



VeraSol

G^OGLA



intertek
Total Quality. Assured.

Prepare your Solar Products to Access Markets with VeraSol:

Changes to Solar Energy Kit Certification and Updates on Appliance Testing

借助 VeraSol 为太阳能产品进入市场做好准备： 太阳能套件认证变更与电器测试更新

VeraSol – GOGLA Webinar
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VeraSol – GOGLA 网络研讨会
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AGENDA 议程

- Brief introductions to GOGLA and VeraSol
- What is changing about solar energy kit certification and why
- Our partners Intertek GTS and SMQ and what they offer their clients
- VeraSol appliance testing services (beyond solar energy kits)
- Audience Q&A

- GOGLA 和 VeraSol简介
- 太阳能套件认证正在发生的变化及其原因
- VeraSol 合作伙伴 Intertek GTS 和 SMQ，以及他们为客户提供的服务
- VeraSol 电器测试服务（太阳能套件之外服务）
- 参与者答疑





GOGLA is the global off-grid solar association. We represent the leading organisations delivering clean, affordable energy to underserved communities worldwide.

We bring together companies, investors, governments and partners to grow the off-grid solar sector and reach the people who need energy most. Drawing on our data and insights on market trends and best practices, we inform policy and investment decisions and advocate for the conditions needed to scale. Together with our members, we are building a strong, responsible industry that creates jobs and economic opportunity.

Off-grid solar solutions are already improving the lives of more than 560 million people worldwide, powering homes, businesses, farms, schools and clinics. GOGLA and its members are building on this progress to **Power 1 Billion Lives Now.**

GOGLA 是全球离网太阳能行业协会。我们代表行业领先组织，致力于为全球未得到充分服务的社区提供清洁、可负担的能源。

我们将企业、投资者、政府及合作伙伴共聚一堂，共同推动离网太阳能行业的发展，让能源触达最急需的人们。依托我们在市场趋势和最佳实践方面的数据与洞见，我们为政策和投资决策提供参考，并倡导扩大行业规模所需的有利条件。我们与成员携手，共同建设一个强大、负责任的行业，创造就业和经济机会。

离网太阳能解决方案已在全球改善超过5.6亿人的生活，为家庭、企业、农场、学校和诊所供电。GOGLA 及其会员正以此为基础，朝着“**现在为10亿人赋能**”的目标迈进。





VeraSol

Leaving no one behind

VeraSol works to increase access to modern energy services through high-quality off-grid solar products that build confidence in modern solar solutions and protect the most vulnerable consumers.

不让任何一个人掉队

VeraSol 致力于通过高品质离网太阳能产品，建立对现代太阳能解决方案的信心并保护最脆弱的消费者，增加获得现代能源服务的机会。

Launched in 2020, VeraSol is an evolution and continuation of Lighting Global Quality Assurance (and Lighting Africa QA before that).

VeraSol 于 2020 年推出，是点亮全球质量保证（以及此前的点亮非洲质量保证）项目的演进和延续。

IFC and the World Bank Group create the Lighting Africa Program, with focus on pico-solar products.

IFC 和世界银行集团创建了“点亮非洲”计划，重点关注微型太阳能产品。



CLASP and the Schatz Center awarded contract to manage the quality assurance program.

CLASP 和 Schatz 中心签订了管理质量保证计划的合同。



VeraSol certifies solar energy kits to IEC TS 62257-9-8.

VeraSol 按照 IEC TS 62257-9-8 对太阳能套件进行认证。

New SEK certification process implemented.

实施新的SEK认证流程



2007-2010

2011-2015

2016-2019



2020

2021-2025

2026-2027



IEC publishes TS 62257-9-5 based on LGQA test methods; QA expands to larger kits.

IEC 发布基于点亮全球质量保证计划测试方法的 TS 62257-9-5；质量保证扩展到太阳能套件。



VeraSol launches. IEC publishes TS 62257-9-8 based on the Lighting Global Quality Standards.

VeraSol 正式推出。IEC 根据点亮全球质量标准发布 TS 62257-9-8。



VeraSol maintains database of certified SEK and PURE products

VeraSol 维护经过认证的 SEK 和 PURE 产品数据库

Who is behind VeraSol? 谁在运营 VeraSol ?

- VeraSol is managed by CLASP in collaboration with the Schatz Energy Research Center at Cal Poly Humboldt (Schatz Center)
<https://www.clasp.ngo/> <https://schatzcenter.org/>
- VeraSol由CLASP与加州理工大学洪堡分校的Schatz能源研究中心（沙茨中心）合作管理。



VeraSol



We work closely with independent test laboratories to test and certify solar energy kits.

我们与独立测试实验室紧密合作，测试并认证太阳能套件。



There are currently over **200 solar energy kits certified**
by VeraSol from more than **50 manufacturers**

全球目前已有来自50多家制造商、
超过200套太阳能套件获得VeraSol认证



Pico-solar products

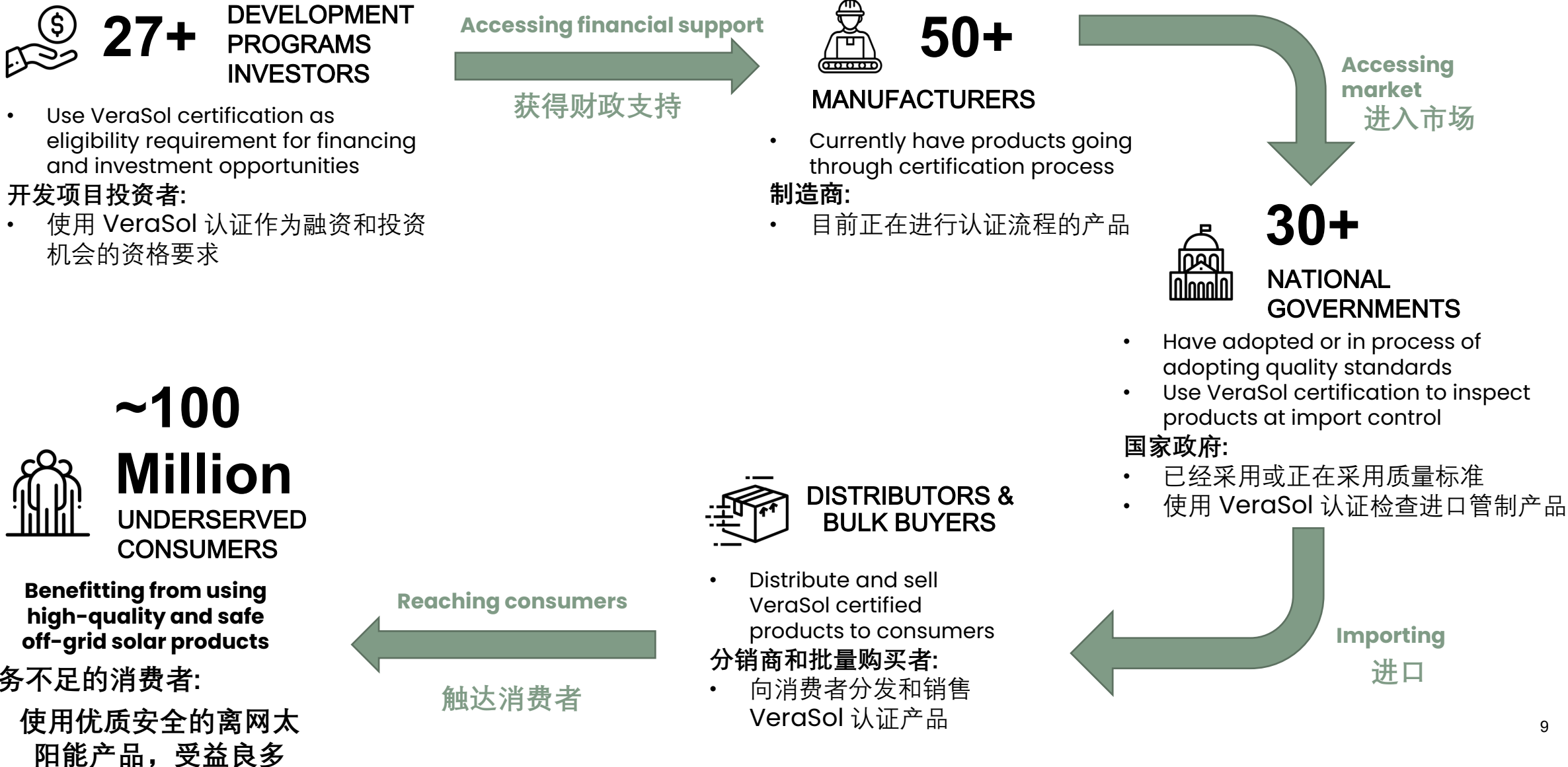


**Solar home system kits and
product families**

VeraSol works closely with governments, development agencies, and companies to protect consumers



