

# Križevci – from crowdfunding to energy independence



Mario Rajn, City of Križevci

August, 2023.



Križevci

Tvoje prirodno okruženje.

# Križevci



Koprivnica - Križevci County, area of 263,7 square kilometers and 60 settlements



19.052 inhabitants, half the population in the urban environment



Excellent geo-traffic position, half an hour to the capital Zagreb



Favorable climate, abundance of water and fertile soil



**Križevci**

Tvoje prirodno okruženje.



Climate Alliance

# Energy image of the city - SECAP



38.000 t CO<sub>2</sub> per year



Traffic sector - 54% emission of CO<sub>2</sub>



Housing sector - 46% emission of CO<sub>2</sub>



25% electricity



75% heating



Križevci

Tvoje prirodno okruženje.

## How did it all begin?

- **2018. Križevci Solar Roofs – Development Center and Technology park**
- **2019. Križevci Solar Roofs – City library „Franjo Marković”**
- **2020. KLIK energy cooperative (Križevci Laboratory for Innovation in Climate)**
- **2020. Start of co-financing of solar power plants on family houses**
- **2021. Development plan of the City of Križevci for the period 2021 - 2030.**
- **2021. Energy-climate office**
- **2022. Energy poverty alleviation centre**
- **2023. One-Sun Connecting North and South project**



## Križevci solar roofs

### Development Center and Technology Park

- 2018.
- 10 days campaign
- 30.000,00 euros
- 4,5% annual interest rate
- **53 investors**
- Over 166 MWh of clean energy produced
- More than 240 tonnes of CO<sub>2</sub> emissions reduced

### City library „Franjo Marković”

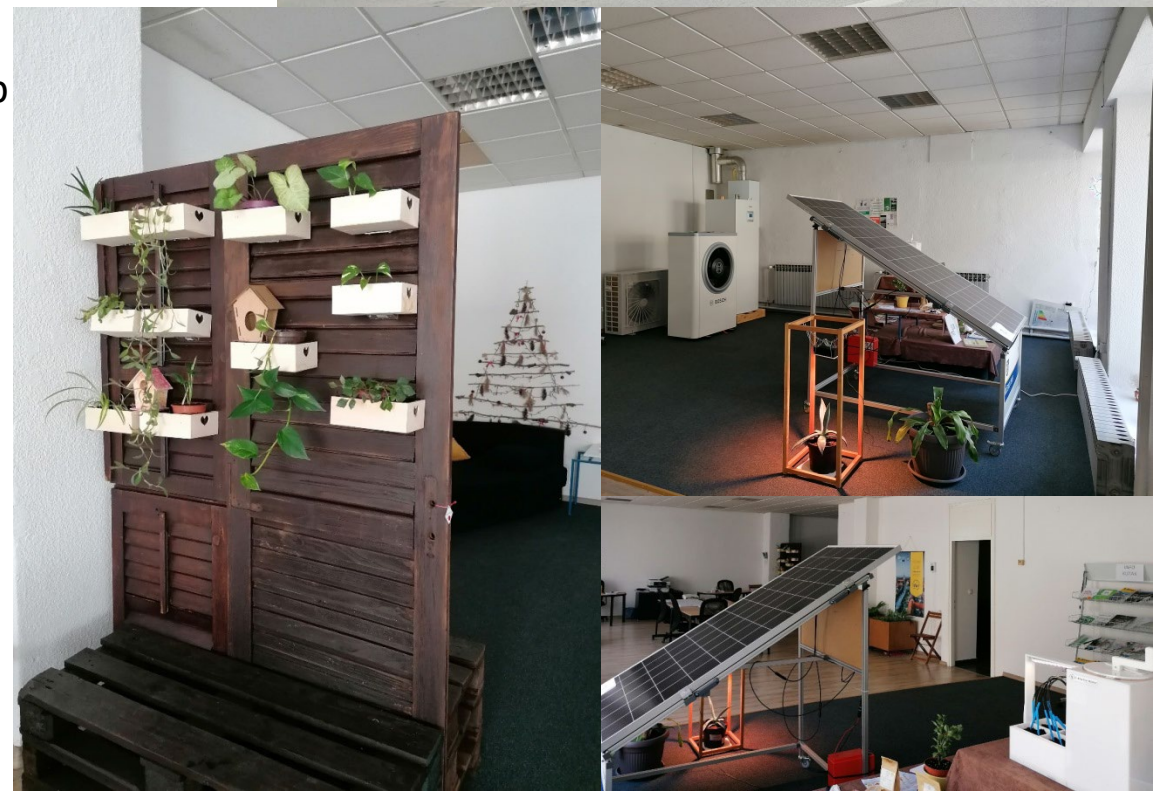
- 2019.
- 48 hours campaign
- 23.165,00 euros
- 3% annual interest rate
- **40 investors**
- Over 99 MWh of clean energy produced
- More than 125 tonnes of CO<sub>2</sub> emissions reduced





