



THE KEY TO  
SOLAR POWER





**PV Crystalox Solar is a leading supplier to the world's major photovoltaic companies, producing multicrystalline silicon wafers for use in solar electricity generation systems.**

Our customers, the world's leading solar cell producers, incorporate these wafers into solar modules to harness the clean, silent and renewable power from the sun.

PV Crystalox Solar plays a central role in making solar power cost competitive with conventional hydrocarbon power generation and continues to seek to drive down the cost of production whilst increasing solar cell efficiencies.



Visit our website  
[www.pvcystalox.com](http://www.pvcystalox.com)

**PV CRYSTALOX SOLAR PLC**

Abingdon, UK

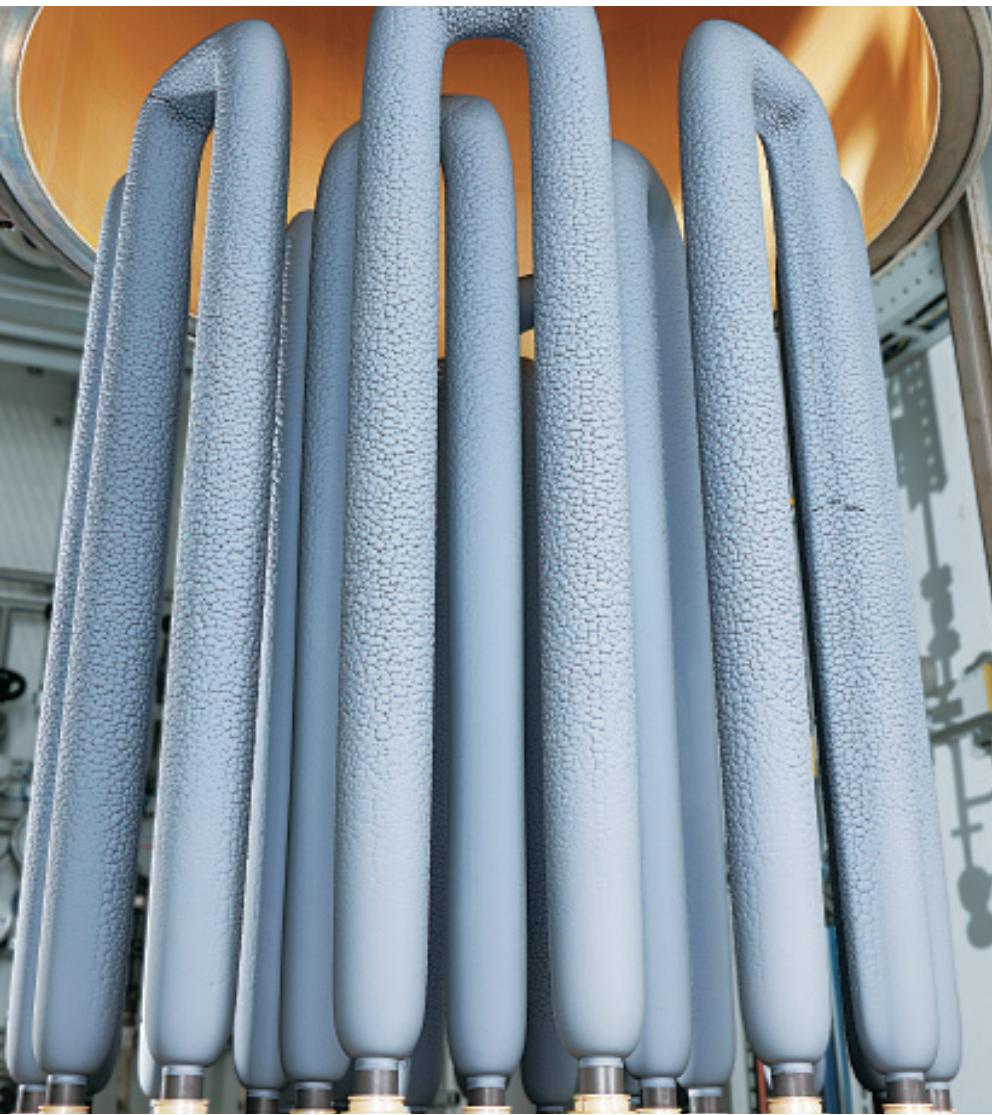
PV Crystalox Solar Silicon GmbH  
Bitterfeld, Germany

Crystalox Ltd  
Abingdon, UK

PV Crystalox Japan KK  
Tokyo, Japan

PV Silicon GmbH  
Erfurt, Germany

# Solar grade silicon production



## Assured quality and enhanced capabilities.

PV Crystalox Solar operates its in-house polysilicon production plant in Bitterfeld – the heart of Germany's solar valley. The facility is unique in Europe, being the first to use modifications to the established Siemens process, where operations have been specified and optimised for the exclusive production of solar grade polysilicon.

In early 2011 the Bitterfeld plant successfully achieved its nameplate capacity of 1800 MT per annum production rate and provides the Group with a flexible polysilicon supply and competitive advantages. Already supplying a significant proportion of the Company's polysilicon requirements, the plant offers up to three-fold future expansion capabilities to be realised if required.

All output from the Bitterfeld plant is used directly by PV Crystalox Solar for the manufacture of high-quality multicrystalline silicon ingots at ingot production facilities based in the UK.



**1800 MT**  
Bitterfeld polysilicon capacity

# Ingot and block production

## Leading through experience and continual innovation.

Since 1990 the Company has designed and manufactured production systems for the growth of multicrystalline silicon ingots. The Group's ingot production facilities are based in Oxfordshire, UK, where four production plants are now in operation.

PV Crystaloxy Solar pioneered the scale-up of directional solidification technology for the industrial production of multicrystalline silicon and this extensive experience, together with continual innovation and development, ensures its leadership in the manufacture of superior quality silicon ingots and high performance multicrystalline wafers.



**20 years**  
Manufacturing experience in  
the PV industry

# Wafer production

**An established supplier of multicrystalline wafers to the world's leading PV companies.**

PV Crystaloxy Solar supplies multicrystalline silicon wafers to the major PV companies in Europe and Asia from its wafering facilities in Germany and Japan. From these strategic locations, PV Crystaloxy Solar collaborates closely with its customers to ensure standards are maintained and that any technological developments are passed on quickly.

PV Crystaloxy Solar is committed to retaining its place as a key player in the solar wafer industry through high-quality wafer production and a clear focus on its customers' requirements.

Looking towards the future, the Company's emphasis on innovation and co-operation, through strong, long-term partnerships, will ensure that PV Crystaloxy Solar continues to be recognised as one of the world's leading wafer suppliers.



**750 MW**  
2012 production capacity



Visit our website  
[www.pvcrytalox.com](http://www.pvcrytalox.com)



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