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Enabling retail renewable energy projects

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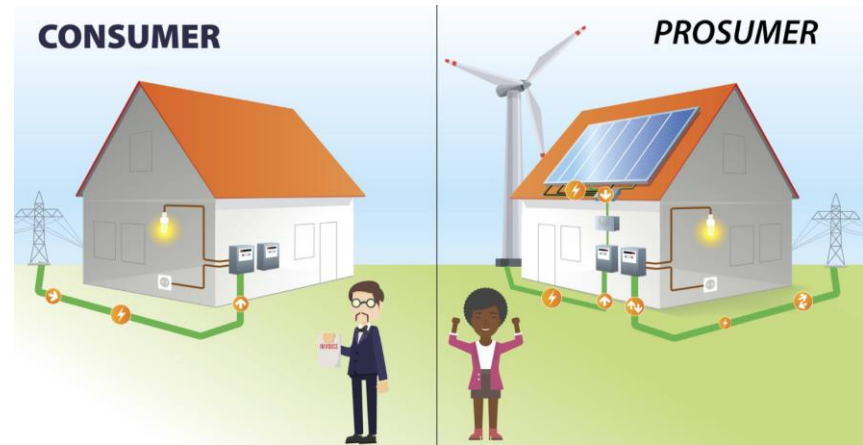
Lithuanian interregional meeting

24 November 2020

Improved RES accessibility

Challenges

- ❖ difficult and lengthy process for small scale RES
- ❖ limiting legislation related to the prosumers



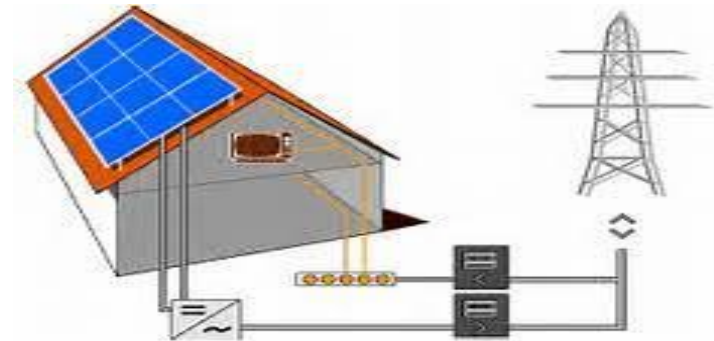
Corrective measures / solution

- ❖ prosumer definition identified and clarified
- ❖ procedures (to become prosumer) reduced from 11 to 4
- ❖ number of documentation to install RES reduced from 30 to 3
- ❖ number of days to install RES reduced from 105 days to 21 days
- ❖ easy and simple process for power plants up to 30 kW
- ❖ lower fees for households to become prosumer

National energy infrastructure RE storage

Challenges

- ❖ High cost of renewable energy (RE) storage investments
- ❖ Unbalanced energy production and limited use storage capacities during the year



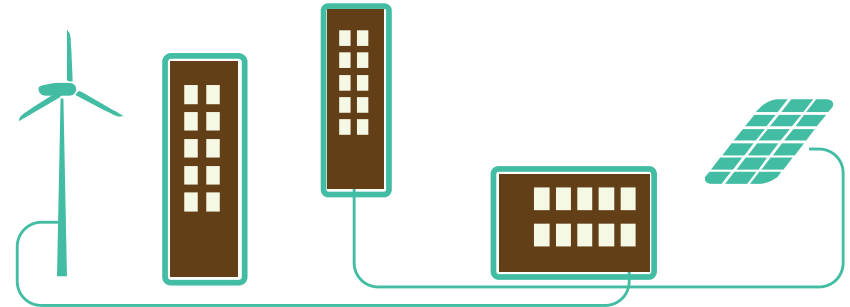
Corrective measures / solution

- ❖ national energy infrastructure to act as storage facility (especially for electricity produced in summertime) for retail prosumers
- ❖ electricity saved on the grid for a fee (commercially based service price calculated by independent National energy regulatory council): a) for amount (kWh); b) for capacity (kW); c) binary (for kWh and kW); d) by the surplus of energy
- ❖ accumulation period from the 1st of April until the 31st of March next year (balancing annual production and consumption)

Virtual RES power plants

Challenges

- ❖ need to increase the number of the prosumers in the country and promote use of RES
- ❖ technical challenges to install RES in some properties



Corrective measures / solution

- ❖ In 2019 Lithuanian Parliament approved amendments to the Law on Renewable Energy which opened the opportunities for any electric energy user to become electricity producing consumers and consume electricity generated from remotely situated RES
- ❖ technology neutral solution [currently dominated by solar powerplants]
- ❖ partially owned or rented model introduced

