

Association Renewable  
Energy Sources of  
Serbia

*Energy sector in Serbia*  
Opportunities for  
Belgian companies

March 30th, 2023





## **Association Renewable energy sources of Serbia**

- **Business association founded on February 24th, 2021.**
- **The foundation was established with the support of the European Bank for Reconstruction and Development.**
- **Established by companies that own the three biggest wind farms in Serbia:**  
*Vetroelektrane Balkana DOO Beograd (Čibuk 1)*  
*Electrawinds K-Wind d.o.o. Kovačica (Kovačica)*  
*Elicio Ali VE d.o.o. Beograd (Alibunar)*
- **Non-profit and non-political organization, green business association.**







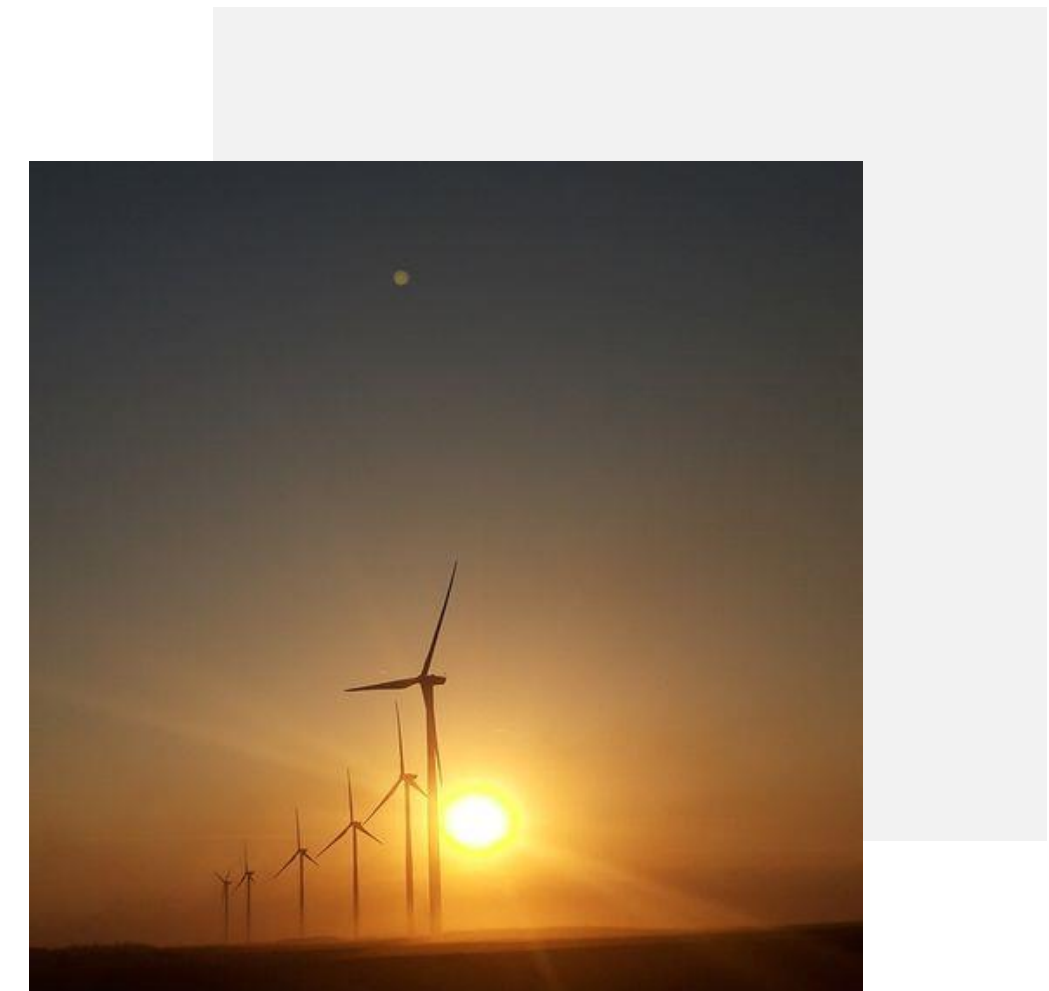
- **The goal: Improving the business environment in the field of renewable energy sources.**
- **On April 21st 2021, the Association RES Serbia concluded a Cooperation Agreement with the Ministry of Mining and Energy.**
- **In July 2021, we became a member of WindEurope.**
- **On September 15th 2021, the Association RES Serbia organized the first major conference dedicated to green energy under the name RES Serbia 2021.**



