



**VeraSol**

# **Quality Assurance for Modern Off-Grid Solar Solutions: Q&A With VeraSol**

## **现代离网太阳能产品质量认证体系 VeraSol 认证问答**

January 21, 2021

# Moderators & Speakers 主持人与讲者



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Lighting Global

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VeraSol / CLASP

Speaker  
讲者



**Leo Blyth**  
Lighting Global

Speaker  
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## Agenda



- Introduction to VeraSol
  - Quality assurance services
  - Grow Your Business with VeraSol
  - Resources
  - Contact us
  - Q&A
- VeraSol项目简介
  - VeraSol的质量保证服务
  - 与VeraSol一起发展您的业务
  - 资源
  - 与我们联系
  - Q&A 问答

# Introduction to VeraSol

## VeraSol项目简介

# What is VeraSol? | 什么是VeraSol ?



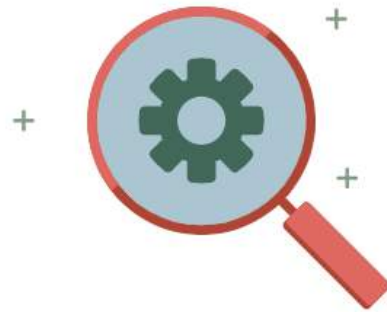
**VeraSol supports the growing global market for modern off-grid solar solutions with a comprehensive suite of quality assurance services.**

