



# Current Status and Opportunities of the Greek RES Market

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# Presentation content

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- Long Term Energy Planning 2020-30
- RES Auctions
- The Target Model
- Beyond Tenders: PPAs and other Business Models
- Acceleration of Licensing Process for Increased RES Penetration
- Conclusions

# Long-Term planning 2020-2030

## Draft Targets 2030

Electricity Generation Source	Installed Power [GW]			
	2016	2020	2025	2030
Fossil Fuels - Lignite	4.3	3.4	3.5	2.7
Oil	2.5	1.8	1.5	1.4
Natural Gas	3.9	5.2	5.2	5.4
Hydro	3.4	3.4	3.7	3.9
Bioenergy (Biomass-Biogas)	0.1	0.1	0.1	0.3
Wind	2.4	3.4	4.2	6.4
PV	2.6	3.3	5.5	6.9
Solar Thermal	0.0	0.0	0.1	0.1
Geothermal	0.0	0.0	0.0	0.1
<b>Total RES (Excluding Hydro)</b>	<b>5.1</b>	<b>6.7</b>	<b>9.9</b>	<b>13.8</b>
Energy Storage Power	0.0	0.0	0.0	0.7

# Long-Term planning 2020-2030

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The Greek long-term energy planning is expected to *be concluded by year end*

Preliminary target for cumulative until 2030:

