

References Projects

Status 10/2019

Measurement and Evaluation

Wind measurements with met mast (188 measurements)

_ Austria: 171 _ Germany: 2 _ USA: 5 _ Bulgaria: 2 _ Romania: 8

Measurements by means of Remote Sensing Devices LiDAR/SODAR (70 measurements)

_ Austria: 45 _ Germany: 21 _ USA: 2
 _ Bulgaria: 1 _ France: 1

Wind potential and energy yield forecast (2.877 MW)

_ Austria: ca. 1.349 MW _ Ethiopia: 1 project, 100 MW _ Romania: 11 projects, 634 MW
 _ Bulgaria: 5 projects, 82 MW _ France: 1 project, 15 MW _ Slovakia: 3 projects, 22 MW
 _ Canada: 3 projects, 60 MW _ Germany: 5 projects, 31 MW _ Turkey: 2 projects, 170 MW
 _ Croatia: 5 projects, 110 MW _ Hungary: 2 projects, 64 MW _ USA: 3 projects, 209 MW
 _ Czech Republic: 5 projects, 31 MW

Site classification and evaluation of WTG suitability (737 MW)

_ Austria: ca. 539 MW _ Germany: 1 project, 3 MW Slovakia: 2 projects, 18 MW
 _ Bulgaria: 1 project, 8 MW _ Romania: 5 projects, 169 MW

EWS north orientation check of wind turbines

_ Austria: 14 _ Germany: 10

EWS Power Curve Check & Performance Check

_ Austria: 13 _ Germany: 3

EWS Power Curve Measurements according to EN 61400-12-1 Ed.2

_ Austria: 3

Acoustic noise immission measurements and evaluation

_ Austria: 115 reports _ Germany: 2 reports

Acoustic noise emission measurements and tonality analysis

_ Austria: 7 reports _ Germany: 1 report

Technical Due Diligence (6.293 MW)

_ Austria: 239 MW _ France: 12 MW _ Portugal: 435 MW
 _ Belgium: 390 MW _ Germany: 54 MW _ Romania: 1.602 MW
 _ Bulgaria: 140 MW _ Hungary: 380 MW _ Slovakia: 511 MW
 _ Czech Republic: 93 MW _ Italy: 40 MW _ USA: 483 MW
 _ Croatia: 94 MW _ Poland: 20 MW _ Additional: 1800 MW partially evaluated

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Planning

Technical planning & permit procedures (1.376 MW)

- _ Austria: 35 Environmental impact assessments, 923 MW
- _ Austria: 58 Electrical permit procedures, 405 MW
- _ Bulgaria: 1 project, 12 MW
- _ Germany: 2 projects, 36 MW

Repowering

- _ Austria: 7 projects, 193 MW

EWS analysis of potential areas for wind power utilization

- _ For different Austrian provinces and regions.

Implementation

Construction management (1.680 MW)

- _ Austria: 91 projects, 1.588 MW
- _ Bulgaria: 4 projects, 62 MW
- _ Croatia: 1 project, 11 MW
- _ Czech Republic: 1 project, 2 MW
- _ Romania: 2 projects, 17 MW

Repowering

- _ Austria: 5 projects, 81 MW
- _ Romania: 1 project, 7 MW

Electrical and Power Systems Engineering

Partial discharge measurements

- _ Austria: 281 measurements

Biology / Ecology

Ornithological and bat expertise

- _ Austria: 17 projects
- _ Germany: 1 project

Ecological construction management

- _ Austria: 2 projects

Biological / ecological monitoring

- _ Austria: 9 projects

Research Projects & Studies (examples)

- _ Research Project "Wind turbine performance testing" Upper Austria (2016)
- _ Research Project "Further development of LIDAR & BAT measurement technology", Upper Austria (2014)
- _ Research Project LIDAR Wind measurement „Wind in Forests“, Upper Austria (2016)
- _ Study about „Repowering-Potential from Wind Energy, Lower Austria and Burgenland“ for Verbund-Austrian Renewable Power GmbH (2010)