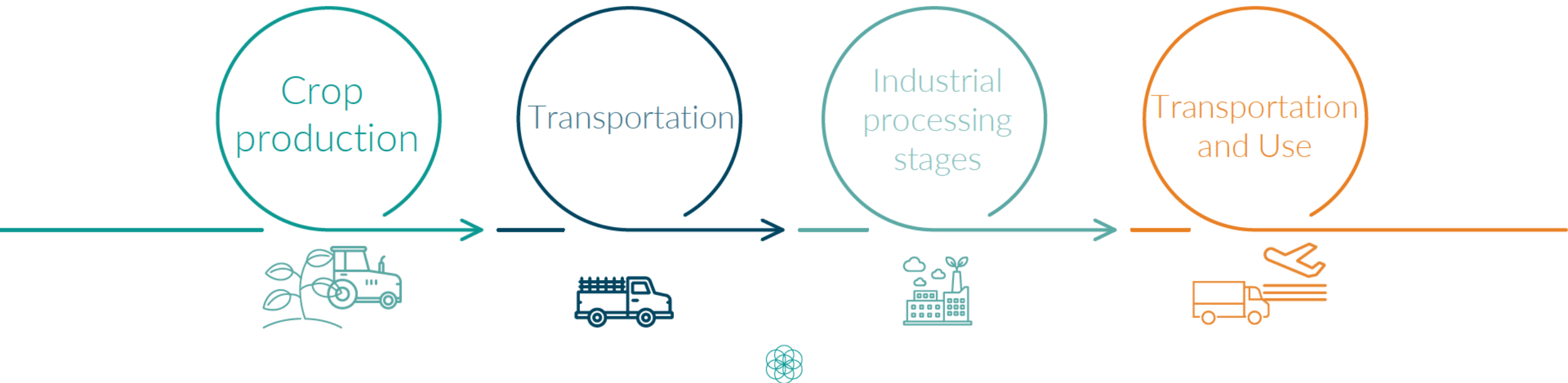
# Current approach

## RSB Japan Fit Standard

The RSB Japan FIT Standard **ALREADY** requires the calculation of **GHG emissions** along the **supply chain** so that **each batch** of RSB Japan certified material has a **GHG intensity** associated with it.

The **biomass producer** or **trader** shall calculate the GHG emissions along the supply chain related to the **collection, transport** and **processing** of biomass from the Point of Origin to the point of delivery.

The calculation shall follow the methodology laid out in the RSB GHG calculation Methodology [RSB-STD-01-003-01].

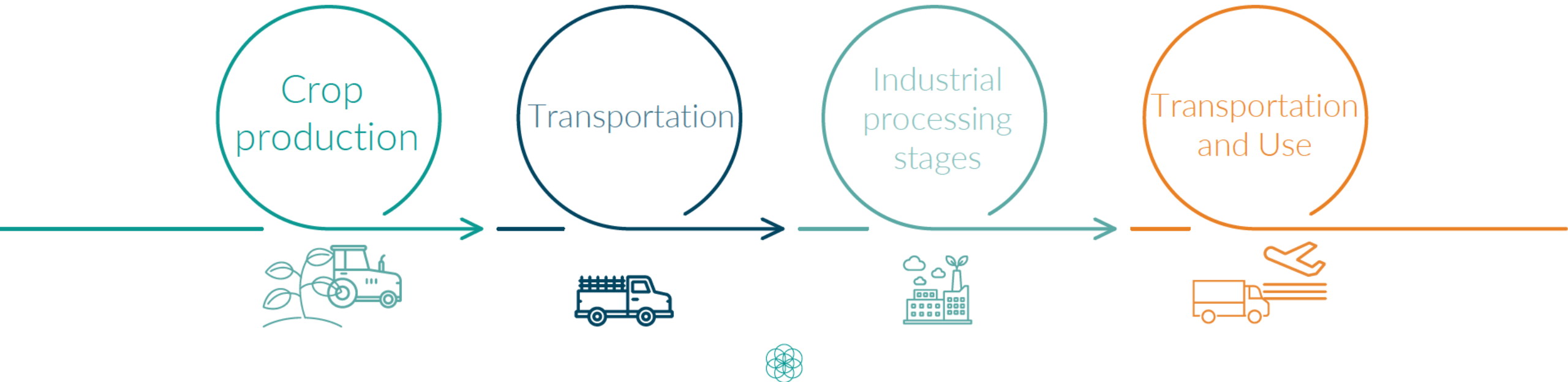


# Current approach

## RSB Japan Fit Standard

Currently, the **scope** of the RSB Japan FIT Standard **DOES NOT COVER** the **generation of electricity**, **only biomass production and trade**. So far, RSB **DOES NOT REQUIRE** a specific **GHG reduction** for the certified biomass\*.