## KLIC energy cooperative and Energy-climate office

- KLIK's mission - to create a sustainable and resilient local community on the path of energy transition, towards climate resilience
- Energy-climate office → one-stop-shop
  - exhibition space of "green" technologies, products and services, educational space, meeting space
  - meeting place for citizens and energy transition, a place for learning and information
  - energy poverty alleviation centre
  - an example of good practice





## Co-financing of solar power plants on family houses

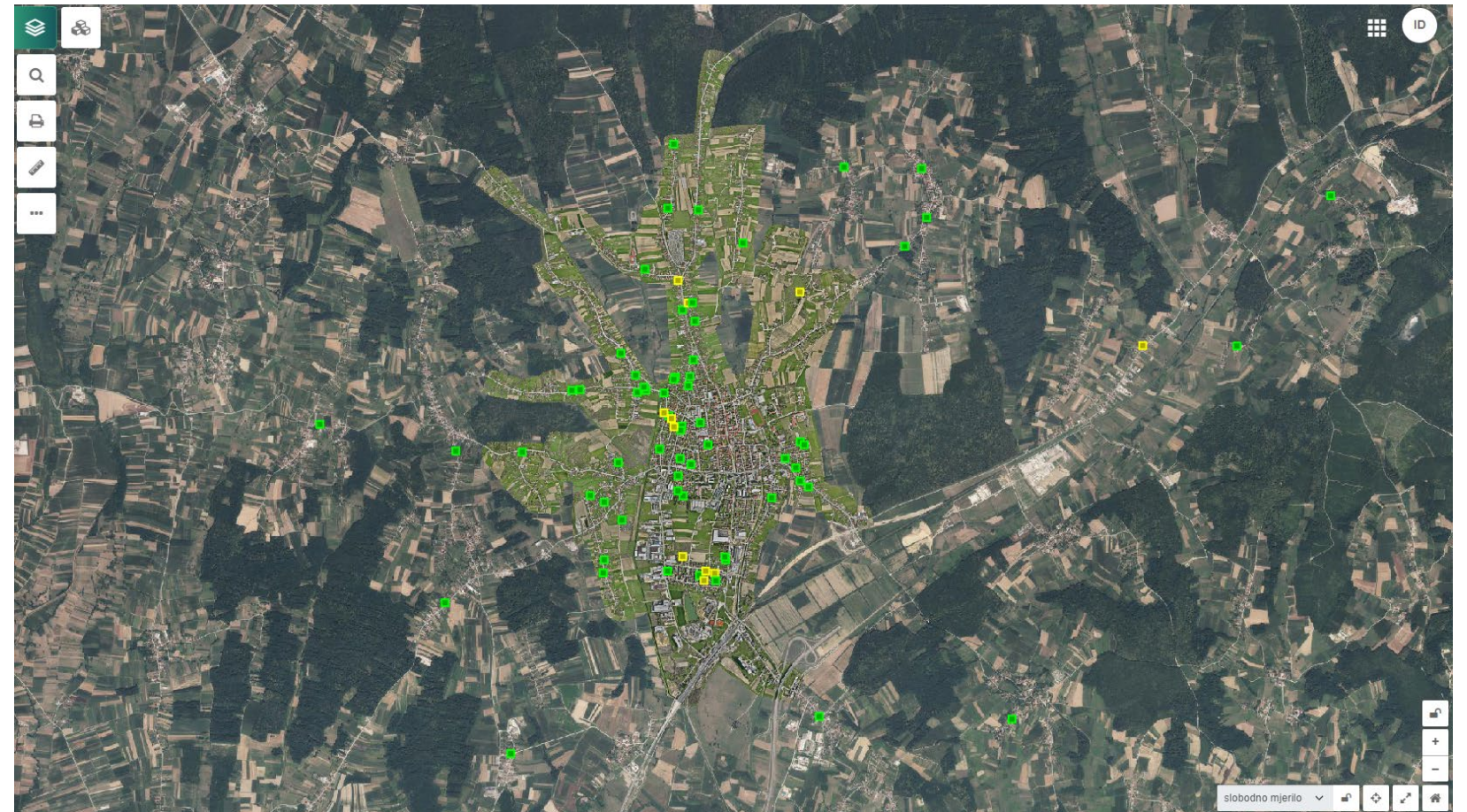
- **2020.** 2 projects and 3 power plants built
- **2021.** 18 projects and 13 power plants built
- **2022.** 72 projects, 47 power plants built
- **2023.** 50 applications so far (August, 2023.)

