



## HCE's SUPERSTRUCTURE DIVISION KEEPS GROWING

After closing out most of the work on HANSA-TOR, a new hotel of ca. 28,000 m<sup>2</sup> GFA near the central station in Münster, North Rhine-Westphalia, in autumn 2020, our team CIVIL is already involved with two further large-scale projects.

ZECH BAU SE issued an order for both Olympus Campus and PERIGON nearly simultaneously. The latter is a residential and commercial building of 34,000m<sup>2</sup> gross floor area on 11 / 17 storeys, situated in the new development „Pergo-

lvierteil“ in Hamburg-Winterhude. It is being implemented on a 6,500 m<sup>2</sup> property by DIE WOHN-KOMPANIE Nord GmbH.

HCE is involved in design for approval and the executive design.

For Olympus Campus in Hamburg, which will be the new European headquarters for Japanese company Olympus, HCE PDD is involved in the construction management and the management of the approval process.



## GRID DEVELOPMENT ACCORDING TO NEP - HCE INVOLVED IN PROJECTS

The national grid development plan (NEP) for 2035, published on January 29, analyses the grid development requirements for the energy system in Germany. It maps different scenarios which are all based on the goal of almost climate-neutral electricity generation in Germany in 2050.

Compared to the NEP 2030 (published in 2019) both cost volume and start grid has increased significantly. In the NEP 2035 the extent of the start grid amounts to a total of around 6,220km with an

estimated investment volume of around 38.7 bn. Euro. The overall estimated investment costs are 72,6 – 76.4 bn. Euros.

HCE ING provides preliminary design, design for approval and executive design for grid development projects; most recently for 33 pylons of the 380kV high voltage line Wahle-Mecklar.

HCE PDD is currently active in this sector both for project and construction management.



## Verified by HCE – WHAT ARE CAT I, CAT II AND CAT III CHECKS?

For 20 years HCE has undertaken design checks and approvals of tower and foundation constructions if wind turbine generators.

Checks by the categories CAT I, II or III are required for international projects.

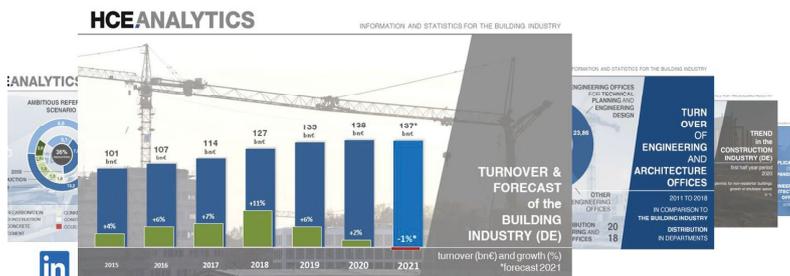
The British Standard (BS 5975:2008 – Table 1) and other international standards provide information about what these categories mean and which category is decisive for the construction of wind power plants.

According to BS 5975 a CAT I check is carried out by an engineer of the design team for simple structural constructions.

More complex designs, in particular where interactions between load assumptions and subsoil information need to be assessed, require a CAT II check, which needs to be carried out by an engineer outside the design team.

Static calculations and executive designs of foundation and tower constructions of wind turbines should always be subjected to a CAT III check.

This check needs to be carried out by an engineer from another organisation.



## NEW FORMAT: HCE ANALYTICS

In 2020 HCE Design Group started to increase their activity on the social media platform LinkedIn.

We now have started to expand our presence by an additional format: HCE ANALYTICS will inform you regularly about facts, figures, news and interesting product information about the construction industry. The main focus is on superstructures and civil engineering, as well as the energy sector with an emphasis on grid expansion and renewable energy.