

# Preliminary Assessment Public Summary

This *Preliminary Assessment Public Summary*, prepared by Puro.earth, contains general information about the CO<sub>2</sub> Removal Supplier and its project, as evaluated at the time of the Preliminary Assessment (PA). It also includes a *Non-Technical Project Summary* and a *Criteria Assessment Report* detailing: i) key criteria assessed and their associated outcomes, ii) Puro’s comments, and iii) evidences provided by the CO<sub>2</sub> Removal Supplier.

The *PA Public Summary* serves as a transparent communication tool, enabling potential investors, buyers, and stakeholders to quickly understand the supplier’s carbon removal capabilities and assessment status.

The supplier has also received an extended *Preliminary Assessment Report*. This confidential document offers in-depth insights, including specific remarks and actionable recommendations to guide the supplier’s progression through the certification journey.

## 1. Supplier and Project Information

CO <sub>2</sub> Removal Supplier	
<b>Company name</b>	BioCirc Carbon and Renewables ApS
<b>Company address</b>	Amaliegade 22, Copenhagen, 1256, Denmark
<b>Business ID</b>	DK44747987
<b>KYC status</b>	KYC Completed
CO <sub>2</sub> Removal Project	
<b>Methodology</b>	<b>Geological Carbon Storage, Edition 2024</b>
<b>Production Facility name</b> (5 facilities)	BioCirc Favrskov CCS K/S, BioCirc Grønhøj CCS K/S, BioCirc Haderslev CCS K/S, BioCirc Vesthimmerland CCS K/S, BioCirc Vinkel CCS K/S
<b>Facility registration date</b>	25-11-2024
<b>Production Facility ID</b>	807690, 308567, 162153, 940890, 730842
<b>Production Facility location</b>	BioCirc Favrskov CCS K/S, Fuglsangvej 100, 8450 Hammel BioCirc Grønhøj CCS K/S, Mønstedvej 32 A 7470 Viborg BioCirc Haderslev CCS K/S, Hejager Næsvej 137A, 6100 Haderslev BioCirc Vesthimmerland CCS K/S, Holmevej 100, 9640 Farsø BioCirc Vinkel CCS K/S, Vasehøjvej 16, 7840 Højslev
<b>Host Country of removal</b>	Denmark
<b>Has this facility been registered in another registry?</b>	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes, additional information:
Preliminary Assessment Details	
<b>Date of assessment</b>	12-08-2025
<b>Status of assessment</b>	Final
<b>Conclusion of assessment</b>	Passed

## 2. Non-Technical Project Summary\*

BioCirc is developing a Bioenergy with Carbon Capture and Storage (BECCS) project located in Denmark across several of BioCircs already operational biomethane plants. The project will capture biogenic CO<sub>2</sub> that would otherwise be released into the atmosphere from 5 industrial biomethane facilities primarily based on agricultural waste like manure. The captured CO<sub>2</sub> will be liquified on-site, transported to Esbjerg Port to be shipped for permanent storage in the offshore Nini West reservoir off the west coast of Denmark. The project will store ~138,000 tons of CO<sub>2</sub>/year with operations beginning in 2026, with potential to scale capacity to BioCircs remaining facilities. The full value chain will be closely monitored to ensure transparency and integrity of the generated Carbon Dioxide Removal (CDR) Credits. The Project has received a partial subsidy from the Danish Energy Agency, but must be fully financed through the sale of CDR credits.

\*Added by the supplier. Between 150-200 words

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### 3. Criteria Assessment Report

Reminder: Criteria/Sub-criteria assess either the *technical eligibility* of the facility or its *maturity and quality*, determining whether the facility qualifies for CO<sub>2</sub> Removal Certificates (CORCs) and evaluating its development stage and operational quality. There are three types of sub-criteria:

- Required to be Passed:** These core criteria are crucial for determining the Supplier's facility eligibility as they may be otherwise impossible or costly to change at a later stage. For example, if the supplier is at a such an early stage of development that the *capture technology is not yet identified*, the PA won't be able to provide useful insights regarding the facility's eligibility.
- Required to be Assessed:** These criteria are important for evaluation, but they do not necessarily determine whether the facility will pass or fail at this stage. Suppliers may be at different stages of development, and some criteria (e.g., demonstrating the necessary permits) may not yet be fully met. In such cases, disclosing the status of permit acquisition is sufficient.
- Not Required:** These criteria are optional and do not impact the facility's eligibility for listing at this stage. They may provide additional context or information about the facility's maturity but are not essential for passing the preliminary evaluation.

