



Corporate Sourcing of Renewable Energy in CSEE

How corporate demand drives new RES assets development

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Prague



- About RE-Source Hub Bulgaria
- Decarbonizing the energy sector in CSEE
- Regional power market integration
- Corporate renewable energy procurement in CSEE – drivers and challenges
- Re-Source Southeast Hub conference



RE-Source Hub Bulgaria / SEE

RE-Source Hub Bulgaria was established in May 2021 by **APSTE** (Association for Production, Storage and Trading of Electricity) and **BGWEA** (Bulgarian Wind Energy Association)

Goals:

- promote renewable corporate sourcing in Bulgaria and the greater region of South-Eastern Europe
- facilitate knowledge sharing and business collaborations in corporate sourcing of RES
- drive forward policy and market developments by simplifying administrative procedures
- favorable regulatory framework for widespread deployment of affordable and reliable power generation
- RE-Source Southeast - invite further RES associations to create a truly regional RE-Source Hub in SEE

apste.eu



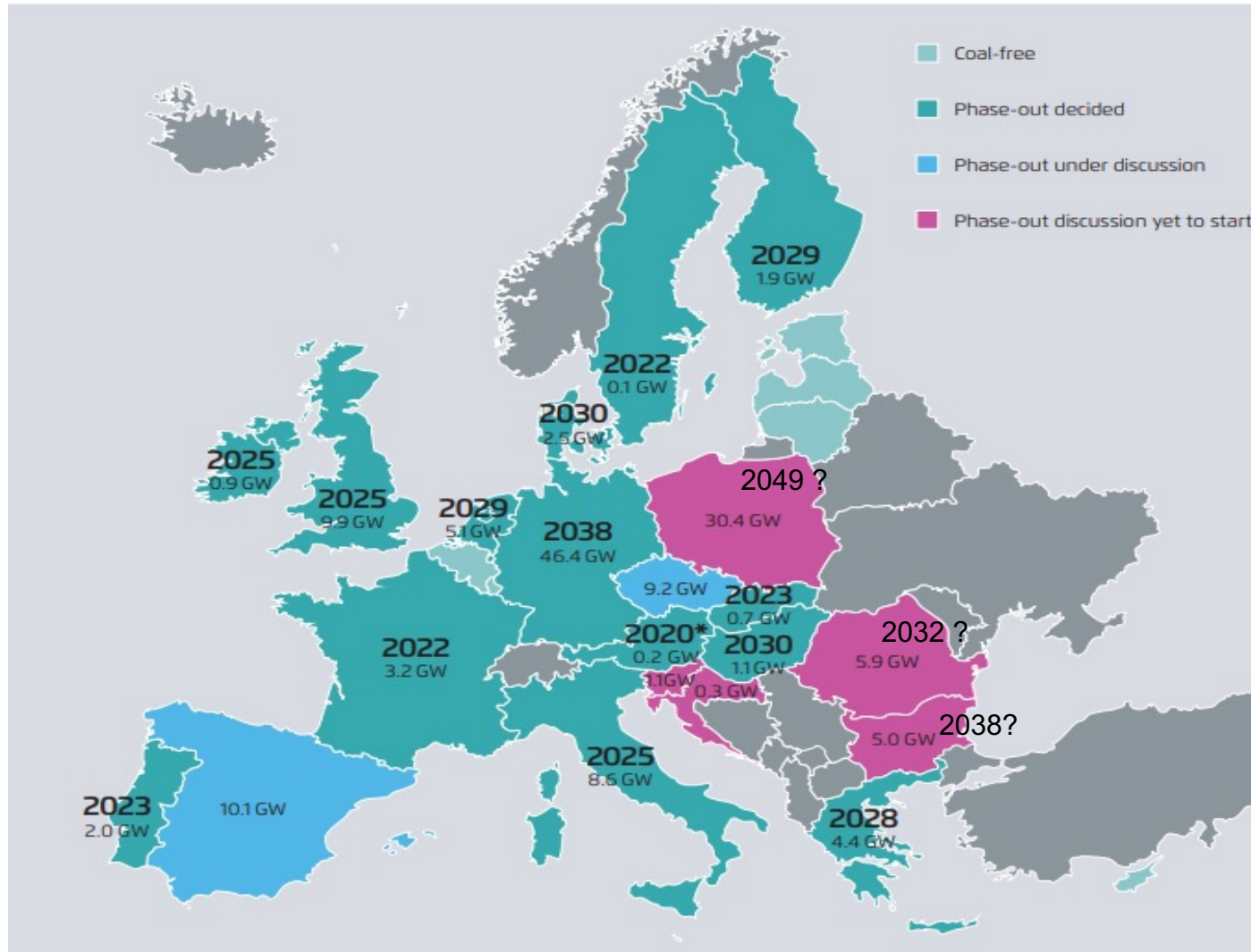
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Decarbonising the Electricity Mix in CSEE

