



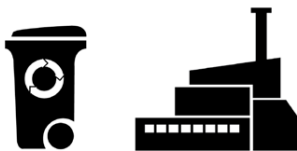
Reducing Greenhouse Gas Emissions through Inclusive Recycling

Methodology and Calculator Tool



The first methodology and calculator tool enabling the estimation of the amount of greenhouse gas emissions that waste picker groups prevent has been developed. It is currently being tested by waste picker organizations and their supporters around the world, and will be released for public use during 2020.

Amanecer waste picker cooperative in Buenos Aires reduces emissions by **68,757 tonnes of CO₂ equivalent/year** by substituting virgin raw materials with recyclables.



Recycling prevents the use of virgin raw materials, thereby avoiding greenhouse gas emissions. By calculating the quantities and types of materials that waste pickers collect for recycling, we can estimate the amount of greenhouse gases avoided.

Mbeubeuss dumpsite waste pickers in Dakar reduces emissions by **31,712.9 tonnes of CO₂ equivalent/year** by preventing materials from decomposing in the dumpsite.

By calculating the types and quantities of materials diverted from open dumps and landfills, we can estimate the amount of greenhouse gas emissions avoided.



Amanecer waste picker cooperative in Buenos Aires reduces emissions by **157 tonnes of CO₂ equivalent/year** by operating manual pushcarts on certain routes rather than conventional waste collection trucks.



By calculating the distances that waste pickers transport materials using manual equipment like pushcarts, we can estimate the amount of greenhouse gas emissions that are avoided by not using more energy-intensive forms of transportation, like trucks.

Kpone Landfill Association in Accra reduces emissions by **5.4 tonnes of CO₂ equivalent/year** by sorting materials manually instead of using more energy-intensive sorting technology.

By calculating the amounts and types of materials sorted manually, we can estimate the amount of greenhouse gas emissions that are avoided by not using more energy-intensive sorting equipment.



Amanecer waste picker cooperative in Buenos Aires reduces emissions by **43,082 tonnes of CO₂ equivalent/year** by integrating almost 2,000 waste pickers into a formal system, preventing open burnings.



By calculating the types and quantities of waste that waste pickers divert from open burning through developing a formal sorting and processing system we can estimate the amounts of greenhouse gas emissions avoided.

The Reducing Greenhouse Gas Emissions through Inclusive Recycling methodology was commissioned by WIEGO as part of the Reducing Waste in Coastal Cities project, which is funded by Sida. The methodology was developed by Green Partners environmental consulting, and is being tested by organizations of the Global Alliance of Waste Pickers.



JOIN US: Do you belong to a waste picker organization that collects and sorts large amounts of materials manually, and has the capacity to collect the data? If you would like to recommend a waste picker group for the piloting of this tool, please contact: taylor.casstabott@wiego.org