

# References Projects

Status 10/2021

## Measurement and Evaluation

### Wind measurements with met mast (193 measurements)

- \_ Austria: 173
- \_ Bulgaria: 2
- \_ Croatia: 1
- \_ France: 1
- \_ Germany: 3
- \_ Romania: 8
- \_ USA: 5

### Measurements by means of Remote Sensing Devices LiDAR/SODAR (82 measurements)

- \_ Austria: 50
- \_ Bulgaria: 1
- \_ Croatia: 1
- \_ Germany: 26
- \_ France: 1
- \_ Slovenia: 1
- \_ USA: 2

### RSD-Verification at EWS-Testfield in Stetteldorf am Wagram (20 verifications)

#### Wind potential and energy yield forecast (3.012 MW)

- \_ Austria: ca. 1.430 MW
- \_ BHI: 1 project, 50 MW
- \_ Bulgaria: 5 projects, 82 MW
- \_ Canada: 3 projects, 60 MW
- \_ Croatia: 5 projects, 110 MW
- \_ Czech Republic: 6 projects, 35 MW
- \_ Ethiopia: 1 project, 100 MW
- \_ France: 1 project, 15 MW
- \_ Germany: 5 projects, 31 MW
- \_ Hungary: 2 projects, 64 MW
- \_ Romania: 11 projects, 634 MW
- \_ Slovakia: 3 projects, 22 MW
- \_ Turkey: 2 projects, 170 MW
- \_ USA: 3 projects, 209 MW

#### Site classification and evaluation of WTG suitability (831 MW)

- \_ Austria: ca. 633 MW
- \_ Bulgaria: 1 project, 8 MW
- \_ Germany: 1 project, 3 MW
- \_ Romania: 5 projects, 169 MW
- Slovakia: 2 projects, 18 MW

#### EWS Power Curve Check & Performance Check

- \_ Austria: 14
- \_ Germany: 3

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

- \_ Austria: 3
- \_ Germany: 2

#### Acoustic noise immission measurements and evaluation

- \_ Austria: 127 reports
- \_ Germany: 2 reports

#### Acoustic noise emission measurements and tonality analysis

- \_ Austria: 11 reports
- \_ Germany: 1 report

#### Technical Due Diligence (6.338 MW)

- \_ Austria: 284 MW
- \_ Belgium: 390 MW
- \_ Bulgaria: 140 MW
- \_ Czech Republic: 93 MW
- \_ Croatia: 94 MW
- \_ France: 12 MW
- \_ Germany: 54 MW
- \_ Hungary: 380 MW
- \_ Italy: 40 MW
- \_ Poland: 20 MW
- \_ Portugal: 435 MW
- \_ Romania: 1.602 MW
- \_ Slovakia: 511 MW
- \_ USA: 483 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 (1.961 MW)

- \_ Austria: 117 projects, 1.858 MW
- \_ Bulgaria: 4 projects, 62 MW
- \_ Croatia: 2 project, 22 MW
- \_ Czech Republic: 1 project, 2 MW
- \_ Romania: 2 projects, 17 MW

### Repowering

- \_ Austria: 8 projects, 131 MW
- \_ Romania: 1 project, 7 MW

## Electrical and Power Systems Engineering

### Partial discharge measurements

- \_ Austria: 418 measurements

## Biology / Ecology

### Ornithological and bat expertise

- \_ Austria: 19 projects
- \_ Germany: 1 project
- \_ Slovenia: 1 project

### Ecological construction management

- \_ Austria: 2 projects

### Biological / ecological monitoring

- \_ Austria: 13 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)