

Resource Recovery and safe Reuse (RR&R)

Implementing Resource Recovery and Safe Reuse (RRR) business models in Lima



Region
Peru

Partners
CARE, Eawag, Grupo GEA
IPES, seecon, STHP,
UNALM

Background information
The first phase (2012-2015) of RRR project identified promising business models for Lima's sanitation sector. Phase two (2016-2018) will support and promote the implementation of the most feasible business models.

Project objectives

- Promoting cost recovery in the sanitation sector
- Generating opportunities for entrepreneurs
- Increasing food security
- Safeguarding public health and environment

Beneficiaries
Entrepreneurs of small and medium RRR enterprises, poor households without access to sanitation, public authorities academy

Costs
CHF 366,000

Duration
08.2016 – 06.2018

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 Schweizerische Eidgenossenschaft
Confédération suisse
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Swiss Agency for Development
and Cooperation SDC

The growing demand in urban and peri-urban areas for food, energy and water is challenging the traditional distribution of resources, rural-urban resource flows, and nutritional cycles. For this reason, the recovery of water, nutrients and energy from liquid and solid waste generated in the sanitation systems becomes an increasing priority for public authorities. To reduce water, nutrient and energy scarcity, resource recovery in sanitation systems provide a key solution for sustainable natural resource management.

A changing climate and the city's annual population growth rate of 1.55% is increasingly challenging Lima's capacity to satisfy the population's need for water, energy and food. Enormous amounts of waste such as waste water, faecal sludge, organic waste, and used frying oil are disposed inadequately every day. Thus, the 'Resource Recovery and Safe Reuse' (RRR) Project rethinks sanitation systems and turning waste streams into physical and financial resource streams by ensuring and promoting safe reuse. It was initiated by the Swiss Agency for Development and Cooperation (SDC/Global Programme Water). The project aims at implementing business models for recovery and safe reuse and Sanitation Safety Plans in Lima as well as promoting cost recovery in the sanitation sector, generating livelihood opportunities for entrepreneurs and increasing food security for target populations, while safeguarding public health and the environment.

The project consists of the following components:

- Training Program in «Entrepreneurships in RRR» for promoting the startup of pilot projects in the field from the waste recovery is conducted;
- A Public-Private Working Group is formed and assisted by the RRR Consortium.

The project conducts the following technical activities:

- gathering data on Lima's sanitation eco-system,
- validating and consolidating feasible RRR business models,
- building capacities of public and private RRR entrepreneurs, and
- promoting and supporting the implementation of RRR businesses.



Political activities include:

- creating of an enabling institutional environment for RRR businesses,
- promoting the use of Sanitation Safety Planning on the institutional level,
- incorporating RRR businesses in the political agenda of local authorities,
- harnessing synergies with existing programs and initiatives,
- providing recommendations for policy makers, and
- identifying promising financial mechanisms.

Dissemination activities include (i) disseminating information material on RRR business models, (ii) communicating results, (iii) organizing events, and (iv) developing recommendations for replicability in other Peruvian cities.

Expected Outcomes

The expected results of the project are:

1. Business development at concerned local actors;
2. Local entrepreneurs implement financially viable business models for productive and safe reuse of water, nutrients, organic matter and energy from waste streams;
3. Enabling environment for RRR activities and Sanitation Safety Planning feeds into the policy and regulatory framework in Peru and raises awareness among authorities and the private sector;
4. Dissemination of the results of phase 2 among relevant actors in Lima leads to a safe and financially sustainable waste treatment.

Additional information:
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