



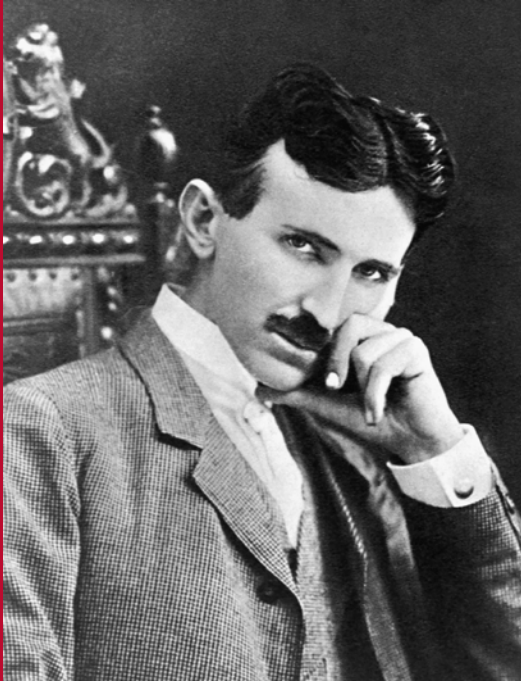
USAID
FROM THE AMERICAN PEOPLE

USAID

USAID and THE ENERGY SECTOR IN SERBIA

BELGRADE, March 10, 2022.

The Challenge



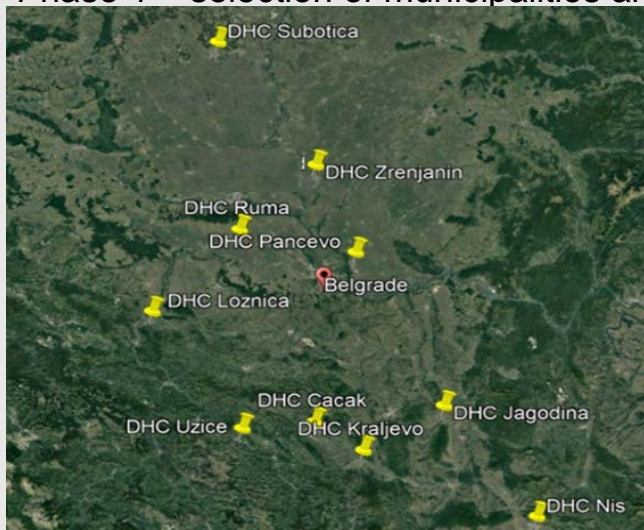
Energy is a key problem of the future—a question of life and death. The current energy sources are unreliable and poisonous to the planet. We might survive poisoning, but there will come a day when these energy sources will dry up and vanish.

Nikola Tesla, an inventor and futurist



- Goal – decrease consumption and hence dependence on imported, fossil fuels through more efficient operation of district heating companies.
- 2 years (October 2018 – Jul 2021)
- \$ 1.7 million
- 2 phases:

Phase 1 – selection of municipalities and projects



Phase 2 – implementation and monitoring



Pančevo

Kotež



Solar thermal panels (200 pcs) on the roof of the boiler room for the preparation of the hot sanitary water.

Investment: \$167,000 (\$100,000)



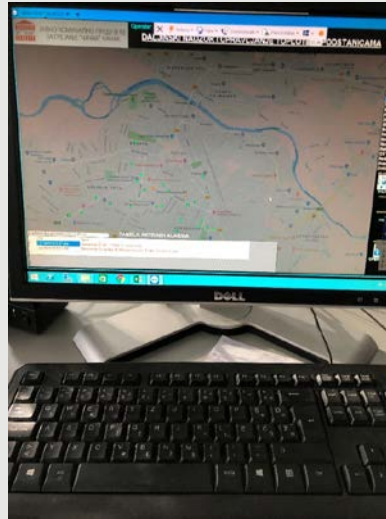
Čačak



Automation of 25 substations + SCADA

Investment:

\$130,000 (\$100,000)



Niš

Boiler room
Ratko Jović



Replacement of the burner and full automation +
SCADA

Investment: \$70,000



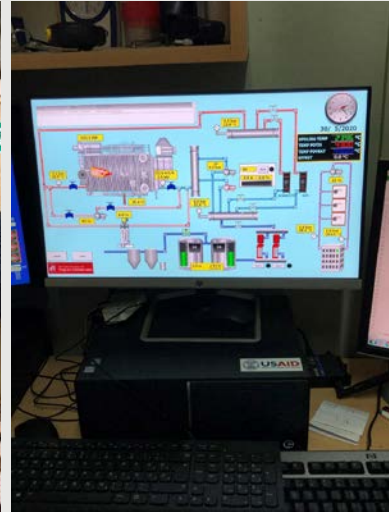
Niš



New collector, calorimeters, complete automation of a 14 MW boiler room / substations + SCADA

Boiler room
Majakovski

Investment: \$140,000 (\$100,000) + Y1 app \$ 60,000



Pančevo

General
Hospital
Pančevo



Full reconstruction of all substation for heating and hot sanitary water + SCADA

Investment: \$230,000



Total Project Impact

| Project cost (\$) | USAID contribution (\$) | Annual natural gas savings (m ³ /y, %) | Annual electricity savings KWh/y, (%) | Annual energy cost savings (\$/y) | Simple payback (y) | Annual GHG reduction (CO ₂ eqv t/y) |
|-------------------|-------------------------|---------------------------------------------------|---------------------------------------|-----------------------------------|--------------------|------------------------------------------------|
| 956,670 | 737,967 | 1,501,530 | 526,000 | 492,186 | 1.94 | 5,301 |

... and in the meantime ...

USAID assistance to the Ministry of Mining and Energy 2021

- RES Auctions
- USAID team + local consultant
- with EBRD as the lead
- USAID focus on Art. 15, 16 with AERS (Regulator) + LCOE calculator

- Prosumers / Net-metering
- USAID team from + local consultant
- Document in first draft requiring other participants' input – TSO, DSO, AERS
- Adopted end of August 2021

New bi-lateral energy activity

To increase
Serbia's energy
security and reduce
dependence on
imported fossil
fuels

Energy
efficiency

Renewables

- **Budget**
 - ✓ \$ 10,000,000
- **Duration**
 - ✓ 5 years
 - ✓ November 2021 – September 2026
- ❖ Complementary with regional energy projects

USAID BETTER ENERGY ACTIVITY

Project Purpose: Reduce Serbia's dependency on fossil fuels by catalyzing private and public sector investments in renewable energy sources and energy efficiency

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Objective 1: Improved Energy Efficiency in Municipal District Heating Systems and Residential Buildings supply and demand</p> | <p>Objective 2: Increased use of renewable energy resources</p> |
| <p>Result 1.1: Strengthened capacities of local governments, district heating management and homeowner associations to develop investment projects</p> | <p>Result 2.1: Net metering and related policies introduced and implemented</p> |
| <p>Result 1.2: Improved enabling environment for implementation of EE projects - including sustainable financing mechanisms for EE investments through banks, de-risking mechanism and public-private partnerships</p> | <p>Result 2.2: : Enabling environment/legal and regulatory framework for increased use or RES improved</p> |
| <p>Result 1.3: Modern technology introduced and utilized to improve energy efficiency and resulting in creation of new jobs. (demonstration)</p> | <p>Result 2.3: Modern RE technologies introduced and utilized, including in forecasting and energy management resulting in creation of new jobs . (demonstration)</p> |
| <p>Result 1.4: Residential buildings have introduced EE measures.</p> | |



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THANK YOU FOR YOUR
ATTENTION

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