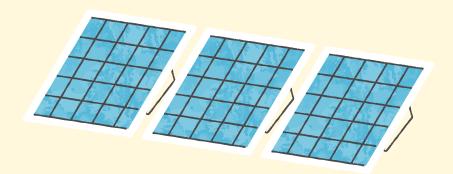
SOLAR PANELS IN ELBASAN

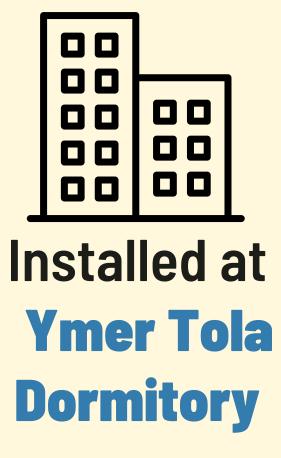


GIZ PILOT PROGRAM

The Elbasan PV System



36 Solar panels





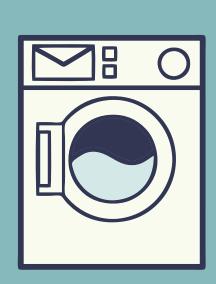
Power Production



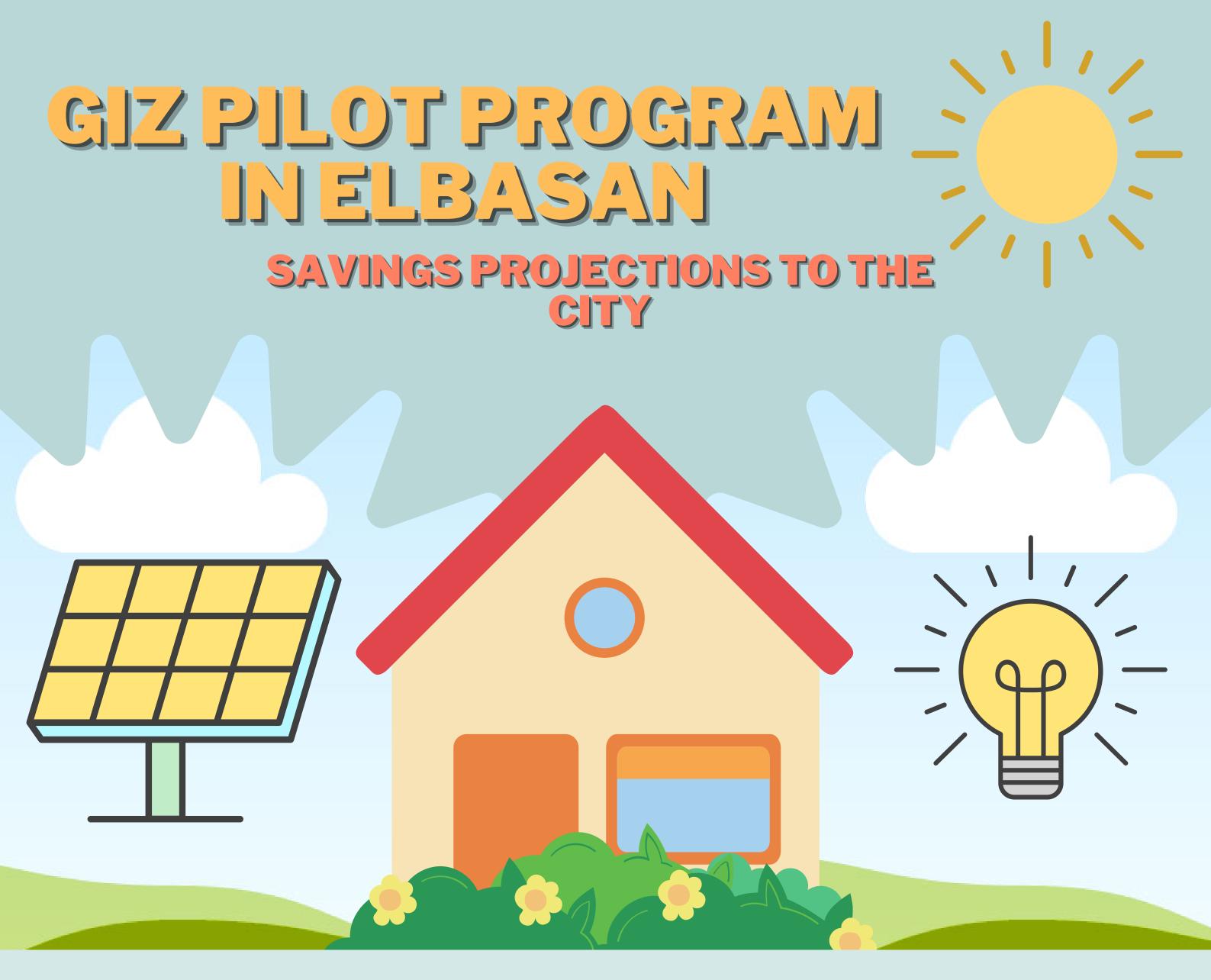
Year, this system is projected to produce 20,000kWh