Wind capacity : **6.4 GWp**

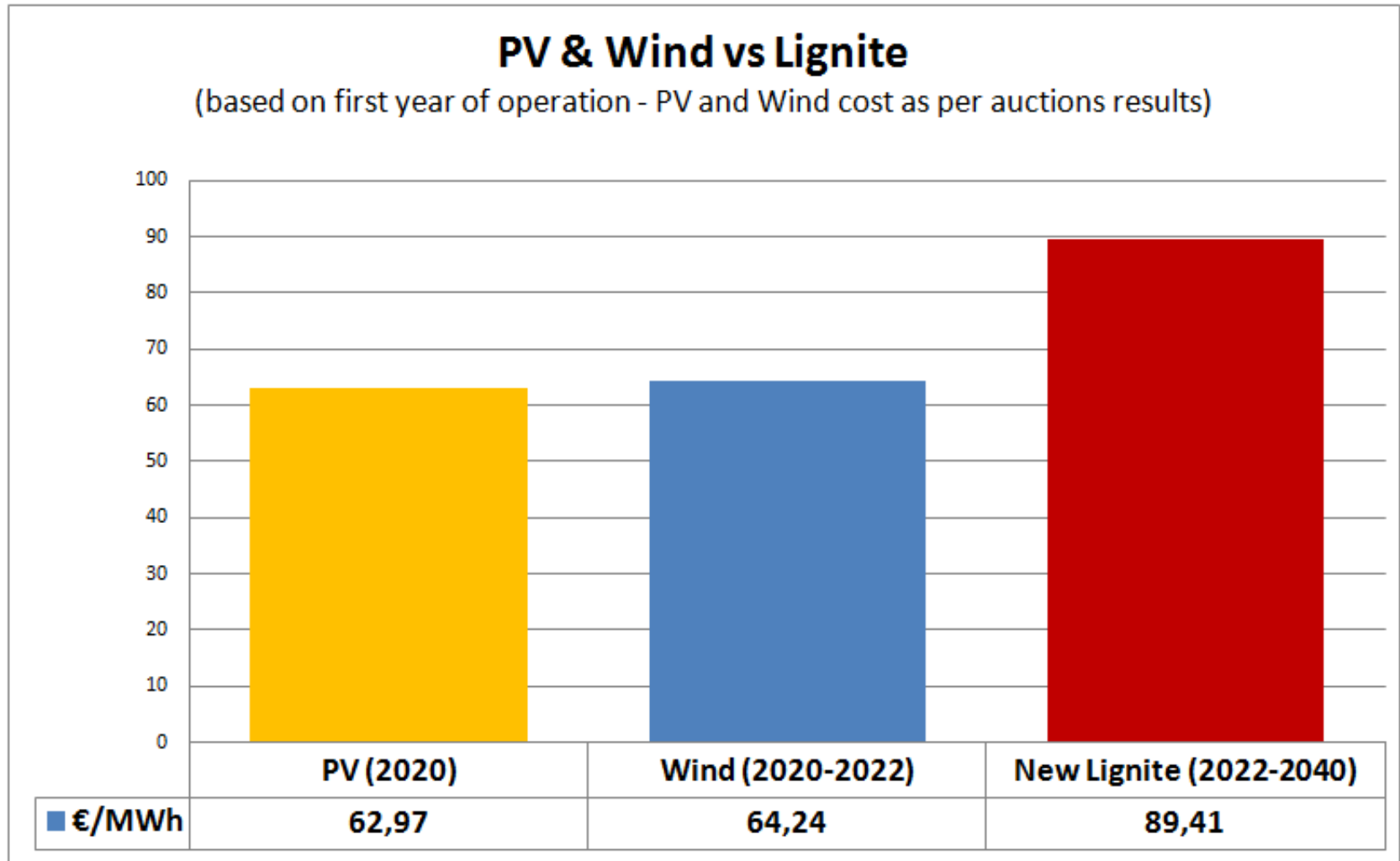
PV capacity : **6.9 GWp**

**8.4 GW Additional RES until 2030**

This target is **expected to increase**, as total RES share is decided to increase from 31% to 35% of gross energy consumption, resulting from old lignite energy plants withdrawal.

