

August 2015:

Did you know that we can simulate the sun?



Pulsed Xenon lamps emit a light that is very similar to the sun's. Why do we need that?

In photovoltaics, solar cells and modules have to be tested to check production quality, characterize the cells, and assign them to performance categories. Only optimally aligned cells are then united in a single module. To achieve this objective, manufacturers need reliable and reproducible light sources that replicate the solar spectrum as closely as possible. [Xenon flash lamps](#) from small and circular to linear and up to two meters long but also [UV metal halide lamps](#) are ideal specialty lamps for the job. The manufacture of solar cells often also uses [QRC® infrared emitters with nano reflectors](#) as well as vacuum UV lamps, which carry out processes in a vacuum or under high-temperature conditions in a particularly stable and energy efficient manner.

Debbie Playle, Managing Director of Heraeus Noblelight Ltd. in Cambridge:

"In photovoltaics, many components contribute to improving solar cells. The spectrum of our pulsed xenon lamps is very similar to the sun's. That is a crucial component in the production of solar cells. Accurate testing and sorting results in uniform, highly efficient solar panels. We are proud to contribute to an industry that conserves fossil fuels and provides a truly clean energy future!"

Watch our video about the [arc and flash lamp production!](#)

Further questions related to the "International Year of the Light"?

Write us an e-mail to hng-presse@heraeus.com