For a facility to be considered eligible for listing, all the sub-criteria that condition eligibility must be met (i.e. passed or assessed), as specified in Table 1. **If any of these critical sub-criteria are not met, the facility will not be eligible for listing in its current development stage.**

Disclaimer: The assessment has been made against the criteria in the current version of the methodology. Puro.earth relied on the CO<sub>2</sub> Removal Supplier for the correctness of the provided information during the time of the PA and will make no representation as to the accuracy or completeness of this report. The CO<sub>2</sub> Removal Supplier must undergo a third-party audit before issuing CO<sub>2</sub> Removal Credits (CORCs). **Passing the PA does not guarantee a success in the third-party audit.**

Table 1. Criteria and sub-criteria assessment by Puro based on the documents submitted in the Audit Package.

ID	Criteria / Sub-Criteria	Outcome	Comment	Evidence Received	Required to be Listed	Purpose of Criteria
c1	Planned CO <sub>2</sub> capture technology is technically sound	Passed				
c1.1	Captured CO <sub>2</sub> stream contains eligible CO <sub>2</sub> (atmospheric or from eligible biomass sources). If the captured CO <sub>2</sub> stream also contains non-eligible CO <sub>2</sub> , the fraction of	Passed	The biogenic CO <sub>2</sub> stream is separated during the upgrading of raw biogas to biomethane and captured. Some of the biomass feedstocks processed may	0924_BioCirc BECCS project information note.pdf	Required to be passed	Technical eligibility

	<i>the non-eligible CO<sub>2</sub> can be determined or is already known.</i>		contain a share of non-eligible biomass. These fractions remain to be determined.			
c1.2	<i>Captured CO<sub>2</sub> stream consists overwhelmingly of carbon dioxide (i.e. &gt; 95%)</i>	Passed	The captured CO <sub>2</sub> stream will consist mostly of CO <sub>2</sub> , as the biogas upgrading process effectively separates CH <sub>4</sub> from CO <sub>2</sub> and other raw biogas constituents via amine or membrane separation, while cleaning, purification and liquefaction further enhances CO <sub>2</sub> purity. The liquefied CO <sub>2</sub> stream is expected to exceed 99% purity, meeting food-grade standards with minimal moisture and oxygen content and be compliant with the requirements of the CO <sub>2</sub> storage operator.	0924_BioCirc BECCS project information note.pdf;	Required to be passed	Technical eligibility
c1.3	<i>One or more options of capture technology have been identified</i>	Passed	The retrofitted biogas plants already use amine or membrane separation to separate CH <sub>4</sub> from CO <sub>2</sub> and other constituents in raw biogas produced from the anaerobic digestion of multiple biomass feedstock types. This will be followed by a liquefaction process that includes scrubbing and filtration, purification, compression, and cooling of the captured CO <sub>2</sub> .	0924_BioCirc BECCS project information note.pdf; BioCirc CCS-company and contract structure.pptx	Required to be passed	Technical eligibility
c1.4	<i>Annual CO<sub>2</sub> capture capacity has been evaluated</i>	Assessed	The CO <sub>2</sub> Removal Supplier has estimated the capture capacity for all 5 of their biogas plants to be 138,000 tonnes CO <sub>2</sub> per year. This estimate is based on capture efficiency and potential downtime.	0924_BioCirc BECCS project information note.pdf;	Required to be assessed	Maturity & Quality
c1.5	<i>Capture technology design has been decided, contracted, or purchased</i>	Assessed	The capture technology design has been decided and contracted. Construction of the capture infrastructure (e.g. liquefaction modules) has been initiated across the sites.	0924_BioCirc BECCS project information note.pdf; BioCirc CCS-company and contract structure.pptx	Required to be assessed	Maturity & Quality
c1.6	<i>Capture technology is vetted, regarding technical performance</i>	Assessed	Amine- and membrane-based carbon capture and liquefaction/purification systems are well-established industrial technologies. Assumptions on their material and energy consumption have been provided in the preliminary LCA shared. At this stage, these individual components are expected to meet the technical requirements. Functional and performance testing, safety checks, documenting procedures, and verifying compliance with regulations and client requirements will be conducted prior to start of operations.	0924_BioCirc BECCS project information note.pdf; LCAscreening_CC_BioCirc_16.12.24.pdf	Required to be assessed	Maturity & Quality