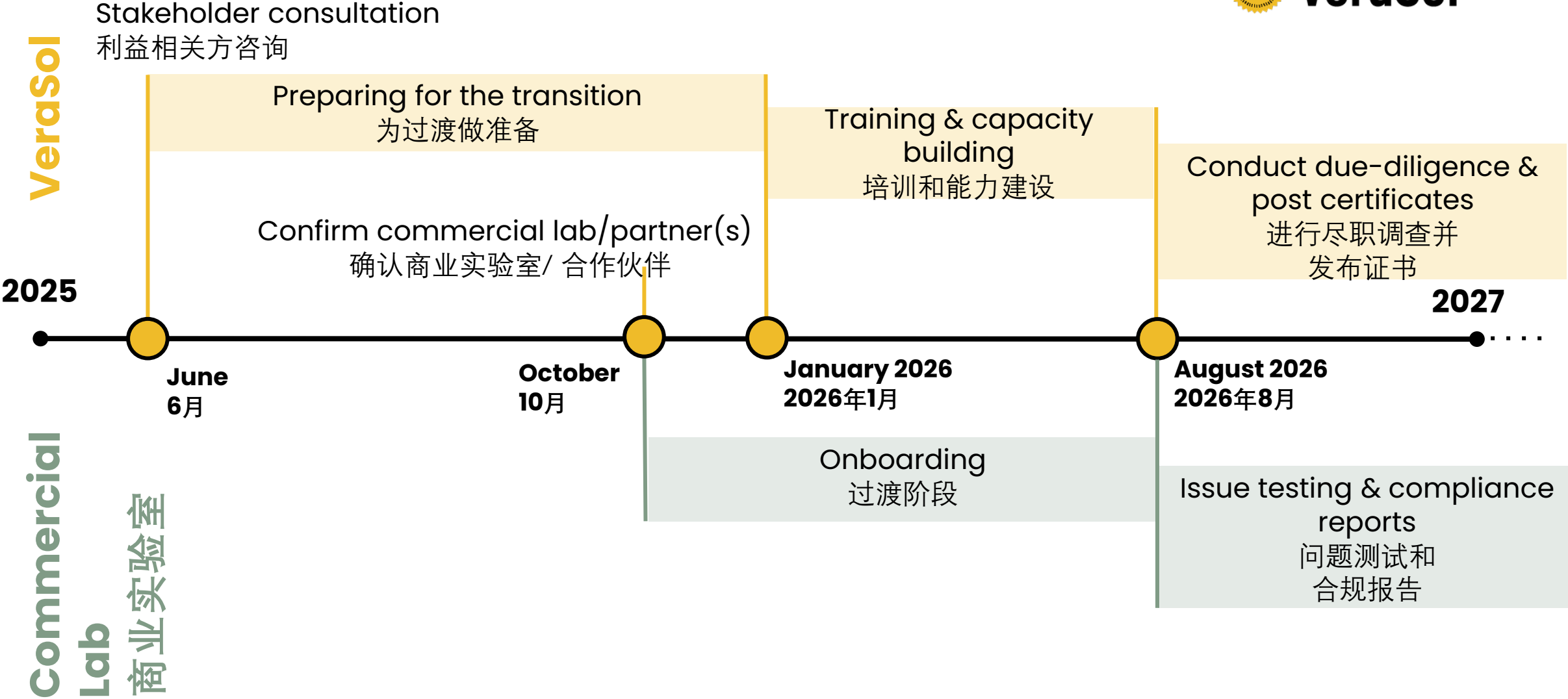
VeraSol



Certification process changes 拟议的认证流程变更

Activity 活动	Responsible Party 负责方	
	Old process 旧流程	New process 新流程
Initial engagement 初步对接	VeraSol	Test lab 测试实验室
Create test plan 创建测试计划	VeraSol	Test lab 测试实验室
Coordinate random sampling 协调随机抽样	VeraSol & Sampling agent VeraSol & 抽样机构	Test lab & Sampling agent 测试实验室 & 抽样机构
Issue test report (IEC 62257-9-5) 出具检测报告 (IEC 62257-9-5)	Test lab 测试实验室	Test lab 测试实验室
Issue compliance report (IEC 62257-9-8) 签发合规报告 (IEC 62257-9-8)	VeraSol	Test lab 测试实验室
Conduct due-diligence on testing & compliance results 对测试和合规结果进行尽职调查	VeraSol	VeraSol
Publish certification documents on database 在数据库中发布认证文件	VeraSol	VeraSol

Timeline for Transition 预计过渡时间表



Quality Verification Process

质量认证流程



VeraSol



Contact VeraSol
Approved Test Lab
(SMQ or Intertek)



Complete
Paperwork



Sample and Ship
Products



Test Products



Receive Results



Public Product
Listing



请联系VeraSol认
证测试实验室
(SMQ或Intertek)



步骤2: 完成文
书工作



步骤3: 样品和
送样



步骤4: 测试产
品



步骤5: 接收检
测结果



步骤6: 公开展
示产品

VeraSol Approved Test Lab (SMQ or Intertek)
VeraSol 认可测试实验室 (SMQ或Intertek)

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Services VeraSol will continue to manage

VeraSol将继续管理以下服务



VeraSol

- VeraSol Master Service Agreement (MSA)
- Revisions to Spec Sheets or Spec Books
- Additional Wh/day calculations on Spec Books
- Co-branding and appliance testing
- Expiration Date inquiries and letters of support
- Prices for VeraSol Services are available here:

<https://verasol.org/publications/pricing-table-for-certification-services/>

- VeraSol主服务协议 (MSA) ——每5年签一次
- 规格表或规格书的修订
- 规格书上的额外 Wh/日计算
- 品牌联名以及家电测试
- 认证到期咨询及支持函
- VeraSol 额外服务的价格请见此处:



<https://verasol.org/publications/pricing-table-for-certification-services/>

Goals of the transition

过渡目标



- Reduce communication gaps regarding testing
 - Minimize testing and certification timelines
 - Improve financial sustainability of the program
 - Maintain the value of VeraSol certification and the VeraSol Product Database as a trusted resource for the sector.
-
- 减少测试方面的沟通层级
 - 尽量缩短测试和认证时间
 - 提升项目的财务可持续性
 - 维护 VeraSol 认证和 VeraSol 产品数据库作为行业可信赖资源的价值



