HYDROPOLITICS OF INTERREGIONAL WATER MANAGEMENT

Institutional Arrangements for Sustainable Water Access in Indonesia

Sri Maryati | I Gusti Ayu Andani | Faizal Rohmat
Institut Teknologi Bandung (ITB) • PRIMA Research 2026

ABSTRACT

Limited water sources force Indonesian cities to cooperate across jurisdictions. This study examines equitable access and governance in the Cisangkuy River area, Bandung Regency, amid competing domestic, agricultural and sectoral demands. Semi-structured government interviews and policy-document analysis highlight the interdependence of multiple levels of government and sectors. Safeguards are needed to protect domestic water access in water-scarce communities, even when other allocations are affected.

BACKGROUND

Water resources cross administrative boundaries, while water governance is fragmented. Unequal source availability and competing uses call for collaboration to ensure sustainable and equitable domestic water access.

RESEARCH OBJECTIVES

- Define sustainability indicators for domestic water supply.
- Examine institutional and intergovernmental collaboration.
- Identify barriers, opportunities and actor relationships.
- Develop a collaboration framework and governance recommendations.

CASE STUDY

Case study: Cisangkuy River, Bandung Regency, within the Bandung Metropolitan Area. Competing water demands across domestic supply, agriculture and other sectors create interregional governance challenges.

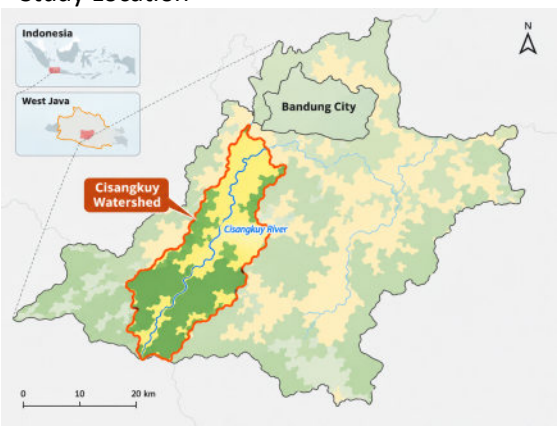
MIXED-METHODS APPROACH

- Policy review, literature study and official statistics.
- Questionnaires, field observations and semi-structured interviews.
- Inductive and deductive coding using ATLAS.ti.
- Triangulation of stakeholder and documentary evidence.

CONCLUSION

Equitable water access requires effective coordination across government levels and water-use sectors. Governance safeguards should prioritize domestic access in water-scarce communities, even when this entails reallocating water from competing uses such as agriculture.

Study Location



Framework



Interregional Water Management