Crowding-in platform

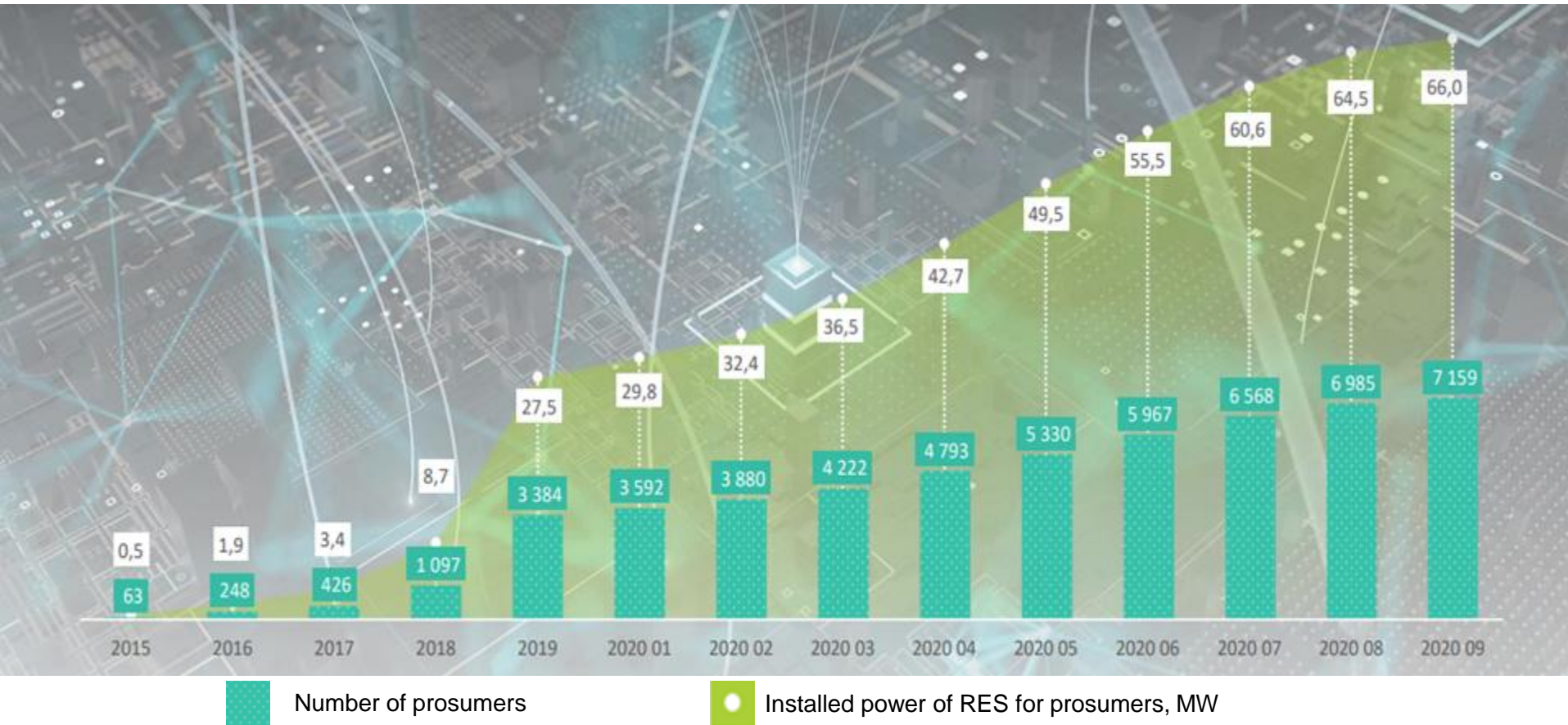
Challenges

- ❖ technical difficulties to become prosumer (not all willing have technical possibilities to use RES)
- ❖ how to choose reputable RES equipment supplier?