VeraSol用全面的质量保证服务支持日益壮大的现代离网太阳能全球市场。我们主要的服务项目帮助市场相关方执行和推广产品质量保证的各个面向。



**Enable Smarter Decisions**

做出明智的决策



**Reduce Risk**

降低风险



**Increase Impact**

提升影响力



**Improve Efficiency**

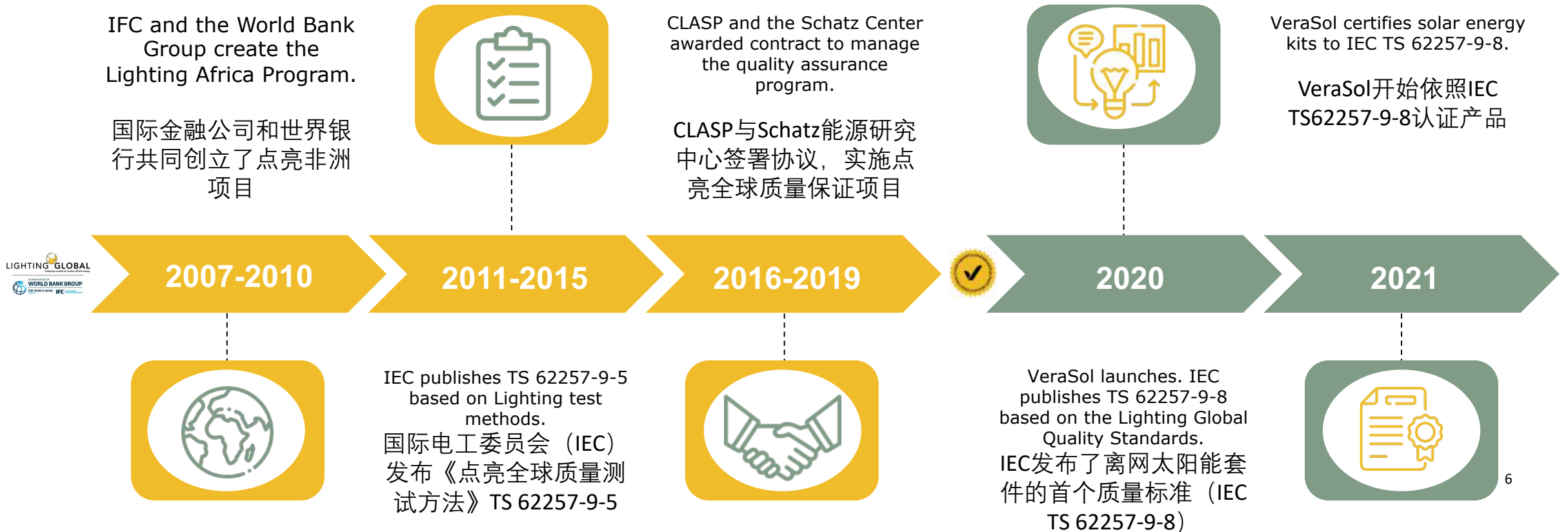
提高效率

# Evolution | 质量保证项目的进化史



**Launched in 2020, VeraSol is an evolution and continuation of Lighting Global Quality Assurance.**

VeraSol项目启动于2020年，是建立在点亮全球所奠定的坚实基础上的质量保证体系进阶版。



## Leadership | 运营领导层



**VeraSol is managed by CLASP in partnership with the Schatz Energy Research Center.**

VeraSol由CLASP电器能效组织与其合作伙伴洪堡州立大学Schatz能源研究中心共同管理。



**CLASP** improves the energy and environmental impacts of the appliances we use every day, accelerating our transition to a more sustainable world.

**CLASP** 旨在降低日常使用的电器对能源和环境造成的负面影响，加速全球可持续发展转型。



**The Schatz Energy Research Center** promotes the use of clean and renewable energy. The center accomplishes this by: designing, demonstrating, and deploying clean and renewable energy technologies; performing lab and field research; and more.

**The Schatz** 能源研究中心的目标是促进清洁和可再生能源的利用，并通过设计、示范和部署清洁和可再生能源技术，开展实验室和实地研究，向公众宣传清洁和可再生能源。

# Partners | 合作伙伴



## TEST LABS | 检测机构

VeraSol管理一个全球性的检测机构网络，进行评估并提供高质量的测试数据。



## INDUSTRY | 产业团体

VeraSol与制造商和分销商合作，协助企业识别满足客户需求和期望的产品



## DEVELOPMENT PROGRAMS | 发展援助机构

VeraSol帮助发展援助机构和项目与生产优质产品的企业对接



## GOVERNMENTS | 政府

VeraSol协助政府采用质量保证框架作为政策制定的基础



We need your help to reach our goal | 我们需要您的合作



More growth is needed to achieve universal energy access.

离网太阳能市场需要持续增长使全世界都能使用现代化的能源服务。



**789 million**

People still lack access to modern energy services.

**7.89亿**

人口仍然无法获得现代能源服务



**Quality Concerns**

The majority of products sold are not certified. These products may malfunction more frequently, damaging consumer trust.

**质量问题**

许多在市场上的产品未经认证。这些产品可能会更频繁地发生故障，从而损害消费者的信任

With your support...  
透过您的帮助...



**A Competitive Global Market**  
高竞争力的全球市场

Delivering high-performing products to consumers and unlocking the full range of energy access benefits  
提供给消费者最高性能的产品，使消费者都能享受到所有的能源获取带来的好处



Test Methods

## Test Methods 测试方法

VeraSol开发并维护测试方法，在整个离网市场推进产品质量评估，并生成重要数据。



Quality Standards

## Quality Standards 质量标准

VeraSol使用并维持一系列标准来评估离网太阳能产品的质量和耐用性。



Solar Energy Kit Certification

## Certification 质量认证

VeraSol对微型太阳能产品和太阳能家用系统进行认证，以确认产品达到国际公认的产品质量标准、耐用性标准和广告真实性标准。



Appliance Testing

## Appliance Testing 电器测试

VeraSol测试离网电器和生产用太阳能设备，生成规格统一、可参照对比的性能数据。



Lab Capacity Building

## Test Lab Capacity Building 检测机构能力建设

VeraSol对检测机构进行培训并合作，以建立全球离网太阳能行业测试网络。



Technical Assistance

## Technical Assistance 技术支持

VeraSol支持政府和大型机构开发、采用和实施离网太阳能产品的标准和政策。



Product Data Sharing

## Product Data Sharing 产品数据共享

Verasol 产品数据库提供免费搜索和比较数百种产品，快速识别高质量的离网太阳能产品。



Stakeholder Engagement

## Stakeholder Engagement 利益相关者参与

VeraSol 向市场传达产品质量的细节和重要性。

# Benefits to working with VeraSol | 与VeraSol合作的优势



Assistance with understanding the standards for off-grid solar products and testing process.

使您的企业更了解质量标准跟测试的过程



Receive support from VeraSol to bring products into compliance with quality standards.

帮助您的产品符合质量标准



Compare products to competitors' products through benchmarking services.

