



wiren

# Sibiu, balance between profitability and sustainability

October 2021





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We are  
**the solar energy**  
company

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How can the city of **Sibiu**  
produce **50%** of the energy  
consumed from the sun?



# About Wiren





## We believe in sustainability

Wiren promotes **renewable energy production**, with a focus on energy efficient systems and optimal energy production.

At Wiren, we want to **actively contribute to creating a better community** that unleashes the potential of green energy and makes use of the most energy efficient systems.





## We are passionate about solar energy

In a world where customer needs are neglected instead of being met with precision, Wiren focuses on **improving the customer experience** and offering customized solutions for their real needs.

We are "**customer centric**" - we manage every aspect of the process - from initial consulting and engineering to installation and commissioning, with unparalleled expertise and professional services.



### Custom solutions

We advise you to build an energy system tailored to your needs, considering the architectural features and the budget you want.



### Premium products

Wiren uses high-efficiency solar panels, along with the right equipment to ensure the best results.



### Over 15 years of experience

Our specialized team will install the photovoltaic system with the greatest care, considering the project management and due diligence.



### Easy funding

Renewable energy costs are considered by the banks as an investment in sustainability. Therefore, a number of banks support and finance this type of investment.



## Projects



**Benelux**

**500 kW**



**Serbia**

**215 kWp**



**Spain**

**186 MW**



**Hungary**

**9.6 MW**



**Portugal**

**218 MW**



**România**

**14 kW**



# Price trends



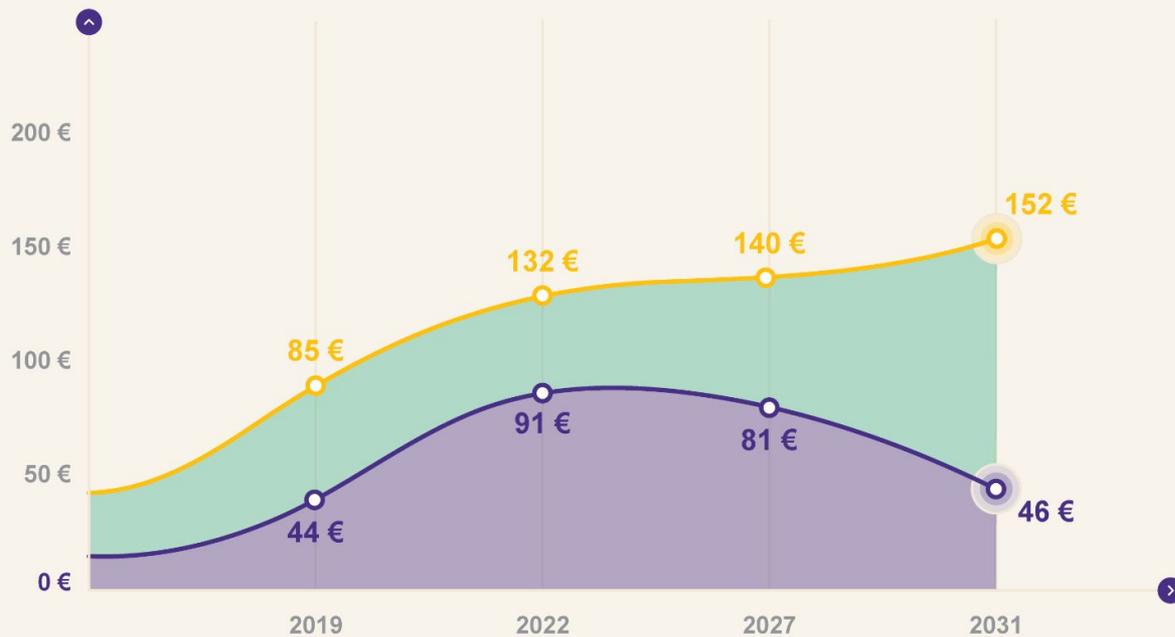


● Total price ● Taxes ● Energy price





● Total price ● Taxes ● Energy price





**Energy will  
belong to everyone**





## Transition to green energy

The number of consumers interested in private investment in solar energy is **constantly growing**.

