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Aggregation Activity in Türkiye Electricity Market

Ahmet Hüsrev İPEKLi

ENERGY MARKET REGULATORY AUTHORITY of TÜRKİYE

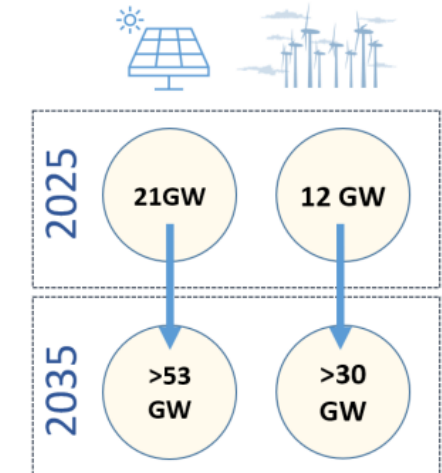
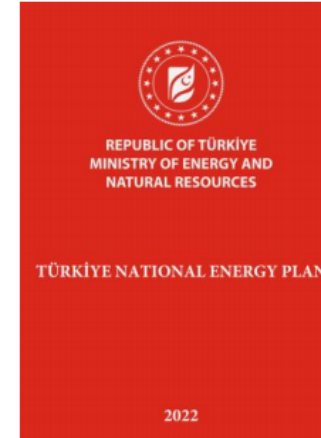
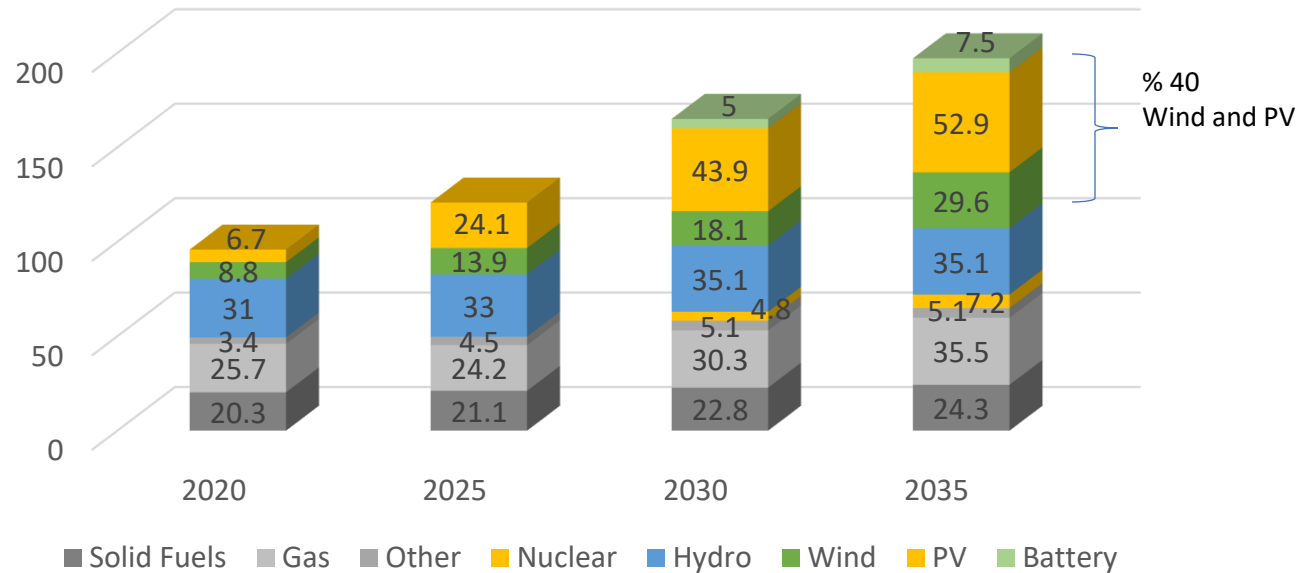


OUTLINE

- National Energy Outlook and 2035 Plan
- Unlicensed Electricity Generation Mechanism
- Challenges in Power Grid/Markets
- Aggregation Activity in Türkiye Electricity Market
- Expectation from Aggregators

Türkiye National Energy Outlook and 2035 Plan

Energy Plan for 2035



https://enerji.gov.tr/Media/Dizin/EIGM/tr/Raporlar/TUEP/Turkiye_National_Energy_Plan.pdf

With more supportive policies of the government, by 2035, the total RES capacity is expected to be:

-30 GW for Wind,

-53 GW for PV.

+ 14,7 GW PV and 18,3 GW Wind with 33 GWh Battery capacity were allocated after 2022

+ 40 GW RES target with the Green Transition target by the Ministry by 2035.

-2/3 of the electricity consumption, projected to be 510 TWh in 2035, is planned to be met by renewable resources, including hydro power.

