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"We were recommended to PowTechnology by Siemens and found them agile and responsive from the outset. The proof of concept exceeded our expectations in terms of robust data and the benefits derived. The project was initiated to mitigate the consequences of run-out and overspill incidents, but the additional benefits of using accurate level data to schedule costeffective, eco-friendly logistics has been a massive bonus. We are delighted with this digital transformation solution and have expanded its use across our operation."

JAMES HUDSON Owner



## The task

JF Hudson offers 20 years of specialist agricultural engineering experience, helping farmers resolve operational and commercial challenges. One customer, AWSM Farming, offers agricultural contracting services, including the supply & filling of over 100 farm slurry tanks. Digestate provides essential fertiliser. Run-outs impact crop yield, but overfills can contaminate watercourses. Much depended on manual reporting with delays in receipt of data.

#### The solution

PowTechnology was recommended by Siemens as an end-to-end IIoT solution provider. A trial was undertaken using PowTechnology's Metron telemetry devices and Siemens SITRANS LR100 radar transmitters. Levels were reported hourly to PowTechnology's MetronView platform, with multiple level/rate of change alerts set up, so timely action could be taken to avoid incidents and also commercial inconveniences, such as part load returns.

# The result

All run-outs and overfills have been eliminated. Data, visible to multiple authorised users in a permissions hierarchy, can be viewed on any web-enabled device. Data can be used to schedule efficient routes for the 60-strong tanker fleet. Self-sufficient, solar-powered IIoT technology is rolling out to all managed tanks and promoted to customers who have purchased slurry tanks to manage themselves.

## Summary

- Run-outs/overfills eliminated
- Contamination risk eliminated
- Efficient logistics scheduling
- Reduced fuel use/environmental impact
- Improved crop production