- **On September 15th 2022, the Association RES Serbia organized RES Serbia 2022 conference, which brought together the local and European green energy elite.**
- **RES Serbia 2022 surpassed last year's conference with the huge interest and more than 400 participants.**
- **The plan is for the RES Serbia conference to become traditional, and the fact that it is already ranked among the largest green energy events in the region indicates that it will be so.**



- **Representatives of the Association often participate in public discussions and panels on the topic of energy and renewable energy sources both in the region and in Europe.**
- **The Association develops a number of projects related to the welfare of the local communities where our members' facilities are located.**
- **We organize different working groups and do our best to help improve the business environment in the field of energy.**
- **RES Serbia has submitted the Initiative for changing the Methodology for determining the maximum purchase price of electricity.**







**- Representatives of the Association RES Serbia participated in the public discussion regarding the amendment of the Law on the Use of Renewable Energy Sources, giving comments on the draft law on the amendment of the current law.**

**- At the end of 2022 and at the beginning of 2023, the Association, with the support of the Embassy of Canada in Serbia, implemented a project called "The road to greater participation of women in the RES sector". As the end of this project, the Association organized the conference "(Green) Energy is a feminine word" in Belgrade, which was extremely well received.**



- **The total number of employees in the member companies of our Association is 25.000.**
- **Members of the Association produce more than 90% of green energy in Serbia, and Public Enterprise Elektroprivreda Srbije (EPS) has been a member of RES Serbia since October 15th, 2021.**
- **We actively contribute to the public-private dialogue as participants in working groups for drafting laws and by-laws.**
- **As of December 2022, the International Finance Corporation World Bank Group (IFC), as well as the European Bank for Reconstruction and Development (EBRD), are among the associated members of the Association.**





- **The Association Renewable Energy Sources of Serbia has 19 regular and 12 associate members as well as 1 honorary member.**
- **Our members include the largest wind farms, solar power plants, biogas and biomass power plants in Serbia, as well as consultants, insurance companies, and law firms in the field of energy.**
- **The Association has 4 working bodies: Engineering Forum, Legal Team, Green Women's Network and RES Young Leaders.**





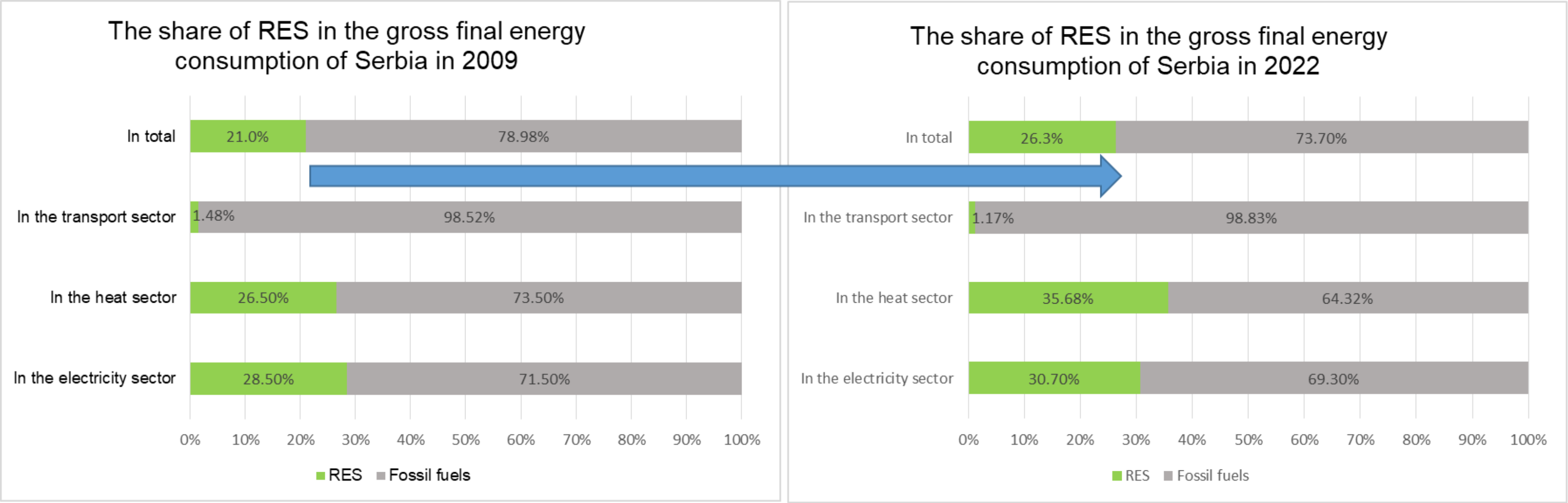
## **The Beginning of Energy Transition and the First National Goals**

