

Challenge

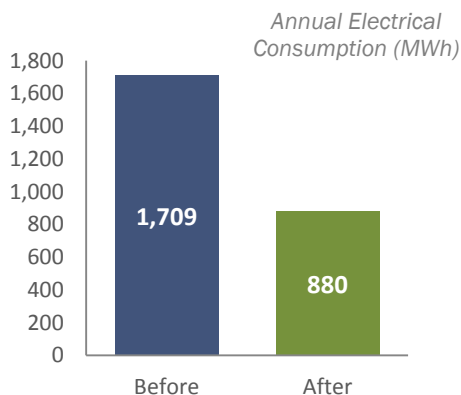
This metal sheet and plates producer from Skopje, Macedonia, used old cranes, which played a vital role in the 24/7 working regime of its plant. The cranes were not properly selecting the scrap from the blast furnaces, broke down frequently, and generated high maintenance, fuel and motor costs.

Solution

The company invested in replacement of two cranes with models that feature technological improvements, such as engine performance, doubling their capacity to select and transport the iron scrap to the blast furnaces. The cranes are equipped with digital monitors and a camera to maximize visibility and improve the selection process so that fewer non-ferrous materials are now included in the mix, improving quality.

Energy Savings – 49%

Replacement of the two cranes yielded energy savings of 49%, while at the same time significantly increasing work efficiency and lowering maintenance costs.



Implemented through the EU/EBRD WeBSEFF program

Company

Country	FYRo Macedonia
Sector / Asset type	Industrial
Project type	EE
Main business activity	Production of steel sheet and plates

Project Facts and Benefits

Investment value	EUR 573,500
Loan amount	EUR 573,500
Energy savings	829 MWh/yr
Decrease of CO ₂ emissions	210 tonnes/yr
Equivalent cars removed	45
Equivalent trees planted	5,440
Annual monetary savings	EUR 189,157/yr
Payback period	3.0 years
ROI	33%