c1.7	<i>Legal documentation of the capture site(s) has been planned or obtained</i>	Assessed	The existing biogas plants have obtained operational permits. These permits are in the process of being amended to enable the facility to install and perform carbon capture and processing activities. The permits are expected to be approved in 2025 and must be made available during the Facility Audit.	0924_BioCirc BECCS project information note.pdf; BioCirc_Authority process for CCS 23-05-25.docx	Required to be assessed	Maturity & Quality
<b>c2</b>	<b>For biogenic CO<sub>2</sub>: Planned biomass source(s) is(are) eligible</b>	<b>Passed</b>				
c2.1	<i>Biomass feedstock has been categorised (i.e. origin and type) in accordance with the latest version of the Puro Biomass Sourcing Criteria</i>	Passed	Biomass processed at the biogas plants is primarily from agricultural residues, animal manure, and other agricultural (e.g., straw) and industrial side streams (e.g., beet pulp, fish waste, food waste, slaughterhouse by-products, glycerin of various origin, soap stock). Energy crops (e.g., maize silage) are used to maintain stable gas production (usage in Denmark is currently capped at 6% per annum, and from September 2025 maize silage will not be allowed anymore).	0924_BioCirc BECCS project information note.pdf; BioCirc_Biomass types and origins list.xlsx; BioCirc_Biomass per Geography_0225.xlsx; BioCirc_Biomass consumption and geography_Q125.xlsx	Required to be passed	Technical eligibility
c2.2	<i>Biomass feedstock sustainability and traceability can be demonstrated to the level required by the Puro Biomass Sourcing Criteria</i>	Assessed	The CO <sub>2</sub> Removal Supplier has demonstrated the ability to record sustainability and traceability information. The biogas plants are continuously audited by third-party auditors to validate adherence to requirements establishing sustainable production of biomethane under the Danish Energy Agency. All biomasses fulfil sustainability and emission reduction criteria according to EU RED II. In addition, the CO <sub>2</sub> Removal Supplier audits the facility according to the voluntary system ISCC's (International Sustainability & Carbon Certification) requirements for sustainable biomethane annually. While all audits of the facility have been approved each year, additional evidence to substantiate EU RED II and ISCC compliance will be required to demonstrate how the evidence available meets the Puro Biomass Sourcing Criteria are met. A small share of the biomass processed may be considered ineligible (e.g. food crops or palm-derived residues, if certain sourcing criteria cannot be demonstrated).	Memo - Biomass handling at BioCirc.pdf; 07 ISCC EU Certification & PoS examples (folder);	Required to be assessed	Technical eligibility

