



Case Study

Agricultural Projects

Project Details

sector

Agriculture

type of project

Energy Efficiency

Project Results

from replacing aged
tractors with new larger
efficient tractors

- » Less time needed to complete field processes
- » Completion of the field processes at the optimal time
- » Field processes are completed with a higher quality
- » Reduced operator labor costs
- » Reduced diesel fuel costs
- » Reduced maintenance and repair costs

Overview

Replacing agricultural tractors, harvesters, sprayers and other attachments with modern equipment are popular BEERECL supported projects. Three firms, Kemapul Ltd, ZP Emil Stamov and ZKPU Obedinenie 93, replaced old inefficient tractors. Often one new larger tractor replaces four to six existing small tractors. Also projects often included ploughs, sprayers, cultivators and other tractor attachments.

Energy Efficiency Measures Installed

- ✓ Agricultural tractors
- ✓ Tractor attachments including sprayers, cultivators and ploughs

**Energy Efficiency
Reduces Energy Costs
by 45 %**

Agricultural Projects

Investment Details (range from to)

Total Project Cost	EUR 60,000-40,000
KIDSF Grant	EUR 7,500-20,000
Loan	EUR 50,000-140,000
Simple Payback Period	3.8 to 5.5 years
Internal Rate of Return	16%-38%

Estimated Annual Savings (range from to)

Energy Cost Saving	EUR 11,300-19,600
Reduced Energy Costs by %	36%-45%
Operation and Maintenance cost savings	EUR 3,500-12,000
Total Cash Savings	EUR 16,000-32,000

Annual Carbon Emission Reduction (range from to)

28-48 tons