

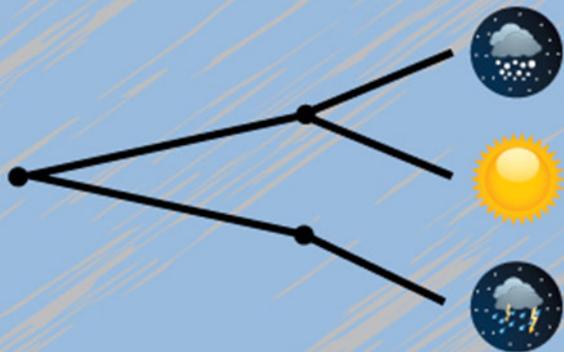
User Meeting 2015

The value of stochastic short-term scheduling

Ellen Krohn Aasgård

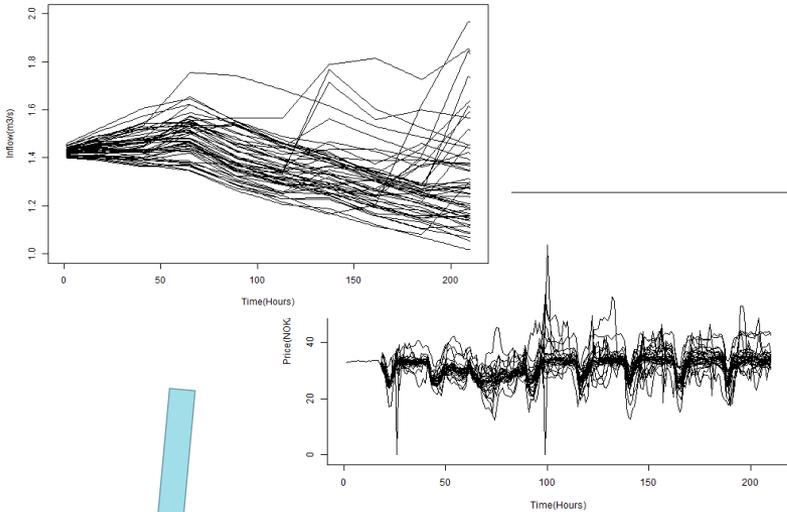
SINTEF Energy Research

May 20 2015



The stochastic
short-term model SHARM

SHARM

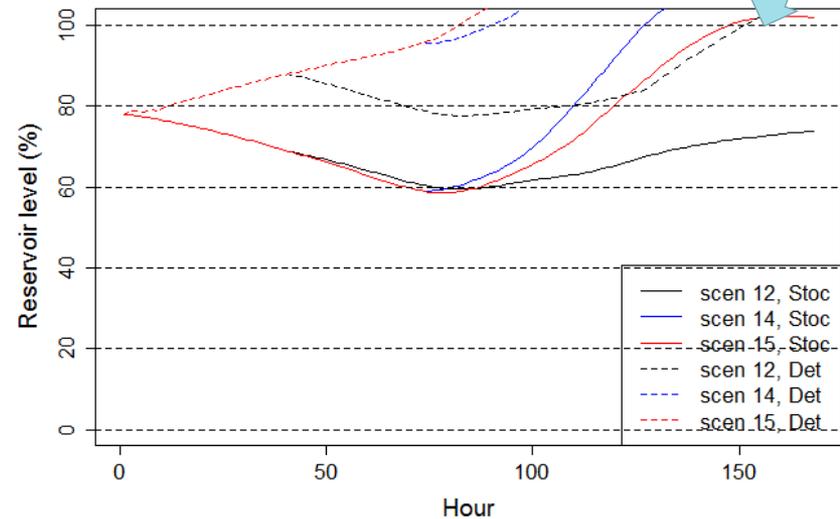
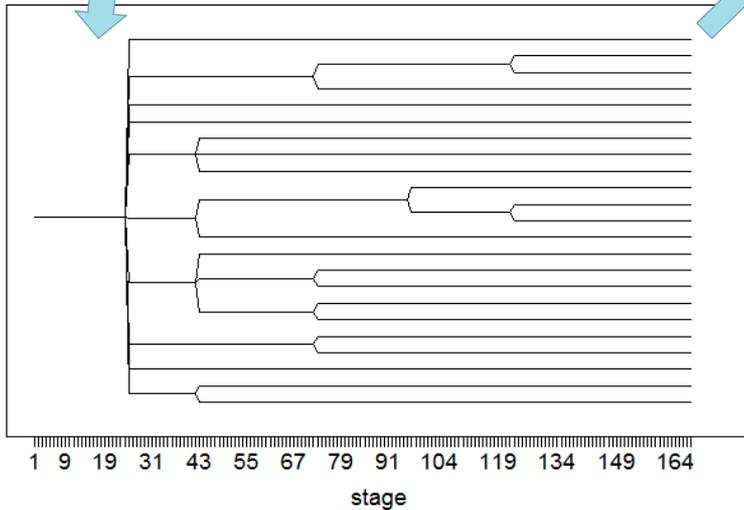