c2.3	<i>Ecological leakage relating to the use of biomass feedstock is minimal</i>	Assessed	<ul style="list-style-type: none"> <li>For biomass feedstock sourced from agricultural activities, ecological leakage is expected to be minimal due to the sustainability requirements listed in the Biomass Sourcing Criteria that must be met. Meeting these requirements demonstrates that the impact of biomass sourcing on nearby ecosystems is minimal.</li> <li>Ecological leakage is not relevant for the biomass feedstock classified as waste requiring treatment.</li> </ul>	Memo - Biomass handling at BioCirc.pdf; 07 ISCC EU Certification & PoS examples (folder);	Required to be assessed	Technical eligibility
c2.4	<i>Market and activity shifting leakage relating to the use of biomass feedstock is minimal or addressed</i>	Assessed	<ul style="list-style-type: none"> <li>Market and activity shifting leakage relating to biomass feedstock diversion is deemed not relevant as this is a retrofit facility, and the biomass sources were already being digested at the facility prior to the installation of the carbon capture and storage process</li> <li>Land sector leakage relating to biomass or land use is relevant to consider for a minor proportion of the feedstocks processed at the biogas plants (e.g. wheat as a starch crop, and certain glycerin sources derived from biodiesel production from oil palm biomass). The evaluation of land sector leakage for these biomass sources is yet to be completed, but does not hamper the eligibility of the activity</li> </ul>	0924_BioCirc BECCS project information note.pdf	Required to be assessed	Maturity & Quality
c2.5	<i>Sourcing of biomass is secured (e.g. letters of intent, contracts)</i>	Assessed	Although no contracts or letters of intent were provided, records of biomass supplied to the facility were provided and an overview of contracts (durations, termination dates, counterparties) were provided. These suppliers are expected to continue supplying biomass to the biogas plants and contracts are expected to be available. Hence, biomass supply is deemed secured.	BioCirc - Major contract overview - November 2024.xlsx; BioCirc_Biomass per Geography_0225.xlsx; BioCirc_Biomass consumption and geography_Q125.xlsx	Not required	Maturity & Quality
<b>c3</b>	<b>Planned CO<sub>2</sub> logistics (processing, transport, intermediary storage) are technically sound</b>	<b>Passed</b>				
c3.1	<i>Full logistics chain (processing, transport, and intermediary storage) has been identified</i>	Passed	CO <sub>2</sub> generated at the facility is purified and liquified before being transported via insulated semi-trailers to an intermediate storage facility at the port of Esbjerg. The CO <sub>2</sub> is then transported offshore to the injection well by supply vessels and then injected into a depleted oil field in the North Sea off the Danish West coast. The full logistics chain has been identified and is	0924_BioCirc BECCS project information note.pdf; BioCirc_CO <sub>2</sub> _Logistics_Chain_Description.docx; Schedule 1 - Scope of Service.pdf	Required to be passed	Technical eligibility

			under establishment with closed contracts with all service providers. The logistics chain will need to be clearly described for the Facility Audit.			
c3.2	<i>Properties of the CO<sub>2</sub> stream to be transported are compatible with the logistics chain</i>	Assessed	<ul style="list-style-type: none"> <li>Throughout transport, CO<sub>2</sub> will be maintained in its liquid form to ensure compatibility with the entire logistics chain. This includes specialized insulated trucks for delivery to the intermediate storage at the port of Esbjerg, followed by shipment in specialized vessels equipped with insulated tanks. Specifications for transporting the CO<sub>2</sub> via truck are shared with the transport supplier.</li> <li>The CO<sub>2</sub> stream captured and liquefied at the biogas facility is expected to comply with the storage operator's requirements. The storage site operator requirements have been shared with the CO<sub>2</sub> Removal Supplier.</li> </ul>	0924_BioCirc BECCS project information note.pdf; Appendix 1_Term sheet_20240611; BioCirc_CO <sub>2</sub> _Logistics_Chain_Description.docx; Schedule 1 - Scope of Service.pdf	Required to be assessed	Maturity & Quality
c3.3	<i>CO<sub>2</sub> transport logistics is secured (e.g. letters of intent, contracts)</i>	Assessed	The CO <sub>2</sub> Removal Supplier has secured a transport supplier for the transportation of the CO <sub>2</sub> from the biogas facility to the intermediate storage facility in Esbjerg Harbor.	0924_BioCirc BECCS project information note.pdf; BioCirc CCS-company and contract structure.pptx	Required to be assessed	Maturity & Quality
c3.4	<i>Legal documentation of the logistics chain has been planned or obtained</i>	Assessed	As part of the scope of service established by the CO <sub>2</sub> Removal Supplier for the transport supplier, regulatory requirements have been identified and must be met, with relevant permits obtained or held by the transport supplier.	Schedule 1 - Scope of Service.pdf	Not required	Maturity & Quality
<b>c4</b>	<b>Planned CO<sub>2</sub> storage site(s) is(are) eligible</b>	<b>Passed</b>				
c4.1	<i>One or more options for eligible CO<sub>2</sub> storage sites have been identified and are meant solely for permanent storage (no enhanced hydrocarbon recovery)</i>	Passed	The designated CO <sub>2</sub> storage site is part of Project Greensand, located in a retired oil field within the Danish part of the North Sea. The permanent storage tank is located approximately 1,700 meters below the seabed. The storage site will not be used for enhanced hydrocarbon recovery (it is not permitted in Denmark to use CO <sub>2</sub> storage for EOR purposes).	0924_BioCirc BECCS project information note.pdf;	Required to be passed	Technical eligibility
c4.2	<i>Robust legal framework of the storage site jurisdiction(s) has(have) been demonstrated</i>	Assessed	The storage site is located in the North Sea under Danish jurisdiction. Denmark, a member state of the European Economic Area (EEA) Agreement, is a priori recognized for its robust legal framework supporting the environmentally safe geological storage of carbon dioxide.	0924_BioCirc BECCS project information note.pdf;	Required to be assessed	Technical eligibility

