

Infrastructure investment plans and policies

Uncertainties in future climate and socio-economic development

Agriculture production

Farming zones

Crop choice

Irrigation

Yield function

Water management

Hydrology

Reservoir operations

Demand and supply

Environmental flow requirements

Energy production

Hydropower plants

Thermal and renewable power

Capacity expansion

Water for agriculture

Water for energy

Nexus economic optimization

Crops

Energy

Crop markets

Transport and trade

Demand and supply

Food security

Energy markets

Transmission and trade

Demand and supply

CO₂ emissions

Economic impacts, synergies, trade-offs, and risks