Reducing communication gaps

减少沟通层级



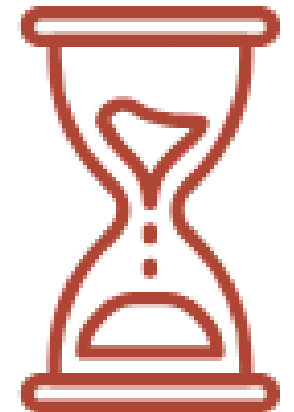
- A single entity will manage intake, testing, corrections and conformity assessment
 - Companies can contact the lab with questions and corrective actions
 - After signing an initial MSA with VeraSol, companies will only engage with VeraSol after testing and compliance evaluation or for “non-testing services”
- 
- A red line-art icon depicting two stylized human figures sitting at a table, facing each other. Above them is a speech bubble, indicating communication or a meeting.
- 由一个对接方管理接收、测试、修正和合格评估
 - 企业可以联系实验室提出问题和纠正措施
 - 在与 VeraSol 签署初始 MSA 后，企业仅会在测试和合规评估或“附加服务”环节与 VeraSol 对接

Minimize testing timelines

缩短测试时间



- In the long term, we anticipate this will be a more efficient process
 - The test labs can provide a better estimate of the overall timeline and offer more routine updates
 - There may be delays in the first months, as we learn the new system
 - Companies always need to allow adequate time for certification
(We recommend allotting 4-7 months)
-
- 从长远来看，我们预计这将是一个更高效的流程
 - 测试实验室可提供更准确的整体时间表估计，并提供更常规的更新
 - 过渡到新流程的最初几个月可能会有延误
 - 企业总体需要预留的认证时间（4-7个月）。

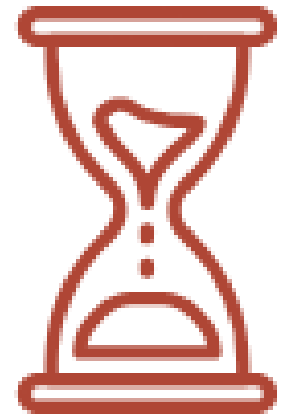


Planning for Renewals

认证续期规划



- Companies should contact the test lab to begin coordinating renewal testing at least 6 months prior to the expiration date of the product's original test results.
- For products that had a 2-year certification period, VeraSol will offer an extension of the product listing on the website **if** the company has signed a test agreement with the lab **prior to the product's expiration date**.
- In the future, for products that have a 3-year certification period, no extensions will be offered. Companies should ensure they renew before their results expire.
- 公司应至少在产品原始测试结果到期前6个月联系测试实验室，开始协调续期测试
- 对于拥有两年认证期的产品，如果公司在产品过期前与实验室签署了测试协议，VeraSol会在网站上提供产品列表的延长
- 未来，对于拥有3年认证期的产品，将不再提供延期。企业应确保在结果到期前续期。



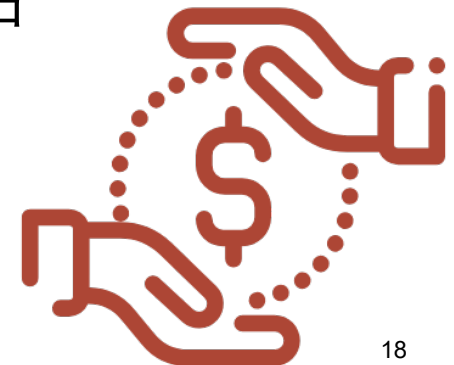
Improve financial sustainability of the program

提升项目的财务可持续性



VeraSol

- A new pricing structure will accompany the new certification process. Companies will pay the selected partner directly for testing *and certification*. Companies will continue to pay VeraSol for any special services that do not involve testing, such as making changes to an existing specification sheet.
- 新的认证流程将伴随新的定价结构。企业将直接向选定合作伙伴支付测试和认证费用。企业将继续向 CLASP 支付任何不涉及测试的特殊服务费用，例如修改现有规格表。



Maintain the value of VeraSol certification

维护 VeraSol 认证的价值



VeraSol

- VeraSol's policy for making corrections to bring products into compliance with the quality standards will also change:
 - Companies will work directly with the test labs to manage corrections.
 - To correct issues with packaging and other consumer-facing materials, companies will need to provide digital copies of their proposed changes and **then provide pictures of the printed physical packaging to the test lab prior to receiving certification documents**. Products may be selected at random to undergo warehouse inspections to confirm changes prior to certification.
- VeraSol 为使产品符合质量标准而进行修正的政策也将发生变化:
 - 企业将直接与测试实验室对接，管理更正
 - 为纠正包装及其他面向消费者的材料问题，企业需要提供其拟议变更的数字副本，并在收到认证文件前向测试实验室提供印刷的实体包装照片。产品可能会被随机选中接受仓库检查以确认变更，以保证认证。



Resources to help meet requirements without corrections



VeraSol

用于帮助符合要求且无需更正的资源

- **Changes to Test Methods and Requirements for Solar Energy Kits in IEC TS 62257-9-5:2024 and IEC TS 62257-9-8:2025** IEC TS 62257-9-5:2024 与 IEC TS 62257-9-8:2025 中太阳能套件测试方法与要求的变更
<https://verasol.org/publications/changes-to-test-methods-and-requirements-for-solar-energy-kits-in-iec-ts-62257-9-52024-and-iec-ts-62257-9-82025/>
- **Consumer Information, Performance Reporting, and Component Labeling Requirements** 消费者信息、性能报告与组件标签要求
<https://verasol.org/publications/information-requirements/>
- **Corrections Policy** 更正政策
<https://verasol.org/publications/corrections-policy/>

Initial transition grace period

初始过渡宽限期



VeraSol

- If you are already working with the VeraSol team but have not yet signed a service order, you may continue working with VeraSol or transition to working directly with an approved partner. If you want to continue working with VeraSol, you must sign a service order by September 30. After that time, you must select and work with an approved partner instead. If you transition to working with an approved partner, VeraSol will help transfer your documentation over to the partner to continue the process.
- 如您已经与 VeraSol 团队接洽，但尚未签署服务订单，您可以选择继续与 VeraSol 合作，也可以转为直接与授权合作伙伴对接。若您希望继续与 VeraSol 合作，则须在 9 月 30 日之前签署服务订单；逾期后，您必须选择一家授权合作伙伴并与之对接。若您决定转为合作伙伴对接，VeraSol 将协助将您的相关文件转交给该合作伙伴，以继续推进后续流程。



SMQ operates **8** experimental bases in Shenzhen Xili, Longzhu, Longhua, Guangming, Matian, Dongguan, Shaoxing and Shanghai.

SMQ在深圳西丽、龙珠、龙华、光明、马田以及东莞、绍兴、上海建有八大实验基地



Matian Base

马田基地

(国家电动汽车电池及充电系统产业计量测试中心)



Over 115,000 square meters areas of laboratory & office with over 2,700 employees (up to now)

实验办公面积超过**11.5万**平方米，员工超过**2700+**人



Over 33 thousand sets of professional testing equipment.