c4.3	<i>Relevant permits for the injection and storage of geological CO<sub>2</sub> have been planned or obtained</i>	Assessed	The CO <sub>2</sub> storage site has been verified as having developed an appropriate storage development plan to allow safe and effective geological storage. The CO <sub>2</sub> Removal Supplier has confirmed that the storage site operator submitted a permit application in 2024, which is awaiting approval.	Co81-DNVE-Z-VB-0001_o_IFU_2024-08-22_01.pdf; Co81-DNVE-Z-VB-0002_o_IFU_2024-08-22_01.pdf; Memo on MRV approach 14.04.2025.pdf	Required to be assessed	Maturity & Quality
c4.4	<i>Experimental/Computational procedures to characterize the storage site(s) have been identified, in progress, or completed</i>	Assessed	The storage site has been characterized in accordance with ISO 27914:2017 demonstrating the capacity of the intended storage site. The characterization of the storage site has been third-party verified.	Co81-DNVE-Z-VB-0002_o_IFU_2024-08-22_01.pdf	Required to be assessed	Maturity & Quality
c4.5	<i>Storage site for CO<sub>2</sub> is secured (e.g. letters of intent, contracts)</i>	Assessed	The CO <sub>2</sub> Removal Supplier has secured and closed contracts with the storage operator.	0924_BioCirc BECCS project information note.pdf; Storage_Provider_Erhvervsstyrelsen.pdf	Not required	Maturity & Quality
<b>c5</b>	<b>Additionality is demonstrated</b>	<b>Passed</b>				
c5.1	<i>Carbon additionality to the baseline</i>	Passed	Without the project, there would be no CO <sub>2</sub> removals, as the biogenic CO <sub>2</sub> generated during the production of biomethane via anaerobic digestion of biomass would continue to be released into the atmosphere.	0924_BioCirc BECCS project information note.pdf; Puro Additionality v1.9 BioCirc v02.docx	Required to be passed	Technical eligibility
c5.2	<i>Financial additionality</i>	Passed	Carbon removal credits are necessary to offset the substantial capital and operational expenses associated with CO <sub>2</sub> capture, transport, and storage. Without this revenue stream and despite receiving a partial subsidy by the Danish Energy Agency, the Supplier indicated that the internal rate of return would fall short of attracting the necessary investment.	0924_BioCirc BECCS project information note.pdf; Puro Additionality v1.9 BioCirc v02.docx; BioCirc_Overview. CAPEX and OPEX	Required to be passed	Technical eligibility
c5.3	<i>Regulatory additionality</i>	Passed	There are no legal mandates in Denmark requiring CCS implementation and is implemented voluntarily.	Puro Additionality v1.9 BioCirc v02.docx	Required to be passed	Technical eligibility
<b>c6</b>	<b>Environmental and social safeguards</b>	<b>Passed</b>				
c6.1	<i>Stakeholder consultations have been planned or conducted</i>	Assessed	Stakeholder consultations have already been conducted, including local communities, local authorities, landowners, and NGOs. The ongoing feedback and grievance mechanisms that will be implemented must still be clearly described for the Audit, ensuring that stakeholders can continue to submit feedback about CO <sub>2</sub> removal activities even after the end of the stakeholder consultation.	Puro Stakeholder Engagement Report - BioCirc v03.docx; BioCirc_Local site community engagement - Memo	Required to be assessed	Maturity & Quality

