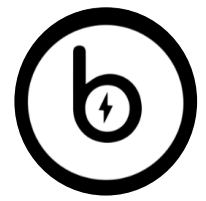


Name Bios
Website biotech.co
Year Launched 2019
Area Energy Efficiency & Indoor Farming



Description

Bios is an innovative technology that integrates indoor farming systems to recover wasted energy from buildings while producing sustainable food. This technology facilitates zero carbon buildings and can transform the future of Green Buildings. Today, Bios is developing their first pilot with NOVA University.

Impact in Numbers

No measurable impact outcomes as Bios is still developing their first pilot. Future data will include CO2 emissions avoided and Kg of sustainable food produced.



Impact Management Project assessment

What: With the building sector globally accounting for about 30% of the energy-related CO₂ emissions ([Energies, 2017](#)), Bios aims to significantly reduce buildings' environmental footprint through indoor farming systems powered by typically wasted energy. With more evidence, we expect to be able to claim a higher effect.

Who: Non-residential buildings waste on average 30% to 60% of their purchased electricity ([Energies, 2017](#)). This lack of efficiency means more CO₂ emissions, which are very harmful for the planet.

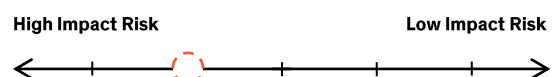
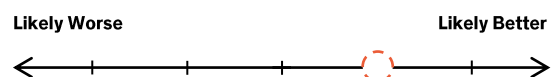
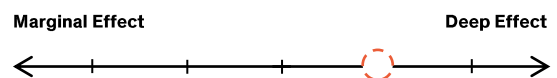
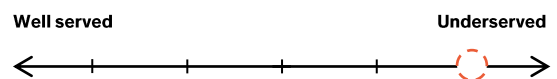
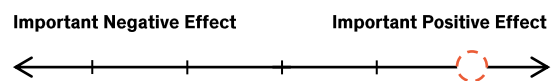
How much: The promising technology and inherent circularity of the solution point to a meaningful impact. However more data and traction are needed to support the claim.

Contribution: When usage data becomes available, we will be able to assess how the solution presented by Bios compares to existing alternatives.

Impact Risk: There is an execution risk, as the solution is still validating its ability to meet the desired outputs. We expect this risk to be mitigated over time.

SDG Analysis

Bios is focused on the sub-goal 11.6, by reducing the environmental impact of cities, and specifically on addressing the management of energy waste that is present in non-residential buildings.



Projected

Conclusion

According to the [IMP framework](#), we classify Bios as a B (Benefiting Stakeholders), with the potential to become a C (Contributing to solutions). Even though Bios does not yet have measurable outcomes, they are developing a solution that can have a significant impact in reducing the energy waste within non-residential buildings while producing sustainable food.