Energy concept summary

Title of the energy concept: Reducing electricity consumption by replacing the analog transmitters for terrestrial (terrestrial) television signals to digital DVB-T

Topic area choice and topic marking in blue:

( ) **Building** e.g. Insulation, change of windows, Low-energy-buildings

(X) **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

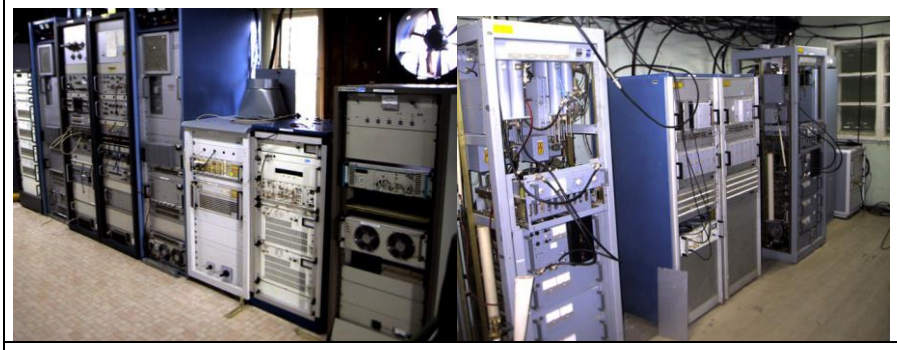
( ) **Management** e.g. Energy buying, Contracting, Emission trade, Energy data management systems

МАКЕДОНСКА РАДИОДИФУЗИЈА МРД	Company: PE Macedonian Broadcasting Branch and NACE-Code(s): Broadcasting Products/Services: Broadcasting services of national radio and TV No of employees: 180 Name of energy concept producer:Aleksandar Ilijevski Participant in EUREM No.:

Energy concept description:

Reduction of energy consumption by repalcing of existing analog tv transmitters with new digital transmitters on transmitting locations. Transmitters are placed on 76 transmitter locations in 24/7operation. Annual electric power consumption is aproximately 6.000.000kWh. Investment in new upgraded digital transmitter system costs approximately 3.000.000€. It would resoult with improved services, biger capacity and rapid reduction of power consumption, due to highly effective digital modulation and lower cooling requirements.

Picture(s) of plant, Base situation etc.



Results:

Energy saving potential [kWh/a]: 5.200.000	Investment costs [Euro]: 3.000.000
Energy source: el. energy	Pay-back time [Years]: 4
Cost reduction potential [Euro/year]: 750.000	Chance of implementation:
CO_2- saving potential [t/a]: 2.740	( ) high ( ) middle ( ) low
(please fill in conversion factor: xy kg CO_2 per kWh)	or date of implementation 2012-2014