专业检测设备超过**3.3万**台/套



Guangming Base
光明基地



Zhejiang Company
浙江公司



Shanghai Company
上海公司



Dongguan Company
东莞公司



Longzhu Base
龙珠基地



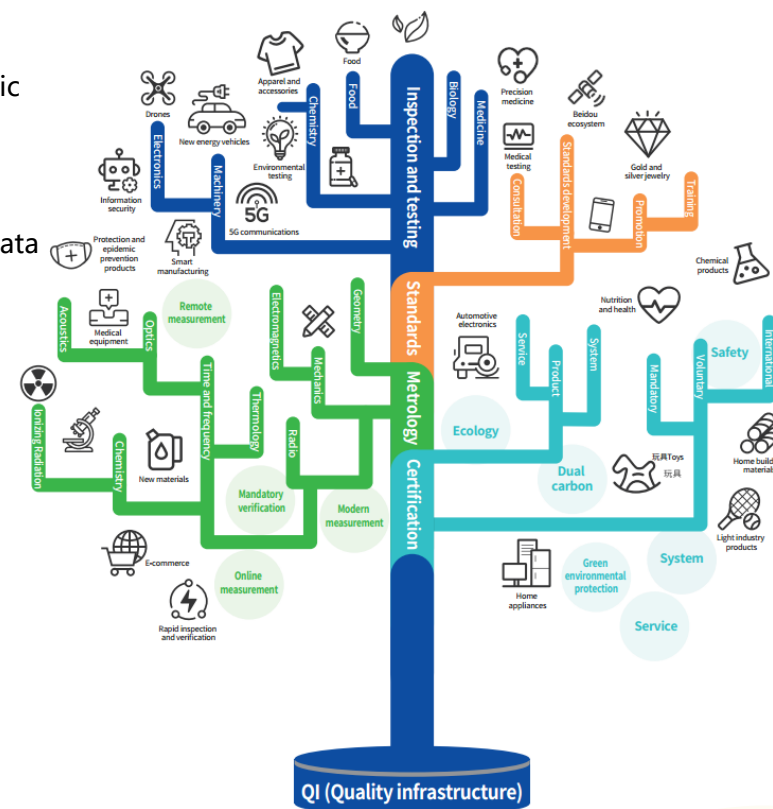
Longhua Base
龙华基地



Xili Headquarters
西丽总部

15 national-level platforms, 43 provincial and municipal platforms and laboratories

- National High-Tech Metrology Station
国家高新技术计量站
- National Digital Electronic Product Testing Center
国家数字电子产品质量检验检测中心（广东）
- National Sports Product Testing Center (Guangdong)
国家体育用品质量检验检测中心（广东）
- National Food Nutrition Testing Center (Guangdong)
国家营养食品质量检验检测中心（广东）
- National Environmental Product Quality Testing Center (Guangdong)
国家环保产品质量检验检测中心（广东）
- National Distributed Photovoltaic Power Generation System Testing Center (Guangdong)
国家分布式光伏发电系统质量检验检测中心（广东）
- National Civil Unmanned Aircraft Vehicle Testing Center(Guangdong),
国家民用无人机产品质量检验检测中心（广东）
- National Electric Vehicle Battery and Charging System Metrology and Testing Center
国家电动汽车电池及充电系统产业计量测试中心
- National Medical Device Industry Metrology and Testing Center
国家医疗器械产业计量测试中心
- National Urban Energy Metrology Center (Shenzhen)
国家城市能源计量中心（深圳）
- Technology Innovation Center of Intelligent Opto-Electronic Sensing , State Administration for Market Regulation
国家市场监督管理总局技术创新中心（智能光电传感）
- Shenzhen Sub Center of the National Metrology Science Data Center
国家计量科学数据中心深圳分中心
- the MIIT Industry Technology Foundation Public Service Platform (Metrology and Testing)
工信部产业技术基础公共服务平台（计量检测）
- National Infrastructure of Textiles, Garments and Apparel Quality Integrated Application Center
国家纺织服装服饰质量基础设施集成应用中心
- National Carbon Metrology Center (Shenzhen)
国家碳计量中心（深圳）





National Distributed Photovoltaic Power Generation System Testing Center (Guangdong)
国家分布式光伏发电系统质量检验检测中心（广东）



Qualification 资质

- Area over **2,000m²**
建筑面积超**2,000**平方米
- IECCE – CB Lab
国际电工委员会（IECEE）CB 体系的 CB 实验室



Test Capabilities 检测能力

- PV module Testing
光伏组件检测
- PV Inverter & Component Testing
光伏逆变器及部件检测
- Photovoltaic Generation System Testing
光伏发电系统检测
- Energy Storage Battery Testing
储能电池检测
- Outdoor Experimental Laboratory for Distributed Photovoltaic Power Generation System
分布式光伏发电系统户外实证实验室



“VeraSol” Certification Required Documentation “VeraSol” 认证所需材料

- **PV**
 - IEC 61730/IEC 61215
- **Main Unit**
 - IEC 62109
- **Battery**
 - IEC 62133-2





1

Initial Engagement 初步对接

- Reach out to SMQ directly
直接联系SMQ开始认证
- SMQ collects all information
required from companies
SMQ 向企业收集全部所需的资料



2

Create Test Plan 创建测试计划

- SMQ creates the test plan
SMQ出具测试计划
- The VeraSol team reviews test
plan
VeraSol团队审核测试计划
- SMQ issues the final test plan, the
invoice, and the contract
documents to the companies
SMQ 向企业出具最终测试计划、
发票以及合同文件



3

Coordinate Random Sampling 协调随机抽样

- SMQ coordinates with the
companies to schedule the
sampling date
SMQ 与企业协调确定抽样日期
- Companies shall provide qualified
sampling site conditions and the
required product quantities
企业需提供合格的抽样现场条件以及
所需产品数量



4

Issue -9-5 & -9-8 Reports 签发-9-5和-9-8报告

- SMQ issues the -9-5 test report and the
-9-8 compliance report
SMQ 出具-9-5 测试报告与-9-8 符合性报告
- The VeraSol team reviews both reports
VeraSol 团队对两份报告进行审核

- One-on-One engagement for shorter lead-time and shorter and fewer miscommunications
项目前期咨询、认证申请及合规报告均由SMQ统一执行，实现单点对接、减少沟通偏差与信息误传

- Notify test lead-time when issuing invoices
开具发票时告知测试周期
- Provide monthly updates on test progress status
每月同步更新测试进度状态

- Timely responses for relevant questions
对相关疑问及时予以解答

Contact us | 联系我们

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OR

lvting@smq.com.cn

 Tel: +86-755-86009898 ext. 31377

 Add: No.4 of Tongfa Road, Xili Town, Nanshan District, Shenzhen
地址：深圳市南山区西丽街道同发路4号

INTERTEK全球网络和业务能力

Our Global Network and Capabilities



覆盖全球的全面质量保障服务网络, 超过40,000名员工
(Global ATIC Business with over **40,000 Employees**)

3,000+ 审核员
(3,000 Auditors)

1,000+ 实验室和分支机构
1,000+ Laboratories and Offices

100+ 国家
(100+ Countries)

80+ 语言
(80+ Languages)

100,000+ 次审核
(100,000 Audits)

全球质量保障服务领导者
(Global Market Leader
in Assurance)

全球TIC市场领导者
(Global Market Leader in TIC)

INTERTEK'S CERTIFICATION SUPPORT SIMPLIFYING THE VERASOL CERTIFICATION JOURNEY

Intertek 将 VeraSol 认证流程化繁为简



Intertek provides complete certification support, including:

Intertek 提供全面的认证支持，包括：

Certification Support 认证支持

Managing your
certification journey
管理您的认证之旅

Product Sampling 产品抽样

Coordinating
programme-compliant
sampling
协调符合计划要求的
抽样

Testing 测试

Evaluating products to
recognised international
standards 根据公认的国
际标准评估产品

Compliance Verification 合规验证

Verifying conformity with
VeraSol requirements
验证是否符合 VeraSol
的要求

Customer Benefits 客户收益

- ✓ *Reduce complexity* 降低认证复杂性
- ✓ *Accelerate certification timelines* 加速认证周期
- ✓ *Access expert technical support* 获得专业技术支持
- ✓ *Focus on your innovation and quality improvement* 专注于您的创新和质量提升

Intertek Value: We are your trusted partner, managing the one-stop certification process for your business to achieve swift market access.