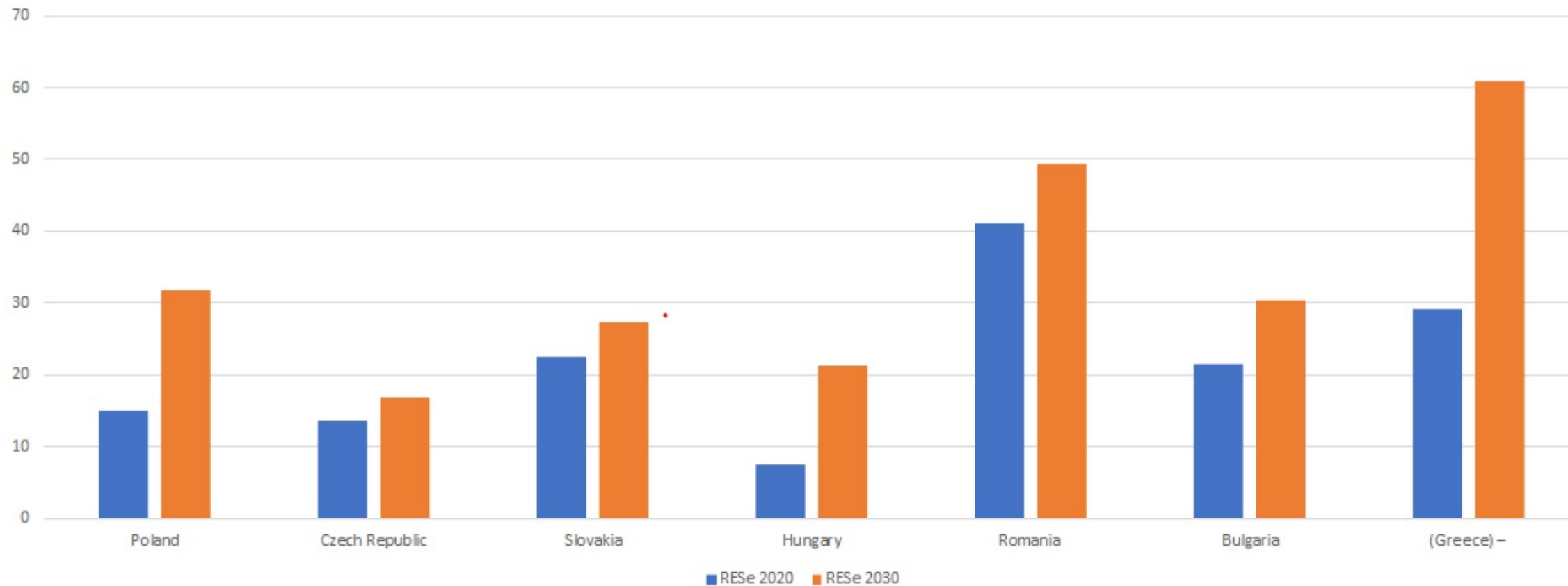


Source: Europe beyond Coal 2020 and APSTE

- Most countries in the CSEE region had a late start in the decarbonization of their energy mix (but could potentially catch up quickly)
- New RES investments are needed to secure the capacity of the TPP-to-be-phased-out and the resource potential is still largely untapped
- Companies (especially energy intensive industrial enterprises) are looking at on-site investments or corporate PPAs to mitigate rising electricity costs

