

pvSpot 开启光伏系统性能评估新时代

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GeoModel Solar 面向光伏发电厂推出了新一代性能评估工具 SolarGIS pvSpot。

pvSpot 是一种独特的解决方案，借助于卫星太阳能建模和电力模拟的最新进展，可用于监测欧洲和南非任何一家光伏（PV）发电厂出现的性能不佳情况。

GeoModel Solar 董事总经理马塞尔-苏里（Marcel Suri）表示：“太阳能行业需要利用独立的数据和方法来对现有光伏性能进行清晰的评估。由于 pvSpot 利用了经验证的高分辨率卫星数据和公认的运算法则，因此性能评估的独立性和质量能够得到保证。虽然 pvSpot 可作为辅助设备用于受到严密监控的公用光伏项目，但它实际上是中小型光伏装置的唯一可靠解决方案。”

将实际发电量和预测发电量进行对比是性能好坏的最好指标。在评估过程中，预测发电量时必须进行准确计算，但这只有在实时获取了具体地区的日照强度信息后才可行。

到目前为止，从低价传感器或周边气象站获取信息已经成为了典型做法，而这些方法使日照强度的精准度大打折扣。安装高品质的日射强度表及相关硬件是比较好的解决方案，但仍存在挑战。由于数据丢失或不一致，传感器被遮住或表面不清洁，常使地面测量出现误差，而且还需要进行严格的质量检查。

RENERGIE Solárny Park Holding SK a.s 首席执行官 Klaus Fuchs 表示：“我们决定利用卫星数据定期对我们旗下的光伏发电厂性能进行调和、有效和独立的性能评估。”

卫星监测日照强度是投资者和贷款者的可靠选择。pvSpot 采用了市场公认为最准确的太阳能数据库 SolarGIS 的数据。pvSpot 在法兰克福举行的欧洲光伏太阳能展会（EUPVSEC）上进行了展示，现在可登陆网站 <http://solargis.info/> 获取此产品信息。SolarGIS 平台最近在上海国际太阳能展会上被评为光伏领域十大最先进技术之一。

GeoModel Solar 简介

GeoModel Solar 总部位于斯洛伐克，开发并经营 SolarGIS 数据库和在线系统。该公司致力于通过提供银行可接受的数据和软件服务，支持太阳能行业项目的可行性、设计优化、监测和预测，从而提高太阳能项目开发 and 经营的效率并降低不确定性。垂询详情，请访问：<http://geomodelsolar.eu>。

消息来源 GeoModel Solar

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English transcript:

New Era in Performance Assessment of Photovoltaic Systems Starts With pvSpot

BRATISLAVA, Slovakia, October 3, 2012/PRNewswire/ -- GeoModel Solar has launched SolarGIS pvSpot, a new generation performance assessment tool for photovoltaic power plants.

pvSpot is a unique solution that can be used to detect underperformance of any photovoltaic (PV) power plant in Europe and South Africa. It is based on the latest advancements in satellite-based solar modelling and electricity simulation.

"Solar industry needs independent data and approaches for transparent evaluation of existing PV capacities. Because pvSpot uses high-resolution validated satellite data and proven algorithms, independence and quality of performance assessment is guaranteed. While pvSpot can be used as a complementary tool for well-monitored utility scale PV projects, it is practically the only reliable solution for medium-size and small PV installations," said Marcel Suri, managing director of GeoModel Solar.

Comparison of actual and expected energy production is the best indicator of performance. For evaluation, expected production must be calculated precisely. This is only possible if site-specific solar radiation information is available in real time.

Until now, a typical practice has been to acquire data from cheap sensors or nearby meteo stations. Such approaches compromise on accuracy of solar radiation. Installing high-quality pyranometers and related hardware is a better solution, but challenges still remain. Ground measurements are often subject to errors due to missing or inconsistent data, shaded or unclean sensors, and they require rigorous quality checking.

"We have decided to implement satellite-based data, to achieve harmonised, validated and independent performance evaluation of our portfolio of PV power plants on regular basis," said Klaus Fuchs, CEO from RENERGIE Solárny Park Holding SK a.s.

Satellite-based solar radiation is a reliable option for investors and lenders. pvSpot uses data from SolarGIS, recognised as the most accurate solar resource database on the market. pvSpot has been showcased at EUPVSEC exhibition in Frankfurt and it is accessible at <http://solargis.info/>. The SolarGIS platform was recently acknowledged at SNEC exhibition in Shanghai as one of ten most advanced technologies in PV.

About GeoModel Solar

GeoModel Solar is a Slovakia-based developer and operator of the SolarGIS database and online system. The company aims to increase efficiency and reduce uncertainty in developing and operation of solar energy projects by delivering bankable data and software services supporting the industry in prefeasibility, design optimization, monitoring and forecast of solar power. For more information, visit <http://geomodelsolar.eu>

Source: GeoModel Solar