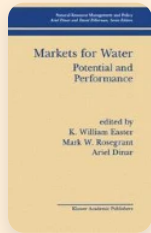


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# Meeting Water Needs in Developing Countries: Resolving Issues in Establishing Tradable Water Rights

| Chapter

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[Mateen Thobani](#)

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## Abstract

Recent approaches to meet the growing water demand have focused on voluntary mechanisms to conserve water and to reallocate it among competing uses rather than on developing new sources. They have also focused on alternative ways to finance the operations and management of existing infrastructure and the construction of new infrastructure. These approaches, referred to here as “market-based instruments for water management,” may be divided into three categories: pricing policies, informal water markets, and formal water markets.

While proponents recognize that such approaches will not resolve all water problems, they believe that they have many advantages over administrative mechanisms.

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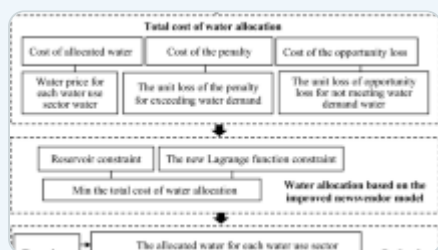
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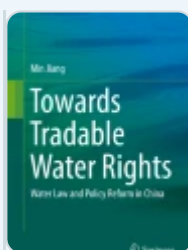
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## References

Hearne, Robert R., and K. William Easter. 1995. *Water Allocation and Water Markets: An Analysis of Gains-from-Trade in Chile*. World Bank Technical Paper No. 315. World Bank, Washington, D.C.

[Google Scholar](#)

Holden, Paul, and Mateen Thobani. 1995. "Tradable Water Rights: A Property Rights Approach to Improving Water Use and Promoting Investment," *Cuadernos de Economía*. No. 97. (December), p. 263–289.

[Google Scholar](#)

Kemper, Karin, Yarley Goncalves and William Brito. 1996. *Water Resources Allocation and Use in the Cariri Valley-Ceará, Northeast Brazil*. Linköping University, Linköping, Sweden.

[Google Scholar](#)

Meinzen-Dick, Ruth. 1996. *Groundwater Markets in Pakistan: Participation and Productivity*, IFPRI Research Report 105. International Food Policy Research Institute, Washington, D.C.

Pakistan Water and Power Development Authority. 1990. "Trading of Canal and Tubewell Water for Irrigation Purposes." P&I Publications 358 (December).

[Google Scholar](#)

Pigram, John J., Robert J. Delforce, Michelle L. Coelli, Vol Norris, George Antony, Raymond L. Anderson, and Warren Musgrave. 1993. "Transferable Water Entitlements in Australia," Report to the Land and Water Resources Research and Development Corp, Center for Water Policy Research, Armidale, Australia.

[Google Scholar](#)

Rios, Monica, and Jorge Quiroz. 1995. "The Market for Water Rights in Chile: Major Issues," *Cuadernos de Economia*, No. 97. (December), p. 317-345.

[Google Scholar](#)

Rosegrant, Mark W., and Renato Gazmuri Schleyer. 1995. "Reforming Water Allocation Policy through Markets in Tradable Water Rights: Lessons from Chile, Mexico and California," *Cuadernos de Economia*. No. 97. (December), p. 291-315.

[Google Scholar](#)

Saleth, R. Maria. 1996. *Water Institutions in India: Economics, Law and Policy* Institute of Economic Growth. Commonwealth Publishers, New Delhi, India.

[Google Scholar](#)

Shah, Tushaar. 1991. "Managing Conjunctive Water Use in Canal Commands: Analysis for Mahi Right Bank Canal, Gujarat." In Ruth Meinzen-Dick and Mark

Svendsen (eds.), *Future Directions for Indian Irrigation*. International Food Policy Research Institute, Washington, D.C.

[Google Scholar](#)

Tarrech, Ramón, Manuel Marino, and Glen Zwicker. 1994. "The Siurana-Riudecanyes Irrigation Subscribers Association and Water Market System." Draft Mimeo.

[Google Scholar](#)

World Bank. 1994. *Peru: A User-Based Approach to Water Management and Irrigation Development*. Report Number 13642-PE. World Bank, Washington, D.C.

[Google Scholar](#)

World Bank. 1993. *Water Resources Management, A World Bank Policy Paper*. World Bank, Washington, D.C.

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