c6.2	<i>Applicable regulations for the geological storage activity have been identified</i>	Assessed	BioCirc has identified relevant EU and Danish regulations governing the environmental and social impacts of the geological storage activity—including CO <sub>2</sub> capture, transport, and storage.	0924_BioCirc BECCS project information note.pdf;	Required to be assessed	Maturity & Quality
c6.3	<i>Environmental and social permits, authorizations, and other <b>statutory</b> documentation have been identified, planned, or obtained</i>	Assessed	<ul style="list-style-type: none"> <li>• The biogas plants are already permitted by the local authorities, and it has been identified that amendments to the permits are required for the CCS activity. The environmental and social permits required have been identified, and the process to obtain them is known. The procedure is underway.</li> <li>• Regulatory requirements and permitting needs for the logistics chain are known, and the requirements are part of the transport provider's scope of service agreement.</li> <li>• Permitting procedures related to the storage site are identified and are ongoing.</li> </ul> <p>For all stages of the logistics chain, associated permits and statutory documents will need to be provided as part of the Facility Audit.</p>	0924_BioCirc BECCS project information note.pdf; BioCirc_Authority process for CCS 23-05-25.docx; BioCirc_CCS Authority Process flow diagram.pptx;	Required to be assessed	Maturity & Quality
c6.4	<i>Environmental and social safeguards assessment has been planned, drafted, or conducted</i>	Assessed	An EIA was conducted for the construction of the existing biogas plants and a screening process must be followed to determine whether the addition of a carbon capture unit requires an amendment to the existing EIA. The screening has been completed and amendments to the EIA were deemed sufficient.	BioCirc_Authority process for CCS 23-05-25.docx; Puro Environmental and Social Safeguard - BioCirc v03.docx	Required to be assessed	Maturity & Quality
c6.5	<i>Risk assessment has been planned, drafted, or conducted</i>	Assessed	A risk assessment of the likelihood and impact of identified risks on CO <sub>2</sub> removal has been conducted. Risks identified that may impact the quantity of CO <sub>2</sub> ultimately injected include technical and operational risks, contractual risks, regulatory risks, and financial and market risks. The risk assessment must be expanded to include potential environmental and social impacts.	0924_BioCirc BECCS project information note.pdf; Puro Environmental and Social Safeguard - BioCirc v03.docx; 13.4 HSE Management manual BioCirc.pdf; BioCirc_CCS_HSSE_Memo.pdf	Required to be assessed	Maturity & Quality
<b>c7</b>	<b>Facility has monitoring, reporting, and LCA capabilities or tangible plans for it</b>	<b>Passed</b>				
c7.1	<i>A monitoring plan has been drafted</i>	Passed	<ul style="list-style-type: none"> <li>• A preliminary monitoring plan of the end-to-end removal activity has been drafted, identifying the system boundaries/scope of the project (i.e., CO<sub>2</sub> capture, transport, and storage) and listing the main</li> </ul>	Memo on MRV approach 14.04.2025.pdf; List of devices requiring calibration	Required to be passed	Maturity & Quality



			<p>parameters needed to be monitored and calculated during operations.-.</p> <ul style="list-style-type: none"> <li>The preliminary monitoring plan does not yet include monitoring of social and environmental effects, which is required.</li> </ul>			
c7.2	<i>A monitoring plan specific to the storage site(s) has been drafted</i>	Assessed	<p>While a monitoring plan specific to the storage site has not yet been provided, the storage site has submitted a monitoring, measuring and verification plan to the Danish Energy Agency, for which a storage site endorsement certificate has been obtained. Detailed evidence of storage site monitoring is required to be made available for the Facility Audit.</p>	Memo on MRV approach 14.04.2025.pdf	Required to be assessed	Maturity & Quality
c7.3	<i>An LCA model specific to the facility's operation is prepared in line with the monitoring plan</i>	Assessed	<p>A preliminary LCA study has been conducted, indicating that LCA modelling has started. Project emissions have been estimated; however, not all emission sources have been included. The LCA model must comply with Puro's GSC Methodology - Edition 2024 and align with a more comprehensive monitoring plan enabling update of calculations at each monitoring period.</p>	0924_BioCirc BECCS project information note.pdf; Memo on MRV approach 14.04.2025.pdf; Storage_provider_Updated_LCA.pdf; Climate impact carbon capture.pdf; LCAscreening_CC_BioCirc_16.12.24.pdf	Not required	Maturity & Quality
<b>c8</b>	<b>Leakage sources (excluding those from the use of biomass feedstock) are determined</b>	<b>Passed</b>				
c8.1	<i>Leakage sources are identifiable, have been identified, and/or characterised</i>	Passed	<p>The project is categorized as a BECCS Retrofit. Hence, the following leakage sources have been identified:</p> <ul style="list-style-type: none"> <li>Potential ecological leakage due to construction works at the capture and storage sites, and the necessity to clear land at certain capture sites.</li> <li>Potential energy-related leakage due to the retrofit of the biogas plants.</li> </ul>	0924_BioCirc BECCS project information note.pdf; LCAscreening_CC_BioCirc_16.12.24.pdf	Required to be passed	Technical eligibility / Maturity & Quality
c8.2	<i>Procedures to assess mitigated leakage sources have been identified, planned or applied</i>	Assessed	<ul style="list-style-type: none"> <li>For ecological leakage, all constructions areas at the capture sites have been part of the existing biogas plants' land designated for industrial purposes before start of the BECCS-project and no ecological leakage on the surrounding areas is expected. . The new EIA screening processes concluded that no amendments to the existing EIA were required. The EIA screening including relevant considerations related to effects on the surrounding areas. It is noted that for two sites, below-ground high-voltage</li> </ul>	0924_BioCirc BECCS project information note.pdf; LCAscreening_CC_BioCirc_16.12.24.pdf Environmental permits and studies (collection of EIA screening documents and municipal decisions for each site)	Required to be assessed	Technical eligibility / Maturity & Quality