Official targets CSEE

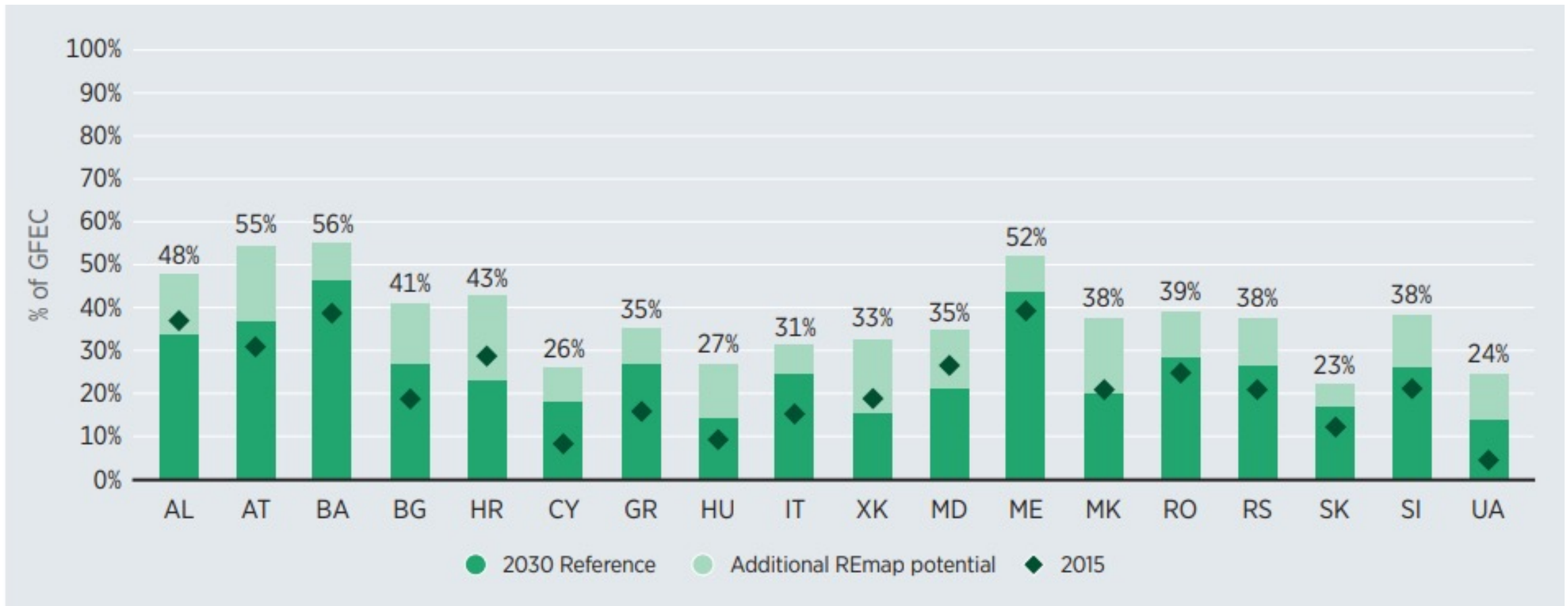
Projected share of RES in electricity generation 2020 / 2030



Source: E3G

Additional potential for RES in gross final energy consumption

By stepping up RES investments, the economies of Central and Southeast Europe could cover on average 34% of their rising energy demand cost-effectively with renewables.



