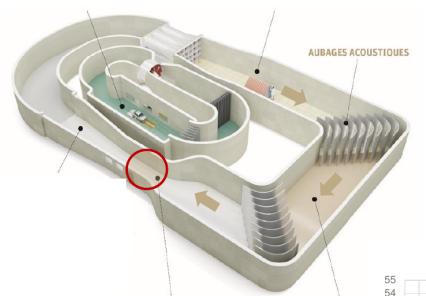
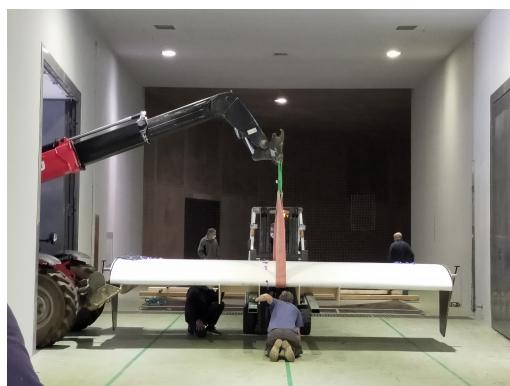


## Aerodynamic section test of CSTB wind tunnel, France

### Description of facility

#### Pictures:



Aerodynamic test section

#### General description

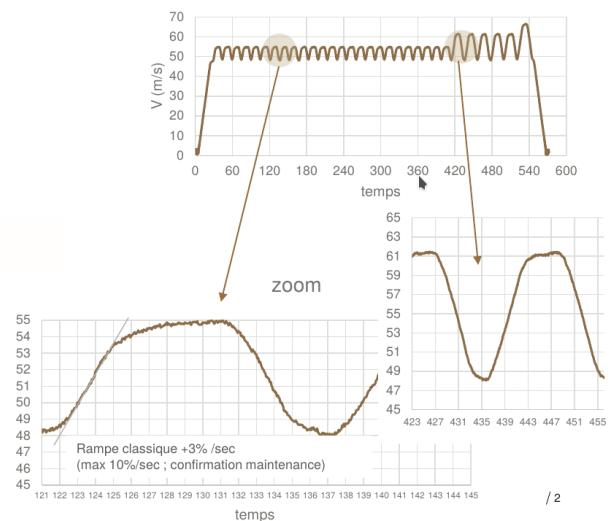
Type: Göttingen type wind tunnel  
Size of test section: 6m x 5m x 12m (width x height x length)  
Configuration: closed test section  
Velocity range: 70m/s  
Background Ti: below 1%  
Cooling: no

#### Measurement equipment:

Pressure: 1000 simultaneous pressure measurements (1kHz each)  
forces: 6 component balance (rotor only, blade in progress)  
Velocity: Prandtl tube  
fast Prandtl tube (100Hz)  
5 holes pressure sensor (1kHz)  
Stereo Particle Image Velocimetry (PIV) up to 10 kHz

#### Additional equipment:

Gust generator: ~+7m/s in 2s



## Blade Models:

Blade section at 80% blade span of an operating turbine (Senvion 2MW MM92)  
(Full scale)

## Inflow conditions:

CFD simulations of the entire wind tunnel circuit

Mean velocity measurement at the test section

**Website:** Data will be available at the end of ePARADISE project (around 2024).

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Phone: +33 255.589.013

## Other test sections:

