Benchmark Statement

This is the Benchmark Statement for the following family of Parametric Climate Indices:

National Wind Benchmarks Energy Output Regional Wind Benchmarks Energy Output Producer Wind Benchmarks Energy Output

(the 'Speedwell Wind Benchmarks')

This is a family of non-significant benchmarks pursuant to point 27 of Article 3(1) of Regulation (EU) 2016/1011 as it does not meet the critical benchmark thresholds detailed in Article 20, nor does it meet the EUR 50 billion significant benchmark threshold detailed in Article 24.

Version Control

Release1 8 October 2018 Initial Listing

Release2 15 September 2020 Addition of further National Wind Benchmarks, addition of ERA5 source

Regulatory Background

Speedwell Settlement Services Ltd ('Speedwell Settlement Services') has been granted a Part 4A permission under Part 4A of the Financial Services and Markets Act 2000 to carry on the regulated activity of administering a benchmark.

Speedwell Settlement Services was authorised by the United Kingdom Financial Conduct Authority with an effective date of 7 August 2018 and was granted a Part 4A permission under Part 4A of the Financial Services and Markets Act 2000 ("FSMA") to carry on the regulated activity of administering a benchmark. That Part 4A permission constitutes SSS's 'Registration' for the purposes of the UK Benchmarks Register.

Introduction

SSS is the Benchmark Administrator for the Speedwell Wind Benchmarks Energy Output family of indices.

Wind Benchmarks are parametric indices that permit risk transfer relating to energy output from wind generation assets either nationally ("National Wind Benchmarks") or for specific regions ("Regional Wind Benchmarks") or for specific windfarm assets ("Producer Wind Benchmarks"). Each Benchmark represents daily or sub-daily theoretical energy production, denominated in MWh based on the "frozen" installed wind generation capacity as of a specific date and separately defined for each index in the family. A number of existing Wind Benchmarks are available in this family ("Standard Wind Benchmarks") but the methodology can be applied to any national, regional or producer basket of wind generation assets to permit risk transfer.

General Disclosure

This Benchmark Statement was first published on 8 October 2018 and has been updated as shown in the Version Control section.

Regional Relevance

The methodology behind this family of Wind Benchmarks is applied to the Standard Wind Benchmarks listed below. The methodology behind this family of Wind Benchmarks can also be applied to produce Wind Benchmarks allowing risk transfer for other countries/regions or producer-specific generation assets.

Tel: +44 (0)1582 465 551

Standard Wind Benchmarks:

Australia Regional: NEM, NSW, QLD, SA, TAS, VIC, WEM

Belgium National Denmark National France National Germany National Ireland National Italy National

Netherlands National

Norway National

Spain National

Sweden National

Turkey National

UK National

United States Regional: ERCOT

Source Data

The Benchmarks in this family use ERA5 or MERRA-2 gridded windspeed data as source data. In the event of failure of this data source or where this data is not yet available, the Source Data for a particular day is provided by a proprietary WRF model initialised using ECMWF or GFS wind data.

Calculation Method

The calculation of the Speedwell Wind Benchmarks uses the following method:

- Metadata defining the relevant physical characteristics and location of wind turbines relevant for a specific Wind Benchmark is collated.
- ERA5 or native MERRA-2 3-hourly wind speed data at a number of relevant atmospheric levels are downscaled to provide a high-resolution geospatial grid for each location.
- The downscaled wind speed is transformed to a power output for respective turbines using the concept of the power curve.
- The total energy output is then derived for each hour or 3-hour periods depending on the grid source.
- An optimisation process may be run by a statistician or by using a machine learning technique that maps the theoretical energy output to the observed official data.
- Given that ERA5 and MERRA-2 gridded data are only available in arrears, a proprietary industry-standard forecast model ("WRF Model") is run to estimate the final value. The WRF Model is itself initialised with wind data using outputs from the GFS or ECMWF forecast models.
- The daily values constituting the delivered Benchmark will either be grid-derived or WRF Model-derived depending on the settlement time period agreed. Where grid-derived values are available for a particular day, those values will be senior to the WRF Model-derived values.