Source: IRENA analysis, Renewable energy prospects for Central and South-Eastern Europe Energy Connectivity (CESEC), 2020

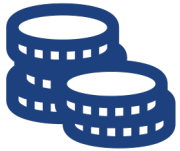
Regional power market integration



- Market coupling further increases regional power markets liquidity and ensures homogeneous wholesale prices in the region:
 - Intraday market segment has been coupled with the Romanian power exchange (OPCOM) since Nov 2019
 - Day-Ahead Market Segment has been coupled with Greek DAM since May 2021. Greek power exchange is linked with the Italian exchange. Interconnection capacity is reinforced and will reach 1.5 GW by 2023
 - Day-Ahead Market Segment will be coupled with OPCOM in October 2021. OPCOM is already linked with Hungarian (HUDEX) and Czech's PX. The free capacities for trading on the Bulgarian-Romanian border once the market coupling is launched are expected to be around 700-800 MW for every hour.
- EU regulations oblige the TSOs to make available to market participants a minimum of 70% of net transmission capacity by 2024, and to increase the interconnection capacity to 15% (based on installed power production)

Corporate renewable energy procurement in CSEE – rising demand and a few remaining roadblocks on the way

Drivers



Economic savings



Climate / ESG targets of parent company



Green company values and image



Independent electricity supply

Roadblocks



Policy & power market design: outdated or restrictive regulatory framework



Administrative hurdles: lengthy permitting, grid connection processes



Financial constraints: high initial investment costs



Technical: high complexity of cPPAs, market maturity and liquidity

RE-SOURCE SOUTHEAST CONFERENCE

SOFIA SEPTEMBER 13 - 14, 2021



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**Corporate
renewable sourcing**



