

Water, Electricity and the Poor: Who Benefits from Utility Subsidies?

Kristin Komives, Vivien Foster, Jonathan Halpern, and Quentin Wodon, with support from Roohi Abdullah.

Appendix A.1. Consumption Subsidy Cases: Electricity

Country, City	Base study for subsidy analysis
Latin America	
Guatemala	Foster, V., and M. C. Araujo. 2004. " Does Infrastructure Reform Work for the Poor? A Case Study from Guatemala. " Policy Research Working Paper 3185, World Bank, Washington, DC.
Honduras	Wodon, Q., M. I. Ajwad, and C. Siaens. 2003. "Lifeline or Means Testing? Electric Utility Subsidies in Honduras." In Infrastructure for the Poor People: Public Policy for Private Provision , ed. P. Brook and T. Irwin, 227–96. Washington, DC: World Bank and Public–Private Infrastructure Advisory Facility.
Peru	OSINERG (Organismo Supervisor de la Inversión en Energía). 2005. " Evaluación del Impacto del FOSE. " Unpublished paper, OSINERG, Lima, Peru.
Colombia, Bogotá	Melendez, M., C. Casas, and P. Medina. 2004. "Subsidios al Consumo de los Servicios Públicos en Colombia: Hacia donde Movernos?" Final report of Finance, Private Sector, and Infrastructure Unit, Latin America and the Caribbean Region, World Bank, Washington, DC.
Colombia, Urban	Melendez, M. 2005. "Distributional Incidence of Water and Electricity Tariffs in Colombia: Subsidy Data Template." World Bank, Washington, DC. Melendez, M., C. Casas, and P. Medina. 2004. "Subsidios al Consumo de los Servicios Públicos en Colombia: Hacia donde Movernos?" Final report of Finance, Private Sector, and Infrastructure Unit, Latin America and the Caribbean Region, World Bank, Washington, DC. Melendez, M. 2005. "Distributional Incidence of Water and Electricity Tariffs in Colombia: Subsidy Data Template." World Bank, Washington, DC.
Mexico	World Bank. 2004b. <i>Mexico Public Expenditure Review (PER)</i> . Vol. 1 and 2. Colombia and Mexico Country Management Team, Poverty Reduction and Economic Management Unit, Latin America and the Caribbean Region, World Bank, Washington, DC.
Argentina	Foster, V. 2004. " Toward a Social Policy for Argentina's Infrastructure Sectors. Evaluating the Past, Exploring the Future. " Policy Research Working Paper 3422, World Bank, Washington, DC.
Sub-Saharan Africa	
Cape Verde	Angel-Urdinola, D., and Q. Wodon. 2005a. "Do Utility Subsidies Reach the Poor? Framework and Evidence for Cape Verde." Paper prepared by the Poverty Reduction and Economic Management Department, Africa Region, World Bank, Washington, DC.
Rwanda, National	Angel-Urdinola, D., M. Cosgrove-Davies, and Q. Wodon. 2005. "Electricity Tariffs and Poverty in Rwanda." Paper prepared by the Poverty Reduction and Economic Management Department, Africa Region, World Bank, Washington, DC.
Rwanda, Urban	Angel-Urdinola, D., and Q. Wodon. 2005b. "The Targeting Performance of Utility Subsidies in Africa: A Cross-Country Study." Paper prepared by the Poverty Reduction and Economic Management Department, Africa Region, World Bank, Washington, DC.
Sao Tome and Principe	Angel-Urdinola, D., and Q. Wodon. 2005b. "The Targeting Performance of Utility Subsidies in Africa: A Cross-Country Study." Paper prepared by the Poverty Reduction and Economic Management Department, Africa Region, World Bank, Washington, DC.
Eastern and Central Europe	
Hungary	Shkaratan, M. 2005. "Distributional Incidence of Utility Subsidies in Croatia, Hungary, and Latvia: Subsidy Data Template." World Bank, Washington, DC.
Croatia	Shkaratan, M. 2005. "Distributional Incidence of Utility Subsidies in Croatia, Hungary, and Latvia: Subsidy Data Template." World Bank, Washington, DC.
Georgia, Tbilisi	Lampietti, J. A., H. Gonzalez, E. Hamilton, and M. Wilson. 2003. " Revisiting Reform in the Energy Sector. Lessons from Georgia. " Working Paper 21, World Bank, Washington, DC. Lampietti, J., ed. 2004. " Power's Promise: Electricity Reforms in Eastern Europe and Central Asia. " Working Paper 40, World Bank, Washington, DC.

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South Asia	
India: State, Urban	Santhakumar, V. 2004a. "Distributional Incidence of Electricity Subsidies in India: Subsidy Data Template." World Bank: Washington, DC.