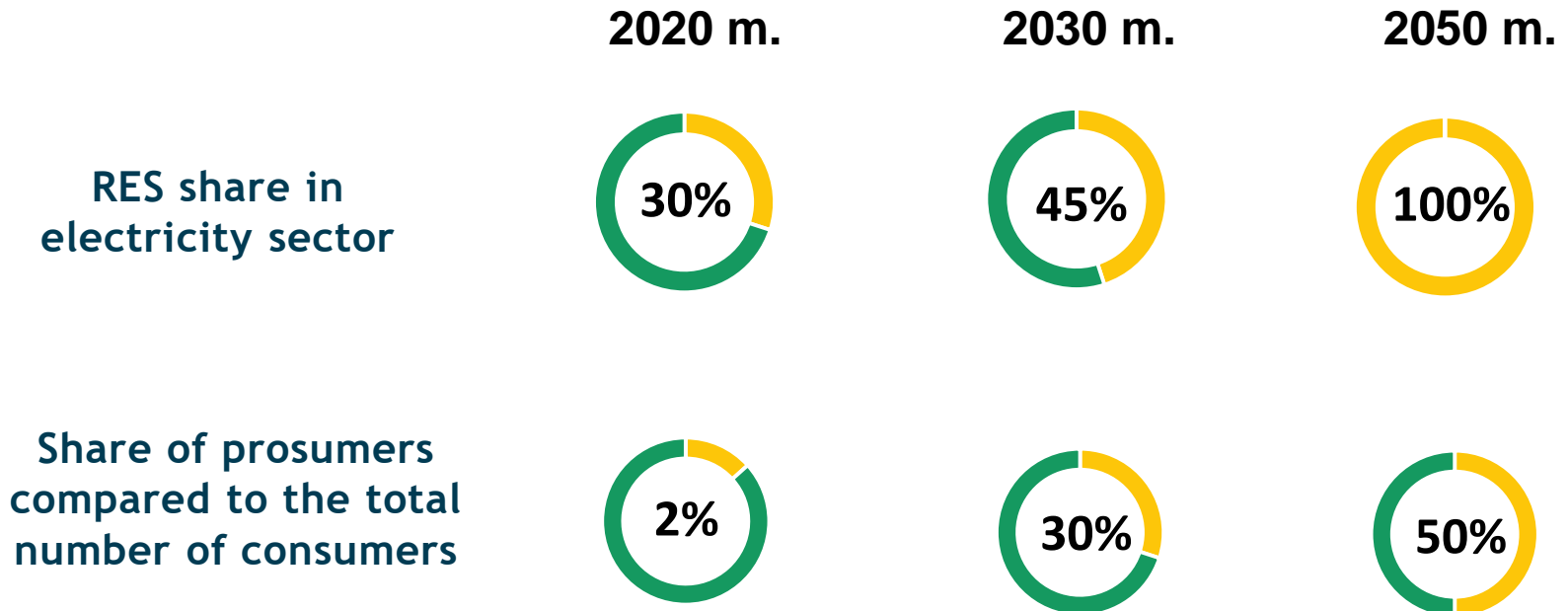
Corrective measures / solution

- ❖ on 1st of October 2019, the world's first nationwide platform Saulės Parkai (Solar parks) has been launched and is available to residents willing to produce solar energy for their homes in virtual platforms
- ❖ platform acts as independent and neutral to all market players entity bringing together solar parks developers and prosumers
- ❖ added value to demand and supply sides
- ❖ commercially viable platform (no public funding needed)



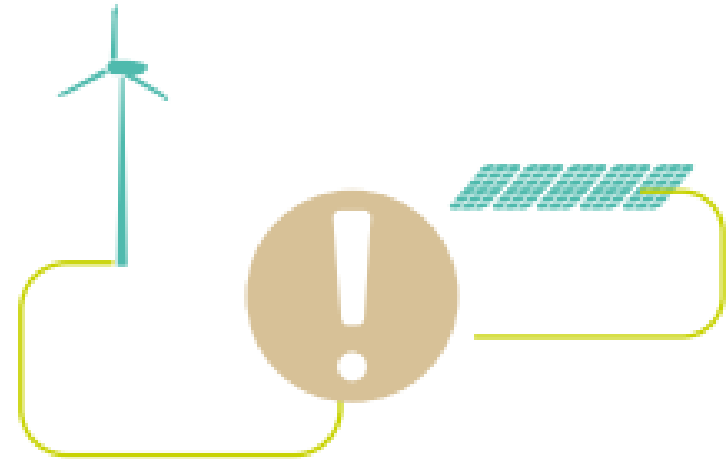
- ❖ >2200 new prosumers and 18,8 MW RES installed capacity in 2019
- ❖ >3700 new prosumers and 38,5 MW RES installed capacity during 3 quarters of 2020

Long term energy independence strategy



New developments in prosumers market (Prosumers 2.0)

- ❖ subsidizing the cost related to connection of prosumers to the network
- ❖ further development of legislation promoting increase in prosumers sector
- ❖ development of new information systems for small scale prosumers enabling for better protection of their rights
- ❖ further simplification of procedures for prosumers
- ❖ transfer of energy produced between prosumers and periods is explored
- ❖ possibilities for energy communities to be introduced
- ❖ exploring possibility to integrate electric cars, charging stations and heat pumps with prosumers model
- ❖ new incentives and funding models to be developed



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Thank you!

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