

Bird Collision Avoidance Study

The world's most comprehensive seabird collision avoidance study around an offshore wind farm

04

year study

22

months observing seabird behaviour

04

turbines fitted with monitoring equipment

Research funded by 11 offshore wind developers and 4 public bodies

COMBINED CAMERA-RADAR SYSTEM

606,554

videos analysed

- ☀ 558,554 day videos
- 🌙 48,000 night videos

12,131

- ☀ daylight videos showing seabirds at offshore wind farm
- 🌙 Only 75 birds seen at offshore wind farm at night

RADAR DETECTION

2 types of radar system used to track individual seabird flight paths around the outskirts of the farm

LASER RANGE FINDERS

230 days of expert visual observers based on turbine platforms tracking bird behaviour

Study Location:

Thanet Wind Farm

11km

off the coast of Kent

90m

Blade diameter (the length of a football pitch)

100

turbines spread across 35km²

Blades rotating from 25m to 115m above sea level

Looking at the behaviour of 5 target seabird species up to distance of 3km beyond the farm



Northern Gannet



Black-legged Kittiwake



Lesser Black-backed Gull



Herring Gull



Great Black-backed Gull