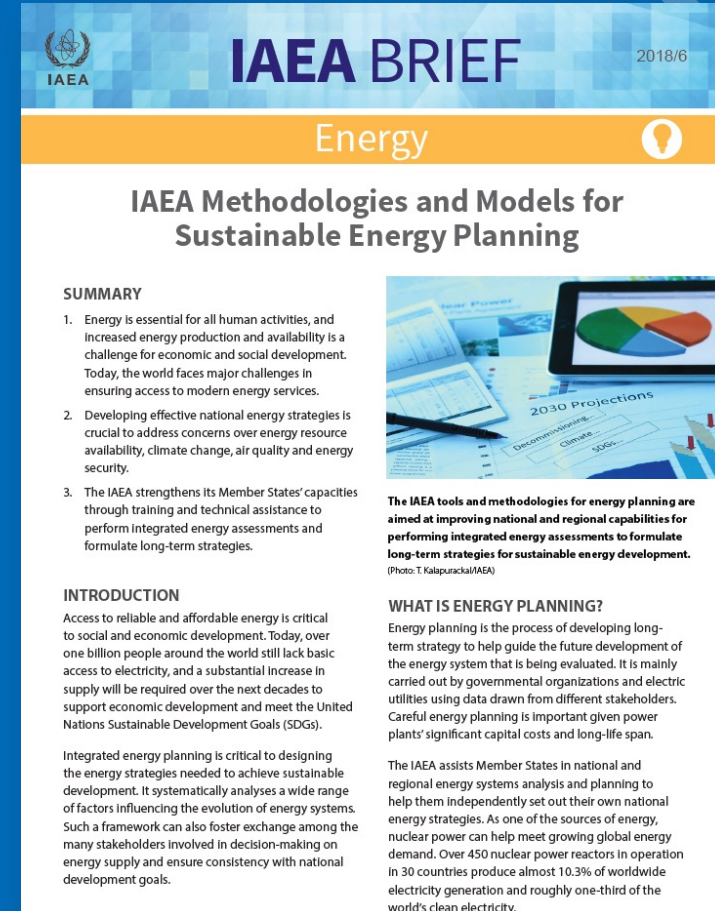


# IAEA's Capacity Building Program to Support Sustainable Energy Development

*STANKEVICIUTE Loreta*

# IAEA's Capacity Building for Energy Planning

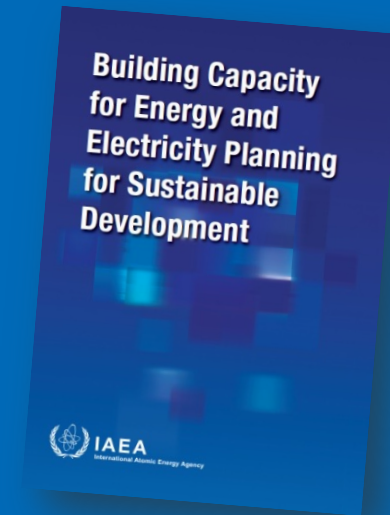
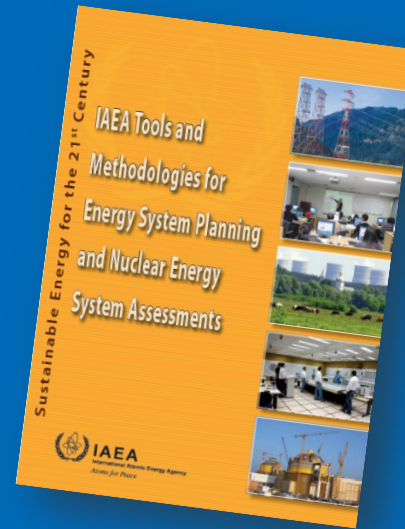
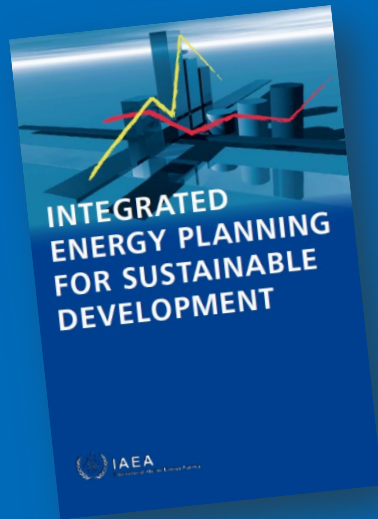
- Energy planning is integral part of policy and investment decision-making in the energy sector
- IAEA has pioneered capacity building activities and has decades of experience in supporting Member States in energy planning



National expertise is essential !

# IAEA...

- ... supports decision and policy making by assisting Member States to strengthen national capabilities in energy system analysis, so that countries can develop **their own sustainable energy strategies**



National expertise is essential !