Any energy consumer can become a **prosumer** which means that they **produce, consume** and **deliver energy to the grid**.

The energy transition offers every consumer the opportunity to take the **first step towards energy independence** at an extremely **low cost**.

According to our calculations, investments in the residential area have the **amortization time** around **7 years**.





## Energy monitoring

In terms of installed equipment, we will provide consumers with free access to a platform where **energy flows** can be **monitored**.

The prosumer can analyze both **solar production** and **self-consumption**, both **delivered to the grid** and **bought from the grid**.





# Green Sibiu





## Assumption of total energy consumption of the municipality of Sibiu





## Residential area

By analyzing official data, we can see that the residential sector has a consumption of **249.011 MWh /year**. Based on this number, **40%** of residential consumers are eligible for installing green energy.

Therefore, this will require the installation of **9.500 PV** systems with an average power of **10kWp**.

Implementation of such a project takes about **9 years**, but in the end it will provide about **23% green energy** from the energy consumed in Sibiu.



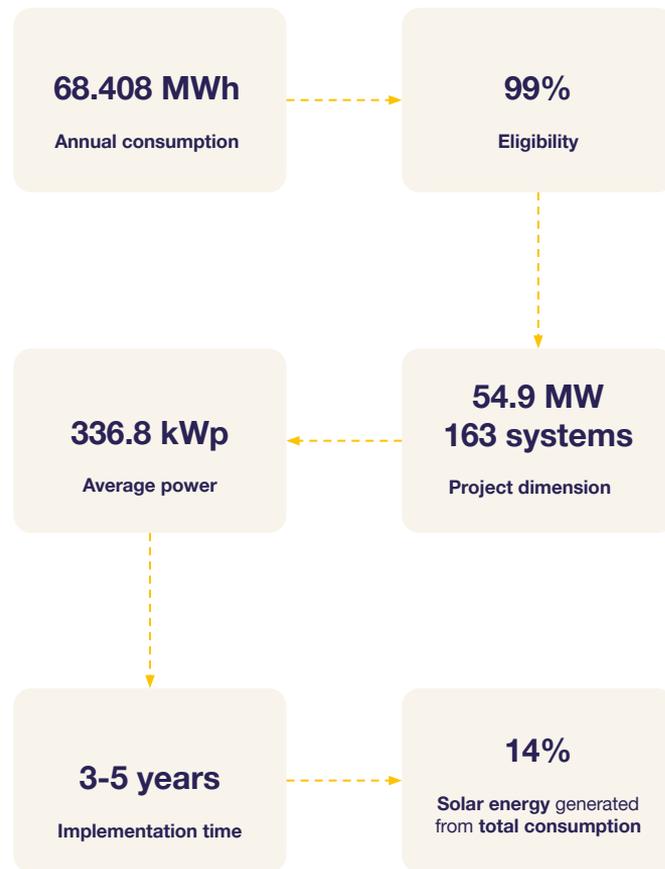


## Industrial parks

With an annual consumption of **68.408 MWh**, industrial parks can enjoy **100% eligibility** by installing **163 photovoltaic systems** with an average power of 336.8 kWp.

The total installed capacity on the industrial sector will reach the number of **54.9 MWp**.

The major advantage of industrial parks is the percentage of **99%** of production and use of **solar electricity**.





## Public administrations

On the 3rd place in the top of electricity consumers are public administrations with an annual consumption of around **46.875 MWh**.

By installing approx. **385 photovoltaic systems**, totaling a production capacity of **11.6 MW** with an average power of 30kWp, the percentage of electricity coverage amounts to **70%** of the **total consumption of this sector**.

The contribution of green energy that public administrations will bring in the total electricity consumption can amount to **6%**.