- **Serbia started the transition to green energy in 2013.**
- **The National Action Plan for the use of renewable energy sources set a national target of 27% RES in gross final energy consumption in 2020 and 10% in transport.**
- **Renewable energy sources is a key tool in the country's energy transition process.**



# How close did Serbia get to the National Goal of 2020?

**Feed-in tariffs and biomass consumption increased the share of RES to 26.3% against the target of 27%.**





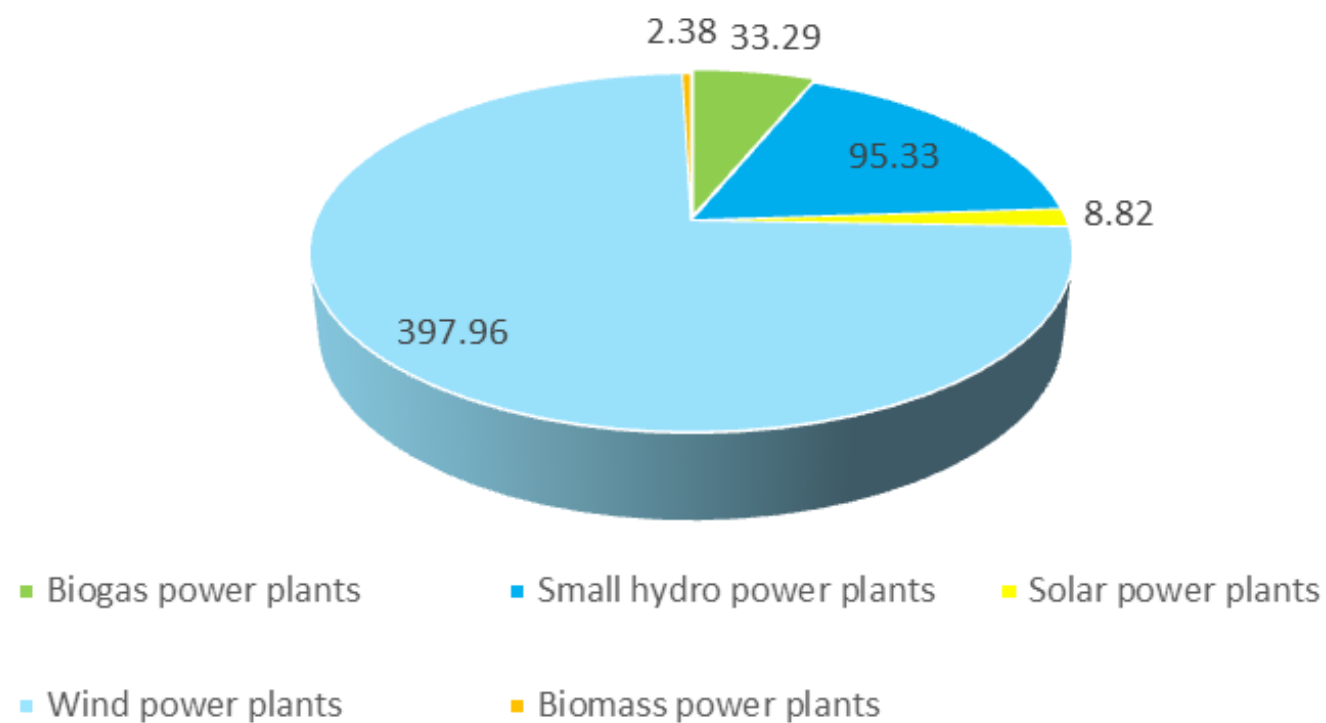
# Feed-in tariffs in the Function of RES Growth

