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Submitted by Rob Katz on June 15, 2005 - 10:26. Energy

A recent article (available here, PDF) in the journal Science tackles the problem of electrification in low-income households with analysis showcasing a robust technical solution :hat could be made available for US\$25 fixed-cost, without subsidy. The technology, solar-powered white light emitting diodes (WLEDs) are more efficient than fuel-based lighting biomass, kerosene, candles, etc) by a factor of 100. In addition, the article's author, Evan 4ills, estimates that fuel-based lighting accounts for annual worldwide energy consumption of 77 billion liters of fuel per year – an amount equivalent to US\$38 billion per year or US\$77 per nousehold. Mills states:

'Despite the paucity of lighting services obtained, individual unelectrified households in the leveloping world spend a comparable amount of money on illumination as do households in the developed world."

Nith 14% of urban households and 49% of rural households without electricity as of 2000 citation here), this represents a huge market opportunity. Companies are starting to take nigh-tech water filters, wireless telecommunications, and financial tools into low-income communities. When will companies start taking high-tech approaches to off-grid electrification nto those same communities? At \$25 per year, some microfinance organizations should think nard about giving loans to purchase these systems.

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