了解您的产品与竞争对手产品的比较情况



Signal commitment to quality and improve your exposure to interested buyers

表明您的企业对质量承诺的注重并引起专业买家的注意



Gain entry to markets where certification shows compliance with national standards.

使您的产品获得进入市场的资格



Meet market development program requirements & access to allied services with partners (World Bank, IFC, GOGLA, etc.),

获得资格参与政府和开发机构资助的项目

## Certification Services | 质量认证服务



Today there are currently over 190 solar energy kits that are certified by VeraSol based on testing to IEC 62257-9-5.

如今，有190多组太阳能套件已经过根据IEC 62257-9-5方法的测试并获得VeraSol的认证。



Pico-solar products: **95**



Solar home system kits: **53**

# Appliance Testing | 电器测试



Televisions: **148**



Fans: **122**



Refrigerators: **70**



Solar Water Pumps: **30**

**Grow Your Business with  
VeraSol**

**与VeraSol一起发展您的业务**

# VeraSol is the gateway to Lighting Global



Lighting Global is the **World Bank Group's** platform to **support sustainable growth** of the **international off-grid solar market** as a means of rapidly increasing energy access to the 789 million people without grid electricity.

Together with our affiliated country and regional programs, we support the development of sustainable markets that deliver high-quality off-grid energy access solutions by working on policies, Quality standards, and on the operating and overall Off Grid Solar business environment.



Having a product that meets the standards based on testing to IEC/TS 62257-9-5 is the entry point for joining the program.

# Opportunities | Rwanda Rural Electrification Fund Project



In a move to increase Solar Home System (SHS) installations and electrification of households in rural areas of Rwanda, the Renewable Energy Fund (REF) project of the Development Bank of Rwanda Plc. has launched a Results-based Financing (RBF) subsidy.

The Subsidy is designed to address the **affordability** of SHS to rural households **through the reduction of prices for the systems** at varying amounts allocated for different categories of products and aiming to reach up to the lowest income population in Rwanda.

The **USD 15 million subsidy window is funded by the World Bank** and is expected to trigger at least 182,927 off-grid connections.

**Companies need to sell products that meet VeraSol Quality Standards.**

- National Electrification Plan

**1.3 million**

Households to be off grid

- Share of customers targeted to be electrified through Stand alone Solar

**21%**

Households to be powered through SHS



# Opportunities | Madagascar Off Grid Market Development Fund



## VeraSol

- The Off-Grid Market Development Fund (OMDF) aims to develop a sustainable off-grid solar market in Madagascar by mobilizing the private sector.
- A Results-Based Financing Facility and loans will be offered to companies and financial institutions involved in the distribution of pico solar products and Solar Home Systems in Madagascar.
- The **fund is financed by the World Bank** and is **capitalized with USD 40 million**.
- Bamboo Capital Partners has been appointed as fund manager in partnership with Société Générale Madagasikara. The project is led by the Ministry of Energy and Hydrocarbons.
- **Companies need to sell products that meet VeraSol Quality Standards.**



Monday | November 2nd, 2020

Dear Associate,

We would like to bring to your attention the following **RBF and credit line**

Who: **Bamboo Capital Partners (World Bank funded project)**

Where: **Madagascar**

Deadline: **8 Dec 2021 (another window might open in 2021)**

The Off-Grid Market Development Fund (OMDF) aims to develop a sustainable off-grid solar market in Madagascar by mobilizing the private sector.

A Results-Based Financing Facility and loans will be offered to companies and financial institutions involved in the distribution of pico solar products and Solar Home Systems in Madagascar.

The fund is financed by the World Bank and is capitalized with USD 40 million. Bamboo Capital Partners has been appointed as fund manager in partnership with Société Générale Madagasikara. The project is led by the Ministry of Energy and Hydrocarbons.

OMDF will organize a **virtual conference** to present the programme to you and answer your questions on Wednesday 11 November 2020 at 16:00, Madagascar time. The conference will be in French only. Please contact them by email to know more.

Companies need to sell products that meet Lighting Global (VeraSol) Quality Standards.