## Capacity Building for Energy System Assessment

Analytical Tools,  
Training and Support

Technical Assistance  
for Energy Studies

Information  
Dissemination

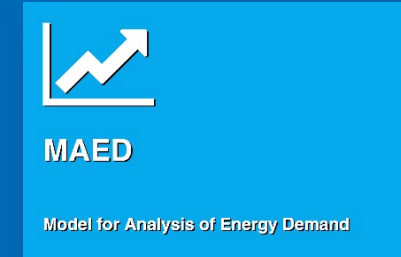


# Energy System Assessment Tools

*... distributed to more than 150 IAEA's Member States and 21 Regional and International Organizations*



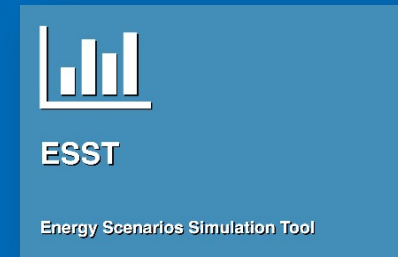
*Energy Statistics and Energy Balances Compilation*



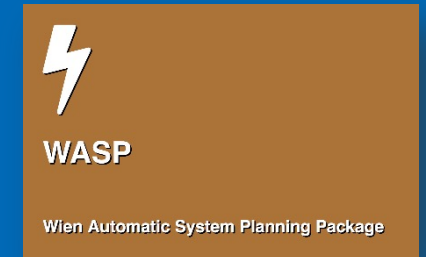
*Energy Demand Analysis and Projections*



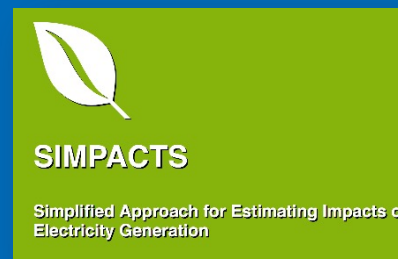
*Energy Supply Optimization and Simulation*



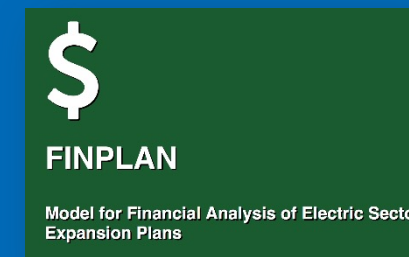
*Energy Scenario Simulation Tool for Fast Estimates*



*Power Generation Investments and Expansion Planning*



*Analysis of Power Plants Environmental Impacts*



*Analysis of Financial Viability of Power Generation Projects*

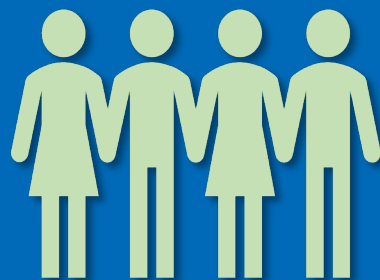
# Selected Projects in Energy Planning

**Recipients:** Multidisciplinary national teams composed of experts from energy planning offices at national ministries, specialised agencies, energy utilities and academia

- **Regional European project for Building Capacity** to assess Role of Low Carbon Energy Technologies for Climate Change Mitigation (26 countries)
- **Regional Latin America and Caribbean Project** for building capacity at national and regional levels to conduct comprehensive sustainable energy development studies (15 countries)
- **Regional project for Caribbean islands** for building local capacity in energy system analysis and planning, including integrated assessment of Climate Land Energy and Water (CLEW) (12 countries)
- **Development of Continental Master Plan (CMP) for Africa** (beneficiaries AUDA-NEPAD and five African power pools)
  - IAEA and IRENA as modelling partners
- **National projects** (capacity building in energy system analysis, NDCs support, masterplan support): Eswatini, Guatemala, Nicaragua, Saint Lucia, Botswana, Djibouti, and other..

# Capacity Building Activities since second half 2020

**530 Participants**



**156 Women**



**34 Events**



**58 Countries**

# Sustained National Capacity for Energy Planning

## ***Partners are crucial***

- Not a single organisation effort, but coordinated action
- Summer schools, joint trainings, energy modelling platforms, collaborative tool development and exchange, improved data accessibility
- Pool of external experts and networks

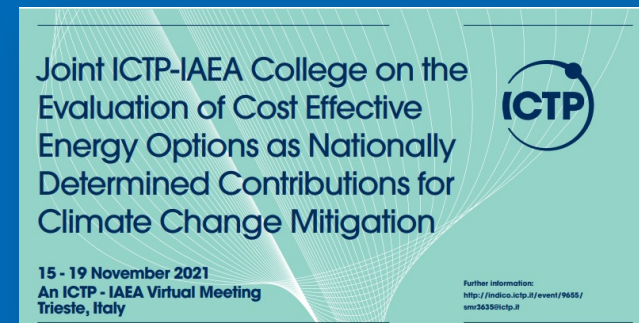
## ***“Plans are nothing; planning is everything”***

- Local expertise is critical
- Energy planning is not a one-time exercise
- Capacity building is a long-term process



# Schools and colleges during 2021

- Joint Summer School on Modelling Tools for Sustainable Development
  - 14 June -1 July 2021
- Energy Modelling Platform for Africa (EMP-A) 2021, ongoing
  - 2 November – 10 December 2021
- Joint ICTP-IAEA College on the Evaluation of Cost-Effective Energy Options as Nationally Determined Contributions for Climate Change, forthcoming
  - 15 November -19 November 2021



