



DAIRY PARTNERS WALES
ENVIRONMENTAL ANNUAL REPORT 2021

Introduction

This report is a review of our environmental performance in 2021. During this time, Dairy Partners have continued to make significant improvements in its environmental management system, day to day running of the facility and have invested heavily in production processes. All these improvements have helped us minimise our environmental impact as a business.

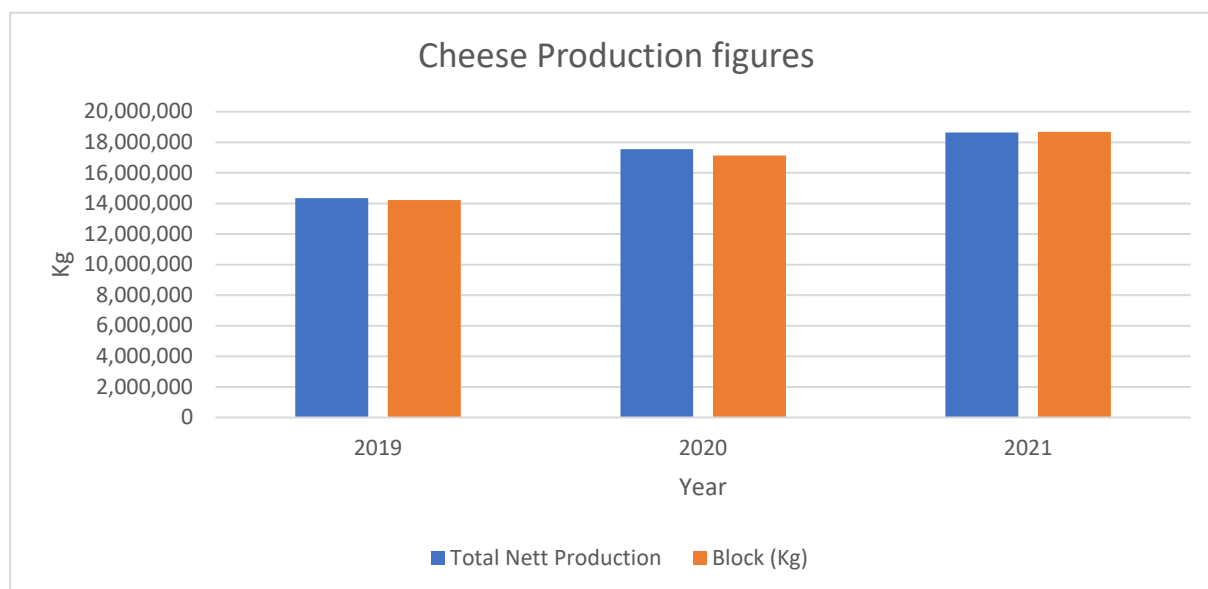
This report will include the below:

1. Performance Monitoring
2. Review of environmental performance of the WWTP
3. Complaints
4. Site Environmental Improvements
5. EMS (Environmental Management System)
6. Review of Environmental Objectives set out in 2021
7. Objectives for 2022

