Supplementary Material ESM5, Water Resources Management

Marginal abatement cost curves for water scarcity mitigation under uncertainty

Karin Sjöstrand^{1,2,*}, Andreas Lindhe², Tore Söderqvist³, Peter Dahlqvist⁴, Lars Rosén²

¹RISE Research Institutes of Sweden, Scheelevägen 27, SE- 223 70 Lund, Sweden. *Corresponding author, email: karin.sjostrand@ri.se
²Chalmers University of Technology, Department of Architecture and Civil Engineering, SE-412 96 Göteborg, Sweden
³Anthesis Enveco, Barnhusgatan 4, SE-111 23 Stockholm, Sweden
⁴Geological Survey of Sweden, Kiliansgatan 10, SE-223 50 Lund, Sweden



Fig. 1 Correlation coefficients (Spearman rank) of input variables and the cost per unit outcome for small-scale sub irrigation at 3.5% discount rate



Fig. 2 Correlation coefficients (Spearman rank) of input variables and the cost per unit outcome for large-scale sub irrigation at 3.5% discount rate



Fig. 3 Correlation coefficients (Spearman rank) of input variables and the cost per unit outcome for irrigation dams at 3.5% discount rate



Fig. 4 Correlation coefficients (Spearman rank) of input variables and the cost per unit outcome for ramp irrigation at 3.5% discount rate



Fig. 5 Correlation coefficients (Spearman rank) of input variables and the cost per unit outcome for reuse of mining drainage water at 3.5% discount rate



Fig. 6 Correlation coefficients (Spearman rank) of input variables and the cost per unit outcome for retrofitting showerheads and taps at hotels at 3.5% discount rate



Fig. 7 Correlation coefficients (Spearman rank) of input variables and the cost per unit outcome for saltwater pools and toilets at campsites at 3.5% discount rate







Fig. 9 Correlation coefficients (Spearman rank) of input variables and the cost per unit outcome for leakage detection at 3.5% discount rate



Fig. 10 Correlation coefficients (Spearman rank) of input variables and the cost per unit outcome for desalination at 3.5% discount rate



Fig. 11 Correlation coefficients (Spearman rank) of input variables and the cost per unit outcome for managed aquifer recharge at 3.5% discount rate







Fig. 13 Correlation coefficients (Spearman rank) of input variables and the cost per unit outcome for increased surface water extraction at 3.5% discount rate



Fig. 14 Correlation coefficients (Spearman rank) of input variables and the cost per unit outcome for rainwater harvesting at 3.5% discount rate



Fig. 15 Correlation coefficients (Spearman rank) of input variables and the cost per unit outcome for small scale desalination at 3.5% discount rate



Fig. 16 Correlation coefficients (Spearman rank) of input variables and the cost per unit outcome for vacuum toilets at 3.5% discount rate



Fig. 17 Correlation coefficients (Spearman rank) of input variables and the cost per unit outcome for graywater reuse at 3.5% discount rate