



Creating Markets, Creating Opportunities

Fostering sustainable vaccine manufacturing

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Fostering Sustainable Vaccine Manufacturing – Technical Assistance

IFC can support vaccine manufacturers optimize both new and existing facilities. From initial designs and preliminary diagnostics to actionable improvement plans with clear KPIs, we aim to create resource-efficient, green-certified facilities.

1



RESOURCE EFFICIENCY

Assess and improve **vaccine manufacturers' performance in energy, water use, renewable generation and material use efficiency:**

- Comparing them against **global industry benchmarks.**
- **Evaluating production processes** and utilities to identify gaps and propose improvements.
- **Including operational and production-based KPIs.**
- **Developing action plans** with specific investment needs.
- **Implementing a systemic approach to resource efficiency measurement,** target setting, reporting, and improvement.

2



SUSTAINABLE COOLING

Implement **business models for both new and existing facilities that prioritize efficient HVAC systems:**

- **Perform data measurement and analysis,** providing insights into the **performance of critical systems** such as furnaces, chillers, compressors, condensers, piping, etc
- **Provide tailored recommendations to reduce the carbon footprint of cooling systems.**
- Develop a decarbonization plan **setting GHG reduction targets for sustainable cooling systems.**

3



GREEN BUILDING CERTIFICATION

IFC' **EDGE toolkit** for green buildings

- Helps achieve a **lighter carbon footprint and optimize water and energy use.**
- Provides a metrics-driven approach to sustainability strategy **for both new and existing plants, focusing on savings in water, energy, and materials.**
- **Certifies with three ambition levels: EDGE, EDGE Advanced, and EDGE Net Zero.**
- **Globally, EDGE has certified over 60 million square meters,** significantly contributing to the transformation of the green building certification market.

Fostering Sustainable Vaccine Manufacturing – Financing

In addition to technical assistance, IFC can finance the identified investments through sustainability-linked financings



SUSTAINABILITY-LINKED FINANCING (SLF)

SLF is designed to incentivize borrowers to achieve ambitious, predetermined sustainability performance targets (SPTs). These loans/bonds can be structured in two categories:

1. **“Use of Proceeds”** – Green/Blue/ESG/ Social, which **is priced in the same way as any conventional debt instrument**.
2. **“Target-Driven”** – SLL/SLBs, which is **priced with interest rates indexed to sustainability performance targets (SPTs) with step up/ step down pricing mechanism, validated and implemented within a sustainability-linked financing framework (SLFF)**.

Description

- **Material, Relevant and Core to the business** and/or its ESG strategy, and **ambitious** compared to “business as usual” and peers.
- **SPTs rationale, ambitiousness and validation** methodology laid out in a SLFF validated by an independent SPO

KPIs

- Strong **historical track record** (at least 3 years).
- Small quantity of KPIs (**2 or 3 typically**).
- **Externally verifiable and/or able to be benchmarked**.

Pricing

- **Step up / step down** pricing mechanism indexed to performance on SPTs.

Verification

- **Second Party Opinion (SPO)** needed
- **Annual verification of achievement of targets needed**



1

IFC can help structure the **KPIs**, calibration of **SPTs**, drafting of the **framework** and review the **implementation plan**.

2

IFC can **facilitate procurement and verification endorsement**; but validation report needs to be written by SPO.

3

IFC can **structure and coordinate the SLL/SLB launch** included the issuance and the preparation for disclosure.

4

IFC can facilitate **contacts for target verification**; but the report must be written by SPO / audit company.

Thank you!



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