Unlicensed Generation - Energy Community and RESUM

- Unlicensed Generation is exempt from obtaining a license and establishing a company.
- RESUM: It provides financial support for renewable energy projects (Licensed and unlicensed) through feed-in tariffs over a specified period.

	Unlicensed Generation	Energy Community
Porpuse	Generates the energy at its own facilities Increasing public acceptance of RES Improves energy efficiency, lowers bills, and reduces energy poverty	
Income Model	Selling surplus energy	
Participants	A single consumer with one or more consumption facilities	Citizens, public, and private entities
Manager	-	The participants

- More renewable energy integration
 - Increasing flexibility needs
 - Consumer participation in the power markets
 - More accurate forecasting
- Status of renewable power plants (licensed and unlicensed) whose purchase guarantee period has expired
 - Power plants whose feed-in tariff period will expire within 10 years:
 - 15 GW of unlicensed RES
 - 17 GW of licensed RES

Aggregation Activity in Electricity Market Law

Electricity Market Law;

Aggregation
Activity

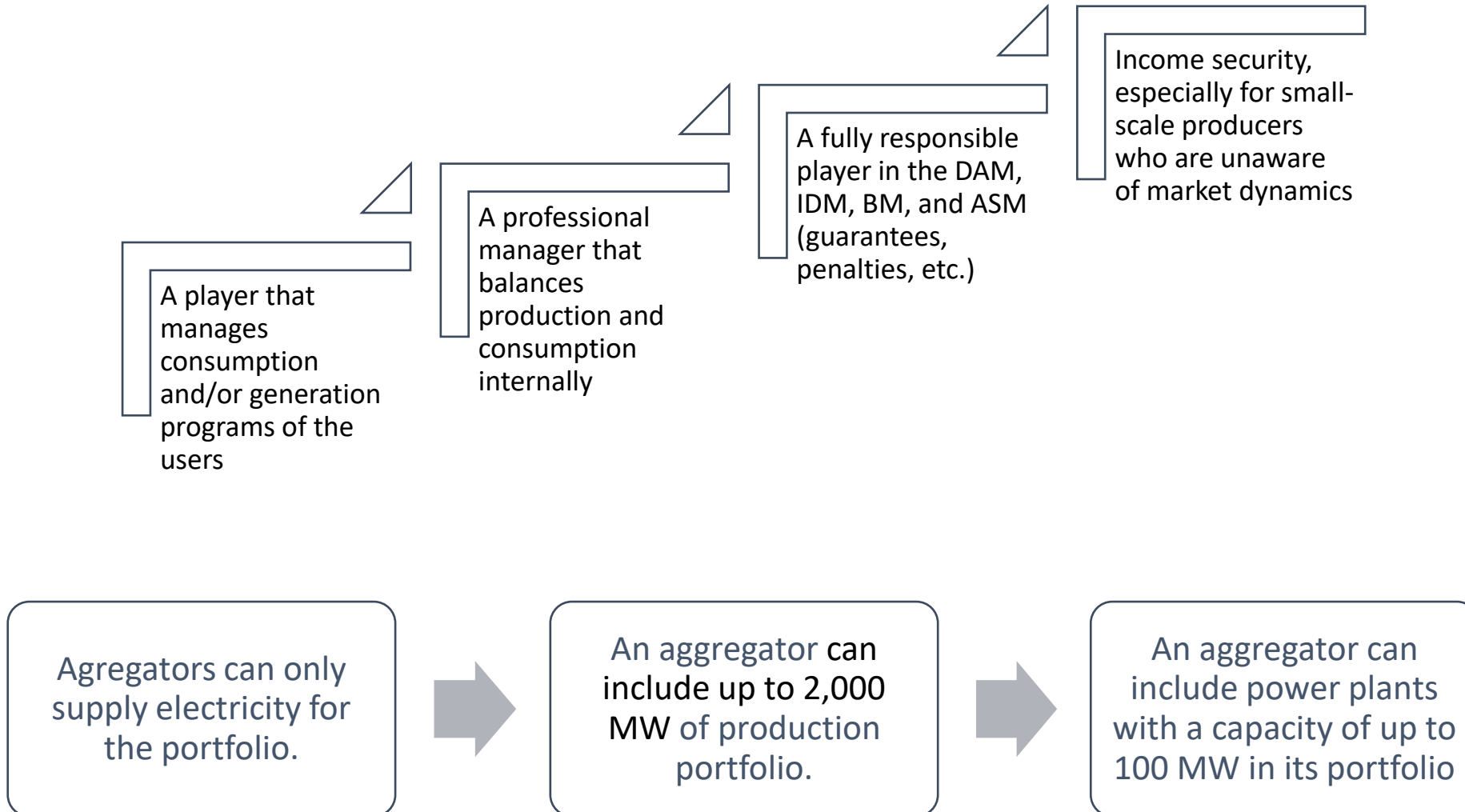
Aggregator
License

«**Aggregation:** Market activity carried out by the aggregator to operate the consumption and/or generation of one or more network users by way of combining the same.»