- In 2016 feed-in tariffs and PPA\* initiated the first large investments in Serbia in the field of RES. The largest capacities are in wind power plants, while SHPP\*, solar and biogas power plants dominate in power plants.

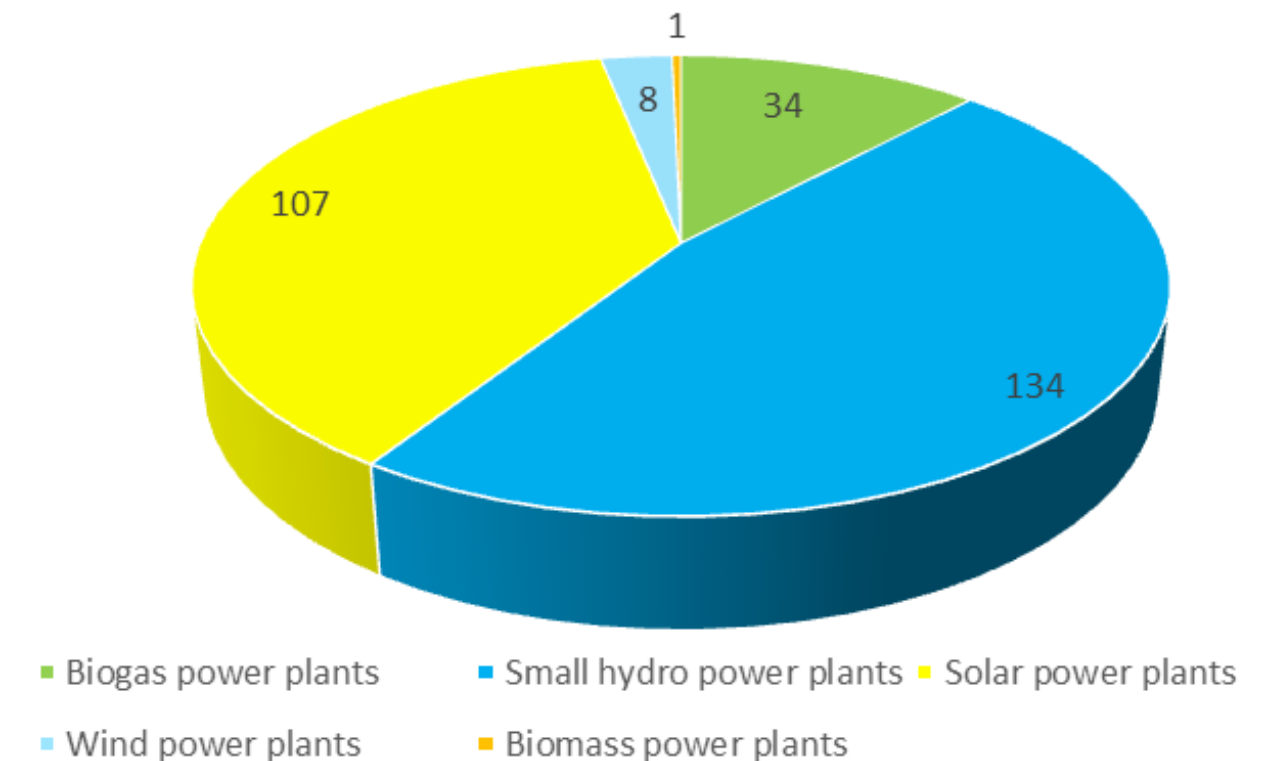
\*PPA – PowerPurchase Agreement

\*SHPP –Small Hydro Power Plant

Total capacity under feed-in tariff (537 MW)



