

MEMO

MEMO CONCERNING Preliminary agenda MCA workshop	LOCATION SINTEF Energi, Sem Sælandsvei 11
AUTHOR David Barton, NINA Tor Haakon Bakken, SINTEF Energy Research	DATE 27th and 28th of February, 2013
DISTRIBUTION Participants in the workshop	

Multi-criteria analysis applied to environmental impacts of hydropower and water resource regulation projects 27-28 February 2013

Agenda 27th of February (venue: 1st floor cafeteria, NINA, Tungasletta 2, Trondheim)

Time	Activity / title of talk	Responsibility
10.00-10.10	Welcome and aims of workshop: - Identification of local project and national policy evaluation needs for MCA - Pros and cons of different MCA software & methods in the context of hydropower environmental abatement measures	Tor Haakon Bakken, SINTEF (Moderator Day 1)
10:10-10:30	WFD and existing hydropower in Norway, and the potential and need for multicriteria systems for solving tricky management questions?	NN, DN
International examples of MCA in water resource management		
10.30-12.00	MCDA in the water course regulation projects in Finland – application opportunities and lessons learned (45 mins)	Mika Marttunen, SYKE
	MCA as decision support system to merge hydropower requirements and river ecosystems services in the Alps: the cooperation project SHARE and other related experiences. (45 mins)	Andrea Mammoliti Mochet Regional Environmental Protection Agency of Aosta Valley
12.00 – 13.00	LUNCH	

Norwegian examples of MCA		
13.00 – 13.15	Challenges to MCA in the cumulative impact assessment of abatement measures in hydropower (title tbc)	Brian Glover, Multiconsult
13:15-13:45	Uncertainty in MCA analysis of hydropower installations	Maria Catrinu, SINTEF
13:45-14:15	Coffee break	
14:15-14:45	Introduction to least-cost path (LCP) analysis of optimal routing of high-voltage power lines – spatially explicit MCA” <i>(to be continued with a demonstration on Day 2)</i>	Roel May & Frank Hanssen (NINA)
14:45-15:15	Introduction to pressure-impact multi-criteria environmental flow analysis – a case study from Øyeren, Norway. <i>(to be continued with a demonstration on Day 2)</i>	David N. Barton, NINA
15:15-16:30	Moderated Discussion: <ul style="list-style-type: none"> - Identification of local project and national policy evaluation needs for MCA - Pros and cons of different MCA software in the context of hydropower environmental abatement measures 	Introduction/moderator: David N. Barton

Agenda 28th of February

(venue: Meeting room M2, SINTEF Energy Research, Sem Sælands vei 11, Gløshaugen.)

Time	Activity / title of talk	Responsibility
	Session 1 – demonstration of MCA software and methods	
08:30-09:00	Introduction: General challenges in multi-criteria analysis for hydropower and water course regulation in Norway	Svein Grotli Skogen , DN
09:00-10:00	Case: Optimal water regulation in Øyeren using DEFINITE MCA software (continued from introduction day before)	Demo facilitator: David N. Barton, NINA
10:00-10:30	Coffee break	
10:30-12:00	Case: Optimal siting of Klæbu - Viklandet transmission line using least-cost pathway (LPC) in Arc-GIS (continued from introduction day before) (tbc)	Demo facilitator: Frank Hanssen & Roel May, NINA
12:00-12:30	LUNCH	
12:30-13:30	Session 2 – Recommendations for MCA at project and watershed level:	Discussion moderator: Svein Grotli Skogen, DN

	<p>What are workshop participants' recommendations for requirements of MCA in comparing and ranking <i>environmental abatement measures within and across hydropower concessions</i>?</p> <ul style="list-style-type: none"> • How to facilitate a MCA process? • How would a MCA be configured? • How to involve interest groups? 	
13:30-14:00	Coffee	
14:00-15:00	<p>Session 3 – Recommendations for MCA at national level:</p> <p>What are participants' recommendations for quantifying <i>ecosystem services</i> in MCA ranking of hydropower concession revisions?</p> <ul style="list-style-type: none"> - Defining impacts to be valued monetarily vs. 'unpriced impacts' in the MCA? - Guidelines for valuing the benefits of hydropower? (private versus public accounting stance) - Guidelines for valuing environmental impacts? 	Discussion moderator: David N. Barton
15:00	Closure	