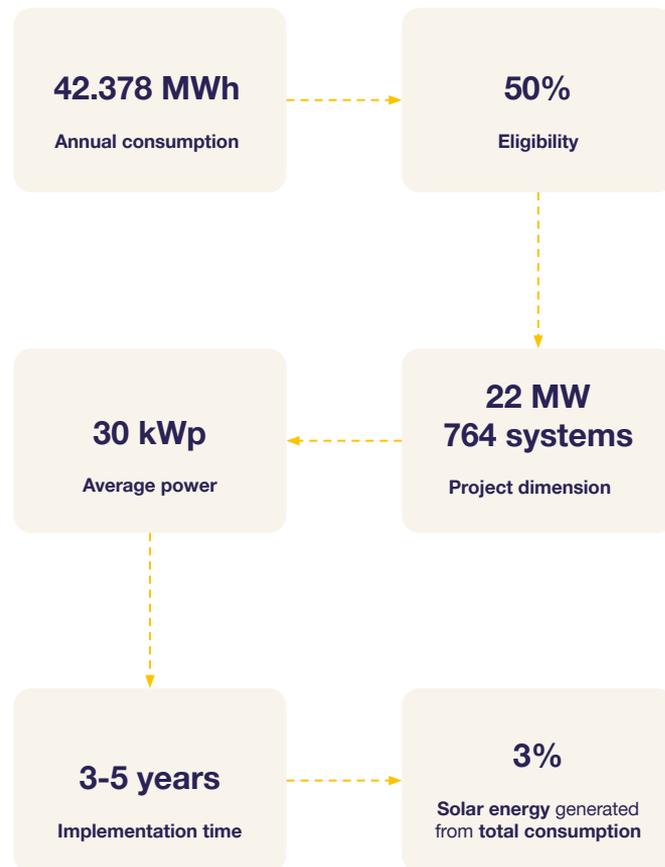


## Retail

The retail sector has an annual consumption of approx. **43 GWh**. Based on these data, we considered **50%** of these consumers eligible.

Therefore, by installing **750 photovoltaic systems** with an average power of 30kWp, the consumption of the sector can be "greened" about **50%**.

Also, implementation of such a project requires about **3-5 years** and can bring a contribution of about **3%** green energy from energy consumed in Sibiu.

