



Israel Independent System Operator

Planning Challenges

Uzi Zrahia
Vice-President for
Planning and Development

June 2021



IISO ROLE

IISO was established within the framework of the reform in the Israel electricity sector from June 2018

In the first stage(1.12.2020), IISO received the responsibility for planning and development of the generation and transmission system.

In the next stage the company will take full responsibility on the system and market operation.

The IISO planning division responsibilities

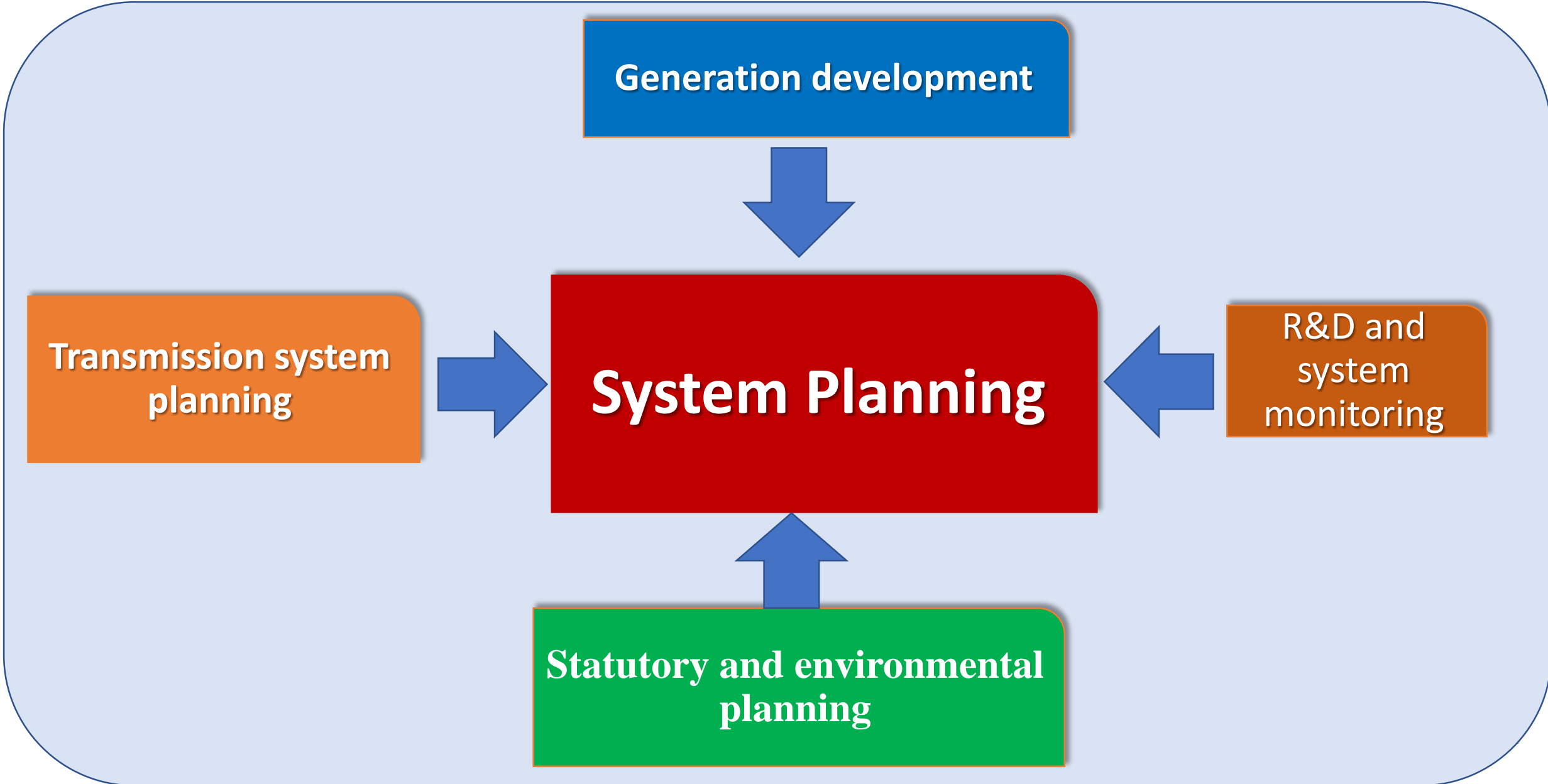
The IISO planning division responsibilities include:

- **Generation development plan.**
- **Transmission system development plan.**
- **Statutory planning and advancing the outline plans until their approval (including environmental impact surveys).**
- **Research and Development in the electricity sector.**
- **Formulating the Grid Code, regulations and system requirements.**
- **Coordination with transmission consumers.**



Israel Independent
System Operator

The IISO planning division main functions:





