
Press release

Wind of change at 2012 Hannover trade fair

German research engineers aim at increasing efficiency of offshore wind energy plants

Hannover, Germany, 18 April 2012 – From 23 to 27 April 2012 the world's most important technology event takes place at Hannover, Germany. With its lead theme 'greentelligence', this year's Hannover trade fair focuses on efficient, sustainable, and eco-friendly technologies. At the Research & Technology fair (hall 2), IPH – Institut fuer Integrierte Produktion Hannover reveals how new materials, light weight design, and data mining technology are about to increase efficiency of wind energy plants.

According to German engineers from the northwest of Hannover, there are many things to improve in offshore wind energy plants. At the 2012 Hannover trade fair, IPH showcases an offshore wind park to explain two of their latest research projects.

- Since the amount of wind increases with rotor blade altitude, future wind energy plants are expected to grow higher. Hence, the amount of wind energy harvested will increase, IPH engineers forecast. In one of their current research projects, they investigate novel construction designs and ways of combining materials to reduce the immense weight of towers.
- Nowadays hundreds of pieces of data are recorded while wind energy plants are operating. IPH engineers examine how this data can be used to increase maintenance. By using data mining algorithms, maintenance costs of wind energy plants are soon to be cut.

The offshore wind energy plants of the future are showcased in miniature size at the joint booth of research institutes and SME of Lower Saxony at hall 2 (Niedersaechsischer Gemeinschaftsstand). Focusing on 'maritime technologies', exhibitors present a broad range of sustainable technologies developed in the north of Germany. Research themes include e.g. wind energy, shipbuilding, hydraulic engineering, maritime services, and technologies protecting the environment. The joint booth is funded by the Ministry of Economy, Labor, and Transport of Lower Saxony.

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About IPH

IPH – Institut fuer Integrierte Produktion Hannover is a non-profit company providing research and development, consulting, and training in production engineering. Fields of activity include process technology, production automation, production and logistics networks, and XXL products. Based in the science park of Marienwerder in the northwest of Hannover, Germany, IPH employs 67 staff (including 29 research engineers).

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Photo material



At the 2012 Research & Technology trade fair, IPH showcases how new materials, light weight design, and data mining technology might soon increase efficiency of wind energy plants.

(Source: Deutsche Messe Hannover)



From 23 to 27 April 2012, universities and small and medium size companies present their latest developments at the Research & Technology trade fair.

(Source: Deutsche Messe Hannover)