Notes:

Data from the sources was reanalyzed in many cases in order to create comparable analysis across cases. Thus, the results reported in the base study will not necessarily mirror the results reported in this book.

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Appendix A.2. Consumption Subsidy Cases: Water

Country, City	Base study for subsidy analysis
Latin America	
Paraguay, Urban	Robles, M. 2001. "Simulation of Strategies for Targeting Water and Sewerage Subsidies by CORPOSANA Paraguay." Consultant's report, World Bank, Washington, DC.
Colombia, Bogota	Melendez, M., C. Casas, and P. Medina. 2004. "Subsidios al Consumo de los Servicios Públicos en Colombia: Hacia donde Movernos?" Final report of Finance, Private Sector, and Infrastructure Unit, Latin America and the Caribbean Region, World Bank, Washington, DC. Melendez, M. 2005. "Distributional Incidence of Water and Electricity Tariffs in Colombia: Subsidy Data Template." World Bank, Washington, DC.
Colombia, Urban	Melendez, M., C. Casas, and P. Medina. 2004. "Subsidios al Consumo de los Servicios Públicos en Colombia: Hacia donde Movernos?" Final report of Finance, Private Sector, and Infrastructure Unit, Latin America and the Caribbean Region, World Bank, Washington, DC. Melendez, M. 2005. "Distributional Incidence of Water and Electricity Tariffs in Colombia: Subsidy Data Template." World Bank, Washington, DC.
Nicaragua, Managua	Walker, I., F. Ordonez, P. Serrano, and J. Halpern. 2000. " Potable Water Pricing and the Poor: Evidence from Central America on the Distribution of Subsidies and the Demand for Improved Services. " Policy Working Paper 2468, World Bank, Washington, DC.
Venezuela, Merida	Walker, I., F. Ordonez, P. Serrano, and J. Halpern. 2000. " Potable Water Pricing and the Poor: Evidence from Central America on the Distribution of Subsidies and the Demand for Improved Services. " Policy Working Paper 2468, World Bank, Washington, DC.
Panama - Panama City and Colon	Walker, I., F. Ordonez, P. Serrano, and J. Halpern. 2000. " Potable Water Pricing and the Poor: Evidence from Central America on the Distribution of Subsidies and the Demand for Improved Services. " Policy Working Paper 2468, World Bank, Washington, DC.
Chile	Gomez-Lobo,A., and D. Contreras. 2000. "Subsidy Policies for the Utility Industries: A Comparison of the Chilean and Colombian Water Subsidy Schemes." Draft, Department of Economics, University of Chile, Santiago, Chile. Gomez-Lobo,A., and D. Contreras. 2003. "Water Subsidy Policies: A Comparison of the Chilean and Colombian Schemes." World Bank Economic Review 17 (3): 391–407.
Argentina	Foster, V. 2004. " Toward a Social Policy for Argentina's Infrastructure Sectors. Evaluating the Past, Exploring the Future. " Policy Research Working Paper 3422, World Bank, Washington, DC.
Argentina, Buenos Aires	Foster, V. 2004. " Toward a Social Policy for Argentina's Infrastructure Sectors. Evaluating the Past, Exploring the Future. " Policy Research Working Paper 3422, World Bank, Washington, DC.
Sub-Saharan Africa	
Cape Verde	Angel-Urdinola, D., and Q. Wodon. 2005a. "Do Utility Subsidies Reach the Poor? Framework and Evidence for Cape Verde." Paper prepared by the Poverty Reduction and Economic Management Department, Africa Region, World Bank, Washington, DC.
Eastern and Central Europe	
Ukraine, Odessa	Komives, K. 1998. "Serving the Poor in Transition Economies: An Evaluation of Targeted Municipal Service Subsidy Programs." Master's thesis, Department of City and Regional Planning, University of North Carolina, Chapel Hill, NC.
Croatia	Shkaratan, M. 2005. "Distributional Incidence of Utility Subsidies in Croatia, Hungary, and Latvia: Subsidy Data Template." World Bank, Washington, DC.

