Occupational diseases in wind turbine blade production

What is Occupational Safety and health in the wind energy sector?
This e-fact considers occupational safety and health (OSH) issues in the wind energy sector and is aimed at raising awareness and supporting good OSH in onshore and offshore facilities. It summarises the findings from EU-OSHA's report 'Occupational safety and health in the wind energy sector' (EU-OSHA, 2013a).

How to control health hazards in wind turbines?
In line with the approach of Chan and Mo (2017) to the technical reliability of wind turbines,control of health hazards should start at the WT design phase to minimise worker exposure (e.g.,minimum maintenance requirements,ergonomic interventions,noise/vibration dampeners),complemented with other engineering and administrative controls.

Are wind turbine blades toxic?
There is also a risk of exposure to toxic fumesfrom the ignition of resins and other hazardous compounds used as lubrication for WT components (EU-OSHA,2014). Wind turbine blades are manufactured from fibre-reinforced plastics using an epoxy resin system (Aneziris et al.,2016).

What are the hazards associated with a wind turbine?
Personnel transfers -- there are hazards during personnel transfers between marine vessels or helicopters and wind turbines, risk of collisions and falls into water by workers. Diving operations -- there are hazards during foundation installation, cable laying, turbine inspections and maintenance.

How do wind turbines affect the Osh of manufacturing workers?
With wind turbines increasing in size,the impact of these larger and heavier components on the OSH of manufacturing workers needs to be assessed,especially with regard to the physical load on the body(manual handling,awkward postures,etc.).

Do wind farms have occupational risks?
Hence, an improved understanding of the sector's specific occupational risks is necessary (Garcia and Bruschi, 2016, Gul et al., 2018) to ensure the health and safety of workers involved throughout the whole lifecycle of wind farms: manufacturing, installation and construction, operation and maintenance, and decommissioning (Albrechtsen, 2012).

During the last 10 years, world wind energy production has increased considerably, with the result that production now stands at 196 630 MW. 1 In 2010, China was the world"s leading wind ...

Occupational dermatoses were investigated in a factory producing rotor blades for wind turbines by an epoxy-based process. In a blinded study design, 603 workers were first ...

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The Health Hazard Evaluation Program received a request from managers at a wind turbine blade manufacturer. They were concerned about employee exposures to dust and styrene. Industrial ...

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Based on previous research, health risks in the occupational setting of wind turbines comprise in particular skin disorders due to epoxy resin in the rotor blade production, wind turbine accidents and resulting injuries and ...

The wind industry is a new and growing industry, with 1.1 million jobs globally in 2016 () ina, Germany, and USA are the leading employers ().A survey of the European ...

Occupational Diseases Related to Wind Turbine Production Sürdürülebilir Enerjinin Sürdürülemez Sa?l?k Etkileri: Rüzgar Türbini Üretim ??inde Mesleki Hastal?klar Nur ?afak ALICI ABSTRACT ...

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Epoxy-based production of wind turbine rotor blades: occupational dermatoses. Mark Pontén, Ann LU ; Carstensen, O ; Rasmussen, K ; Gruvberger, Birgitta LU ; Isaksson, Marléne LU and ...