Intertek 价值在于——我们是您值得信赖的合作伙伴，为您的企业管理一站式认证流程，实现快速进入市场。



Single Point of Contact(单一联络窗口)

- **Dedicated project coordinator/account manager** 客户将配备一名专属项目协调员/客户经理，负责统筹测试及认证流程
- **One primary contact for testing and certification** 客户仅需通过一个联络窗口即可获取测试与认证相关支持
- **Streamlined communication through a dedicated project coordinator** 通过专属项目协调员实现更高效、顺畅的沟通

Improved Visibility & Escalation Path 提升流程透明度与升级沟通机制

- End-to-end oversight from sample receipt through report issuance 全程跟进样品接收、测试执行及报告签发等关键环节.
- Greater transparency and faster responses 提升流程透明度，实现更及时的沟通与响应
- Clear escalation contacts for urgent timeline or testing inquiries 对于紧急项目需求，提供清晰的升级沟通机制和联络窗口

Proactive Status Updates (主动进度更新)

- | | |
|----------------------------------|-------------|
| Sample received | • 样品已接收 |
| Testing scheduled | • 测试计划已确认 |
| Testing in progress | • 测试进行中 |
| Initial findings identified | • 已完成初步结果评估 |
| Report under review | • 测试报告审核中 |
| Certification review in progress | • 认证审核进行中 |
| Certification decision issued | • 认证结果已发布 |

Intertek GTS Services for Emerging Market Access

Intertek GTS：助力新兴市场高效准入



Intertek GTS operates one of the world's largest networks of **Pre-Export Verification of Conformity (PVoC)** and **Conformity Assessment Programs (CAP)**.

Intertek GTS 运营着全球最大的出口前符合性认证 (PVoC) 和符合性评估计划网络之一。

We safeguard our clients' reputations and build trust across the international markets by supporting them with regulatory compliance, safer trade, and consumer protection.

我们通过在法规遵从性、更安全的贸易和消费者保护方面为客户提供支持，来维护客户声誉并在国际市场建立信任。

Ex. Kenya's Pre-Export Verification of Conformity (PVoC) Programme.

示例：肯尼亚出口前符合性验证 (PVoC) 计划

Key Requirements:

- ✓ Conformity assessment prior to shipment for Regulated Products
受监管产品在装运前必须进行符合性评估
- ✓ Compliance with applicable Kenyan standards 产品须符合肯尼亚现行相关标准
- ✓ **Certificate of Conformity (CoC)** required for covered products
受限产品必须取得符合性证书 (CoC)

Risks of Non-Compliance

- ⚠ Customs clearance delays 清关延迟
- ⚠ Financial penalties and additional costs
罚款及额外费用
- ⚠ Shipment rejection or re-export
货物遭拒或强制退运

Intertek Value: Helping exporters and importers achieve compliance efficiently, minimize customs risks, and facilitate smooth market access into Kenya.

Intertek 价值在于——协助进出口商高效达成合规，降低清关风险，保障产品顺畅准入肯亚市场。

Accelerate Emerging Market Access Through Compliance

合规先行，加速开拓新兴市场

Imported Solar Energy Kits are **regulated products** in the following countries.

Intertek helps clients to implement Pre-Export Verification of Conformity (PVoC) / Conformity Assessment Programs (CAP), which facilitate efficient market access.

进口太阳能套件在以下国家属于受监管产品。Intertek 协助客户执行出口前符合性认证(PVoC) 或符合性评估计划(CAP)，从而促进高效的市场准入。

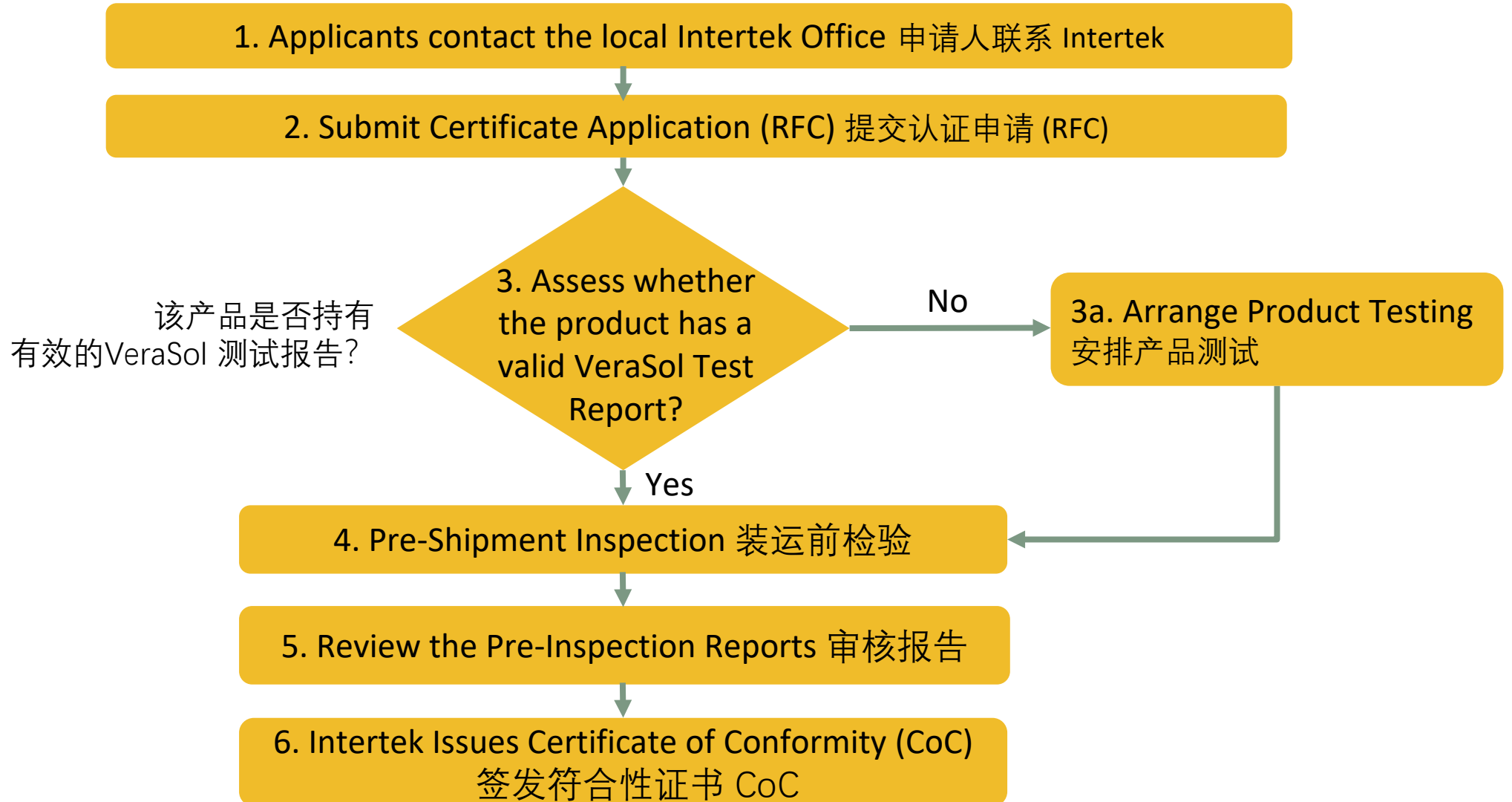
- Kenya 肯尼亚
- Ghana 加纳
- Uganda 乌干达
- Cameroon 喀麦隆
- Ethiopia 埃塞俄比亚
- Ivory Coast 科特迪瓦
- Tanzania 坦桑尼亚
- Nigeria 尼日利亚 (coming soon)

Intertek Value: Leveraging Intertek's global expertise in testing, inspection, and certification, manufacturers can navigate the certification process seamlessly.

Intertek 价值在于——借助 Intertek 在测试、检验和认证领域的全球专业优势，制造商能够无缝完成整个认证流程。

CERTIFICATION PROCESS FOR REGULATED SOLAR ENERGY KITS (SEKS)- KENYA & UGANDA

受监管太阳能套件 (SEKs) 认证流程(肯亚 乌干达)



Compliance should be your catalyst.