Total number of power plants under feed-in tariff (284)





## Wind Farms in Serbia

- **The total value of investments in wind farms is around 706 million euros.**  
**Annual production is 1.303 GWh.**
- **The total annual savings in CO2 emissions are estimated at around 1,421,396.14 tons of CO2.**

Power plant	Location	Power kW	Company	Savings CO2
Devreč 1	Tutin	500,00	HIDROWIND doo, Tutin	1.785,85
Kula	Kula	9900,00	VETROPARK KULA DOO, Beograd	35.359,89
La Piccolina	Vršac	6600,00	ENERGOBALKAN DOO, Beograd	23.573,26
Malibunar	Alibunar	8000,00	Electrawinds Mali WF d.o.o. Beograd-Nov	28.573,65
Alibunar	Alibunar	42000,00	ELECTRAWINDS-S DOO BEOGRAD, Beograd	150.011,65
Košava	Vršac	68000	MK-FINTEL WINDAD, Beograd	242.876,01
Kovačica	Kovačica	104500,00	Electrawinds K-Wind doo Beograd-Nov	373.243,28
Čibuk 1	Kovin	158460,00	VETROELEKTRANE BALKANA DOO, BEOGRAD (STARI GRAD), Beograd	565.972,54
Total emission savings CO <sub>2</sub>				1.421.396,14



# Hydropower Plants in Serbia

- **Large hydropower plants have a total capacity of 2.380 MW, without reversible hydropower plants which are not counted in RES**
- **The capacity of SHPP is 117 MW.**
- **The total HPP\* capacity is 2497 MW.**

\*HPP Hydro Power Plant

\*SHPP Small Hydro Power Plant

Name	Municipality	Installed capacity (MW)
HE Bajina Bašta	Bajina Bašta	420
HE Kokin brod	Nova Varoš	22,5
HE Bistrica	Nova Varoš	104
HE Uvac	Nova Varoš	36
HE Potpeć	Priboj	54
HE Zvornik	Mali Zvornik	125
Pirot	Pirot	80
Vrla 4	Vladičin Han	24,8
Vrla 3	Surdulica	29,37
Vrla 2	Surdulica	24
Vrla 1	Surdulica	50,66
Đerdap 1	Kladovo	1140
Đerdap 2	Negotin	270

# Prosumers

- Simplified connection procedure for households.
- Since the introduction of the system in April 2022, 1.056 prosumers have been entered in the Register of Prosumers. The total installed prosumer power in Serbia is 12.8 MW.

Регистар купаца - произвођача  
Купац-произвођач који је домаћинство

Датум последњег ажурирања: 10.03.2023.