Contacts: [contact@omdf.mg](mailto:contact@omdf.mg), +261 (0) 34 05 041 60

[Go to Website](#)

[Download Documents](#)

# Program Mapping - Africa

Please Note:

- Most of the countries have individual programs
- ROGEP is an exception, it includes:

- Benin
- Burkina Faso
- Cabo Verde
- Cameroon
- Central African Rep (CAR)
- Chad
- Cote d'Ivoire
- Gambia, The
- Ghana
- Guinea
- Guinea-Bissau
- Liberia
- Mali
- Mauritania
- Niger
- Nigeria
- Senegal
- Sierra Leone
- Togo



# Program Mapping - Asia



- Myanmar
- Pakistan
- Yemen
- Philippines

VANUATU  
●

# Resources

# 资源



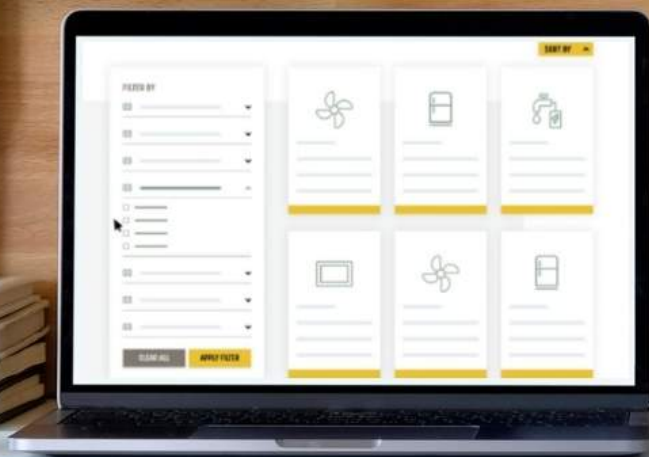
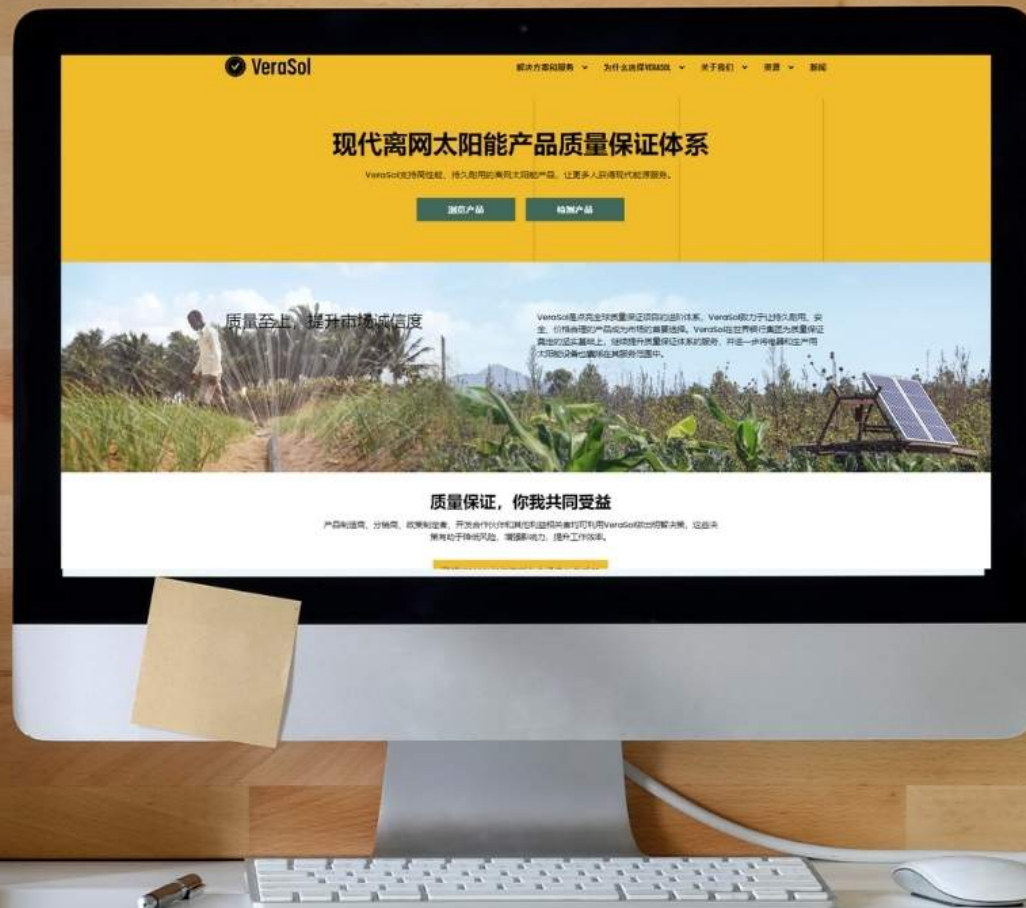
# Website | 网站



