



#### What we learned –

Adaptation and development of measurement technique, power supplies and camera supervision for icing conditions

Bengt Norén, In Situ Instrument AB

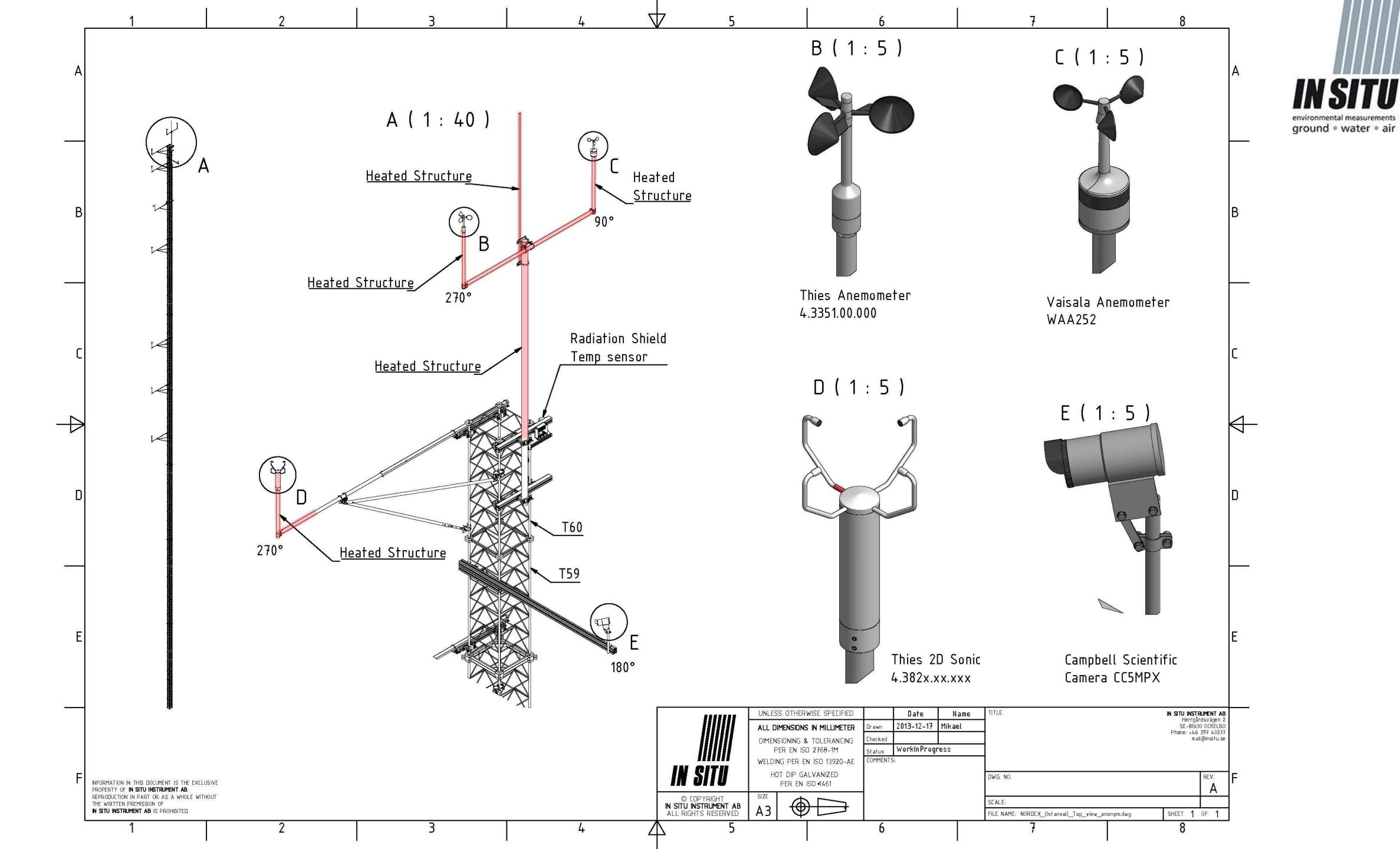




## Icing measurment on a Siemens Wind Mill









### In the Baltic Sea

Customer demand: Seven months autonomy during winter conditions, with diesel and solar power. We did it!





