**UNDP/GEF Terminal Evaluation**

**Management Response**

Project Title: BRA/10/G31 - Sugarcane Renewable Energy (SUCRE)

Project PIMS #: 3515

Terminal Evaluation Completion Date: December 2020

| **Key Issues and Recommendations** | **Management Response\*** | **Tracking\*\*** |  |
| --- | --- | --- | --- |
| **Response** | **Key Actions** | **Timeframe** | **Responsible Unit(s)** | **Status\*\*\*** | **Comments** |
| 1. UNDP and CNPEM-LNBR should continue to promote and disseminate the scientific papers and knowledge products generated by the project, including by reaching out again to the MCTI and MME. | LNBR has developed a webpage dedicated to the project (Portuguese and English versions) in the laboratory website with information, data, contacts, reports, booklets, scientific papers, and the great majority of the content produced during the execution of SUCRE. The information can be found here: <https://lnbr.cnpem.br/sucre-project/>. Scientific papers continue to be submitted and published in relevant scientific journals (Check out the latest one:<https://www.sciencedirect.com/science/article/abs/pii/S0959652620353634?via%3Dihub>). The results of the project continue to be disseminated in ministerial meetings whenever possible. | 1. Maintenance of the content of the SUCRE webpage on LNBR's website.
2. Dissemination of results in ministerial meetings whenever possible.
 | June, 2020 | UNDP and CNPEM-LNBR | Completed | Please, find all SUCRE dissemination content at: <https://lnbr.cnpem.br/sucre-project/> |
| 2. UNDP and CNPEM should consider the design of a project with GEF or Green Climate Fund support to further support enhancement of the biomass generated power, considering its lack of negative externalities and alignment with the NDC target. Dimensions to be explored include support to development of second-generation biofuels, substitution of fossil fuels in harvest and transport operation of sugar mills and management of vinasse fertigation (the latter to reduce soil emissions and improve fertilizer management). | A PIF (Project Identification Form) has been drafted together with the RTA entitled “Accelerating the transition to circular economy in the sugar-energy sector (ACCESS)”. It is a full-size proposal with the goal to promote improved sugarcane industry waste management options (particularly vinasse) considering circular economy principles aiming at maximizing GHG emission reduction, while preserving soil quality, water resources and other sustainability issues. | 1. Drafting of a PIF for the valorization of waste from the sugar-energy industry.
 | June, 2020 | UNDP and CNPEM-LNBR | Completed | The PIF has not been endorsed so far due to the global pandemic situation and other issues related to the approval process of full-size projects with GEF funding. |
| 3. UNDP should identify partners to design a project to support development of solutions for mechanical harvest and biomass co-generation in the Northeast of Brazil. The Northeast is a relatively depressed region within the Brazilian union, where so far only manual harvest of sugarcane, with the necessary pre-harvest burning is possible. As the northeastern sugarcane industry operators do not seem to be able to develop solutions on their own, the catalytic effect of SUCRE in the Central-West region could be replicated by co-developing a solution that would enable mechanical harvest in steeper terrain. | In partial agreement since this action was not foreseen as one of the project’s outputs. However, UNDP will consider the recommendation for future projects proposals. | Articulation with key partners to identify opportunities to support the development of solutions for mechanical harvest and biomass co-generation in the Northeast of Brazil. | Continuous | UNDP CO | To be developed | No further comments |
| 4. At regional level, both for Latin America and Asia UNDP should strive to identify suitable implementation agencies, in the model of CNPEM-LNBR (responsible-partner type execution) to replicate SUCRE’s support to biomass generation. Priority countries could be Cuba and Argentina in Latin America and Thailand and the Philippines in Asia, which are not far behind Brazil in institutional and human development. | A concept note will be elaborated by RTA to highlight key characteristics and results of the SUCRE Project along with success factors such as the CNPEM-LNBR responsible partner type of execution. The concept note will further outline possible ways to financially and technically support the replication of the model and will be presented to Principal Technical Advisor for decision making. | Elaboration and presentation of Concept Note to Principal Technical Advisor. | July 2020 | UNDP regional offices LAC and AP | To be developed | No further comments |

\* Unit(s) assigned to be responsible for the preparation of a management response will fill the columns under the management response section.

\*\* Unit(s) assigned to be responsible for the preparation of a management response will be updating the implementation status. Assigned with an oversight function monitors and verifies the implementation status.

\*\*\* Status of Implementation: Completed, Partially Completed, Pending.