### City budget:

- **2020.** 19.900,00 eur
- **2021.** 53.000,00 eur
- **2022.** 172.500,00 eur
- **2023.** 200.000,00 eur

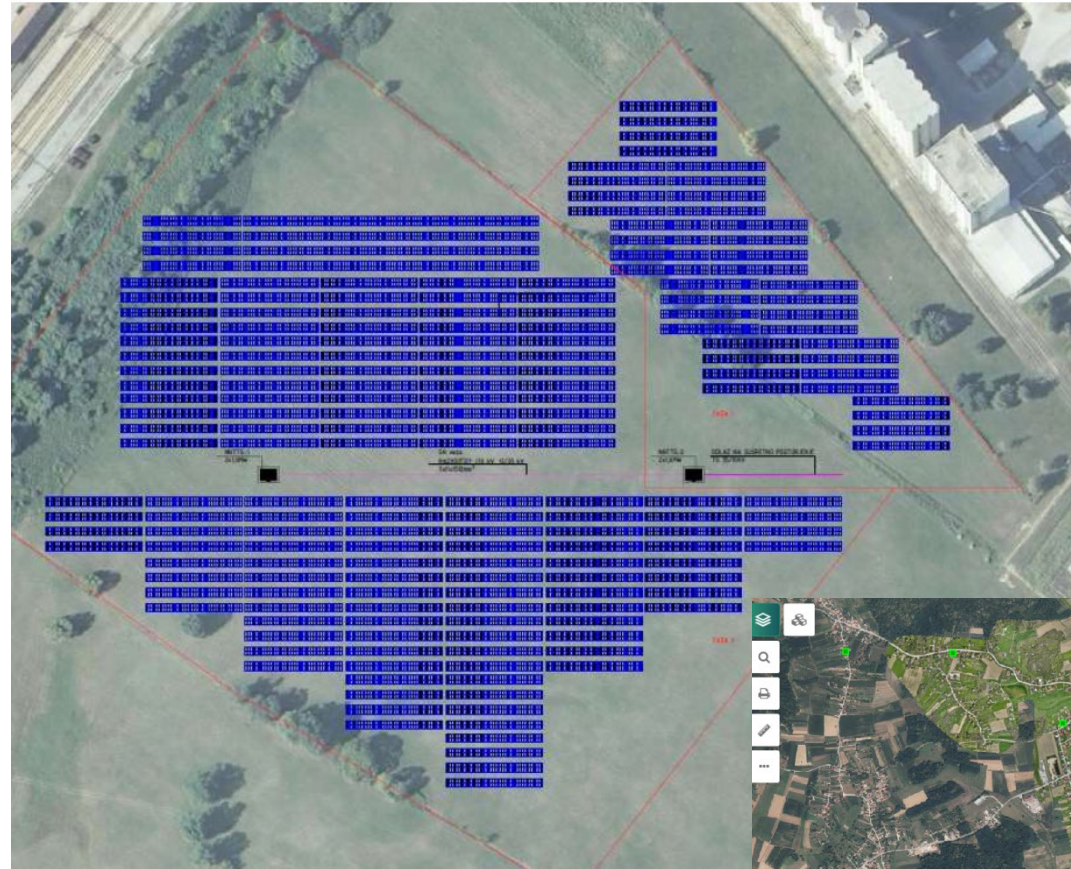
## Solar power plants in the City of Križevci