1. Performance Monitoring

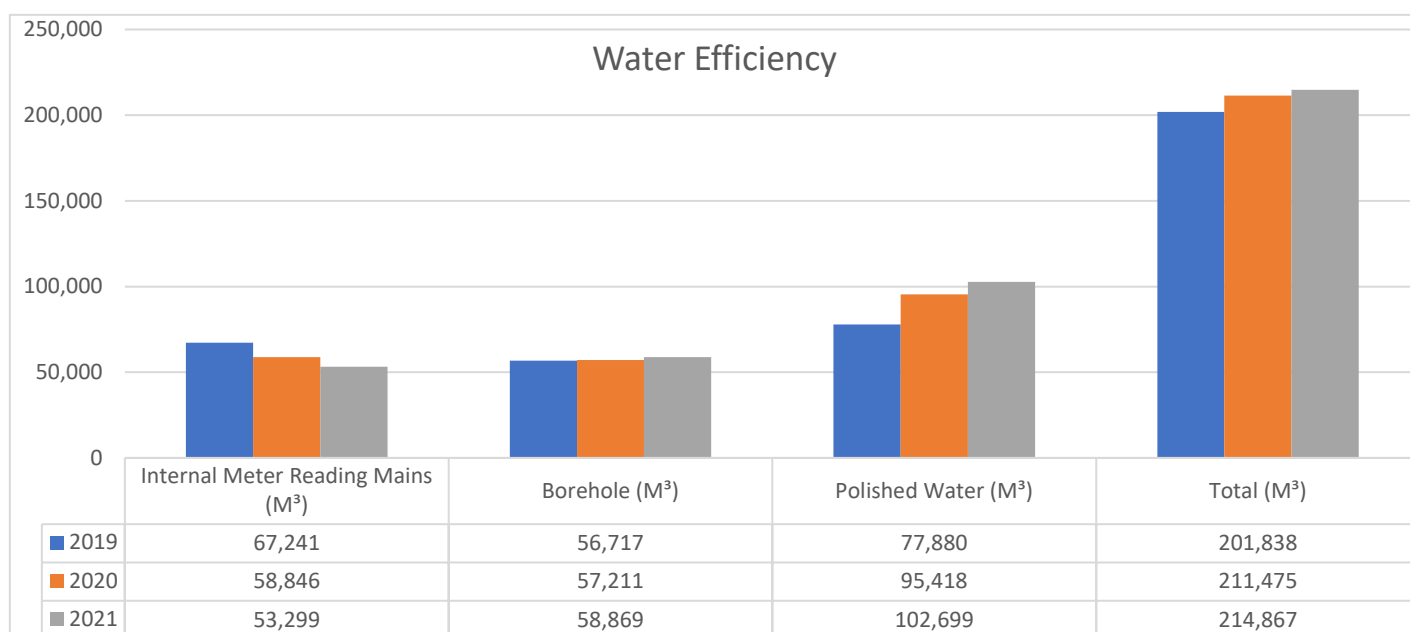
Cheese Production Figures

These figures below show a continuous growth of the business and its essential role of providing jobs for the local community.



Water Efficiency

Improvements have been made to the RO plant in recent years. Following the installation of the new RO plant. Please see graph below, which covers a three-year period.

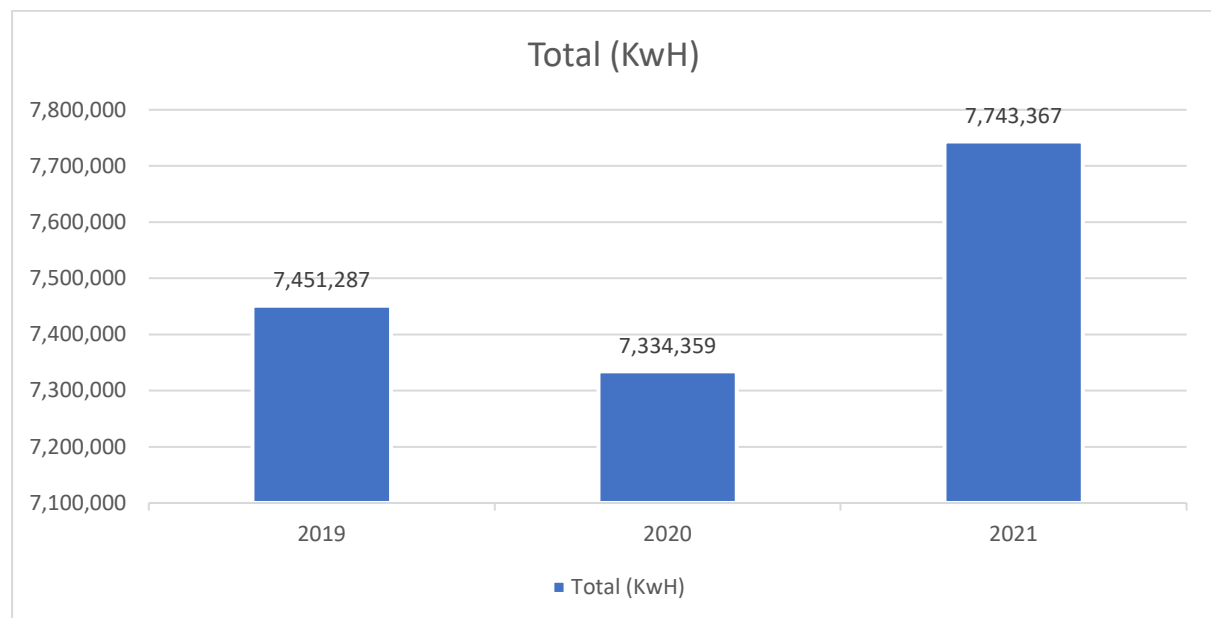


Total water usage for the site has steadily increased, however we continue to draw less water from main source and re use a lot more polished water.

