

# Wind power, meet the power of collaboration

Customized solutions, built for certainty



# Mobil™ wind turbine lubrication

Supporting your experts



# Solutions for an evolving industry

Your experts are playing an integral role in driving the energy transition, and we know it's no breeze. At Mobil™, we deliver lubricants designed for optimum performance, no matter the conditions. We put our science, products and expertise at your service — so that you can take on your toughest challenges with confidence.



## Formulation Expertise

For decades, we've maintained our focus on the molecule across the entire wind energy value chain, delivering the solutions required by the industry today and tomorrow.



## Complete Product Range

Our comprehensive range of Mobil™-branded products is formulated to meet OEM requirements to help protect critical components and enhance wind turbine availability and lifetime\*.



## Customized Solutions

Whatever your goals, we apply our molecular and application expertise, local presence, and global scale to deliver bespoke Lubrication-as-a-Service solutions.

**APQP@Wind**<sup>®</sup>  
Company Member 2023

\* Results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.

# Advanced Products

To help your experts meet evolving operational challenges, our engineers work closely with leading wind turbine, gearbox, and bearing manufacturers to ensure everything works precisely the way it's designed. That's why Mobil™ lubricants are found in 1 out of 4 wind turbines worldwide\*.

Application	Product	Product features and potential benefits*
<b>Main gearbox</b>	Mobil SHC™ Gear 320 WT Mobil SHC™ Gear 320 WindPower Mobil SHC™ Gear Series Mobilgear SHC™ XMP 320 (NB product to be withdrawn)	<ul style="list-style-type: none"> <li>▪ Superb wear and corrosion protection</li> <li>▪ Robust anti-foam protection</li> <li>▪ Stable during water contamination</li> <li>▪ Helps to optimize equipment productivity</li> <li>▪ Helps to reduce unscheduled downtime and maintenance</li> <li>▪ Helps to prolong gear, bearing and oil life</li> </ul>
<b>Gearbox Flushing</b>	Mobil™ Flush 320	<ul style="list-style-type: none"> <li>▪ Designed for flushing and removing contaminants</li> <li>▪ Ensuring long term performance of Mobil SHC™ Gear 320 WT and Mobil SHC™ Gear 320 WindPower</li> <li>▪ Use with any incumbent wind turbine gear oil</li> </ul>
<b>Main, pitch, yaw and generator bearings</b>	Mobil SHC™ Grease 460 WT Mobil SHC™ Grease 461 WT Mobil SHC™ Grease 681 WT Mobil SHC™ Grease 68 IPC Mobilith SHC™ 100 Mobilith SHC™ 007	<ul style="list-style-type: none"> <li>▪ Flexible component placement</li> <li>▪ Long regreasing interval helps control service cost</li> <li>▪ Exceptional high- and low-temperature performance</li> <li>▪ Excellent extreme pressure and antiwear properties</li> <li>▪ Low starting and running torque</li> <li>▪ Resistant to water contamination</li> </ul>
<b>Hydraulic system</b>	Mobil SHC™ 500 Series Mobil DTE 10 Excel™ Series	<ul style="list-style-type: none"> <li>▪ Ideal for high-pressure and tight-clearance systems</li> <li>▪ Helps to extend oil, filter and component life</li> <li>▪ Powerful antiwear protection</li> <li>▪ Highly shear stable</li> <li>▪ Wide temperature range</li> <li>▪ Resists deposit formation</li> </ul>
<b>Ancillary gearboxes</b>	Mobil SHC™ 600 Series	<ul style="list-style-type: none"> <li>▪ Promotes operational reliability and energy efficiency**</li> <li>▪ Helps to prolong oil life</li> <li>▪ High- and low-temperature capability</li> <li>▪ Resists oxidation, sludging and wear</li> <li>▪ Low traction coefficient</li> </ul>
<b>Open gear</b>	Mobilnac™ 375 NC  Mobilgear™ OGL 007 Mobilgear™ OGL 061	<ul style="list-style-type: none"> <li>▪ Excellent wear protection</li> <li>▪ Diluent</li> <li>▪ Low component replacement and maintenance costs</li> <li>▪ High viscosity</li> <li>▪ Helps protecting gear teeth and machine elements</li> <li>▪ Excellent wear protection</li> <li>▪ Non-diluent</li> <li>▪ Advanced, semifluid lubricant</li> <li>▪ Extreme pressure additives and graphite for heavy loads</li> </ul>
<b>Top treat solutions for main gearbox</b>	Mobil Xtra™ YMP WT Mobil Xtra™ Defoam WT Mobil Xtra™ Viscosity WT Mobil Xtra™ EP WT	<ul style="list-style-type: none"> <li>▪ Expert solutions helping customers to continue to protect their investment whilst helping to avoid challenging oil change outs.</li> <li>▪ Contact Mobil representative for further details and guidance on product usage</li> </ul>