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South Asia	
Nepal, Kathmandu	<p>Pattanayak, S., and J.-C. Yang. 2002. "Distributional Incidence of Water Tariffs and Subsidies in Kathmandu, Nepal." RTI International, Durham, NC.</p> <p>Pattanayak, S. K., J.-C. Yang, D. Whittington, B. Kumar K. C., G. Subedi, Y. B. Gurung, K. P. Adhikari, D. V. Shakya, L. S. Kunwar, and B. K. Mabuhang. 2001. "Willingness to Pay for Improved Water Supply in Kathmandu Valley, Nepal." Final Report. RTI International, Durham, NC.</p>
India, Bangalore	<p>Prokopy, L. 2002. "Distributional Incidence of Current and Potential Water Tariffs and Subsidies in Bangalore, India." Unpublished paper, Energy and Infrastructure Department, South Asia Region, World Bank, Washington, DC.</p>
Sri Lanka	<p>Pattanayak, S., and J.-C. Yang. 2005. "Distributional Incidence of Water Subsidies in Sri Lanka: Subsidy Data Template." World Bank, Washington, DC.</p> <p>Pattanayak, S. K., J.-C. Yang, C. Agarwal, H. M. Gunatilake, H. Bandara, and T. Ranasinghe. 2004. "Water, Sanitation, and Poverty in Southwest Sri Lanka." Revised Final Report, submitted to the Energy and Water Department, Infrastructure Vice Presidency, and funded by Bank Netherlands Water Partnership, World Bank, Washington, DC.</p> <p>Brocklehurst, C. 2004. "Addressing the Needs of the Poor in the Context of Water Sector Reform in Greater Negombo and the Kalutara to Galle Coastal Strip, Sri Lanka." Mimeo, Energy and Water Department, Infrastructure Vice Presidency, World Bank, Washington, DC</p>

Notes:

Data from the sources was reanalyzed in many cases in order to create comparable analysis across cases. Thus, the results reported in the base study will not necessarily mirror the results reported in this book.

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Appendix A.3. Connection Subsidies: Electricity and Water

Country, City	Base study for subsidy analysis
Latin America	
Paraguay, Urban	Robles, M. 2001. "Simulation of Strategies for Targeting Water and Sewerage Subsidies by CORPOSANA Paraguay." Consultant's report, World Bank, Washington, DC.
Argentina	Foster, V. 2004. " Toward a Social Policy for Argentina's Infrastructure Sectors. Evaluating the Past, Exploring the Future. " Policy Research Working Paper 3422, World Bank, Washington, DC.
Argentina, Buenos Aires	Foster, V. 2004. " Toward a Social Policy for Argentina's Infrastructure Sectors. Evaluating the Past, Exploring the Future. " Policy Research Working Paper 3422, World Bank, Washington, DC.
South Asia	
Nepal, Kathmandu	Pattanayak, S., and J.-C. Yang. 2002. "Distributional Incidence of Water Tariffs and Subsidies in Kathmandu, Nepal." RTI International, Durham, NC. Pattanayak, S. K., J.-C. Yang, D. Whittington, B. Kumar K. C., G. Subedi, Y. B. Gurung, K. P. Adhikari, D. V. Shakya, L. S. Kunwar, and B. K. Mabuhang. 2001. "Willingness to Pay for Improved Water Supply in Kathmandu Valley, Nepal." Final Report. RTI International, Durham, NC
India, Bangalore	Prokopy, L. 2002. "Distributional Incidence of Current and Potential Water Tariffs and Subsidies in Bangalore, India." Unpublished paper, Energy and Infrastructure Department, South Asia Region, World Bank, Washington, DC.
Sub-Saharan Africa	
Cape Verde	Angel-Urdinola, D., and Q. Wodon. 2005a. "Do Utility Subsidies Reach the Poor? Framework and Evidence for Cape Verde." Paper prepared by the Poverty Reduction and Economic Management Department, Africa Region, World Bank, Washington, DC.
Rwanda, Urban	Angel-Urdinola, D., and Q. Wodon. 2005b. "The Targeting Performance of Utility Subsidies in Africa: A Cross-Country Study." Paper prepared by the Poverty Reduction and Economic Management Department, Africa Region, World Bank, Washington, DC.
Sao Tome and Principe	Angel-Urdinola, D., and Q. Wodon. 2005b. "The Targeting Performance of Utility Subsidies in Africa: A Cross-Country Study." Paper prepared by the Poverty Reduction and Economic Management Department, Africa Region, World Bank, Washington, DC.

Notes:

Data from the sources was reanalyzed in many cases in order to create comparable analysis across cases. Thus, the results reported in the base study will not necessarily mirror the results reported in this book.

In addition to these cases, simulations of connection subsidies for water, sewer, and electricity were done on all cases for which connection information by quintile was available (see appendices B and C). The results of this analysis are presented in graphical form in Chapter 7.

Appendix A.4: Consumption subsidies: burden limit

Country, City	Base study for subsidy analysis
Latvia, Riga	Shkaratan, M. 2005. "Distributional Incidence of Utility Subsidies in Croatia, Hungary, and Latvia: Subsidy Data Template." World Bank, Washington, DC.
Ukraine, Odessa	Komives, K. 1998. "Serving the Poor in Transition Economies: An Evaluation of Targeted Municipal Service Subsidy Programs." Master's thesis, Department of City and Regional Planning, University of North Carolina, Chapel Hill, NC.