Partnering with Intertek, you can accelerate your access to emerging markets for the Solar Energy Kits efficiently and safely.

让合规成为您拓展业务的加速引擎。

携手 Intertek，以高效、可靠的合规解决方案，加速开拓新兴市场

Contact us today to learn how Intertek can support your VeraSol certification needs.

联系我们，了解Intertek如何满足您的VeraSol认证需求。

Intertek Hong Kong Intertek 中国香港

Intertek Testing Services Hong Kong Ltd.,

1C Garment Centre,

576 Castle Peak Road,

Kowloon, HKSAR, China

天祥公证行有限公司

香港九龙青山道576号制衣中心一楼C室

中国香港特别行政区

(852) 2310 9923

Email: info.hongkong.gs@intertek.com



Key takeaways

核心要点



- For solar energy kit testing, contact VeraSol's authorized partners: **SMQ and Intertek Hong Kong**
- **Be proactive about your testing timelines** – contact your chosen lab 4-7 months in advance and use our resources to help make the certification process smooth
- For other VeraSol services, including co-branding and appliance testing, contact VeraSol at testing@verasol.org



- 如需太阳能套件测试，请联系 VeraSol 授权合作伙伴：**SMQ 和香港 Intertek。**
- **请主动规划您的测试时间——**提前4-7个月联系您选择的实验室，利用我们的资源，顺畅推进认证过程
- 如需其他 VeraSol 服务，包括联名和电器测试，请邮箱联系 VeraSol: testing@verasol.org

Resources 资源列表:



VeraSol

- **Transition details** 过渡细节:
<https://verasol.org/certification-transition/>
- **Renewal policy** 续期更新政策:
<https://verasol.org/publications/test-results-renewal-policy/>
- **VeraSol pricing** 定价表:
<https://verasol.org/publications/pricing-table-for-certification-services/>
- **Corrections policy** 更正政策:
<https://verasol.org/publications/corrections-policy/>
- **SMQ:**
<https://www.smq.com.cn/Web/Connect.aspx>
email: lightingglobal@smq.com.cn
- **Intertek:**
<https://www.intertek.com/government/export-import/regulatory-news-updates/lighting-global-quality-assurance/>
email: info.hongkong.gs@intertek.com

VeraSol Appliance Testing

VeraSol 电器测试

Why test your appliance with VeraSol?

为什么通过 VeraSol 测试你的电器？



VeraSol

Gain Access to Program Support

获取项目支持



>\$56m USD

Allocated through programs in 2025 to support VeraSol-tested appliances

2025年，拨付给 VeraSol 测试电器相关项目的资金

Connect with Distributors

与分销商联系



>650

Distributors and retailers currently utilizing the Product Database

目前使用产品数据库的分销商和零售商

Benchmark Your Product's Performance

对产品性能进行基准测试



>500

Appliances already published on the Product Database for comparison

已发布在产品数据库中的设备供比较

Appliance testing product scope

离网电器测试产品范围

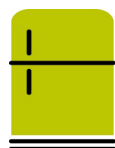


VeraSol

VeraSol oversees the testing of appliances that are designed for use in off-grid and weak-grid conditions to generate comparable performance data.

VeraSol 负责监督针对离网和弱电网条件下使用的电器产品进行的测试，以生成具有可比性的性能数据。

Currently Tested 当前测试产品



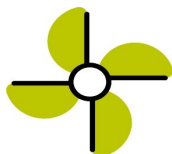
Refrigerators



Electric Pressure Cookers



Solar Milling



Fans

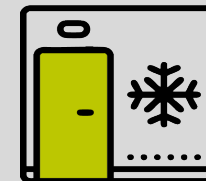


Solar Water Pumps

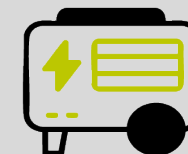


Egg Incubators

Upcoming 即将到来



Walk-In Cold Rooms



Solar Generators

Certified versus Tested Products on the VeraSol Product Database

VeraSol 产品数据库中的认证与测试产品



VeraSol

Certified Solar Energy Kits

认证太阳能套件



- ✓ Tested to international test methods

通过国际测试方法进行测试

- ✓ Evaluated to international quality standards

通过国际质量标准评估



- ✓ Certified by VeraSol
- 由VeraSol认证

Tested Appliances and Equipment

测试过的电器和设备



- ✓ Tested to Global LEAP or VeraSol Rapid Product Assessment test methods

采用全球LEAP或 VeraSol 快速产品评估测试方法进行测试

- × Not evaluated to any quality standards

没有经过任何质量标准的评估



- ✓ Comparable performance data shared by VeraSol
- VeraSol 分享的可比性能数据

Certified versus Tested Products on the VeraSol Product Database



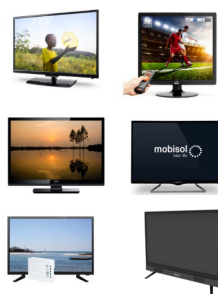
VeraSol

VeraSol产品数据库中的认证与测试产品



Pico-solar products, solar home system kits, and product families: **209**

Certified Products
认证产品



Televisions: **159**



Fans: **154**



Refrigerators: **131**



Solar water pumps: **62**



Electric pressure cookers: **34**



Egg incubators: **3**



Walk-in cold rooms: **10**

Tested Products
测试产品

VeraSol appliance testing process

VeraSol 电器测试流程



VeraSol

Companies seeking testing reach out to VeraSol to kick off the testing process.

Companies seeking testing reach out to VeraSol to kick off the testing process.



Product Sampling

Product Testing

Review Test Results

Data Sharing

产品抽样

产品测试

查看测试结果

数据共享

VeraSol appliance test lab network

VeraSol 设备测试实验室网络



VeraSol

Appliances published on the VeraSol Product Database must be tested at the VeraSol partner test lab for that product type.

发布在VeraSol产品数据库上的家电必须在该产品类型的VeraSol合作测试实验室进行测试。

	TÜV SÜD Hong Kong Hong Kong	Fans 风扇
	PCSIR Pakistan	Fans 风扇
	Re/Gent Helmond, The Netherlands	Refrigerators 冰箱 Freezers 冷冻柜
	Schatz Energy Research Center Arcata, CA, USA	Solar water pumps 太阳能水泵
	Kijani Testing Kisumu, Kenya	Electric pressure cookers 电压力锅 Egg incubators 孵蛋器 Milling machines 铣床 Other PURE 其他生产用设备

APPLIANCES & EQUIPMENT 电器与设备

接收检测结果和建议



recommendations for
product improvement.

企业将收到完整的测试报告，以及一份 VeraSol 评估摘要文件，其中包含关键结果和产品改进建议。

 VeraSol	
Off-Grid Refrigerator Test Results: Koolboks LC-268	
VeraSol facilitates independent testing to evaluate the performance and quality of off-grid appropriate appliances including refrigerators. This refrigerator was randomly sampled from the manufacturer and tested according to version 4 of the Global LEAP Off-Grid Refrigerator Test Method¹, with performance testing methods aligned with CDV IEC 63437², at an ISO-accredited test laboratory. This document contains the product's performance summary. Full test results for this product can be found via the link to the VeraSol Product Database in the table below.	
Product Information	
Product Brand Name	Koolboks
Model Number	LC-268
Manufacturer Name	Koolboks
Refrigerator Type	Refrigerator
Unfrozen Volume (L)	268
Frozen Volume (L)	0
Voltage Rating (V)	24
Power Rating (W)	235
Power Supply Type	DC
Electrical battery included	Yes
Thermal store included	No
Refrigerant Type	R290
Warranty (months)	36
Company Contact	www.koolboks.com khadijah.anihura@koolboks.com
Detailed Test Results	www.data.verasol.org/products/ref/kb-lc268
Product Photo	
Sampling & Testing Information	
Sampling Location	Manufacturer's Warehouse (Guangdong, China)
Testing Laboratory	RejigenT B.V.
Testing Completion Date	June 24, 2025
VeraSol Contact	info@verasol.org
¹ Version 4 is a revision of the third version of the Global LEAP Off-Grid Refrigerator Test Method and was in draft status at the time of this testing. ² CDV IEC 63437: Off grid and unviable grid refrigerating appliances for domestic and light commercial use - characteristics and test methods - performance requirements and energy consumption.	
³ See Annex A for refrigerator characteristics as defined in CDV IEC 63437. ⁴ Performance tests are aligned with CDV IEC 63437.	

