

# Prediction and Planning Under Severe Uncertainty: Potential Applications of Info-Gap Theory to the Energy Sectors

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## Abstract

Model-based policies, plans, designs and decisions are made by engineers, scientists, policy analysts, economists and others. Severe uncertainty—deficient knowledge and imperfect understanding—is a central challenge in decision making. In this talk we will use info-gap decision theory to explore the implications of severe uncertainty for design and planning. Examples will emphasize info-gap analysis of modeling and policy formulation with potential for application in the energy sectors.

### Background material:

- <http://info-gap.com>
- Yakov Ben-Haim, 2010, *Info-Gap Economics: An Operational Introduction*, Palgrave-Macmillan, London.
- Yakov Ben-Haim, 2006, *Info-Gap Decision Theory: Decisions Under Severe Uncertainty*, 2nd edition, Academic Press, London.