			<p>cables will be installed on the surrounding farmland, but this is not expected to entail any negative ecological leakage.</p> <ul style="list-style-type: none"> <li>The retrofit of the biogas plants is not expected to affect negatively the generation of biogas, albeit this remains to be confirmed. Hence, energy-related leakage due to the retrofit of the biogas plants is likely mitigated.</li> </ul>			
c8.3	<i>Procedures to quantify non-mitigated leakage sources have been identified, planned or applied</i>	Assessed	The preliminary leakage assessment indicates that identified leakage sources will be mitigated, and hence quantification is not applicable.	0924_BioCirc BECCS project information note.pdf; LCAscreening_CC_BioCirc_16.12.24.pdf	Required to be assessed	Technical eligibility / Maturity & Quality
<b>c9</b>	<b>Facility has likely co-benefits and positive SDG impacts</b>	<b>Passed</b>				
c9.1	<i>Facility-specific co-benefits have been identified</i>	Assessed	Positive impacts identified for the biogas facility with CCS include environmental and biodiversity impacts resulting from decarbonization of agricultural emissions, renewable energy generation, proper waste management and reduced chemical runoff, and soil health and nutrient recovery. The retrofitting of the biogas facility with carbon capture technology is expected to deliver additional co-benefits that include socioeconomic impacts in the form of rural economic development and energy security, as well as technological impacts related to innovation and development.	0924_BioCirc BECCS project information note.pdf;	Required to be assessed	Maturity & Quality
c9.2	<i>Facility-specific SDG targets or indicators have been identified</i>	Assessed	No specific SDG targets or indicators have been identified.	0924_BioCirc BECCS project information note.pdf; Puro SDG Report.docx	Required to be assessed	Maturity & Quality
c9.3	<i>NDCs commitments, or other net-zero plans relevant to Article 6 of the Paris Agreement of the host country have been identified</i>	Assessed	The subsidy received by the CO <sub>2</sub> Removal Supplier from the Danish NECCS fund is in alignment with Denmark's climate objectives. The Climate Act commits Denmark to a 70% reduction in emissions by 2030. It is understood that the geological storage of carbon is aligned with relevant frameworks and should contribute to the country's overall emission reduction goals.	Appendix 1 - European Commission's Decision State Aid SA.108284 (2023N) of 20.12.2023.pdf	Not required	Maturity & Quality
<b>c10</b>	<b>Facility team has access to relevant knowledge and skills</b>	<b>Passed</b>				

c10.1	<i>Relating to CO<sub>2</sub> capture</i>	Assessed	Specialized operators will be responsible for each stage of the BECCS/Bio-CCS Facility, bringing specialised skills and experience for each stage of the supply chain.	1.4. BioCirc CCS project team_14.01.2025 (002).pptx	Not required	Maturity & Quality
c10.2	<i>Relating to CO<sub>2</sub> logistics (transport)</i>	Assessed			Not required	Maturity & Quality
c10.3	<i>Relating to geological storage of CO<sub>2</sub></i>	Assessed			Not required	Maturity & Quality
c10.4	<i>Relating to monitoring and emission accounting</i>	Assessed			Not required	Maturity & Quality