Units: MWh. **Granularity**: Daily

Sub daily Composition: the daily value of each member of this family of Benchmarks are derived from the addition of sub daily energy generation periods. These sub periods may correspond to the full 24 hours, or to peak hours or other tailored sub daily periods as defined for each individual Benchmark.

ISIN: there is currently no ISINs attributed to this family of Benchmarks.

Speedwell Settlement Services

Resilience: For the removal of doubt, this family of Benchmarks does not rely on market data for the derivation of its values. Therefore, the provision of this family of Benchmarks does not depend on a liquid traded market in any traded index based on it.

Methodology Change:

SSS shall publish on its website any material changes to methodology. There is no procedure for public consultation. National and Regional Wind Benchmarks are subject to periodic review to reflect changes in the underlying renewables asset base. For the removal of doubt, no change shall be made to methodology nor will there be any inperiod adjustment to calibration while there are open transactions based on a specific Speedwell Wind Benchmark.

Updates

Wind Benchmarks are subject to an update on an annual cycle to reflect the latest installation or decommissioning of wind turbines. Where a previous version of such a Wind Benchmark is still subject to an open risk-transfer contract, previous versions of the Wind Benchmarks will be maintained in parallel.

Publication Timings

11 00 GMT at the latest

Notice and Disclaimer

Speedwell Settlement Services Ltd ('Speedwell Settlement Services') is registered in England with registered number 10135203 and registered office at Mardall House, 9-11 Vaughan Road, Harpenden, United Kingdom. Speedwell Settlement Services is authorised by the UK Financial Conduct Authority as a registered Benchmark Administrator (FRN 804610).

This document and all of the information contained in it, including without limitation all methods, processes, concepts, text, data, graphs, charts (collectively, the "Information") is the property of Speedwell Settlement Services or its licensors, direct or indirect suppliers or any third party involved in making or compiling any Information (collectively, with Speedwell Settlement Services, the "Information Providers") and is provided for informational purposes only. The Information may not be reproduced or disseminated in whole or in part without prior written consent from Speedwell Settlement Services.

The Information may not be used to create derivative works or to verify or correct other data or information without prior written consent from Speedwell Settlement Services. For example (but without limitation), the Information may not be used to create indices, databases, risk models, analytics, software, or in connection with the issuing, offering, sponsoring, managing or marketing of any securities, portfolios, financial products or other investment vehicles utilizing or based on, linked to, tracking or otherwise derived from the Information or any other Speedwell Settlement Services data, information, products or services.

The user of the Information assumes the entire risk of any use it may make or permit to be made of the Information. SPEEDWELL SETTLEMENT SERVICES DOES NOT MAKE ANY EXPRESS OR IMPLIED WARRANTIES OR REPRESENTATIONS WITH RESPECT TO THE INFORMATION (OR THE RESULTS TO BE OBTAINED BY THE USE THEREOF), AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IT EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES (INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF ORIGINALITY, ACCURACY, TIMELINESS, NON-INFRINGEMENT, COMPLETENESS, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) WITH RESPECT TO ANY OF THE INFORMATION.

WITHOUT LIMITING ANY OF THE FOREGOING AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL SPEEDWELL SETTLEMENT SERVICES HAVE ANY LIABILITY REGARDING ANY OF THE INFORMATION FOR ANY DIRECT, INDIRECT, SPECIAL, PUNITIVE, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR

Tel: +1 (843) 737-4843

Speedwell Settlement Services Limited is registered in England number 10135203.

ANY OTHER DAMAGES (EVEN IF NOTIFIED OF THE POSSIBILITY OF SUCH DAMAGES) WHETHER UNDER CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE. The foregoing shall not exclude or limit any liability that may not by applicable law be excluded or limited, including without limitation (as applicable), any liability for death or personal injury to the extent that such injury results from the negligence or wilful default of itself, its servants, agents or sub-contractors.

None of Speedwell Settlement Services' products or services recommends, endorses, approves or otherwise expresses any opinion regarding any issuer, securities, financial products or instruments or trading strategies and none of Speedwell Settlement Services' products or services is intended to constitute investment advice or a recommendation to make (or refrain from making) any kind of investment decision and may not be relied on as such. Any use of or access to products, services or information of Speedwell Settlement Services requires a license from Speedwell Settlement Services.