# Cooperation for Clean Energy Transition

*“Nuclear energy is sustainable energy and is part of the solution to Climate Change”*

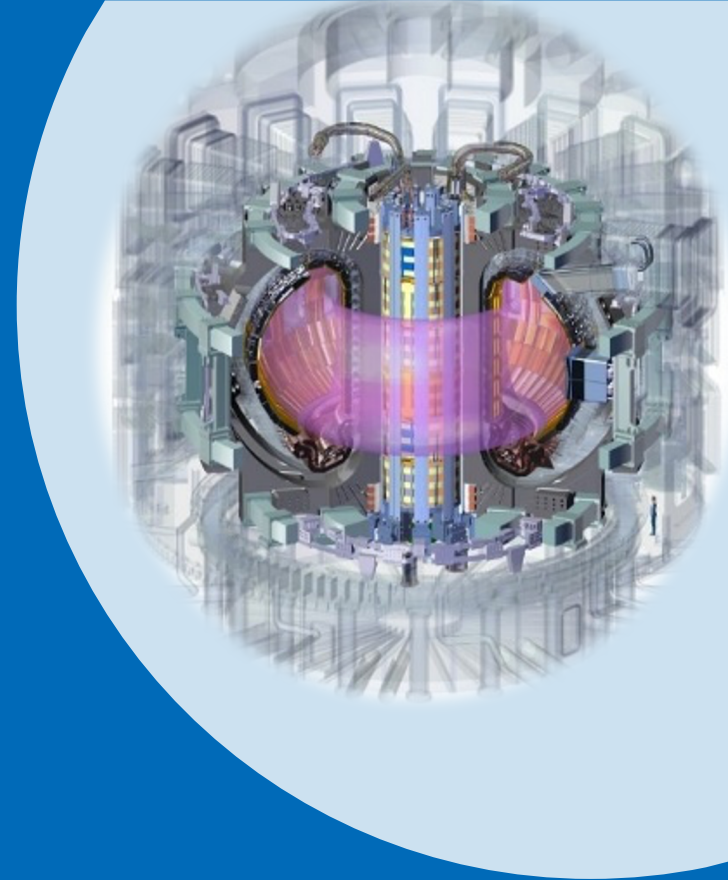
Rafael Mariano Grossi  
*Director General of the IAEA*



Cooperation between IAEA,  
SE4ALL and UN Energy

*“Supporting developing countries with their clean energy transition with the full efforts of UN Energy and IAEA will get us closer to net zero”*

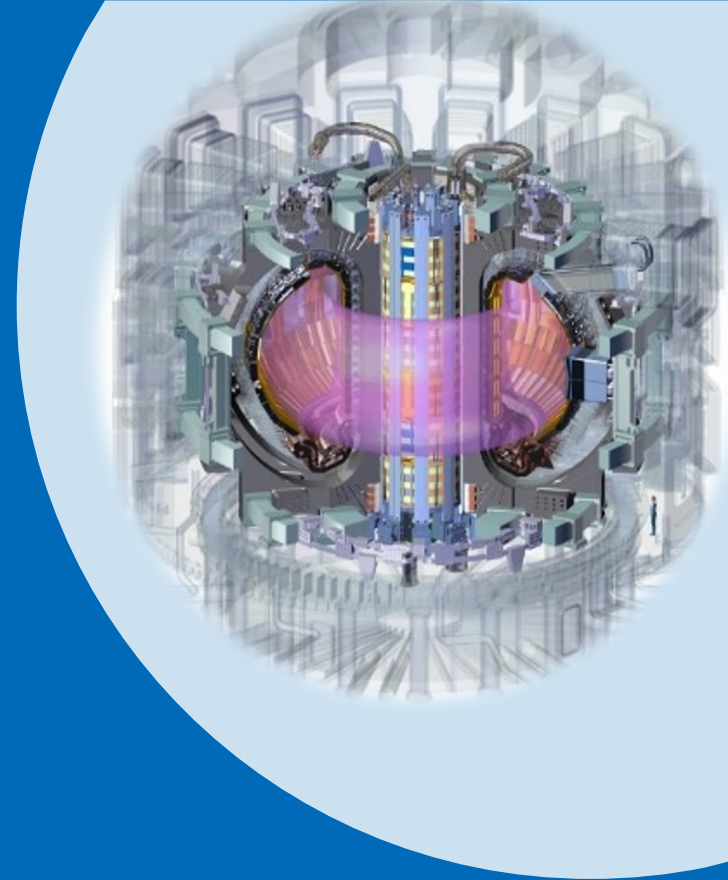
Damilola Ogunbiyi  
*CEO of SE4ALL and Special Representative of the UN SG for Sustainable Energy for All*



*Thank you*







*More info on IAEA's tools:*

*IAEA methodologies and models for Sustainable Energy Planning*

*PESS.Contact-Point@iaea.org*

