

Publications WT-Bird

2017

Status report on measuring bird collision in relation to bird fluxes at OWEZ Offshore Wind farm Egmond aan Zee

J.P.Verhoef (ECN), K.L. Krijgsveld (Bureau Waardenburg), F. Kaandorp (ECN) and R.C. Fijn (Bureau Waardenburg)

Petten, 2017, ECN-X-17-022

2011

Results of offshore dummy impact tests for WT-Bird application

S.A.M. Barhorst and P.A. van der Werff

Petten, 2011, ECN-X--11-074

A review of methods to monitor collisions or micro-avoidance of birds with offshore wind turbines.

Part 1: Review. Strategic Ornithological Support Services, Project SOSS03A, Crown Estate London Collier, M.C., S. Dirksen and K.L. Krijgsveld

Culemborg, 2011, Report 11-078, Bureau Waardenburg

2009

Characterization of dummy impacts on Vestas V90 blade for WT-Bird application

E.J. Wiggelinkhuizen and S.A.M. Barhorst

Petten, 2009, ECN-X--09-074

Monitoring of bird collisions in wind farm under offshore-like conditions using WT-BIRD system

E.J. Wiggelinkhuizen (ECN), H.J. den Boon (E-Connection Project BV)

Petten, 2009, ECN-E-09-033

2007

WT-Bird: Bird collision monitoring system for multi-megawatt wind turbines

E.J. Wiggelinkhuizen, L.W.M.M. Rademakers, S.A.M. Barhorst (ECN), H.J. den Boon (E-Connection Project BV), S. Dirksen (Bureau Waardenburg)

Petten, 2007, ECN-M--07-048

2006

Bird collision monitoring system for multi-megawatt wind turbines WT-Bird

E.J. Wiggelinkhuizen, L.W.M.M. Rademakers, S.A.M. Barhorst (ECN), H.J. den Boon (E-Connection Project BV)

Petten, 2006, ECN-CX--06-075

WT-Bird Bird collision recording for offshore wind farms

E.J. Wiggelinkhuizen, L.W.M.M. Rademakers, S.A.M. Barhorst (ECN), H.J. den Boon (E-Connection Project BV), S. Dirksen (Bureau Waardenburg), H. Schekkerman (Alterra)
Petten, 2006, ECN-RX-06-060

Bird collision monitoring system for multi-megawatt wind turbines WT-Bird®

Summary of prototype development and testing

E.J. Wiggelinkhuizen, L.W.M.M. Rademakers, S.A.M. Barhorst (ECN), H.J. den Boon (E-Connection Project BV)
Petten, 2006, ECN-E-06-028

Bird collision monitoring system for multi-megawatt wind turbines WT-Bird®

E.J. Wiggelinkhuizen, L.W.M.M. Rademakers, S.A.M. Barhorst (ECN), H.J. den Boon (E-Connection Project BV)
Petten, 2006, ECN-E-06-027

2004

WT-Bird: A Low Cost Solution for Detecting Bird Collisions

Verhoef, J.; Eecen, P.; Nijdam, R.; Korterink, H.; Scholtens, H.
Petten, 2004, ECN-CX--03-091

2002

WT-BIRD. A novel bird impact detection system

Verhoef, J.P. , C.A. Westra, H.Korterink, A.Curvers,
Petten, 2002, ECN Report ECN-RX--02-055

Conferences

2015

“Bird collisions at OWEZ offshore wind farm measured with WT-Bird”

K.L. Krijgsveld, R. Fijn, M. Collier and J.P. Verhoef

Conference on Wind Energy and Wildlife impacts (CWW 2015)

Berlin, 2015

2007

[WT-BIRD: Bird collision monitoring system for multi-megawatt wind turbines](#)

Wiggelinkhuizen, E.J.

Presented at: European Wind Energy Conference 2007, Milan, Italy, 7-10 May 2007.

2006

WT-Bird Bird collision recording for offshore wind farms

E.J. Wiggelinkhuizen, L.W.M.M. Rademakers, S.A.M. Barhorst (ECN), H.J. den Boon (E-Connection Project BV), S. Dirksen (Bureau Waardenburg), H. Schekkerman (Alterra)

European Wind Conference 2006

Athens, February 27 – March 2, 2006

2004

WT-Bird. Bird collision recording for offshore wind farms

E.J. Wiggelinkhuizen, L.W.M.M. Rademakers, S.A.M. Barhorst (ECN), H.J. den Boon (E-Connection Project BV), S. Dirksen (Bureau Waardenburg), H. Schekkerman (Alterra)

Presented at: European Wind Energy Conference 2004, London, UK, 22-25 November 2004.

2002

[WT-bird. A novel bird impact detection system](#)

Verhoef, J.P.; Westra, C.A.; Kortering, H.; Curvers, A.P.W.M.

Presented at: DEWEK 2002 Conference, Wilhelmshaven, Germany, 23-24 October 2002.

Additional information

Besides the previous overview of documentation and conferences (available in English) there are also a numerous internal memos (both English and Dutch) and presentation which are in Dutch

Automatic detection of impacts and avoidance behavior of birds in or nearby offshore windfarms
Automatische detectie e/of vermijdingsgedrag van vogels in en nabij offshore windparken
Ministry RWS – Waterdienst en Noordzee
The Hague , January 2013

Characterization of wind turbine noise for WT-Bird application in OWEZ
Test plan – Revision 03
Edwin Wiggelinkhuizen, Sam Barhorst and Henk Oostrum
ECN-Wind Memo-10-008

W-Bird User Manual
Version 0.2
ECN-Wind Memo-09-009