

INDEX FOR FUTURE WAVE PERFORMANCE TESTING STANDARD

Overview

Test site

- Bathymetric survey
- Current survey
- Tidal survey
- Wave refraction modelling
- Incorporation of currents

Measurements – general

- Definition of simultaneity
- Definition of collocation
- Sample duration
- Sample frequency
- Data recording
- Missing samples

WEC power output measurements

(This section will lean heavily on the relevant sections of the MTBF Protocol {wave})

- Definition of the WEC for electrical export purposes
- Power measurements
- Instruments and calibration
- Data analysis and presentation

Wave measurements

- Specification of sea-state
- Discussion of spatial and temporal variability
- Instrument types
- Instrument specification
- Mooring
- Calibration path
- Number and placement of instruments
- Data analysis and presentation

Meteorological Measurements

- Location of measurements
- Pressure
- Temperature
- Humidity
- Wind speed and direction
- Precipitation

Calculation of Performance Indicators

- Caveats with regard to provisional nature of guidelines
- Power curve and initial investigations
- Measured power matrix
 - Associated uncertainty matrix
- Capture length matrix
 - Associated uncertainty matrix
- Sub-classification by frequency and direction

Reporting

(Non-prescriptive suggestions, depending on how EMEC view the function of the assessment)

Reporting frequency

Report contents

Data availability

WEC power

Wave measurements

Wave climate

WEC power output

Performance results

Please note: progression of this standard is pending approval of funding by DBERR