



IAEA

International Atomic Energy Agency

IAEA Support to Member States

Integrated National Energy and Climate Plans

Mr. Mario TOT

Planning and Economic Studies Section

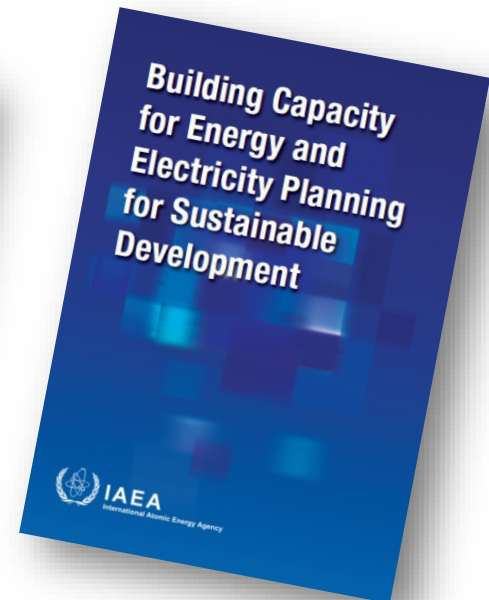
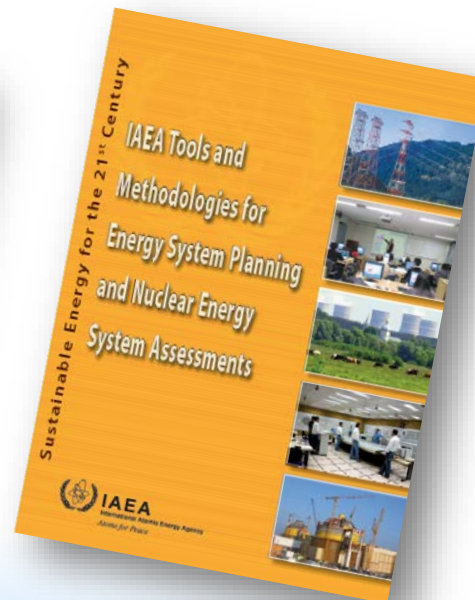
International Atomic Energy Agency

4th Energy and Climate Technical Working Group

Energy Community Secretariat

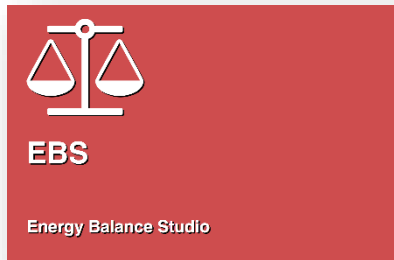
21 November 2019, Vienna, Austria

- ... **assist** Member States in reinforcing national capabilities to conduct energy system analysis, so that countries can assess options and develop ***their own sustainable energy strategies, i.e. support decision and policy making***

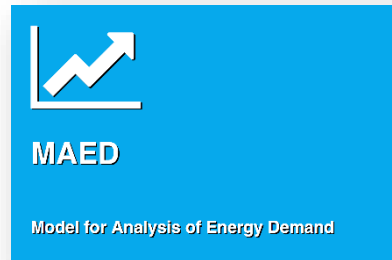


Energy System Assessment Tools

- Set of own energy system assessment tools covering the whole energy planning process, available free of charge



*Energy Statistics and
Energy Balances
compilation*



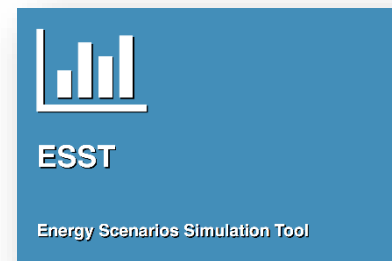
*Energy Demand
Analysis and
Projections*



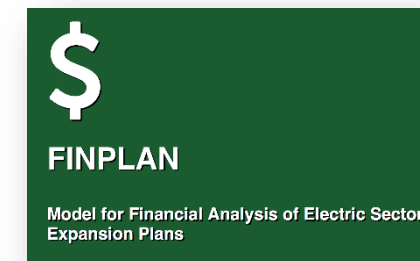
*Energy Supply
Optimization and
Simulation*



*Power Generation
Investments and
Expansion Planning*



*Energy Scenario
Simulation Tool for
fast estimates*



*Analysis of financial
viability of power
generation projects*

Energy System Assessment Tools/Concepts (cont.)



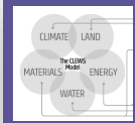
SIMPACTS
Simplified Approach for Estimating Impacts of Electricity Generation

Analysis of Power Plants Environmental Impacts



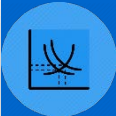
ISED
Indicators of Sustainable Energy Development

Energy, Economy, Environment and Social interactions




CLEW
Climate, Land, Energy and Water Nexus

Climate, Land and Water use and Energy Interactions



EMPOWER
Macroeconomic Analysis

Quantification of macroeconomic effects of strategies



SEA
Strategic Environmental Assessment (Nuclear)

SEA of National Nuclear Power Program

Support to European Countries



- Project title
 - Assessing the Role of Low Carbon Energy Technologies for Climate Change Mitigation
 - Approval expected end-November 2019
- Project duration
 - 2020-2021
- Two components
 1. ***Capacity Building on assessment of long-term energy demand and supply options***
 2. Exchanging knowledge and experience on SMRs
- First activity
 - Counterparts coordination meeting, February 2020, Vienna
 - Discuss and agree on Work Plan

Potential benefits/synergies with ECS



- Collaboration and information exchange between ECS focal points and IAEA project counterparts/teams
- ECS participation in the coordination meeting
- EC Countries to participate in the IAEA project
- Provision of support
 - 2-3 regional training/workshops per year
 - Target support at countries request



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Thank you!