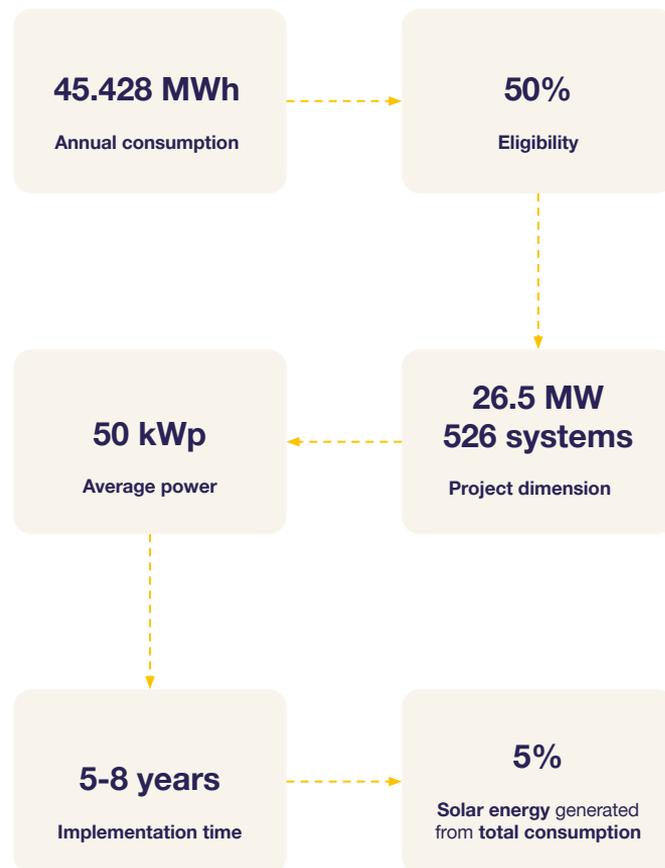




## Other consumers (hospitals, universities, office buildings)

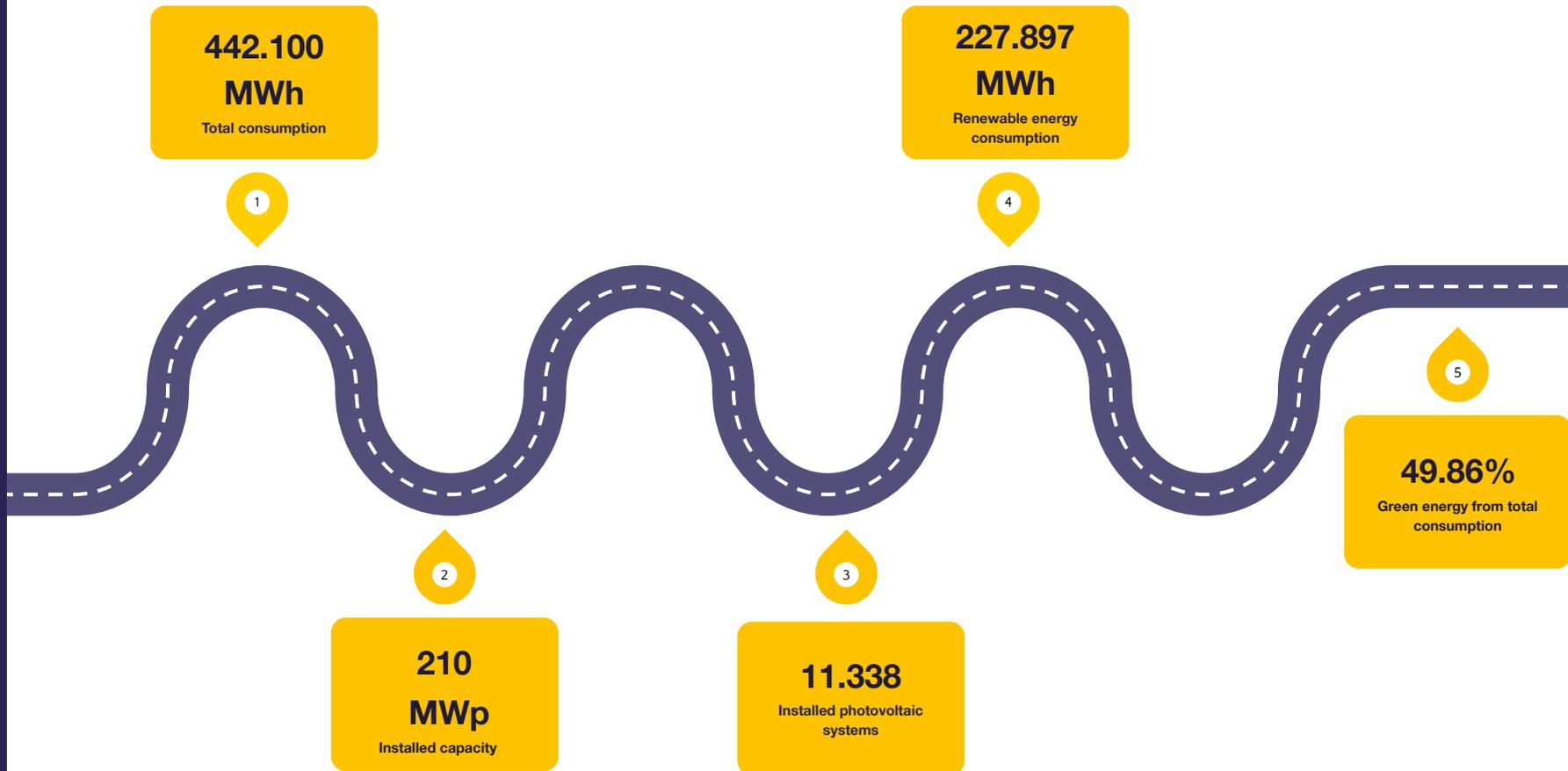
Among the other major consumers of electricity in Sibiu are **hospitals, educational institutions, cultural institutions, the HoReCa sector**, etc.

A total of **526 photovoltaic installations** with an average production of **30-50 kWp** are enough to cover an eligibility percentage of **50%** of all mentioned sectors.





## Conclusions





# Take the first step to **energy independence!**

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