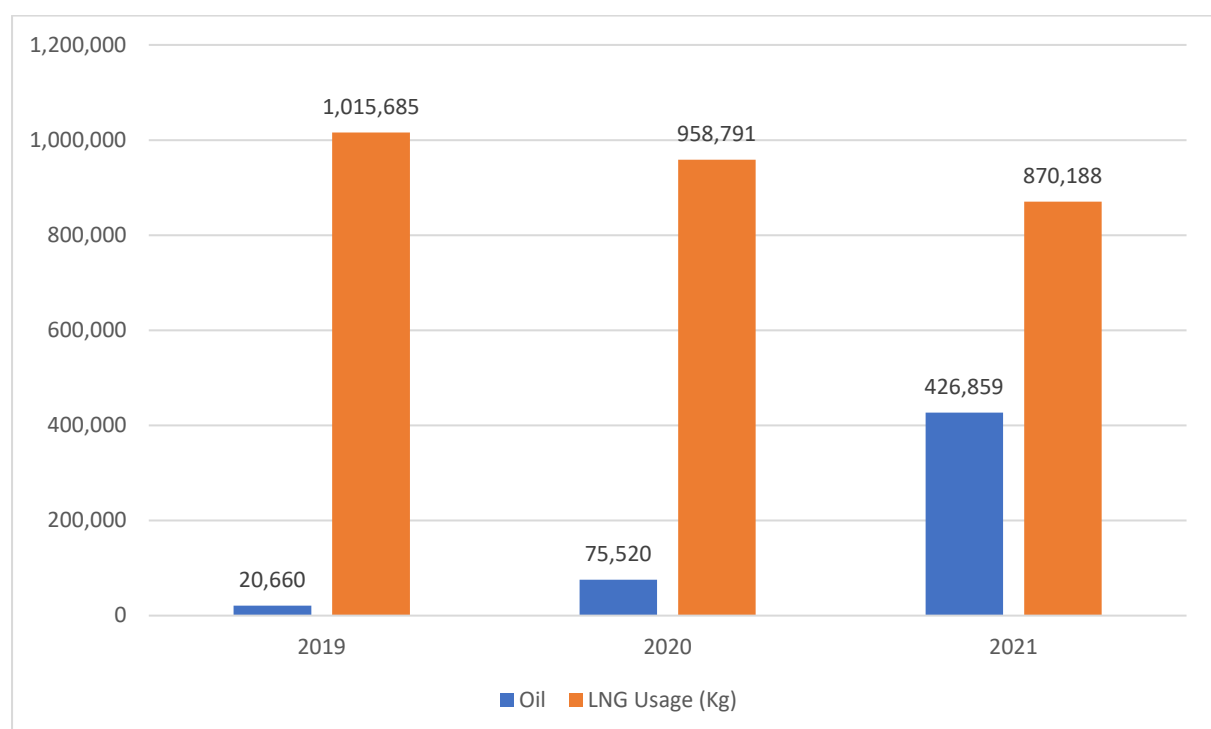
Energy Usage

Electricity

Please see chart below showing our electricity usage over a three-year period. These figures are captured monthly.



