

EcoNomics™ Assessment Framing Workshop

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CSG:	Infrastructure & Environment
LOCATION:	London
PROJECT #:	305001-51332
PROJ TITLE:	Risks&Vulnerabilities to the Albanian Energy Sector from Climate Change

DESCRIPTION: This is a World Bank project to raise awareness of potential impacts of climate change on energy security in Albania due to changing climatic conditions and to examine the costs and benefits of options to adapt the energy supply. The format of the project is a series of capacity building workshops in-country for key government / policy and industry representatives. The first workshop was to discuss the risks and vulnerabilities of climate change, the second was to discuss adaptive options and framing the cost benefit analysis

WORKSHOP SUMMARY

DATE:	21-Apr-09	TIME:	09:00-17:00
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ATTENDEES:	See attached attendee list
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ANALYSIS:	<input type="checkbox"/> WHOLE PROJECT	<input checked="" type="checkbox"/> MARGINAL
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OBJECTIVE:	"How best (optimal balance of social, environmental and financial aspects) to meet the shortfall in Albania's future (to 2050) energy (electricity) supply that will result from changing climate impacting
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OPTIONS TO BE ASSESSED:	1	Provide new Large (dam storage) Hydro Power Plant (LHPP) capacity
	2	Adapt existing LHPP to provide additional capacity
	3	Adapt an existing LHPP to become a pump storage facility to provide additional capacity
	4	Provide additional Small Hydro Power Plant (SHPP) generation capacity
	5	Provide additional wind generation capacity
	6	Provide additional Concentrated Solar Power (CSP) generation capacity
	7	Provide additional thermal (CCGT) power generation capacity
	8	Import required additional electricity from regional neighbours
	9	
	10	

EXTERNAL ASSETS TO BE VALUED:	1	Water Value
	2	CO2 emissions
	3	NOx and Sox emissions
	4	Particulate matter emissions
	5	Ecosystem impact
	6	Risk to security of supply due to wind/rain storm events
	7	Risk to security of supply due to heat wave events
	8	Nuisance / relocation of people
	9	Land Value

EVALUATION PARAMETERS

Planning Horizon:	2009-2050 (41 years)
Other Planning Horizons:	
Internal Rate of Return:	---
Social Discount Rate:	4.5 to 6%
Other Parameters:	