RES electricity share is expected to be over 60% by 2030

# RES Auctions strike price lower than Lignite

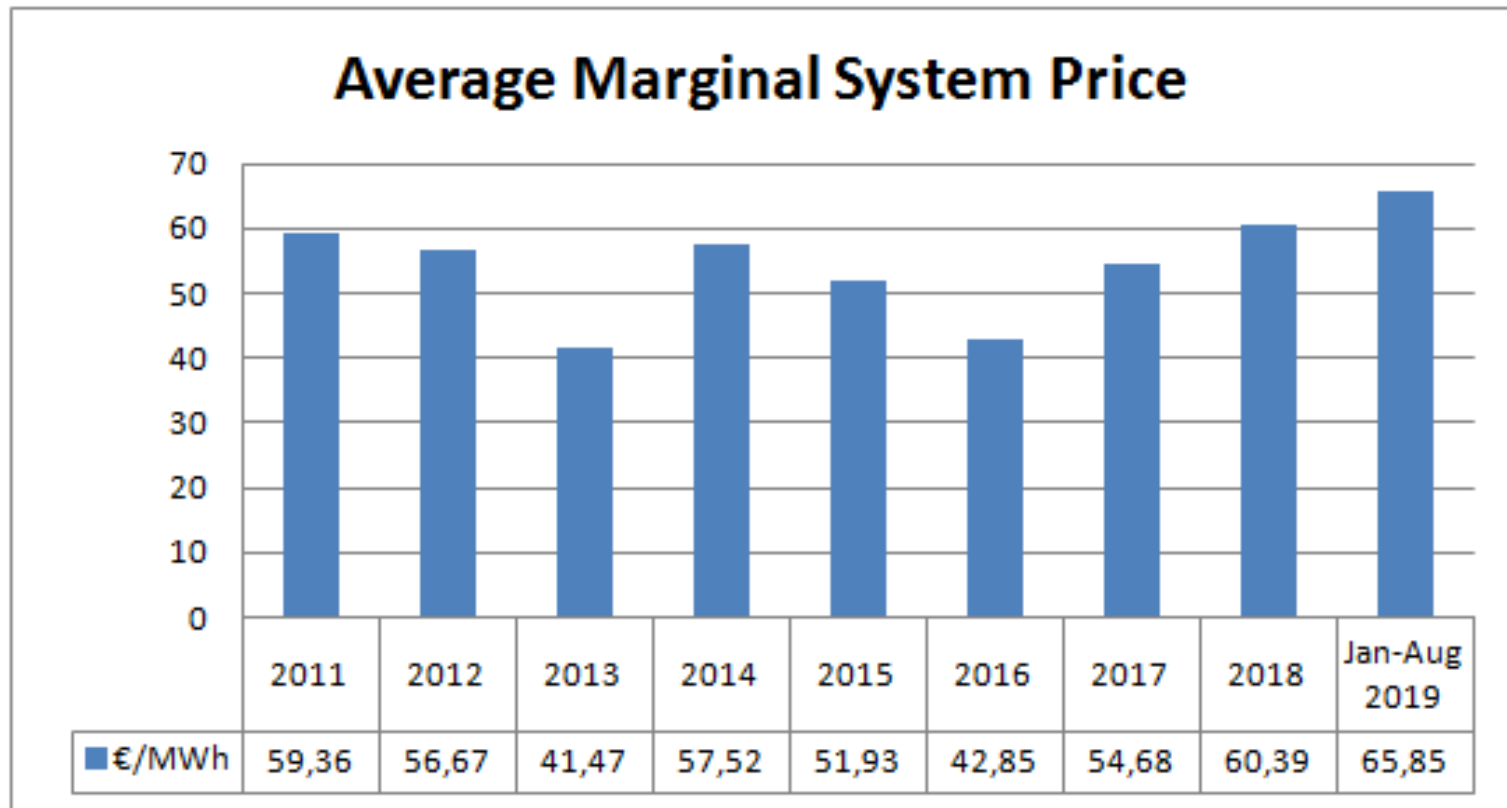


# **EU Target Model, subsidy-free RES projects, Corporate PPAs and Storage**

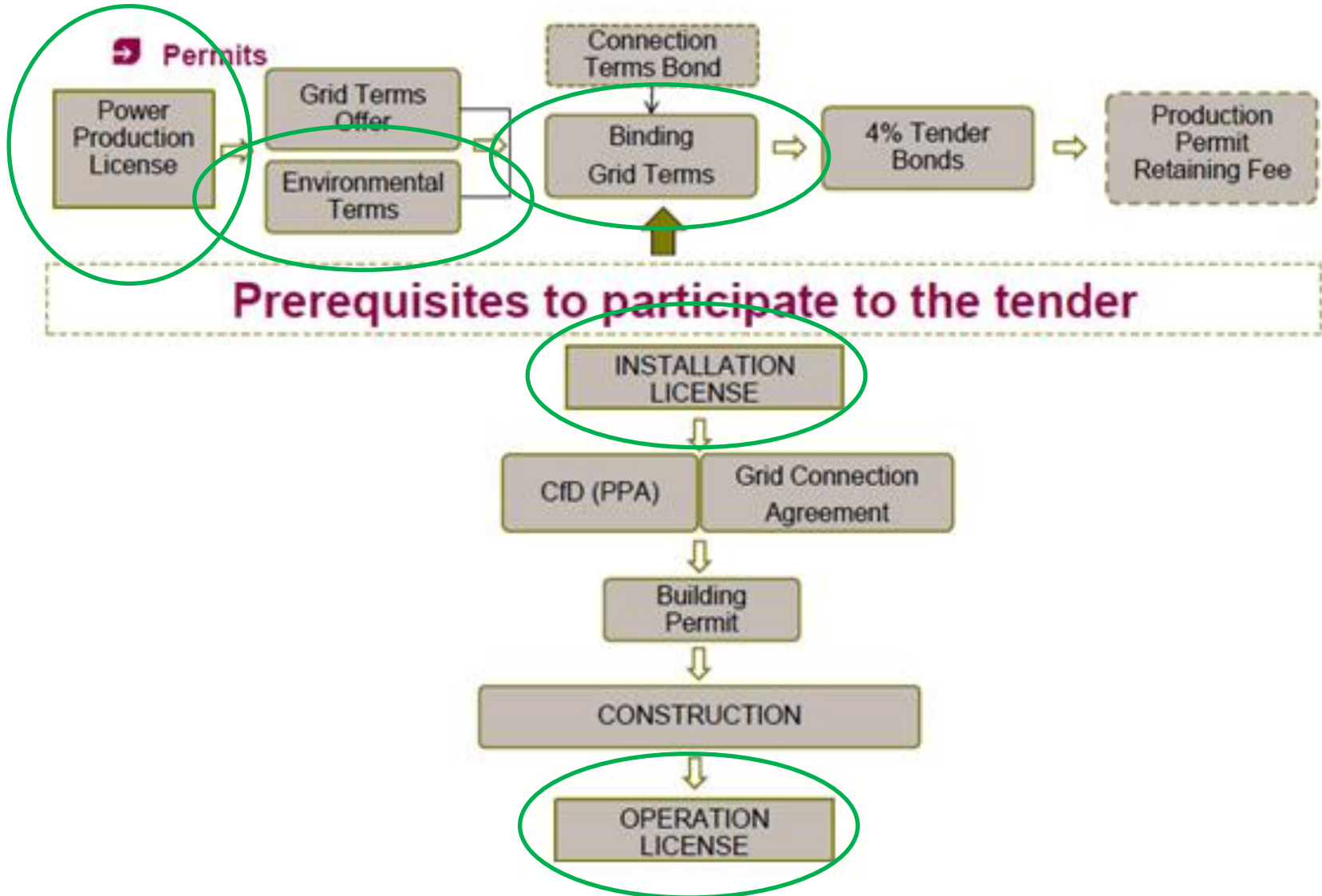
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- **The EU Target Model** in Greece to be launched as of H2-2020  
**New RES projects** will have to participate in the **energy markets (Day-Ahead, Intra-Day and Balancing)**
- **Corporate PPAs** to become possible  
(RES LCOE Competitive to Wholesale Prices)  
New Opportunities and Business Models for Energy Investors and Industrial Consumers
- **RES plus Storage market** (Behind the meter Storage) to be possible after 2020
- **In Front of the meter Storage**
- **Non-interconnected Islands Hybrid Projects** Regulatory framework to be finalized in 2020