[verasol.org/zh](https://verasol.org/zh)



[data.verasol.org](https://data.verasol.org)



# RESOURCES



# VeraSol



## 138 RESOURCES



## 35 TECHNICAL NOTES



## 39 QUALITY STANDARDS & POLICIES

**Featured Publications**

Explore the latest Technical Notes, policies, and resources on quality assurance for modern off-grid solar solutions.

[BROWSE FULL ARCHIVE](#)

**Governments and other institutions**  
Jul 12, 2020  
This Technical Note summarizes the transition from the lighting Global Quality Standards to the IEC standards and outlines important considerations for governments and other institutions.

**Summary of Requirements in IEC TS 62257-9-8:2020**  
Jul 12, 2020  
This document provides a summary of the requirements and additional test methods in International Electrotechnical Commission (IEC) Technical Specification (TS) 62257-9-8.

**Featured Collections**

- Resources for Energy Access Practitioners**  
A collection of useful resources for energy access practitioners, including an introduction to quality assurance, materials from past events/webinars, and key program policies.
- Resources for Manufacturers**  
A collection of program policies and documents related to the testing and certification process for pico-solar products and solar home system (SHS) kits.
- Technical Notes Library**  
A collection of resources on how to design, develop, distribute, and promote, high-quality off-grid solar solutions.  
[View Collection](#) →

[Featured Publications](#)

**RESULTS 10 OUT OF 138** Newest ▾

**FILTER BY**

**Publication Type**

- Technical Notes
- Eco Design Notes
- Stakeholder Feedback
- Policies
- Test Methods
- Resources for Practitioners
- Presentations & Webinars
- Resources for Manufacturers
- Guidance Documents

**Language**

- Chinese
- English
- French

**Region**

- Global
- Sub-Saharan Africa

**Technology**

**VeraSol Certification Program Rules and Procedures**  
Jul 14, 2020 | Policies, English  
This document outlines the screening procedure VeraSol uses to assess a manufacturer's eligibility for its certification program...

**Finding the Sweet Spot: Identifying Affordable Quality Solar Products for the Last Mile**  
Jul 07, 2020 | Resources for Practitioners, English, Sub-Saharan Africa  
This report brings together findings from 6 months of research on the quality of best-selling non-quality-verified products in Kenya...

**Guidelines for Market Surveillance and Enforcement**  
Jul 06, 2020 | Resources for Practitioners, English  
A 33-page document from the European Union ECOPLANT project, providing guidance for market surveillance authorities on monitoring, verification, and enforcement of ecodesign policies...

**Compliance Protects Energy Efficiency Policies**  
Jul 06, 2020 | Resources for Practitioners, English  
A two-page overview from CLASP of key considerations when setting up a standards compliance framework, with a focus on energy efficiency...

**Memorandum of Agreement with Test Lab**  
Jul 30, 2020 | English  
This Memorandum of Agreement (MOA) sets out the terms by which the Parties will work together to develop and implement the Quality

[Full Archive](#)

## Our Team | 我们的团队



The VeraSol team holds a rich technical and programmatic background in quality assurance coupled with a commitment to provide neutral, high-quality service to the sector.

VeraSol团队在质量保证方面拥有丰富的技术背景和规划经验，致力于为行业提供中立、优质的服务。

### PROGRAM MANAGEMENT

### 项目管理



Ari Reeves,  
CLASP



Arne Jacobson,  
Schatz Center



Elisa Lai,  
CLASP

### TESTING & CERTIFICATION SUPPORT

### 测试 & 认证



Ana Luisa Sosa,  
CLASP



Kimberly Thorpe,  
Schatz Center



Riley Macdonald,  
CLASP



# Contact Us



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## NEWSLETTER

[Monthly newsletter and  
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Translated text



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