



Green-Gray Assessment: How to Assess the Costs and Benefits of Green Infrastructure for Water Supply Systems

Developed by: **World Resources Institute**
 Launched in 2019

CATEGORY

Engaging Local Communities, Maximizing Water Benefits, Planning Forest-Related Projects, Valuing Trees and Forests

REGION

Applicable globally; Developed based on work in Latin America

FOREST LEVEL

Inner Forest & Nearby Forest

SCALE

Sub-national, Municipality, Project

RESOURCE TYPE

Guidance and Framework, Analysis Tool

EXPERTISE LEVEL

Specialist—experience with environmental economics and forest hydrology recommended

INPUT DATA REQUIRED

Information on water supply system, watershed conditions, ecosystem valuation, and more

OUTPUTS

Quantification of the financial, social, and environmental benefits for incorporating green infrastructure as well as a stakeholder map and stakeholder engagement strategy

LANGUAGE

English

COST

Free

ADDITIONAL GUIDANCE

Read an [overview of the tool](#).

CONTACT

Gabriela Morales, Manager of Water Management and Urban Resilience, WRI México:
gabriela.morales@wri.org

Why Use the Tool

The **Green-Gray Assessment guide** allows stakeholders to value the costs and benefits of integrating green or natural infrastructure into water supply systems to improve performance. Building on the latest applications of this work in Latin America, this guide overviews the green-gray assessment's three pre-assessment steps and six main steps and provides recommendations on how to present results. The guide can be used in conjunction with the **Natural Infrastructure for Aquifer Recharge Financial Calculator**, an Excel-based tool with a flexible financial model that estimates the private costs and benefits (including the return on investment) of natural infrastructure interventions designed to enhance aquifer recharge.

Recommended Tool

Cities4Forests recommends the Green-Gray Assessment guide as it provides essential analysis on the costs and benefits of green infrastructure. Although the guide focuses on case studies from Brazil and Mexico, the step-by-step methodology is suited for global contexts.

Past Use Cases

Green-gray assessments have been used throughout Latin America, including in Monterrey, Mexico; Rio de Janeiro, Brazil; and São Paulo, Brazil.

[Read more in the guide.](#)