Редни број	Име и презиме	Пребивалиште	Врста купца - произвођача	Врста производног објекта	Општина	Адреса	Катастарска општина	Катастарска парцела	Инсталисана снага производног објекта [kW]	Идентификациони број мерног места	Одобрена снага прикључка [kW]	Датум прикључења купца - произвођача
1	Стојан Кљајић	Дивош	домаћинство	соларна електрана	Дивош	Партизанска 39	Дивош	5381	5,00	7110093454	11,04	10.03.2023.
2	Горан Цветковић	Лесковац	домаћинство	соларна електрана	Братмиловце	Барска 82	Братмиловце	2041	10,80	405000062042	17,25	10.03.2023.
3	Милош Кузминац	Сремска Митровица	домаћинство	соларна електрана	Сремска Митровица	Кнеза Лазара 22	Сремска митровица	1829/58	5,00	7350093441	17,25	10.03.2023.
4	Босиљка Милековић	Мошорин	домаћинство	соларна електрана	Тител	Косовска 54	Мошорин	292	5,50	1360542761	17,25	09.03.2023.
5	Хана Петровић Судаков	Нови Сад	домаћинство	соларна електрана	Нови Сад	Јернеја Колитара 52	Нови Сад	6953	5,00	1410552449	17,25	09.03.2023.
6	Бисерка Ракић	Ниш	домаћинство	соларна електрана	Ниш	Васе Чаралића 30	Бубањ	4969	10,80	401000112289	17,25	09.03.2023.
7	Љубомир Симоновић	Пејковац	домаћинство	соларна електрана	Житорађа	Живковићи 66	Пејковац	2394	5,81	403000000819	17,25	07.03.2023.
8	Слађан Петковић	Врање	домаћинство	соларна електрана	Врање	Јастребачка 10	Врање	9781	10,00	406000015727	17,25	07.03.2023.
9	Душан Димитријевић	Бор	домаћинство	соларна електрана	Бор	Међеда Усеиновића 38	Бор	2578/2	6,00	402010013878	17,25	06.03.2023.
10	Далибор Гајин	Српска Црња	домаћинство	соларна електрана	Српска Црња	Змај Јовина 47	Српска Црња	1238	5,00	3470165271	17,25	06.03.2023.
11	Снежана Радивојевић	Букуровац 66, Букуровац	домаћинство	соларна електрана	Крагујевац	Букуровац 66, Букуровац	Букуровац	1071/2	5,00	301000092678	17,25	03.03.2023.
12	Иван Шљукић	Алимпија Васиљевића, 16, Земун	домаћинство	соларна електрана	Земун	Алимпија Васиљевића, 16, Земун	Земун Поље	572	10,00	26912870	22,08	03.03.2023.
13	Ђорђе Огризовић	Сомбор	домаћинство	соларна електрана	Сомбор	Коњовићева 8	Сомбор	4011	10,00	6340247556	17,25	02.03.2023.
14	Љубинко Гојак	Браће Југовића, 31,Обреновац	домаћинство	соларна електрана	Обреновац	Браће Југовића, 31,Обреновац	Обреновац	983/2	6,00	26668260	17,25	02.03.2023.
15	Милутин Т. Матић	Билећанска 3, Крагујевац	домаћинство	соларна електрана	Крагујевац	Билећанска 3, Крагујевац	Крагујевац III	12368	6,56	301000083659	17,25	02.03.2023.
16	Драган Живковић	Гундулићева 32, Крагујевац	домаћинство	соларна електрана	Крагујевац	Гундулићева 32, Крагујевац	Крагујевац I	6966	6,00	301000019761	17,25	02.03.2023.
17	Владимир Хуђеџ	Падина	домаћинство	соларна електрана	Падина	2. октобра 38	Падина	2904/5	9,60	4660261734	17,25	28.02.2023.
18	Иван Пешић	Вршац	домаћинство	соларна електрана	Вршац	Светозара Марковића 25	Вршац	28255	10,00	4930263170	17,25	28.02.2023.
19	Небојша Саватовић	Вашица	домаћинство	соларна електрана	Шид	Лењинова 66	Вашица	1088	10,00	7430093403	17,25	28.02.2023.
20	Божидар Грба	Врдник	домаћинство	соларна електрана	Врдник	Микице Лесјака 1	Врдник	438	10,00	5710183005	17,25	28.02.2023.



- The Law on the use of renewable energy sources adopted in April 2021 was not implemented due to the excessive number of requests for connection to the grid (17 GW).
- Amendments to the Law are in progress. Government of the Republic of Serbia adopted amendments to the Law on the use of renewable energy sources at the session on March 16th, 2023.
- The announcement of the first auctions is expected by the end of the second quarter of 2023.
- The National Climate and Energy Plan should be adopted by the end of the year.





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Thank you for your attention