VeraSol Product Database for off-grid appliances

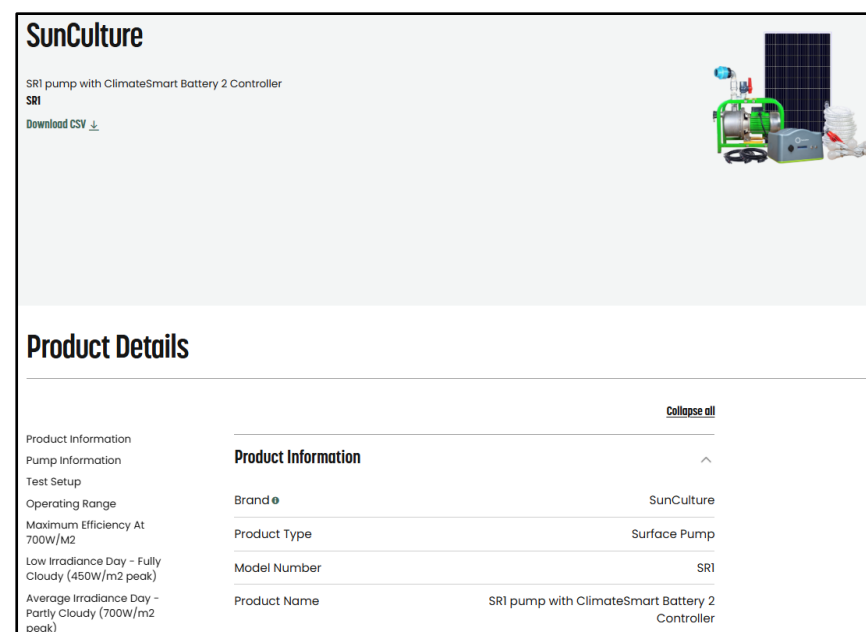
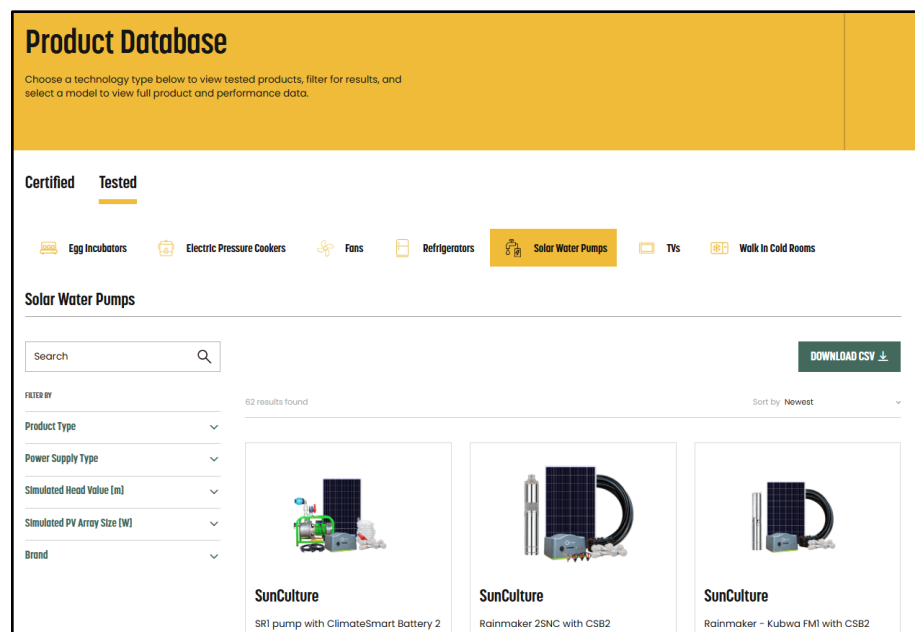
VeraSol 离网电器产品数据库



VeraSol

When testing is complete, your product will be published in our public database where potential customers and program administrators can find it.

测试完成后，您的产品将发布在我们的公共数据库中，潜在客户和项目经理均可在其中查阅。



Visit the VeraSol Product Database
浏览 VeraSol 产品数据库
<https://verasol.org/database/>

Expanding Quality Assurance for Appliances

扩大电器质量保证

Current Quality Assurance Framework for PURE PURE 现行的质量保证框架

Elements of VeraSol Quality Assurance Framework 质量保证框架的要素



VeraSol



COMPLIANCE & CERTIFICATION 合规与认证

Evaluate and confirm products meet quality standards
评估并确认产品符合质量标准

QUALITY STANDARDS 质量标准

Determine and set baseline levels of product quality
确定并设定产品质量的基准水平

TESTING & DATA 测试与数据

Generate product performance and quality data to inform actions
生成产品性能和质量数据以指导行动

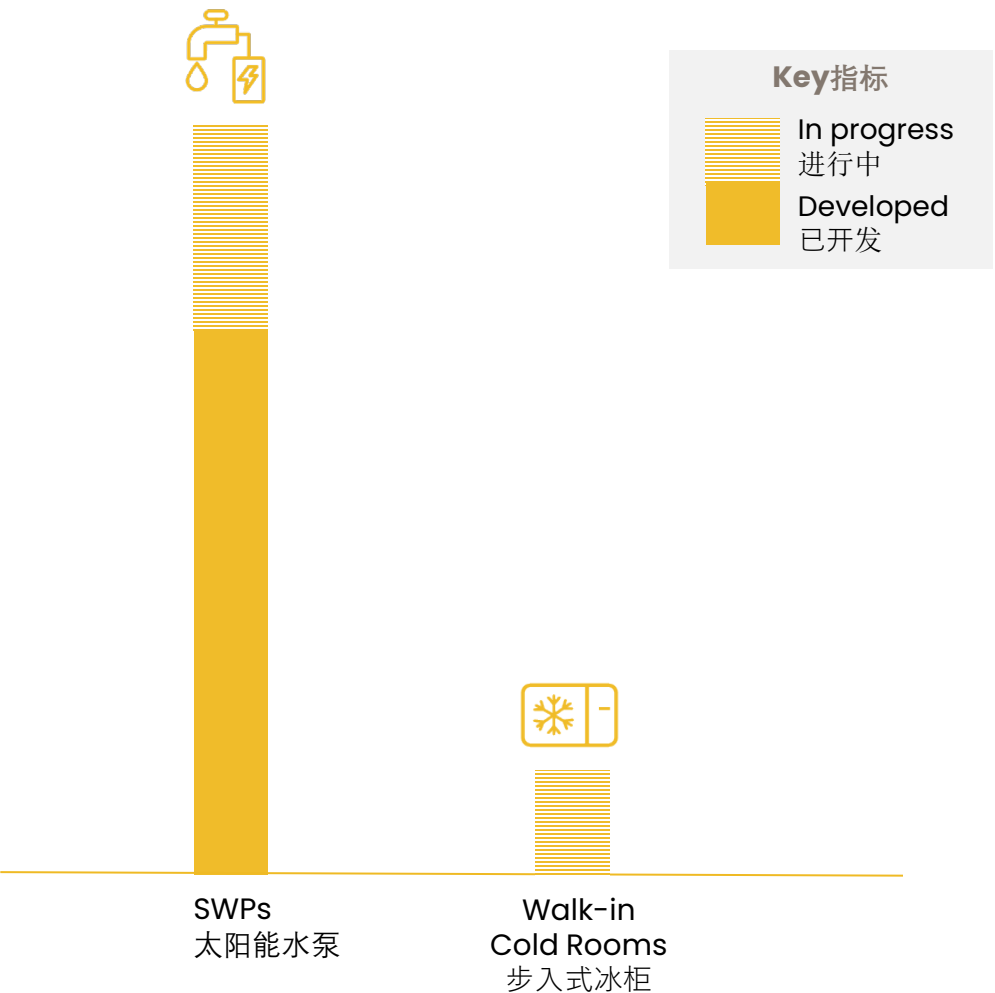
LAB CAPACITY 实验室能力

Identify and support testing partners to provide testing services
确定并支持测试合作伙伴提供测试服务