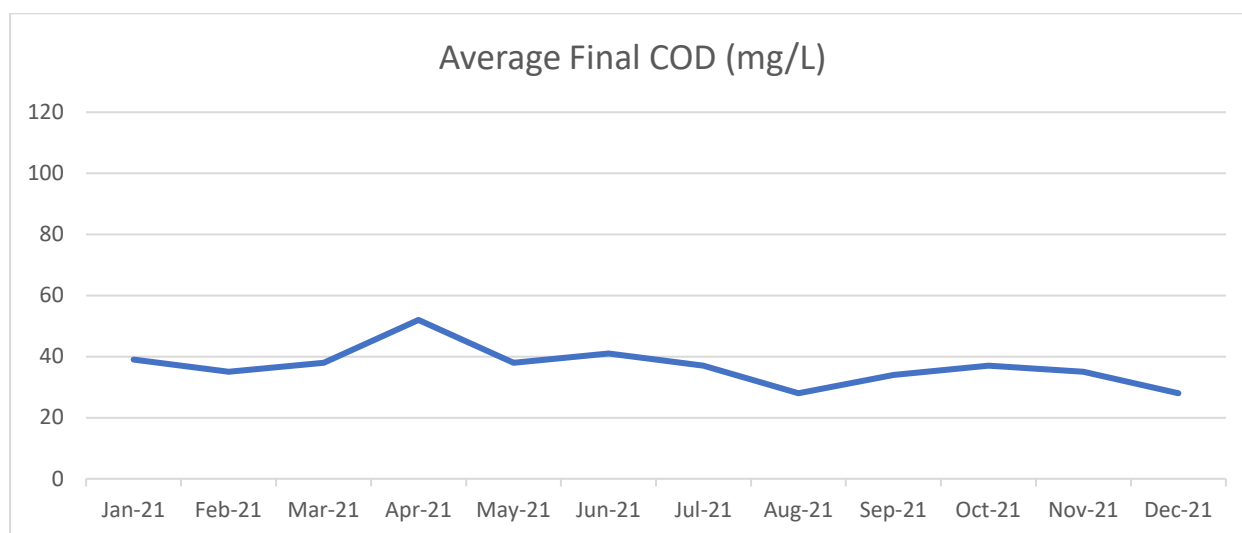
LNG continues to be used on-site and the light fuel oil has been used as an emergency fuel, but until more recently has become our main supply, due to the energy market at present. As you can see by looking at the graph below, LNG usage has declined and oil has increased.



2. Environmental Performance of the WWTP

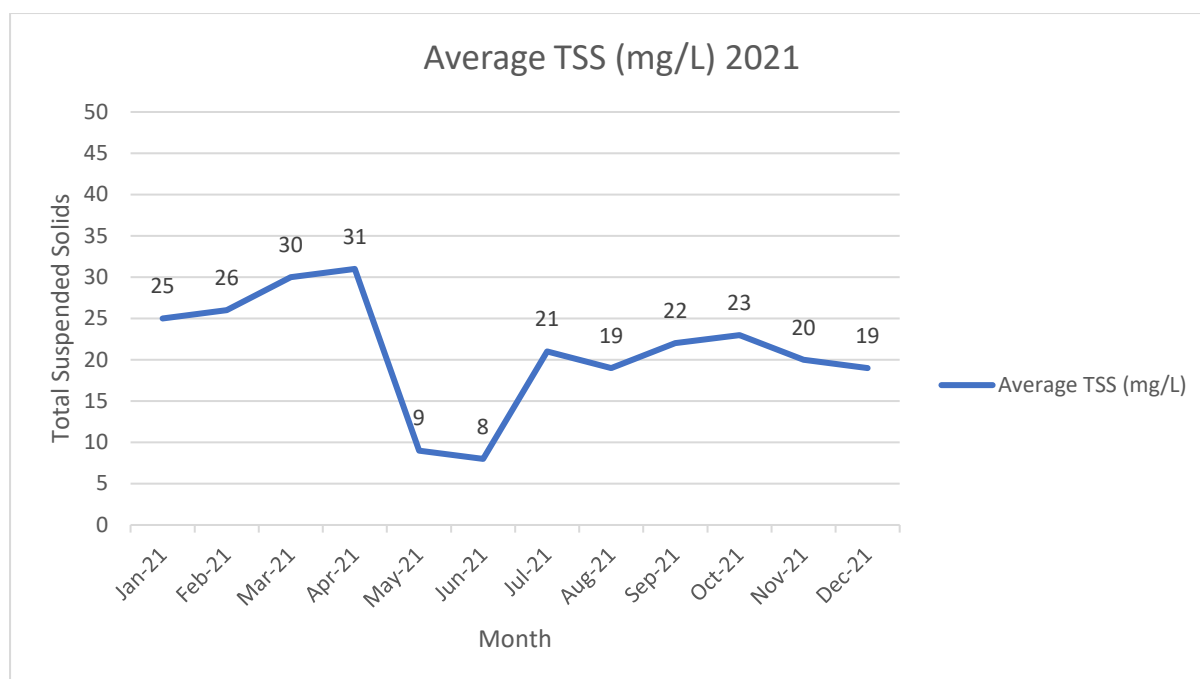
Dairy Partners invested heavily in a new wastewater treatment plant due to the old asset not operating at an optimal level. Dairy partners monitored the WWTP as per EPR permit requirements. Tests carried out over 2021 were COD, TSS, Ammonia, Nitrite, Mercury, Cadmium and Temperature.