\* Lubricants for Wind Turbines – Global Market Analysis and Opportunities 2022 by Kline

\*\* The energy efficiency design is a trademark of Exxon Mobil Corporation. Energy efficiency relates solely to the fluid performance when compared to conventional (mineral) reference oils of the same viscosity grade in circulating and gear applications. The technology used allows up to 3.6 percent efficiency compared to the reference when tested in a worm gearbox under controlled conditions. Efficiency improvements will vary based on operating conditions and application.

# Mobil™ services

To achieve peak productivity, count on Mobil™ services — a full suite of solutions designed to help you reduce unscheduled downtime, maintenance costs and equipment issues. These services include Wind Turbine Gearbox Flush and Fill, as well as startup and cleanliness guidance, developed specifically for the wind industry.



## Application expertise

Through Mobil™ services, our world-class engineers deliver invaluable hands-on direction, using unsurpassed application expertise to help you achieve your goals in terms of safety, environmental care and productivity.



## Lubricant analysis

To help you monitor lubricant and equipment condition, and avoid costly breakdowns and repairs, we offer Mobil™ Lubricant Analysis, with a program tailored to wind turbine applications. We also collaborate with specialist partners on sensor solutions to deliver real time insights.

# Advancing Productivity™ for wind power

A successful wind operation today is measured by more than productivity alone. You also have safety goals to achieve, and you're making efforts to reduce your environmental footprint. Our synthetic lubricants and service programs are designed to help you in these three critical areas, which we call Advancing Productivity.

## Safety

Long oil and equipment life, as well as powerful wear protection, can help reduce maintenance and the risks associated with employee equipment interaction, always a concern on wind turbines, especially in remote and challenging areas.

## Environmental Care\*

Mobil™ Lubricant Analysis coupled with long life lubricants can help enhance oil service intervals, which helps reduce oil disposal.

## Productivity

Powerful lubricant performance, even at low and high temperatures, can help enhance power generation by promoting wind turbine availability through robust wear, rust and corrosion resistance.



**Advancing  
Productivity™**

\*Visit [mobil.eu](http://mobil.eu) to learn how certain Mobil-branded lubricants may provide benefits to help reduce environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

# High performance lubrication for wind turbines

The difference is in the detail



## Pitch Bearing

Mobil SHC™ Grease 460 WT  
Mobil SHC™ Grease 461 WT  
Mobil SHC™ Grease 68 IPC



## Main Shaft Bearing

Mobil SHC™ Grease 460 WT  
Mobil SHC™ Grease 461 WT  
Mobil SHC™ Grease 681 WT  
Mobilith SHC 007



## Gearbox

Mobil SHC™ Gear 320 WT  
Mobil SHC™ Gear 320 WindPower



Mobil SHC™ XMP 320

## Top treat solutions

Mobil Xtra™ WT Series

## Flushing Oil

Mobil™ Flush 320

*Use for oil conversion only*

## Generator

Mobilith SHC™ 100

## Pitch Gear

Mobil SHC™ Gear Series  
Mobil SHC™ 600 Series



## Yaw Bearing

Mobil SHC™ Grease 460 WT  
Mobil SHC™ Grease 461 WT  
Mobil SHC™ Grease 68 IPC

## Hydraulic System

Mobil SHC™ 500 Series  
Mobil DTE™ 10 Excel Series

## Open Gear

Mobilgear™ OGL 007/461  
Mobiltac™ 375 NC



## Yaw Gear

Mobil SHC™ Gear Series  
Mobil SHC™ 600 Series



[mobil.eu/wind](https://mobil.eu/wind)

Note : Please consult the equipment builder manual for specific lubricant recommendations.



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**Health and Safety**  
Based on available information, these products are not expected to produce adverse effects on health when used for the applications referred to above and the recommendations provided in the Material Safety Data Sheets (MSDSs) are followed. MSDSs are available upon request through your sales contact office or via the Internet. These products should not be used for purposes other than the applications referred to above. If disposing of used product, take care to protect the environment.