

# PHOTOVOLTAIC - WIND POWER



Environmental protection is one of the most important issues in the world today. It is also driving the rapid development of new technologies for exploiting sources of clean and renewable energy. As a socially responsible company, Varvel pays particular attention to these matters and has developed a range of solutions that combine high technology with low environmental impact.

The principal need of manufacturers in the renewable energy sector is to optimize the ratio between investment costs and the energy produced by completed installations. The excellent quality of Varvel gearboxes minimizes the efficiency losses inevitably associated with the energy dissipation of conversion process.

Varvel products therefore see regular use in solar tracking systems for photovoltaic panels and in yaw control systems for wind turbines, both as original equipment and as upgrades to improve efficiency.

Varvel gearboxes are characterized by excellent reliability and reduced maintenance needs. Resistance to the harshest climates and the widest temperature excursions allow them to find applications even in the most extreme conditions. Silent running, reliable and compact, Varvel products are easy to integrate even in complex energy conversion systems.

In keeping with company policy on environmental protection and support for industry standards, Varvel's Environmental Management System was certified to EN ISO 14001 standard in 2001.

- UNI EN ISO 9001:2008
- UNI EN ISO 14001:2004
- BS OHSAS 18001:2007



- EC DIRECTIVE 2014/34/EU (ATEX)





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## PRODUCTION

- Solar panel tracking
- Wind turbine yaw control

## PACKAGING

## POWER HANDLING

## STORAGE



## BUILDING MANAGEMENT

- Wind turbine maintenance

## RD

- In-line helical gearbox two and three reduction stages
- Footed and flanged configurations
- Solid output shafts of various diameters
- Output flanges of various diameters
- Life-time lubricant performance
- ATEX certification on demand



## RS - RT

- Worm gearbox
- Two housing configurations
- Wide reduction ratio range
- Vast accessory availability
- Hollow output shafts of various diameters
- Life-time lubricant performance
- ATEX certification on demand



## RO2

- Two-stage bevel/helical gearboxes, two reduction stages
- Multi-purpose housing and flanged configuration
- Hollow output shafts of various diameters
- Output flanges of various diameters



## RN - RO - RV

- Parallel shaft and bevel/helical gearboxes, two and three reduction stages
- Multi-purpose housing and flanged configuration
- Hollow output shafts of various diameters
- Output flanges of various diameters
- Life-time lubricant performance
- ATEX certification on demand



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