*\* Should Japan's regulations require the certification of electricity production, RSB will define a baseline and include targets based on the requirements set by METI as well as the RSB Principles & Criteria.*



# Life-cycle GHG calculation methodology

	RSB GHG methodology	New rules under FIT System	Aligned with new rules for the FIT system?
1 Types of GHGs and GWP	<ul style="list-style-type: none"> <li>✓ CO2: 1</li> <li>✓ CH4: 24</li> <li>✓ N2O: 298</li> </ul>	<ul style="list-style-type: none"> <li>✓ CO2: 1</li> <li>✓ CH4: 25</li> <li>✓ N2O: 298</li> </ul>	<ul style="list-style-type: none"> <li>✓ <u>Partially</u>. GWP for CH4 is different.</li> </ul>
2 Boundary/scope	<ul style="list-style-type: none"> <li>✓ Carbon stock changes including LUC, cultivation, processing, transportation, and power generation.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Carbon stock changes including LUC, cultivation, processing, transportation, and power generation.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Yes. Under RSB methodology, cultivation also includes emissions from N losses from the application of fertilizers (e.g., volatilization, leaching).</li> </ul>
3 Emissions from construction of facilities	<ul style="list-style-type: none"> <li>✓ Not included</li> </ul>	<ul style="list-style-type: none"> <li>✓ Not included</li> </ul>	<ul style="list-style-type: none"> <li>✓ Yes.</li> </ul>
4 CO2 capture and sequestration	<ul style="list-style-type: none"> <li>✓ Can be considered as emission reductions if evidence is provided.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Can be considered as emission reductions if they can be avoided.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Yes.</li> </ul>

# Life-cycle GHG calculation methodology

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CO2 capture and sequestration

## RSB GHG methodology

- ✓ CO2 from biogenic origin: the operator shall provide evidence that the unit which generates the biogenic waste gas does not consider the captured greenhouse gas as a credit in an LCA for any other purpose (e.g. voluntary disclosure, obligatory calculation etc.).

*\* Under discussion and approval (PtX amendment of the RSB Advanced Fuel Standard).*

## New rules under FIT System

- ✓ CO2 from biogenic origin: can be considered as emission reductions if they can be avoided.

## Aligned with new rules for the FIT system?

- ✓ Not sure.

# Life-cycle GHG calculation methodology

	RSB GHG methodology	New rules under FIT System	Aligned with new rules for the FIT system?
6 Emissions from transportation	<ul style="list-style-type: none"> <li>✓ One-way approach</li> </ul>	<ul style="list-style-type: none"> <li>✓ Round-trip approach</li> </ul>	<ul style="list-style-type: none"> <li>✓ <u>No, but easy to adapt.</u></li> </ul>
7 Losses/filling/blending at transportation stage	<ul style="list-style-type: none"> <li>✓ Losses are included. Electricity and head used during filling, blending, and/or storage processes are also included in the transportation stage.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Not clear.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Not clear.</li> </ul>
8 Power generation	<ul style="list-style-type: none"> <li>✓ CO<sub>2</sub> emissions from use of biomass fuels are regarded as zero.</li> <li>✓ Emissions of CH<sub>4</sub> and N<sub>2</sub>O shall be included.</li> </ul>	<ul style="list-style-type: none"> <li>✓ CO<sub>2</sub> emissions from use of biomass fuels are regarded as zero.</li> <li>✓ Emissions of CH<sub>4</sub> and N<sub>2</sub>O shall be included.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Yes.</li> </ul>

# Life-cycle GHG calculation methodology

- 9 Allocation
- 
- 8 GHG savings requirement/target

## RSB GHG methodology

- ✓ Energy-based (LHV) for biofuels and economic-based for biomaterials.
  - ✓ RSB is currently discussing the exergy approach for RSB Global, same as used by EU RED, to allocate the GHG burden between electricity and heat.
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- ✓ For RSB Japan FIT, not established yet.

