USAID and THE ENERGY SECTOR IN SERBIA

BELGRADE, March 10, 2022.
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)
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

Boiler room
Majakovski

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

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
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

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### Total Project Impact

<table>
<thead>
<tr>
<th>Project cost ($)</th>
<th>USAID contribution ($)</th>
<th>Annual natural gas savings (m³/y, %)</th>
<th>Annual electricity savings KWh/y, %)</th>
<th>Annual energy cost savings ($/y)</th>
<th>Simple payback (y)</th>
<th>Annual GHG reduction (CO₂ eqv t/y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>956,670</td>
<td>737,967</td>
<td>1,501,530</td>
<td>526,000</td>
<td>492,186</td>
<td>1.94</td>
<td>5,301</td>
</tr>
</tbody>
</table>

... and in the meantime ...
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

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