



# Integrated energy planning

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# Overview



- Why plan? Why integrated planning?
- What will be needed?
- What can we expect?

# Why plan? Why integrated planning?



- Real world is complex
- Has complex interactions
- No plan = chaos
- Integrated planning helps us include many aspects that impact on the environment, and accommodate the complex real world
- Models can provide us with (a mix of) options to choose from – and quantify the effects of each - in developing our plans
- Integrated models take into account impacts on the entire system and help us develop holistic solutions (integrated planning)
- Planning decisions flow from understanding model outputs
- No planner can work without an indication of the effects of his decisions

# What will be needed?



- Formulate planning questions to be answered
- Select appropriate modeling technique based on questions to be answered
- Select appropriate model/s
- Available data analysis
- Identify data gaps across all sectors and fuels
- Fill them
- Skills to operate model/s and interpret outputs
- Develop planning options at sector level, and integrated options for the entire spatial dimension
- Political understanding of the implications of the outputs and of the plan

# What can we expect?



- An analysis of planning options
- An indication of efficiency gains and environmental impacts and where they can be expected
- An indication of interventions that will be required to meet planning goals
- Development of sector plans from model outputs (transport, schools)
- Development of an holistic integrated planning tool to assist in better decision making
- This is the ultimate EnerKey objective