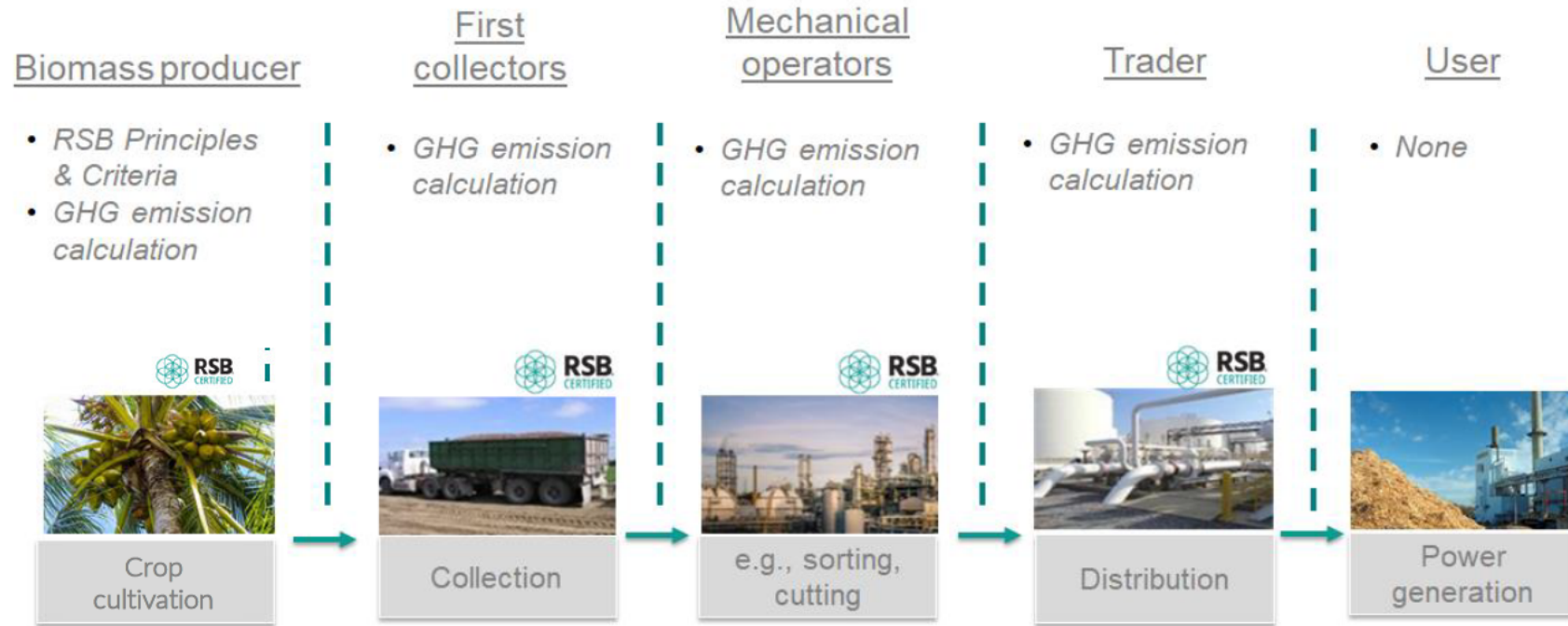
## New rules under FIT System

- ✓ Not clear
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- ✓ 50% for projects certified in FY2022 and FY2030.
  - ✓ 70% for fuels used in FY2030 and beyond.

## Aligned with new rules for the FIT system?

- ✓ Not clear
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- ✓ No, but RSB will include targets as soon as defined by the Japan FIT system (METI).

# Chain of custody





## Certification Bodies

- CB shall comply with all requirements of the international standard ISO/IEC 17065
- CB office performing audit shall be accredited to ISO 17065 (or justified equivalent), and to ISO 14065 (or justified equivalent) if performing actual value GHG audits.
- CB shall conduct the assessment of Greenhouse Gas calculations in line with the international standard ISO 14041 and ISO 14064-3.
- CB are trained for GHG emissions calculation under RSB Global, RSB EU RED and RSB CORSIA

# Holistic approach supporting our ambition to create positive impact



Principle 1  
Legality



Principle 2  
Planning, Monitoring  
& Improvement



Principle 3  
Greenhouse Gas  
Emissions



Principle 4  
Human & Labour  
Rights



Principle 5  
Rural & Social  
Development



Principle 6  
Local Food  
Security



Principle 7  
Conservation



Principle 8  
Soil



Principle 9  
Water



Principle 10  
Air Quality



Principle 11  
Management of  
Inputs & Waste



Principle 12  
Land Rights

Legal

Management

Environmental

Social



# Questions and discussion



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