



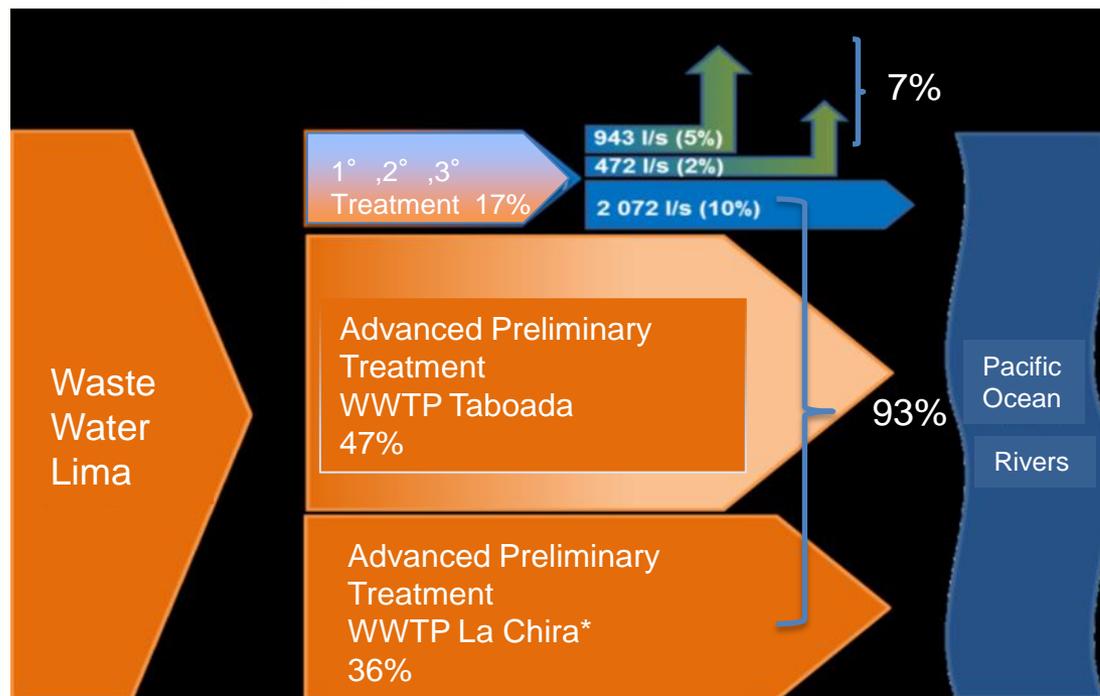
www.cca.org.pe

Towards wastewater reuse in Peru: Green spaces and wastewater treatment parks

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Blue Planet
Wasser Berlin International
Berlin, March 2017

State of wastewater in Lima, Peru



Wastewater 2015	l/s	%
Advanced Preliminary treatment *	7 200.15	36
Advanced Preliminary treatment	9 580.30	47
Primary treatment	84.7	0.5
Secondary treatment	3 092.74	15
Tertiary treatment	308.94	1.5
TOTAL	20 267.00	100

Final disposal (l/s)		
Ocean/rivers	Agriculture	Green areas
7 200.15		
9 580.30		
2 072.05	943.00	471.50
18 852.50	943.00	471.50
93.0%	4.7%	2.3%

Sanitation & wastewater	Lima	Outside Lima Urban	Outside Lima Rural
Sewage connection coverage	90%	70%	30%
Treated Wastewater from 2015*	100%	32% (EPS 2012)	N.A

* Lima Treated Wastewater 2015: 100%

* Public Private Projects (PPP) – BOT Contracts

- ❖ Discharges of untreated wastewater disposed directly into rivers, sea, lakes, irrigation channels or in green areas (parks, agriculture fields).
- ❖ Lack of compliance with legislation on Industrial wastewater discharges (VMA)



Image: OEFA - Environmental Assessment Directorate Peru

Sustainable Water and Wastewater Management in Urban Growth Centers Coping with Climate Change – Concepts for Lima Metropolitana (Peru) - LiWa“ – 2008-2013 (*extended till 2014). www.lima-water.de
BMBF Program: Future Megacities



Constructed wetland
(VFCW)

Reuse of wastewater

Source: Eisenberg, B., Nemcova, E., Poblet, R., Stokman, A., (2014): Lima Ecological Infrastructure Strategy: Integrated urban planning and design tools for water scarce cities, Institute of Landscape Planning and Ecology, Faculty of Architecture and Urban Planning, University of Stuttgart.
<https://limabeyondthepark.wordpress.com>

Lessons from Wastewater Park Children´s Park: *Holistic Concept Integration of wastewater reuse with sustainable urban planning, Water-sensitive urban design (WSUD), ecological services, green infrastructure and social inclusion.*

WASTEWATER AS A SAFE RESOURCE

New Legislation

- 23.12.2016: Law 1278 - Integrated Management of Solid Waste
- 25.01.2017: Regulation DS 2017 - Reuse of biosolids generated by wastewater treatment plans.

New Market

- Commercialization of Wastewater and Sub-products

R+D

- Nutrient recovery systems related to anaerobic digestion processes. Energy recovery from wastewater – UNI/CITRAR

Technical Assistance

- Support from German Cooperation GIZ: VMA industrial discharge, WWTP assessment 2015, technological support, etc.
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We invite you to join us in Expo Agua Peru 2017!



Muchas gracias!

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