

## Energy concept summary

**Title of the energy concept: Reconnection of Diesel Generator for power Telecom Centers PRP (full time) in Hybrid mode, with 3 options.**

Topic area choice and topic marking in blue:

- ( ) **Building** e.g. Insulation, change of windows, Low-energy-buildings
- ( ) **Electrical energy** e.g. Light, Compressed air, Electrical drives, Cooling machines, [Load management](#)
- ( ) **Heat** e.g. Heating, Process heat, Heat recovery, Air conditioning, Combined heat & power
- ( ) **Renewable energy** e.g. [Solar technology](#), Wood-fired plants, Biogas, Geothermal energy
- ( ) **Management** e.g. Energy buying, Contracting, Emission trade, [Energy data management systems](#)



**Company: Vip operators Skopje**  
**Branch and NACE-Code(s): 28.11**  
**Products/Services: Power Supply Equipment**  
**No of employees: 18**  
**Name of energy concept producer: Flekspower**  
**Participant in EUREM No.:**

### Energy concept description:

Dissenting Base Stations for GSM operators who have no mains power is supplied by Diesel Generators in 20 KBA Prime Time. With the proposed measures is achieved, great savings, fast return on investment and protecting the environment with CO<sub>2</sub>.

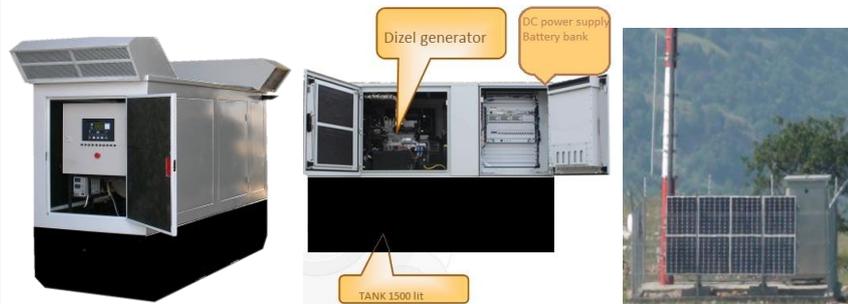
Opt 1. Only minimal completion with an additional capacity of the battery bank and a battery charger = 9500.00 EUR possible savings of EUR 12800.00 +18 t CO<sub>2</sub>.

2. Opt completion of option 1 with PV panels = investment of EUR 5000 may be further savings EUR 4550.00 per year or a total of option 1 = 17475.00 EUR and 24 t CO<sub>2</sub>.

3. Opt completing investment + 2500.00EUR previous options are getting a total savings of 17648.00EUR and 28T.CO<sub>2</sub>

Reversibility of the investment is less than 1 year

### Picture(s) of plant, Base situation etc.



### Results:/ unyt

Energy saving potential [kWh/a]:

Energy source:

Cost reduction potential [Euro/year]: 17648.00/u

CO<sub>2</sub>- saving potential [t/a]: 28/u

( fill in conversion factor: 0,7 kg CO<sub>2</sub> per kWh= 40MWh/y/u

Investment costs [Euro]: 17000.00/u

Pay-back time [Years]: <1

Chance of implementation:

(x) high ( ) middle ( ) low

date of implementation (option 1: 01 06 2015) x 3 pcs