

BENEFICIARY: BORD IASCAIGH MHARA
PROJECT REFERENCE NUMBER: 19/KGS/STS002.5
NAME OF PROJECT: Energy Assessment of shellfish depuration systems
IMPLEMENTATION PERIOD: 1st JANUARY -31st DECEMBER 2019

Project Scope

Through work to support shellfish growers in the development and maintenance of environmental management systems it became apparent that while targets are being set to reduce energy consumption, the installation of shellfish depuration systems has led to an overall increase. A range of systems exist and it was decided that it would be a useful exercise to assess their energy efficiency. An initial feasibility study was conducted at a single site to assess the potential savings and help to design a more comprehensive plan of work. The on-site assessment was offered to members of the oyster packers group and ten companies availed of the service.

Objectives

To improve the energy efficiency of shellfish depuration systems, reducing emissions and contributing to environmental management targets.

Budget

Maximum approved expenditure on the project totaled €70,000.

Achievements / Spend

This was a very successful project which identified the depuration facilities contributed to between 16 and 95% of total energy costs at the participating companies.

- A detailed review of the energy performance of existing depuration facilities and components thereof, was provided to each participating Oyster Packer Group member company. The review should include company specific recommendations for practical improvements. The review included a breakdown of current energy costs and company specific recommendations for practical improvements. Individual energy savings opportunities had the potential to deliver total electricity savings ranging from 3.4% for electricity sub metering at one facility to 67% for installation of wind power at another. The most common recommendations were linked to the installation of VSDs on pump systems (3-24% saving), installation of solar PV (10-70% saving) and conversion to LED lighting (2-11% saving). The recommendations took into consideration food safety requirements, potential investment costs, payback time and opportunities for grant aid.
- In addition to the individual reports, BIM were provided with a summary report with recommendations to improve the energy efficiency of existing and new shellfish depuration facilities and which can be incorporated into future industry guidance produced by BIM.

SUMMARY OF SPEND:

Total Approved	
Total Eligible Expenditure	€60,760.00
Total Drawdown	€60,760.00
EU – 50%	€30,380.00
Exchequer – 50%	€30,380.00

Report: Grainne Devine

Date: March 2020