Israel Planning challenges

Moving forward to clean energy

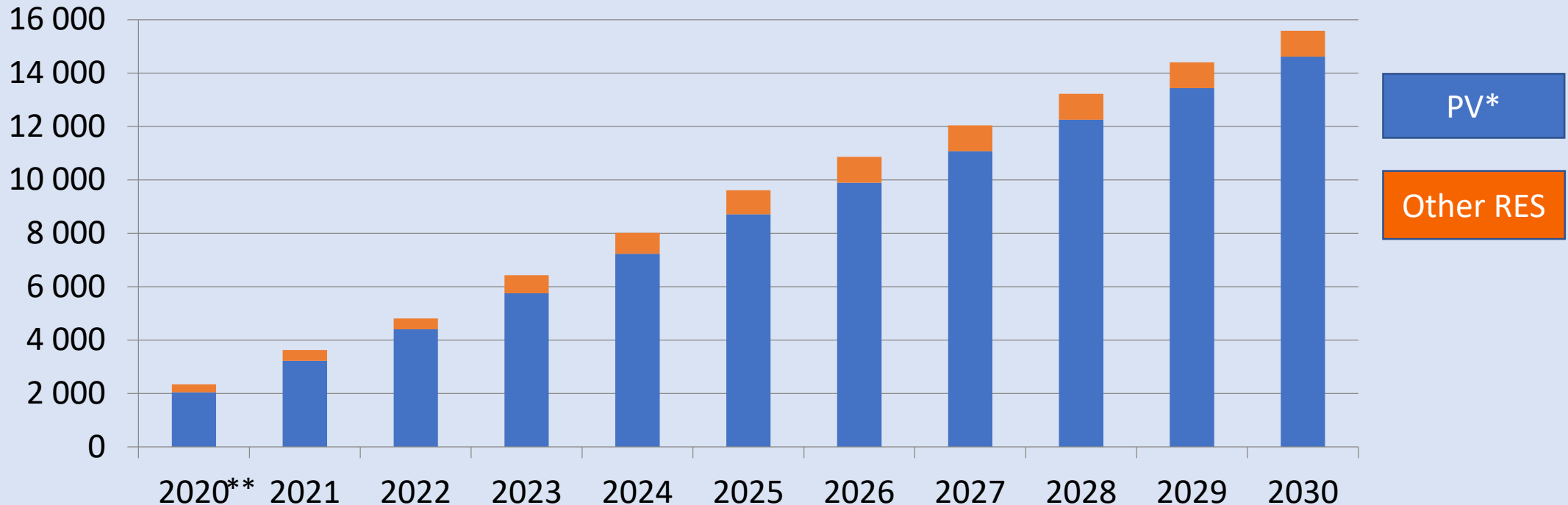
The Israeli government has set a target of 30% electricity generation from renewable energy by 2030

Fossil fuel energy will be based on NG only

Israel Planning challenges

The Israeli government has set a target of 30% electricity generation from renewable energy by 2030

Renewable Energy Capacity Forecast (MW)



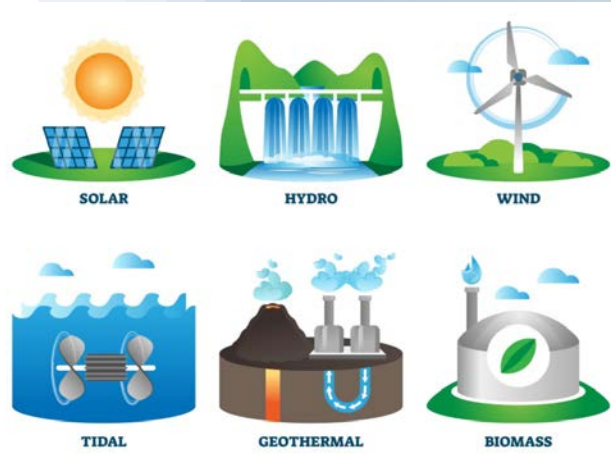
* Including PV with storage appliances

** Actual Capacity

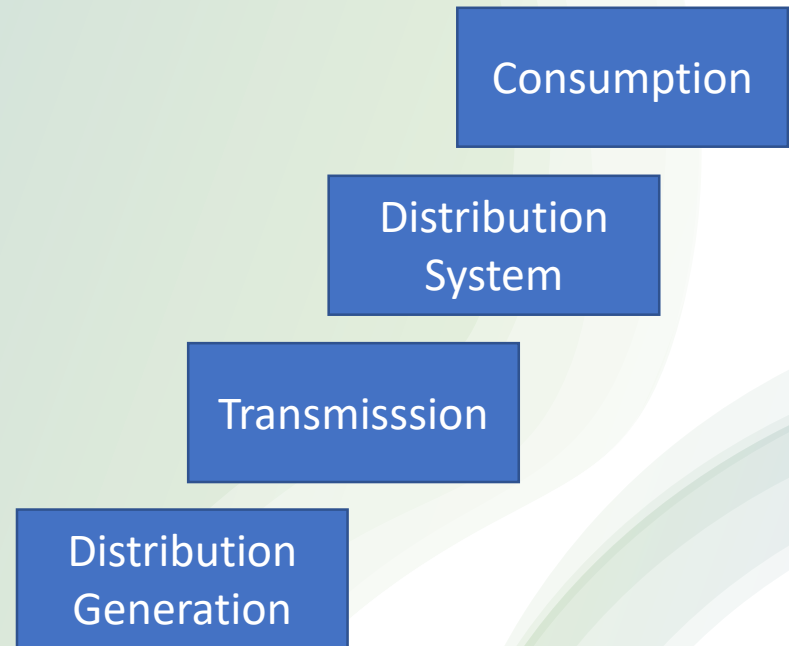
Israel Planning challenges

Main challenges faced by IISO to achieve this target :

- Most of the renewable energy generation from a single source: **solar sources**



Generation distant from
consumption



RENEWABLE ENERGY

**Main challenges faced by IISO to achieve this target :
(continue):**

**Adjusting planning criteria to cope with
a massive integration of renewable
energy generation**

**New simulation
tools
(probabilistic)**

**New
transmission
technologies.**

**Removal of statutory
barriers.
(Lines burial)**

Storage Control



THE WEBINAR

We are confident that this webinar will spark a fruitful dialogue, and that the international collaboration between electricity system companies will promote the use of renewable energy in the world.

I would like to thank our distinguished guests from CIGRE who joined us today and are willing to share with us their experience and knowledge, in order to help using clean energy to protect the environment for future generations