TEST METHODS 测试方法

Define how product quality and performance is measured
定义如何衡量产品质量和性能

QA Framework Development Progress to Date 质量保证框架迄今为止的开发进展



Expanding Quality Assurance: Solar Water Pumps

扩大质量保证：太阳能水泵



VeraSol is expanding quality assurance for solar water pumps (SWPs):

VeraSol 正在扩大太阳能水泵（SWP）的质量保证：

- Test lab University of Nairobi will join our lab network to test SWPs.
内罗毕大学测试实验室将加入我们的实验室网络，测试 SWP。
- Publishing SWP test methods through the International Electrotechnical Commission (IEC).
通过国际电工委员会（IEC）发布 SWP 测试方法。
- Developing quality standards and a certification program for SWPs, planned for 2027.

计划于2027年制定 SWP 的质量标准和认证项目。



Developing Quality Assurance: Walk-In Cold Rooms

质量保证的制定：步入式冷藏室



VeraSol

VeraSol has developed lab and field test methods for walk-in cold rooms to evaluate performance.

VeraSol 开发了用于评估冷藏室性能的实验室和现场测试方法。

Opportunity | 机遇

We invite developers, users, and promoters of walk-in cold rooms to attend our webinar on **8 September 2026 at 16:00 EAT / 21:00 CST.**

我们邀请开发者、用户及冷藏室推广者，参加我们将于**2026年9月8日16:00 东非时间 / 21:00 北京时间**举办的网络研讨会。

- Learn more about the field test protocol and other resources
了解更多关于现场测试协议及其他资源的信息
- Share your expert insights on upcoming work
分享你对即将开展工作的专家见解

[Register](#) for the webinar!

报名参加网络研讨会！



Opportunities 商业机会

Opportunities

Browse current and past programs, results-based financing mechanisms, open tenders, bulk procurements, and other initiatives looking for VeraSol-certified solar energy kits.



Grow Your Business with VeraSol

Many large institutions and organizations require their programs to support or procure only products that meet international quality standards. By certifying your solar energy kit with VeraSol, you can qualify your products for bulk procurements, results-based financing mechanisms, working capital facilities, and other programs.

Below is an active list of open and past opportunities. Please [contact us](#) if you would like to add a program or tender to this list.

Programs and Financing

Subscribe to our
newsletter

订阅我们的
邮件简报



<https://verasol.org/opportunities/>

Keep Up with VeraSol

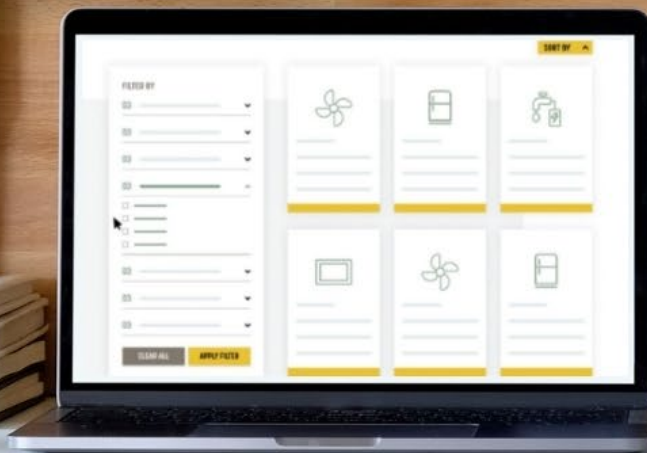
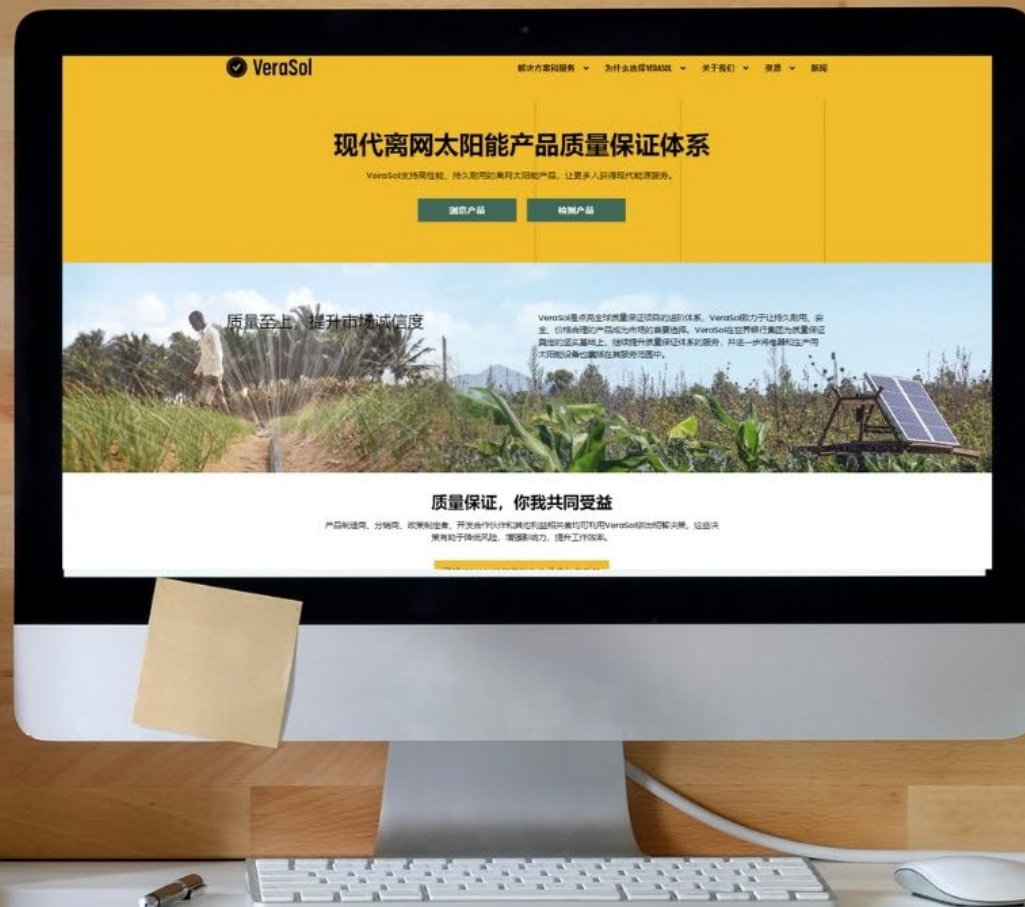
跟上VeraSol的步伐

Website | 网站 : [VeraSol.org](https://www.verasol.org)

LinkedIn |
<https://www.linkedin.com/company/verasol-quality-assurance/>

WeChat | 微信 :

Email us 邮箱联系我们 : Testing@verasol.org



QUESTIONS?
有问题吗?



VeraSol.org