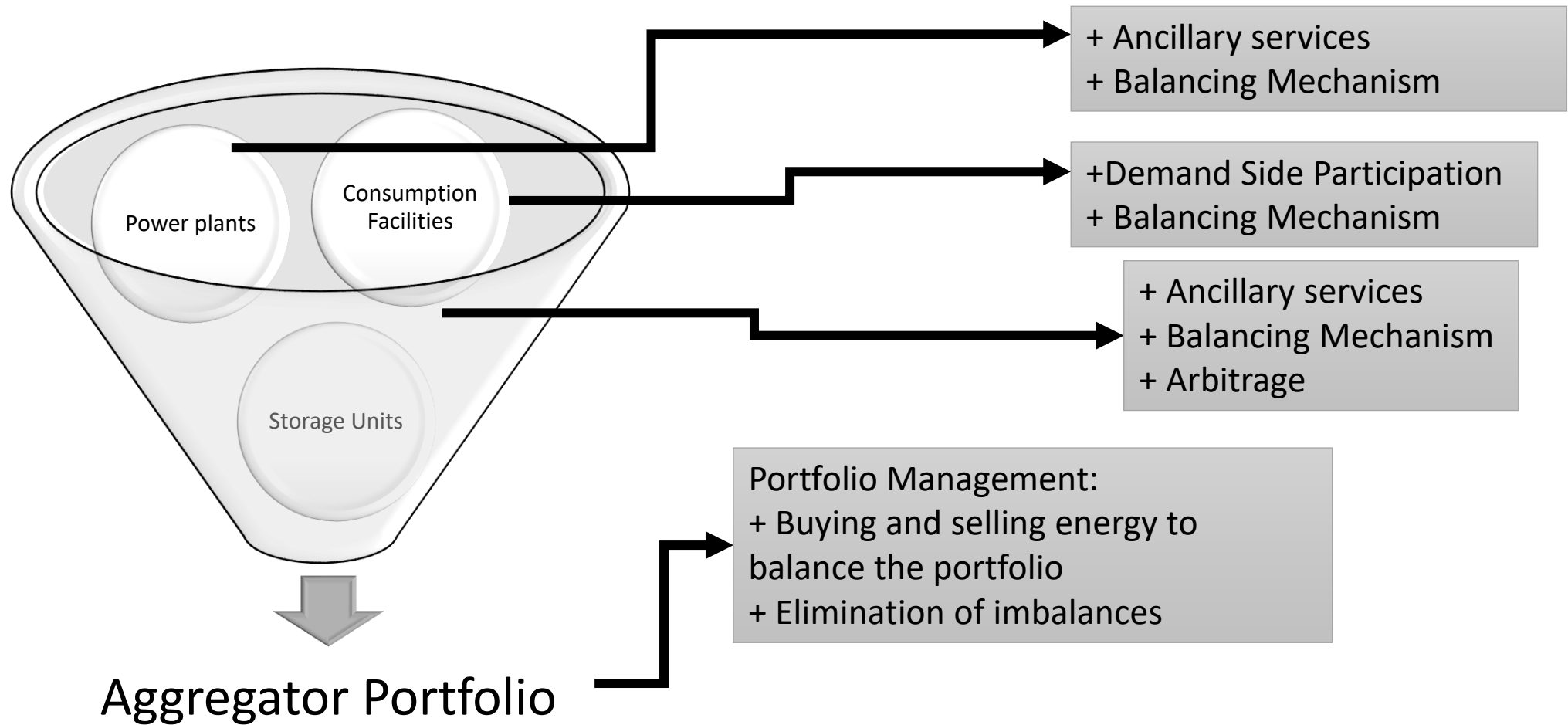
«The aggregator;

- Manages the consumption and/or generation programs,
 - Carry out market transactions
 - Participates in the procurement processes regarding ancillary services
- on behalf of its contracted users.»

Aggregators as a Market Participant



Forming Portfolio



Expectation from Aggregators

- Balancing portfolio internally
- Participate in procurement processes of the Demand Side
- More reliable forecast (consumption, generation)
- Monitoring users in the portfolio in real-time for specific services (DSP, BPM, etc.)
- Carrying out market operations on behalf of users who are unaware of market conditions and ensuring income security



THANK YOU FOR YOUR ATTENTION!

Ahmet Hüsrev İPEKLi
aipekli@epdk.gov.tr