

# Energy Efficiency: Heat recovery & LED lightings

## Equipping a bank's head-office with energy efficient components

Established in 1991, JSC Bank Republic's head office is a seven storey building in Tbilisi. In 2005, a new heating, cooling and ventilation system was installed and all the equipment and associated processes were controlled.

By investing in energy efficiency measures, the bank aimed at reducing its energy consumption. The Energocredit engineers performed an energy audit in order to identify key areas for energy efficiency improvements. The main suggestion to the bank was to adapt the heat recovery system for air-handling units and install new LED lighting.

By implementing these measures, the bank is expected to save 564 MWh in gas and electricity per year. Additionally, the working comfort of the employees will be raised.



**A new heat recovery system and an efficient, convenient LED lighting modernised Bank Republic's head office. The electricity bill underlines the positive effects of the investment: USD 26,500 savings per year.**

# Energy Efficiency:

## Heat recovery & LED lightings

### Equipping a bank's head-office with energy efficient components

#### Main Investment

- Installing heat recovery system for air units
- Installing LED lighting in office building

#### Size of Investment

86,400 USD

#### Date of Implementation

2014-2015

#### Operational Results

- Lower energy consumption
- Higher staff comfort in the working environment

#### Investment Profitability

- Expected savings of around 26,500 USD/yr
- Payback period of 8 years
- IRR of around 37% on the investment



**564 MWh or 36.4 %  
energy savings  
expected**