Average COD for 2021 (Figure captured from daily internal testing)



Final discharge results have seen a dramatic improvement due to the development of the new wastewater treatment plant. Dairy Partners will continue to monitor these parameters over the course of 2022.

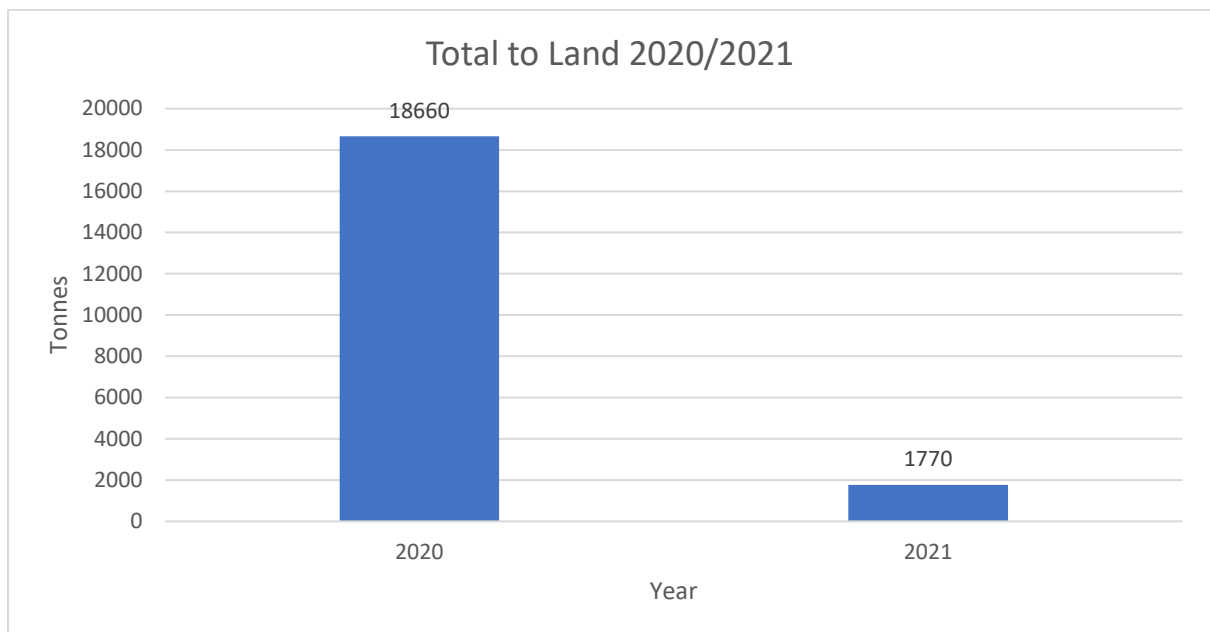
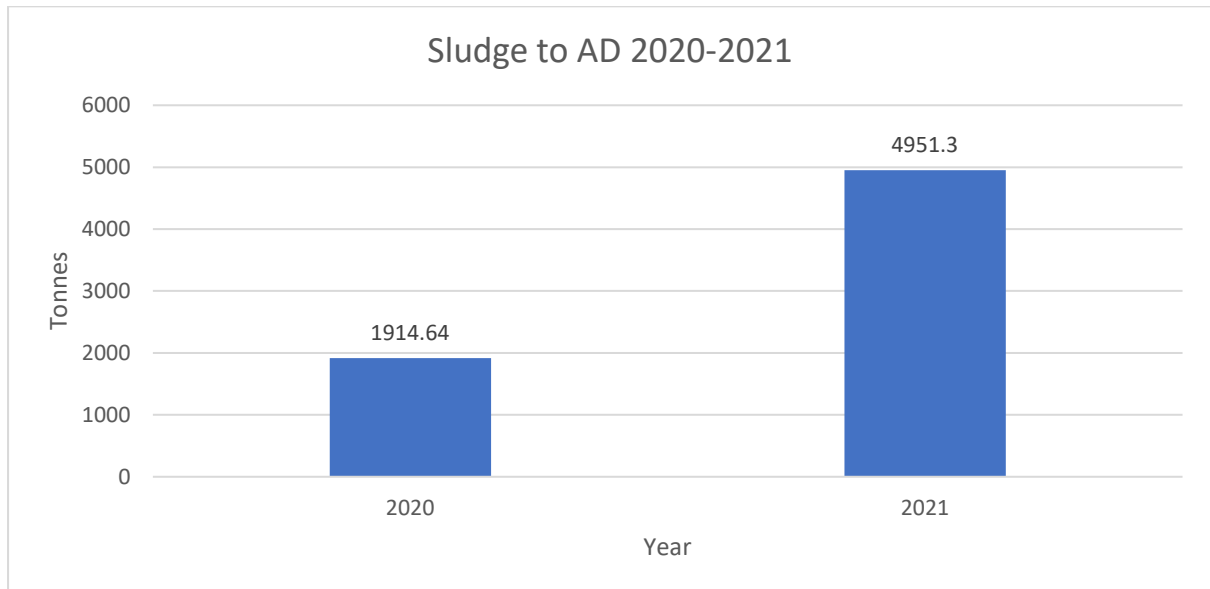
Average TSS results for 2021 (Figures captured from daily monitoring)



