

SUN & WIND ENERGY

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P	0294
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PHOTOVOLTAICS

Inverters:
electrifying
developments

WIND ENERGY

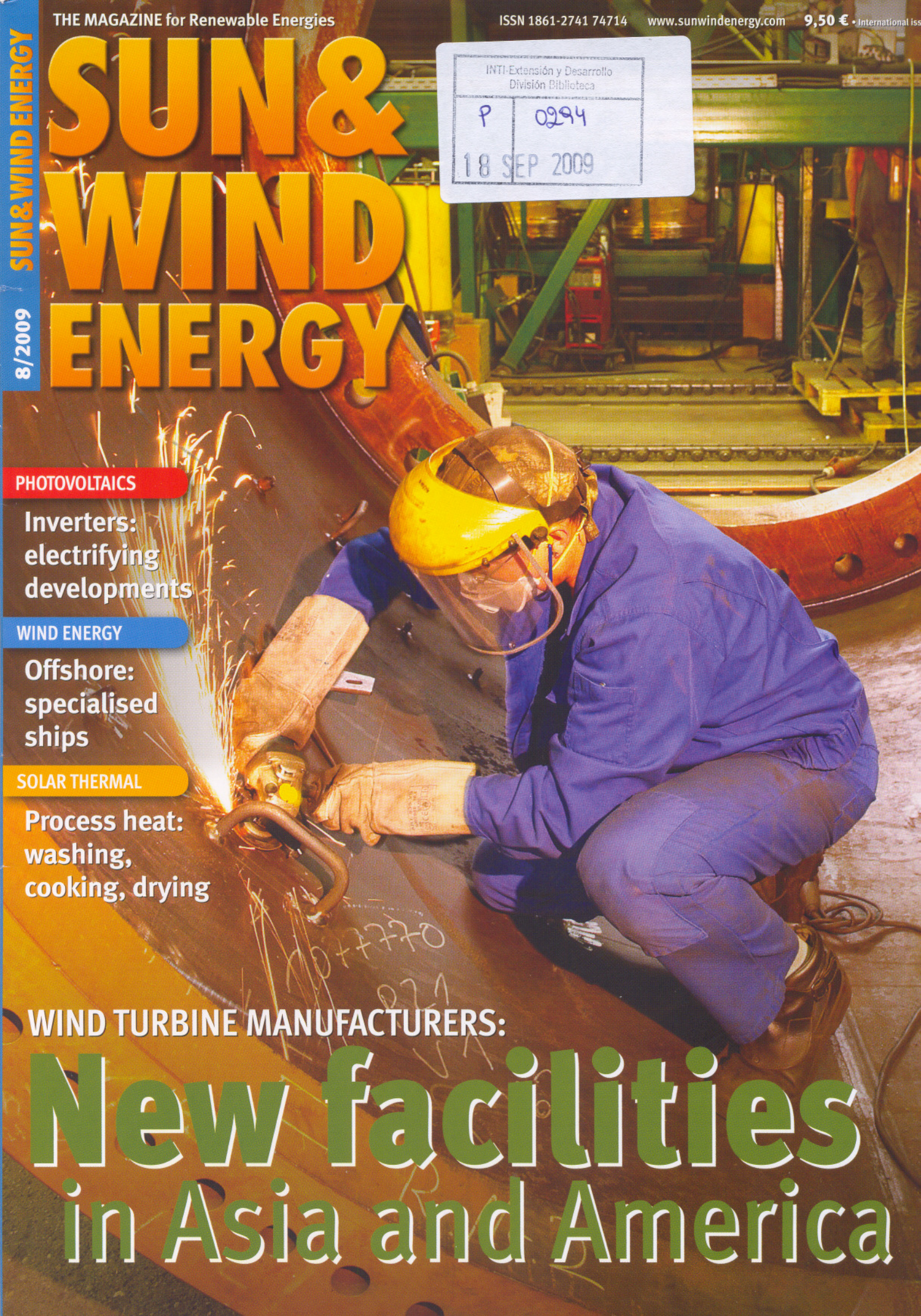
Offshore:
specialised
ships

SOLAR THERMAL

Process heat:
washing,
cooking, drying

WIND TURBINE MANUFACTURERS:

New facilities in Asia and America



Module manufacturers: competing for market shares

Manufacturers of crystalline silicon modules are trying to score with customers in terms of output and efficiency, quality and warranties, or with new visual features. The reason is the module prices that have never been so low. Manufacturers of thin-film modules are suffering even more from this situation.

