



## Tajikistans Winter Energy Crisis Electricity Supply and Demand Alternatives World Bank Studies

By Gary Stuggins

World Bank Publications. Paperback. Condition: New. 112 pages. Dimensions: 9.8in. x 7.0in. x 0.6in. Tajikistan suffers severe energy shortages in winter, caused by a combination of low hydropower output during winter, when river flows are low, and high demand driven by heating needs. Shortages affect some 70 percent of the population, costing about 3 percent of annual GDP. This figure excludes human and environmental costs, as well as the serious negative effect on the business investment climate. If no measures are undertaken to address this problem, then current electricity shortages, estimated at about one-quarter of winter demand (2,700 GWh), could increase to more than one-third of winter demand (4,500 GWh) by 2016. The Government of Tajikistan recognizes both the importance and challenges of energy security and has therefore introduced various measures to help meet demand. Tajikistan's Winter Energy Crisis explores a range of supply and demand alternatives including thermal, run-of-river hydro, other renewables, energy efficiency, and demand management to further inform its development partners on the country's efforts to meet its winter energy demand. The study recommends that the Government of Tajikistan accelerate its efforts in energy efficiency and demand management, including tariff reform; add new dual-fi...



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