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**Wölfel Wind Systems launches SHM.Tower® at Offshore Wind 2017 in London**

* Do you want to know what **loads** your wind turbine (WT) is exposed to and how this affects the turbine’s **service life**?
* Do you need **reliable data as a basis for the assessment regarding further operation** of the WT?

Tubular steel towers can be exposed to strong vibrations which significantly affect the lifetime of a wind turbine. Since monitoring systems are missing, high fatigue loads are not detected - in particular if there is no power supply due to power failure.

Our product **SHM.Tower® detects the tower vibrations** with sensors and documents extreme loads and fatigue loads as well as the lifetime consumption, **for up to two months even without power supply**.

SHM.Tower® is **easy to retrofit**, so that a lifetime assessment is also possible at the end of the operating period of the WT. This means that essential information is available for a **lifetime extension**.

The Solution of Wölfel: **SHM.Tower®**

* Analysis of vibration velocities and accelerations according to **ISO 10816‑21/VDI 3834** for the assessment of tower and nacelle vibrations
* Determination of average / maximum **vibration velocities, vibration accelerations and deformations**; classification according to operating conditions; **frequency of events when thresholds are exceeded according to ISO 10816‑21**
* Overviews of **occurring vibration levels** and the related **lifetime consumption** (annual / monthly / daily curves)
* Lifetime calculation by means of **fatigue limit**
* **Classification of loads** according to operating conditions (configurable)
* Individual **lifetime assessment for each tower segment and for flanges**
* Connection to the **Wölfel monitoring portal MIC.Wind** for the presentation of results

Please come to our booth in South hall, No. S-E4 or meet us at the poster session where we present another key competency – **SHM.Foundation: “Robust and reliable Structural Health Monitoring solutions for foundation and tower to optimize operation and increase lifetime of offshore wind turbines”**.

Looking forward to meeting you in London!

For further details please check [www.woelfel.de/shm](https://www.woelfel.de/branchen/windenergie/cms-shm/shmtower.html) or contact us on [info@woelfel.de.](mailto:info@woelfel.de)