Equivalent to the energy (kWh) required to watch television nonstop for almost 2,340 days (56,160 hours) on a 50 inch TV



Equivalent to the energy (kWh) required to run over 340 loads of laundry



New Energy Efficient bulbs save €14,330/year compared to regular high-pressure mercury bulbs

New solar panels generate 20,000 kWh/year, saving €1,856/year in municipal energy expenses

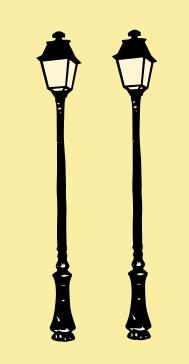
Total energy from pilot programs (150,000kWh/year) is equivalent to **106 metric tons** of CO2 not emitted into the atmosphere

ENERGY EFFICIENT BULBS IN ELBASAN

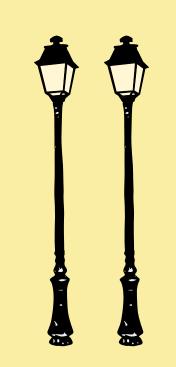
GIZ PILOT PROGRAM



Energy Efficient (EE) bulbs use
80% less energy
than high-pressure mercury bulbs



EE bulbs
save 125,000 kWh/year
equivalent to the electricity
consumption of 70 people/year

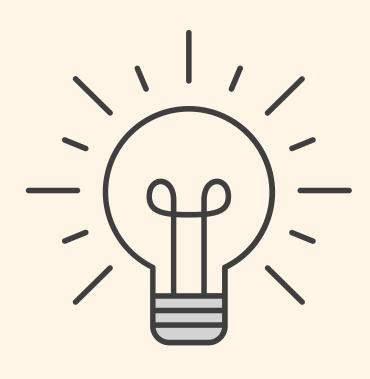


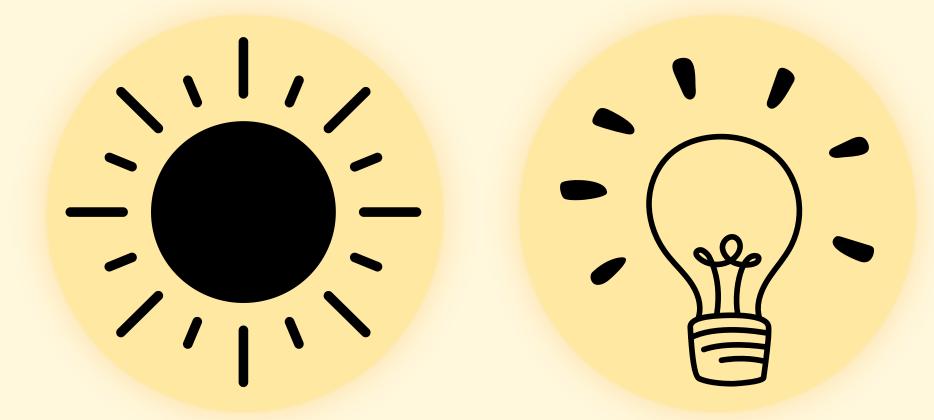


EE bulbs save the

Municipality of Elbasan

€14,330/year





COMBINED SAVINGS FROM THE PV + EE PROGRAM

BEFORE EE BULBS

The Municipality of Elbasan spent (18,000/year on streetlights for Rruga Rinia and Rruga Unaza

The Municipality of Elbasan is projected to SAVE €14,000/year

AFTEREE BULBS

PRODUCTION

REAL-TIME PV DATA During the rainy month of November, PV at Ymer Tola dormitory produced energy equivalent to 240 in savings

The dormitory PV is expected to produce energy savings equivalent to €2,250 each year

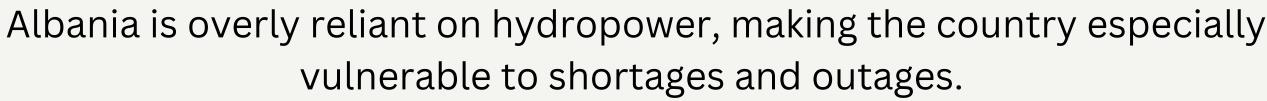
TOTAL MUNICIPAL SAVINGS: €16,580/YEAR

CLIMATE CHANGE & HYDROPOWER IN ALBANIA

Climate Crisis

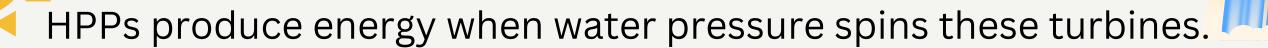
Albania is in a State of Energy Emergency

Climate change causes extreme fluctuations in precipitation, which threaten the reliability of hydropower.





Drought-induced low water levels in hydropower plant (HPP) reservoirs reduce pressure on turbine blades.





Precipitation Decreases

In 2021, annual precipitation in Albania was

14 cm less than in 1901.

This drop in precipitation represented approximately

37% of the annual rainfall in 1901.



2050 Projections

Annual rainfall is projected to decrease by up to **6%**. **Summer** rainfall is projected to decrease by **23%**.



Large hydropower plants are projected to produce **15%** less electricity **Small** HPPs are projected to produce **20%** less electricity.