Sludge 2021

Due to major investment in the new wastewater treatment plant, our sludge operations have improved drastically over the course of the year. This can be seen below by comparing 2020 to 2021.

This chart shows the amount of sludge for land spread has decreased and the amount to AD has increased. The number of tankers also attending site is far less due to efficient operations. This has also helped improve Dairy Partners carbon footprint.



3. Complaints 2021

Noise and Odour

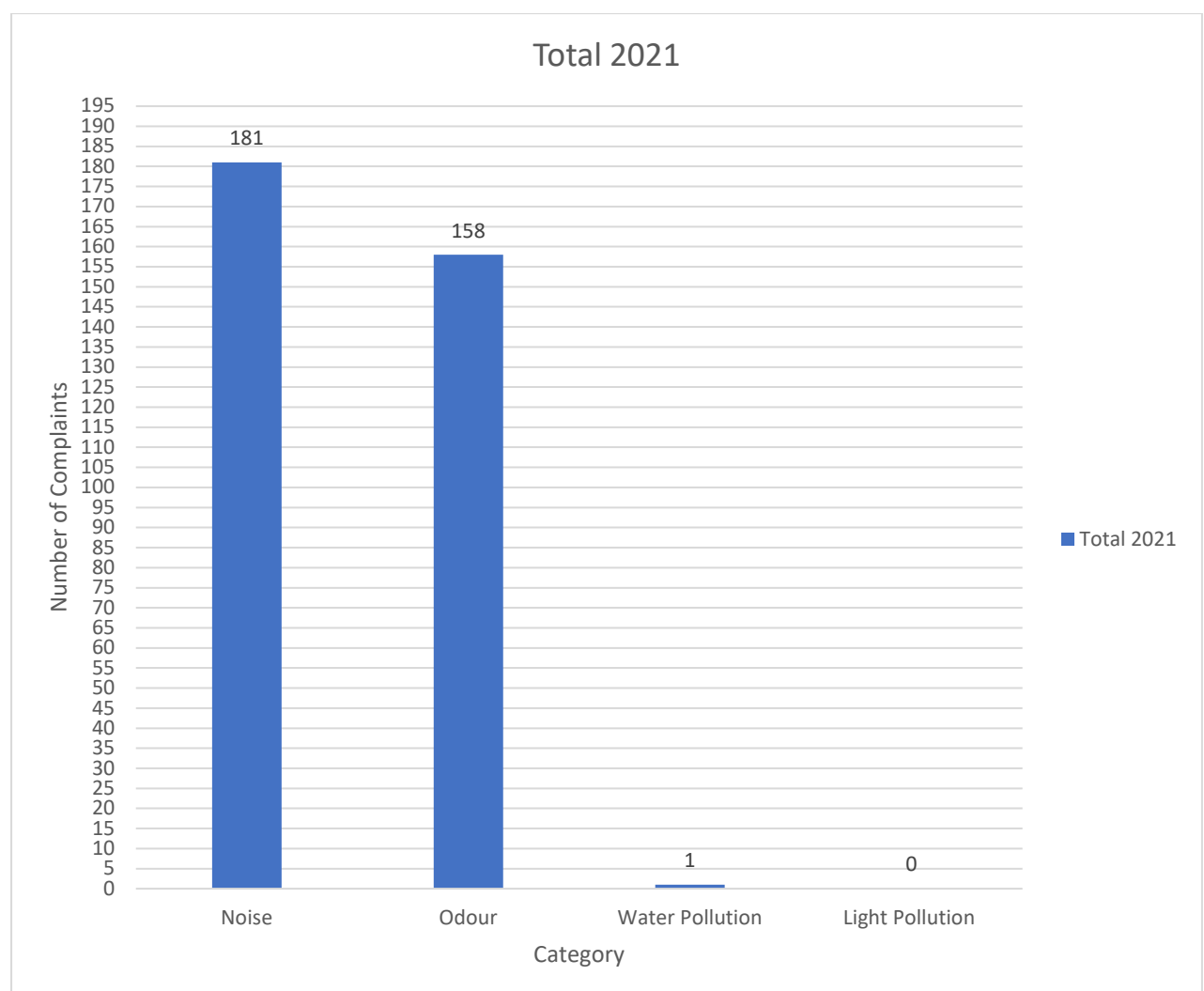
During 2021 there were 181 noise complaints reported via the incident communications centre. There were also 158 odour complaints reported.

