

# Energy saving and costs reduction through process lines replacement and plant layout optimisation



## CLIENT

- One of the major conglomerates of food processing activities in Mongolia identified an opportunity to amalgamate three factories and to renew part of the production equipment in order to rationalise energy and resource use and increase production.

## PROJECT

- The plant layout optimisation allows decommissioning part of the equipment, currently in use in the old three factories (thus reducing the total installed power). A further saving is achieved through the replacement of an old aseptic filling line with a new, more efficient and less energy consuming one.

## FINANCIAL STRUCTURE

- Loan USD 1,100,000

## TECHNICAL ASSISTANCE

- The MonSEFF team visited the company and, based on the gathered data, calculated the energy and cost savings related to the investment.

## DONOR:

EBRD Special Shareholder Fund



**European Bank**  
for Reconstruction and Development



## EXPECTED IMPACT

- Payback period: 8 years
- Internal rate of return (IRR): 10%
- Energy saving: 1,252 MWh/year
- Costs Saving: 100,453 USD/year
- Carbon emission reductions: 2,188 tonnes per year
- Other benefits: Reduced maintenance costs due to less equipment, lower failure and reduced unexpected interruptions,