- **112** solar power plants on family houses built
  - Over **700 kW** installed power of photovoltaic modules
- **9** solar power plants on business entities (production facilities, shopping center, school, bakery, RCTP, library)
  - **700 kW** installed power of photovoltaic modules
- **One-Sun Connecting North and South** – 6 new solar power plants on public buildings will be built
  - **229 kW** installed power of photovoltaic modules

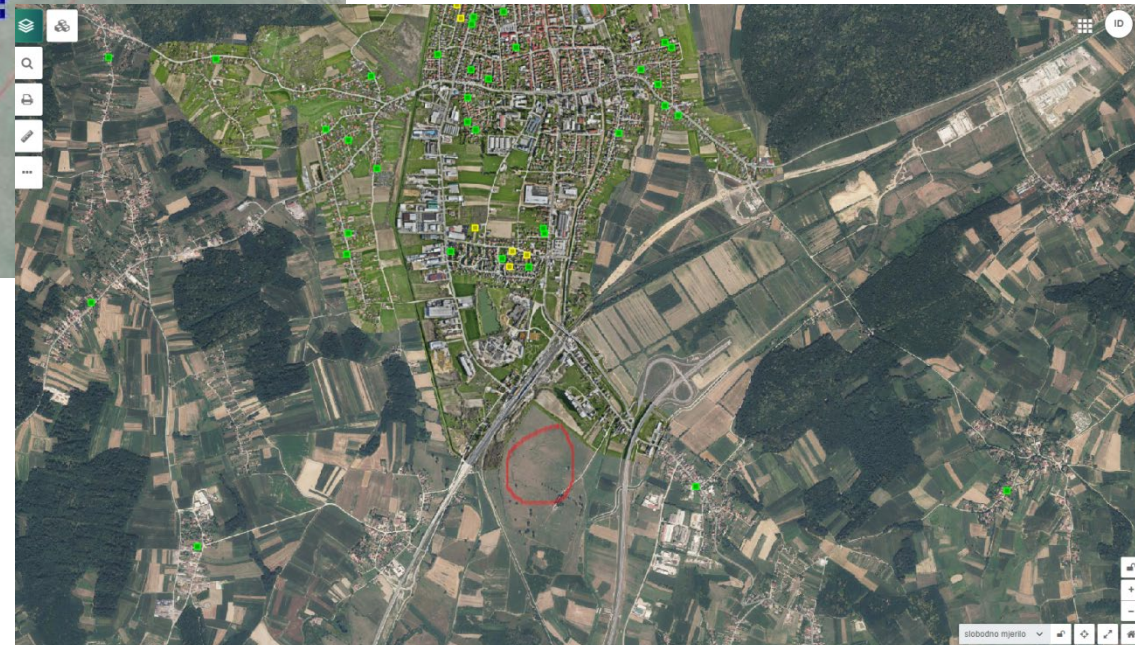




## Big solar power plant – 5 MW



- Citizens energy – financing of the power plant



## OUR GOAL?

Use locally available energy sources and allow the community to benefit from it





**Križevci**

Tvoje prirodno okruženje.

**THANK YOU!**

[www.krizevci.hr](http://www.krizevci.hr)

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