

Energy Economics and Mathematical Economics

Research Topics

- Water and sanitation issues
- Hybrid energy systems
 - Evaluation of the efficiency of energy production from multiple sources
- Cost-Benefit issues in energy policy
- Expected utility theory
- Risk aversion analysis in finance
 - Analysis of utility function properties that models realistic risk-averse behavior

$$EU(w+\epsilon) = U(w-\pi)$$

Analysis of expected utility function properties.



Exploring alternative energy systems.

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Recent Funding

- CASB BIC Pilot Study Program
- NSF I-CORPS Site Grant

Keywords

- Energy policy, Hybrid energy, Smart living, Expected utility, Mean-variance analysis

Achievements

- Makaudze, E., Gelles, G. (2015). The Challenges of Providing Water and Sanitation to Urban Slum Settlements in South Africa, *Understanding and Managing Urban Water in Transition*, Springer.
- Gelles, G., Rogge, P., & Smith, J. (editors), *Hybridized Energy Technology for Improved Resilience, Sustainability, and Efficiency*. Wiley Publishing, (book to be completed in 2017).