



## ECO2 LOW CARBON FARMING HEAT METER VERIFICATIONS

### BACKGROUND

Our client is the asset manager of two giant low carbon greenhouse, the first of their kind in the world. The two enormous greenhouses, located near Norwich and Bury St Edmunds, together cover more than 29 hectares and capable of producing 12% of the country's tomatoes, as well as cucumbers and peppers.

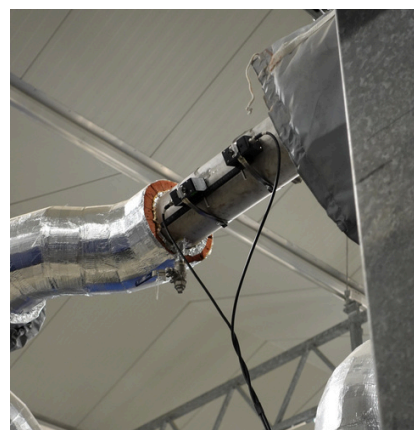
The low carbon greenhouse projects integrate water source heat pumps, combined heat and power gas engines and advanced and renewable heat. The energy used is calculated.

### CHALLENGE

Our client reached out to us to carry out verification of their on-site energy calculators. This system comprises of Siemens FUE380 flow meter and Siemens FUE950 energy calculator. Across the two sites there are 29 energy calculators to check.

### SOLUTION

Our Process Instrument Services team carried out verification of flow meters and calibration of temperature sensors to prove the heat meter accuracy. The flow rate was compared to our Siemens FS220 ultrasonic clamp on flow meter and the temperature sensors were checked with a temperature bath across their range. Access to the instruments was via a Mobile Elevated Working Platform (MEWP).





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### RESULT

All units were checked, and the client was presented with calibration certificates for the energy meters.



**DAVID READ**  
Engineering Team Leader

### EQUIPMENT USED



Siemens FS290 clamp on  
flow meter

### SERVICE PROVIDED



Calibration and Verification  
Services by Process Instrument  
Services

