GET Case Studies

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Tomato production and processing: precision agriculture and by-product utilisation

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CLIENT AND PROJECT

The client is a vertically-integrated tomato grower, tomato paste producer and exporter in Ukraine.

The proceeds of the Bank's Loan are intended for the financing of a new tomato processing plant and precision agriculture equipment. EBRD financing provided as part of a EUR 40m syndicated loan.

SUSTAINABLE RESOURCE AND ENERGY EFFICIENT MEASURES

- New tomato paste production facility, including wastewater treatment and state-of-the-art process equipment
- A new drying unit to utilize 35,000 t/y of tomato paste by-product for further use by animal/pet food producers;
- New farming machinery and technologies: weather stations and a sensors network, crop drones and spraying drones for precision agriculture
- Increase in drip irrigation systems coverage
- replacement of non-refillable metal drums with reusable eco-plastic containers for product delivery

IMPACT OF PROJECT

The Project is estimated to bring a reduction of ca 6,074 tCO2 a year against the baseline; savings of 748,000 m3/y of water; utilize 35,000 t/y of tomato residues; the total amount of treated waste water will count up to 432,000 m3/y

Beverage manufacturing: CO2 recovery, with FINTECC support

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CLIENT AND PROJECT

A Georgian company established for the construction and operation of a greenfield beer production facility.

As part of an A/B loan, EBRD has financed the brewhouse equipment and filling lines, construction and interest during the construction period. The total debt package amount was EUR 18.5 m.

SUSTAINABLE RESOURCE AND ENERGY EFFICIENT MEASURES

- CO2 recovery systems: capture and recycling of the CO2 generated within the production process, resulting in GHG and cost savings
- Variable speed drives (VSD) enabling a closer match between motor speed and the process requirements and up to 50% saving on energy use
- State-of-the-art filling machines:
  - Water-saving ECO vacuum pumps resulting in water savings of over 90% compared to the classic water ring pumps
  - New designing methods resulting in lower electricity consumption and reduced weight

TECHNOLOGY TRANSFER SUPPORT

The Project benefitted from an incentive grant provided through the FINTECC programme, supporting the demonstration of climate technologies with low market penetration in ETC and SEMED countries.

IMPACT OF PROJECT

Due to the implementation of eligible technologies, the facility captures CO2 within the production process – an estimated 500 tonnes of CO2 per annum at full production capacity.

Thank you

Alex Hadzhiivanov & Krystyna Springer

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