Pages 70, 76



Photo: Mirroxx GmbH

Medium temperature collectors: concentrated power

Parabolic troughs or Fresnel? The market for commercial medium temperature collectors for solar process heat is slowly gearing up.

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World map of turbine manufacturers: going global

Next to the core markets around Europe, the wind energy sector is expanding in particular in the US and the Asian markets where the manufacturers are launching new facilities. S&WE gives an overview of the current production landscape.

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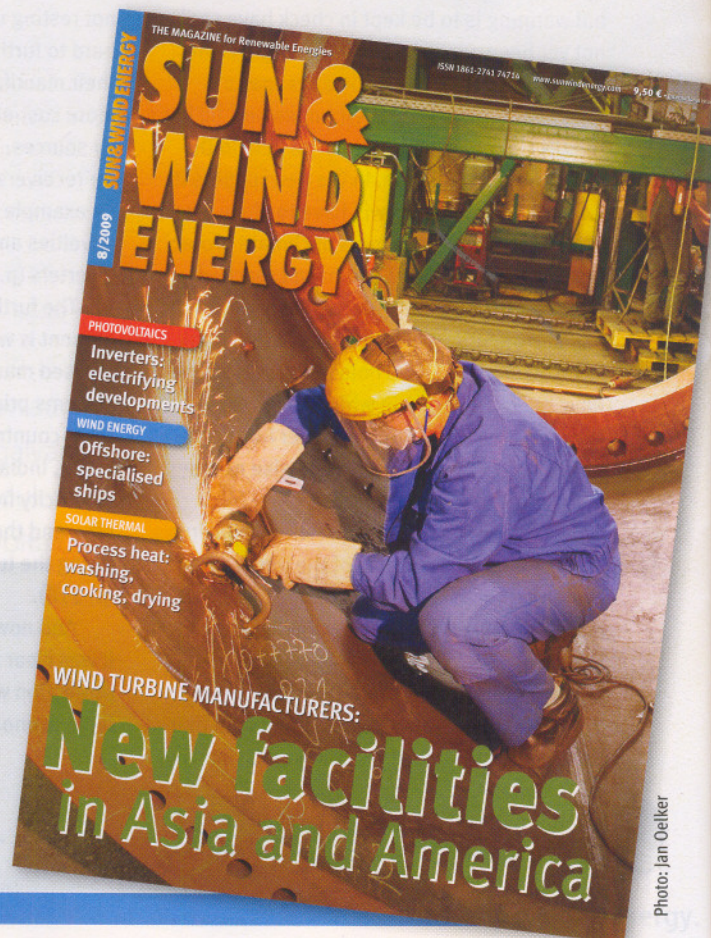


Photo: Jan Oelker

Indonesia: seizing opportunities in renewables

In Indonesia, renewable energies are mostly found in rural regions. Micro wind turbines and solar home systems are widespread solutions. However, a market for on-grid PV systems is still missing. Biomass is now seen as a possible way out of the rising oil imports.

Page 36



Photo: Arif Yudianto

Biomass: heating in the winter, cooling in the summer

Sorption coolers can prevent the summer lull in demand for biomass heating providers. Often when heating is unnecessary, the demand for cooling is even more important.

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Photo: Otto Bock

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Photo: Schott Solar

One factory for modules and receivers

Schott Solar opened the first factory in the world for the manufacturing of both solar thermal receivers and photovoltaic modules at a single location.

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