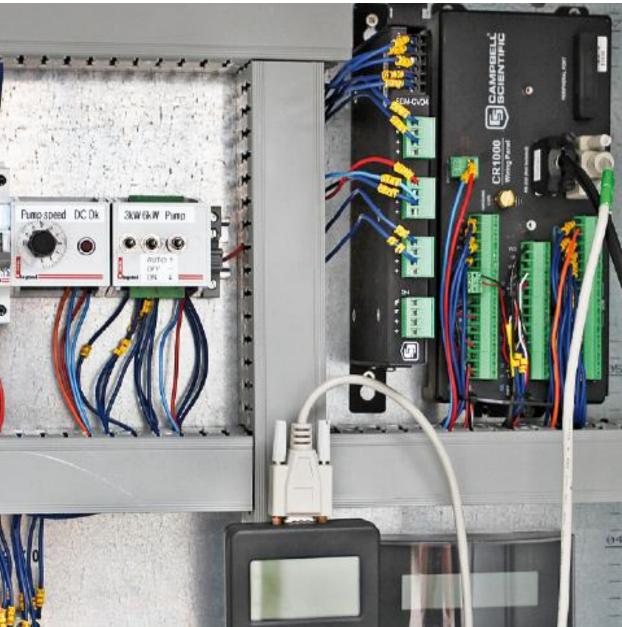


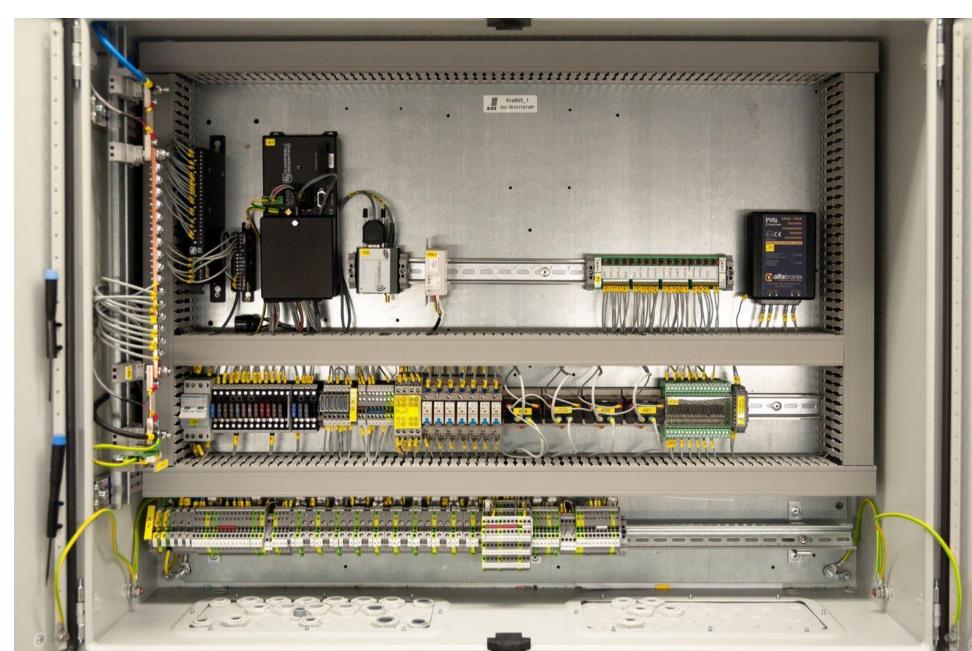


### Innovation

- Decades of experience with innovative problem solving in a great variety of fields
- Thorough engineering competence in mechanic construction, measurement technique, electronics, data communication and programming as well as general material knowledge
- In-house product research and development capabilities, participation in external development projects









# Measurement systems

- Hydrology systems
- Flux systems (Turbulent fluxes, greenhouse gases)
- Dam monitoring (Geotechnical dam safety)
- Icing measurement
- Thermo response (Geothermal energy analysis)
- Vibration measurement
- Wind power meteorology









## Services

Problem analysis
Project management
Systems design
Installation

Monitoring
Data collection
Data analysis
Control plans

Calibration
Certification
Documentation
Training