Water Pollution

There was one major incident in the river Arad in June 2021. The root cause not identified.

Light Pollution

No light pollution reported in 2021. All tanker drivers were present during the day and LNG light faces the factory following a complaint received in 2020.



4. Site Environmental Improvements 2021

Dairy Partners have made considerable improvements in 2021. These measures were all put in place with BAT (Best Available Techniques) the driving force.

1. The commissioning of the wastewater treatment plant
2. The addition of acoustic lagging, notably the oil separators
3. Additional Roof added to the chiller compound
4. Less sludge tankers. (Down from 14 a day to 1 every 3-4 days).
5. Odour control measures. The DAF units are enclosed with added Carbon filtration. And a dedicated carbon odour control unit to treat odorous displaced air from the tankers during export operations.





5. EMS (Environmental Management System)

Several improvements have been made to the environmental management system. This was made possible following an internal GAP analysis.

The environmental policy remained the same as 2020. This policy was reviewed and signed by the site manager and the managing director.

Other improvements include:

1. EMS Manual for all staff
2. Environmental risk assessments for operations and containment
3. Environmental training requirements for all staff.
4. Spill Response plan
5. Environmental Accident Plan
6. Key plant and equipment monitored by new iAuditor system
7. Internal Audits (COSHH, Noise, Land Contamination, Water etc)
8. Total revamp of the Mcerts Management System

6. Review of Environmental Objectives Set in 2021

1. **Improvement and development of the environmental management system**
2. **Energy Efficiency and carbon emissions reductions**

Dairy Partners managed to reach the objective in terms of improving the environmental management system. However, the company fell short when it came to emissions reductions.

In terms of energy efficiency, dairy partners did install new and improved lighting across site which are run by sensors and turn off when no movement is detected.

An 8% increase in production throughput and a change to the companies' fuel mix due to record gas prices in the Q4 was the main cause for the increase in emissions. Dairy Partners continues its work on improving emissions analysis and developing its company policy and reductions target. This will be set in the environmental objectives for 2022.

7. Objectives for 2022

Dairy Partners have yet to set in objectives for 2022. However, this will take place in February 2022 during the environmental review.

Andrew Jones

27.01.2022

Health, Safety and Environment Manager