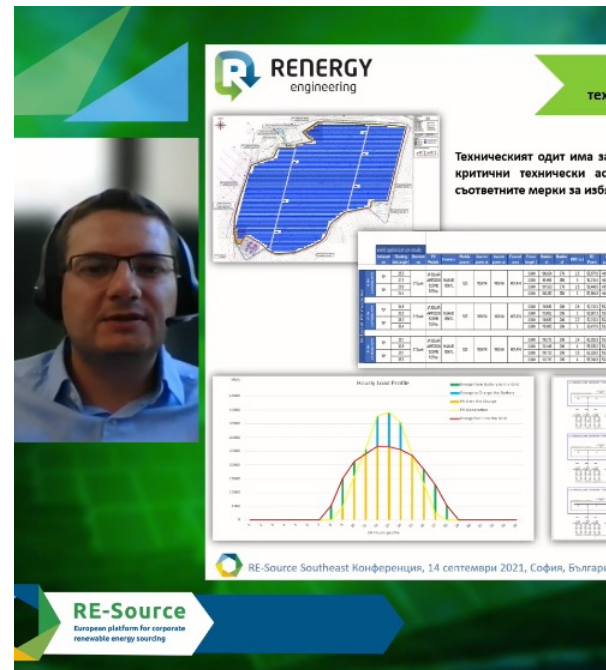
RE-Source SEE 2021 - Partners





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REENERGY
engineering

Техническият одит има за критични технически аспекти съответните мерки за избор

RE-Source Southeast Конференция, 14 септември 2021, София, България

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СЪХРАНЕНИЕ НА ЕНЕРГИЯ
ПАЗАРНИ ПЕРСПЕКТИВИ ЗА БЪЛГАРИЯ

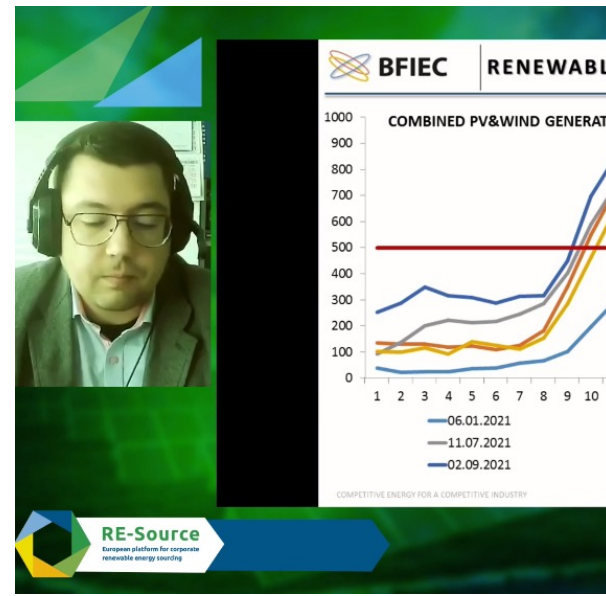
APSTE
Storage and Trading of Electricity

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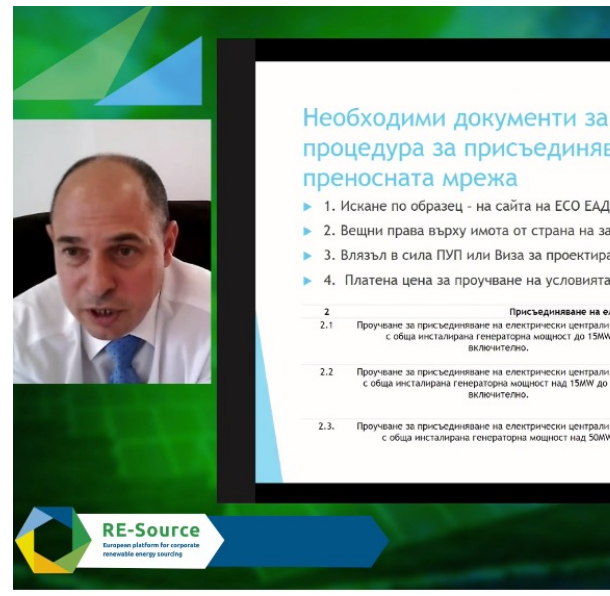
BFIEC | **RENEWABLES**

COMBINED PV&WIND GENERATION

06.01.2021
11.07.2021
02.09.2021

COMPETITIVE ENERGY FOR A COMPETITIVE INDUSTRY

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Необходими документи за процедура за присъединяване на преносната мрежа

- 1. Искане по образец - на сайта на ЕСО ЕАД
- 2. Вещни права върху имота от страна на заявителя
- 3. Влязъл в сила ПУП или Виза за проектиране
- 4. Платена цена за проучване на условията

2. Присъединяване на ел. централа

2.1. Присъединяване на електрически централи с обща инсталирана генераторна мощност до 15MW включително.

2.2. Присъединяване на електрически централи с обща инсталирана генераторна мощност над 15MW до 50MW включително.

2.3. Присъединяване на електрически централи с обща инсталирана генераторна мощност над 50MW

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RE-Source SEE 2021 - Highlights

- Romania to get more than 7 GW of new RES and Greece - more than 30 GW by 2030
- Bulgaria - 8.5 GW of new grid connection applications submitted with the TSO in the past year alone – 500 MW at distribution level
- Romania announces 1st corporate PPA (Axpo signs 7-year deal with CEZ's Fântânele-Cogealac-Gradina wind farm for 4 TWh of electricity production)
- Bulgaria's first long-term corporate PPA from a new RES plant is expected by the end of 2021
- Construction of solar power plants for self consumption is one of the measures the industry has taken to reduce electricity costs
- Solar for self consumption can cover up to 16% of total consumption and more is needed (according to energy intensive industry)
- Energy legislation reforms in BG expected in Q1 2022 upon establishment of new energy commission in parliament
- [Ground-breaking study of market perspectives for energy storage technologies in Bulgaria](#) - at least 7 GW of new RES by 2030, together with 1.7 GW of energy storage systems

Affordable RES - lifeblood of energy intensive industries in EU



**Affordable renewable energy is the lifeblood
of the European energy-intensive industries**

Joint statement

Brussels, 20 October 2021



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Thank you!

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