Solve optimization problem with SHARM

Objective function

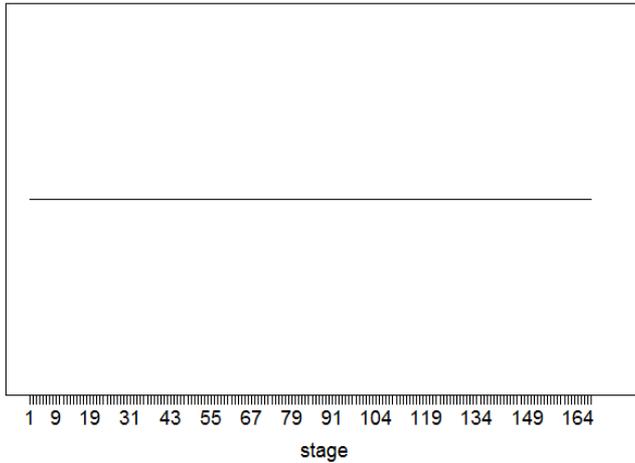
$$\sum_{Scen} prob_s * (revenues_s - costs_s + end\ value_s + \dots)$$

Solution must satisfy all constraints: reservoir balance, efficiency curves, losses, connections....

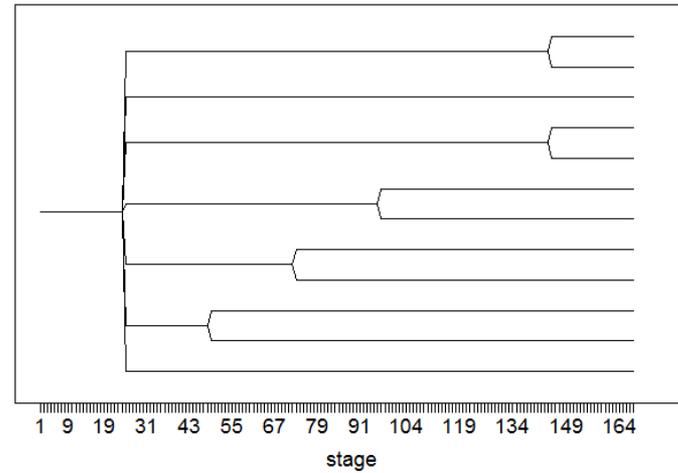


Evaluation method

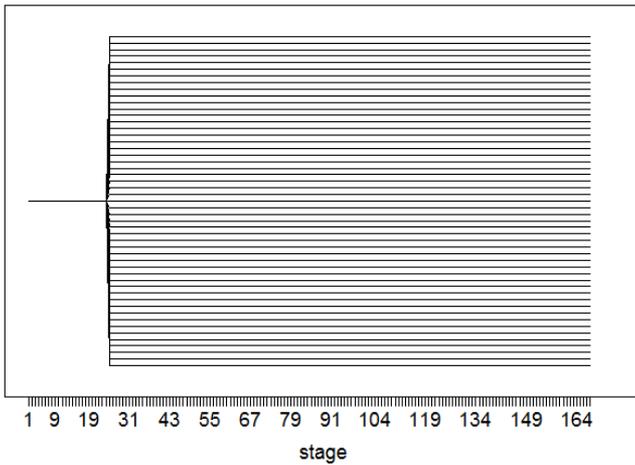
Generate deterministic plan



Generate stochastic plan



Evaluate deterministic plan



Evaluate stochastic plan