# The average wholesale market prices

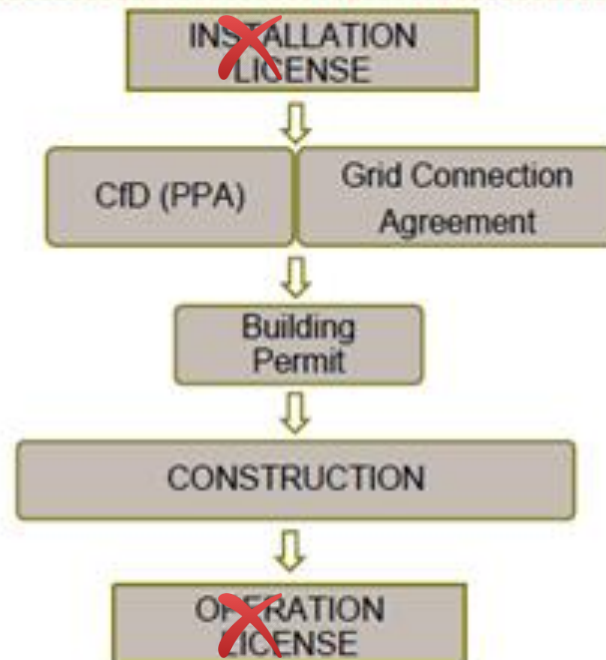
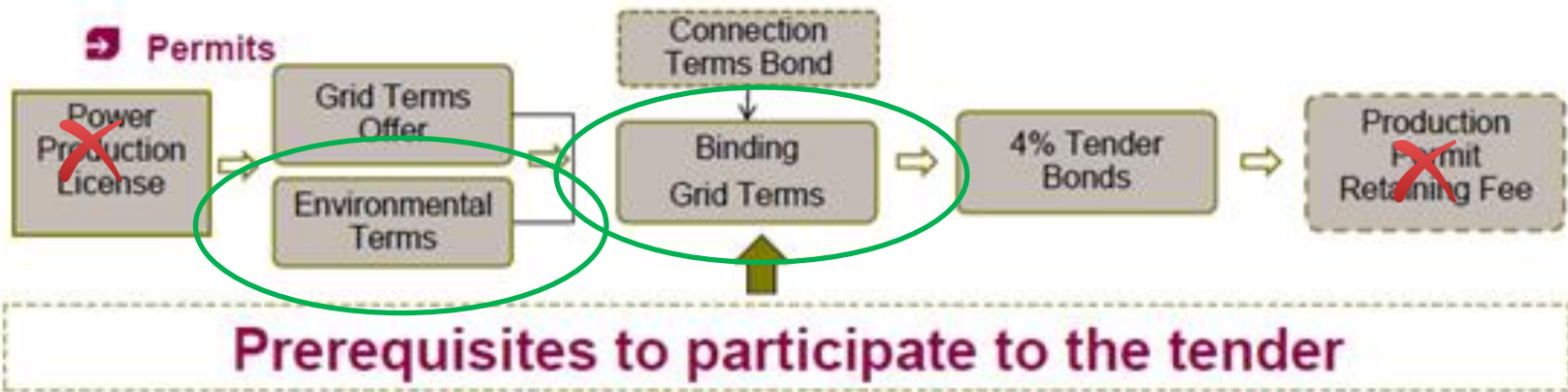


# Current RES Licensing scheme





# Need for Simplification of the RES Licensing scheme



# Conclusions

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- More than 8.4 GW Additional RES until 2030  
RES Share to increase from 31% to 35%
- New Business opportunities Resulting Target Model  
Introduction (2H 2020)
- Licensing acceleration is needed in order for 2030  
targets to be met