

Hazards of wind turbine plants



Overview

What makes wind turbines work uniquely dangerous is the combination of numerous factors: height, weather, electricity, fatigue, isolation. You're sending people hundreds of feet into the air, often in unpredictable weather, surrounded by high-voltage systems and heavy rotating.

Hazards of wind turbine plants



Construction , CDC

The construction industry employs millions of U.S. workers. Construction jobs are some of the most dangerous, with falls as the leading cause of death in the construction sector. It is

Hierarchy of Controls , CDC

The hierarchy of controls identifies a preferred order of actions to best control hazardous workplace exposures. Elimination, substitution, and engineering controls are more effective because



[High-Altitude Travel and Altitude Illness , Yellow Book , CDC](#)

Learn how to prevent altitude illness among international travelers visiting high altitudes.

[Occupational health hazards and risks in the wind industry](#)

In this paper, we performed a generic review of scientific and industry literature on online scientific databases and search engines to identify the extent to which occupational health hazards



[Adverse health effects of industrial wind turbines](#)

Health Canada provides advice on the health effect of noise and low-frequency electric and

magnetic fields from proposed wind turbine projects, particularly for environmental assessments done under

Wind Turbines

Before a wind turbine can be installed, there are requirements that must be followed including zoning, public hearings, building permits, electrical permits, site suitability, environmental impact, noise



[Practical Strategies to Manage AI Hazards in the Workplace](#)

Understanding workplace AI hazards This summer, The Synergist 's June/July 2025 issue featured NIOSH-funded research in the article "You vs. the Robot Factory: Some Principles for

[An Urgent Call to Address Work-related Psychosocial Hazards and](#)

Summary: Work-related psychosocial hazards are on the verge of surpassing many other occupational hazards in terms of their contribution to poor health, injury, disability, and costs. A new



[Wind Turbine Safety: Everything You Need to Know](#)

Workers must face great heights, for example, as well as high voltages and potentially dangerous weather conditions, all of which can result in

CCOHS: Hazards

Hazards There are many types of hazards -

chemical, ergonomic, physical, and psychosocial, to name a few - which can cause harm or adverse effects in the workplace. Get



[Wind Turbines & Health: Risks, Noise & Community Impact](#)

Potential health effects of wind turbines, including noise and reported symptoms. Understand the concerns & findings surrounding health risks.

[What Health And Safety Concerns Are Associated With](#)

Wind energy workers face numerous hazards throughout the lifecycle of wind turbines, from manufacturing to installation, operation, and maintenance.



Chlorine , Chemical Emergencies , CDC

Chlorine can explode or create explosive products with many common substances. They include: acetylene, ether, turpentine, ammonia, fuel gas, hydrogen, and finely divided metals.

Safety

Fortunately, wind turbines have an excellent record of safety, and a significant body of research indicates that there is no direct relationship between human exposure to wind turbines and human



[Respirators that Protect Against Chemical.](#)



[Biological, Radiological](#)

NIOSH approves respirators that protect against chemical, biological, radiological, and nuclear (CBRN) hazards. Respirators with CBRN protections are only permitted for use in specific

[Mastering Wind Turbine Safety: Rules, Risks](#)

Ultimate guide to wind turbine safety. Learn how to manage critical hazards, set up correct safety rules, and digitize your safety inspections.



CCOHS: Hazard and Risk

Identify hazards and risk factors that have the potential to cause harm (hazard identification). Analyze and evaluate the risk associated with that hazard (risk analysis, and risk

[OCCUPATIONAL SAFETY AND HEALTH IN THE WIND](#)

It considers the activities associated with wind energy and identifies specific hazards to workers across the entire life cycle of wind turbines, from the design and manufacturing of parts, through their



[Pocket Guide to Chemical Hazards , NIOSH , CDC](#)

The NIOSH Pocket Guide to Chemical Hazards (NPG) informs workers, employers, and occupational health professionals about workplace chemicals and their hazards. The NPG gives general industrial

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