



**REPAIR AND REGENERATION
OF MULTI-BRAND STRING
AND CENTRALISED PHOTOVOLTAIC
INVERTERS**

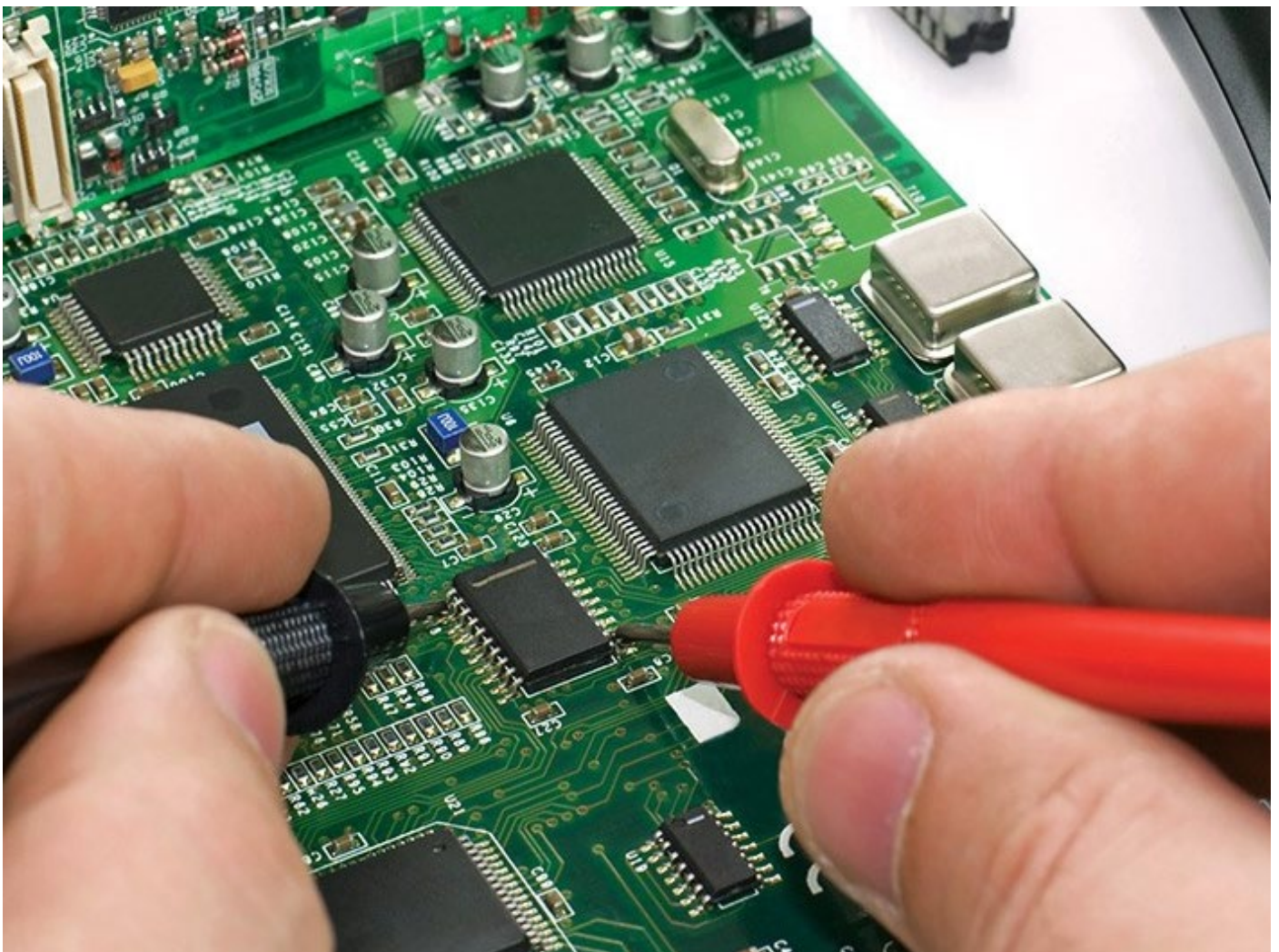
RESTORE THE FULL OPERATION OF YOUR PV SYSTEM

Faulty photovoltaic inverters do not necessarily need to be replaced: repair or regeneration is a strategic alternative.

53% of failures in photovoltaic systems are caused by DC/AC inverters. Constantly replacing these devices can compromise system profitability.

Repairs, instead, extend service life and ensure sustainable returns over time.

With STI Repair, you can save up to 70% on repair costs while improving your plant's performance — without the burden of a new purchase.



EXTEND SYSTEM LIFESPAN: GET MORE FROM YOUR ENERGY INVESTMENT

STI Repair specializes in the regeneration and repair of industrial electronic equipment, including **photovoltaic inverters**, drives, and automation systems. With **over 20 years** of experience and **highly qualified technicians**, we deliver reliable and durable solutions. Following technical inspection, we can repair

photovoltaic inverters of any brand and manufacturer. Our **laboratories**, equipped with **cutting-edge technology**, enable to intervene directly on the components, guaranteeing precise repairs to extend the lifespan of your equipment and to maximise the return on investment.

We work with leading brands such as:

ENcome
ENERGY PERFORMANCE

 **EQUANS**

krannich

enel
Green Power

 **BELECTRIC®**

 **ERG**
EVOLVING ENERGIES

 **ecosuntek**
sistemi energetici da fonti rinnovabili

**RECURRENT
ENERGY**
A subsidiary of Canadian Solar

ACWA POWER
أكوا باور

vitalia

iqony

 **tenergie**

 **BayWa r.e.**

 **GreenUtility**

ESAPRO

TECHNOLOGY AND PRECISION FOR COMPLETE SOLUTIONS



Thanks to decades of experience in photovoltaics and deep technical expertise, STI Repair is able to provide targeted solutions for your system.



REPAIR

Repair resolves faults or malfunctions in photovoltaic inverters. This service includes preventive maintenance and cleaning of worn components, fully restoring functionality of the device without requiring replacement.



Repair Process in Simple Steps:

1/ RECEIPT AND DIAGNOSIS

Upon receipt, we carry out a technical analysis to precisely identify the fault.

2/ COMPONENT-LEVEL REPAIR

We intervene on the faulty component, allowing us to repair inverters of different brands and technologies without depending on manufacturers.

3/ MAINTENANCE AND CLEANING

We perform a full cleaning and replace worn components.

4/ FINAL TESTING

The inverter undergoes functional testing to ensure full performance.

5/ REMOTE SUPPORT – BEFORE AND AFTER THE INTERVENTION

We offer complete remote assistance before and after the intervention to ensure operational efficiency and solve any problems.



REGENERATION

A thorough restoration that returns the inverter to a near-new condition by replacing worn components. This intervention significantly extends the technical life of the system, improving its service continuity, resistance and resilience.

DID YOU KNOW YOU CAN RESET YOUR INVERTER TO “ZERO HOURS”?

Regenerating an inverter with STI Repair means restoring its functionality as if it had just been purchased, with numerous advantages:

24

Month warranty
on the entire device.

70%

Downtime reduction
thanks to predictive
maintenance, which
anticipates faults.

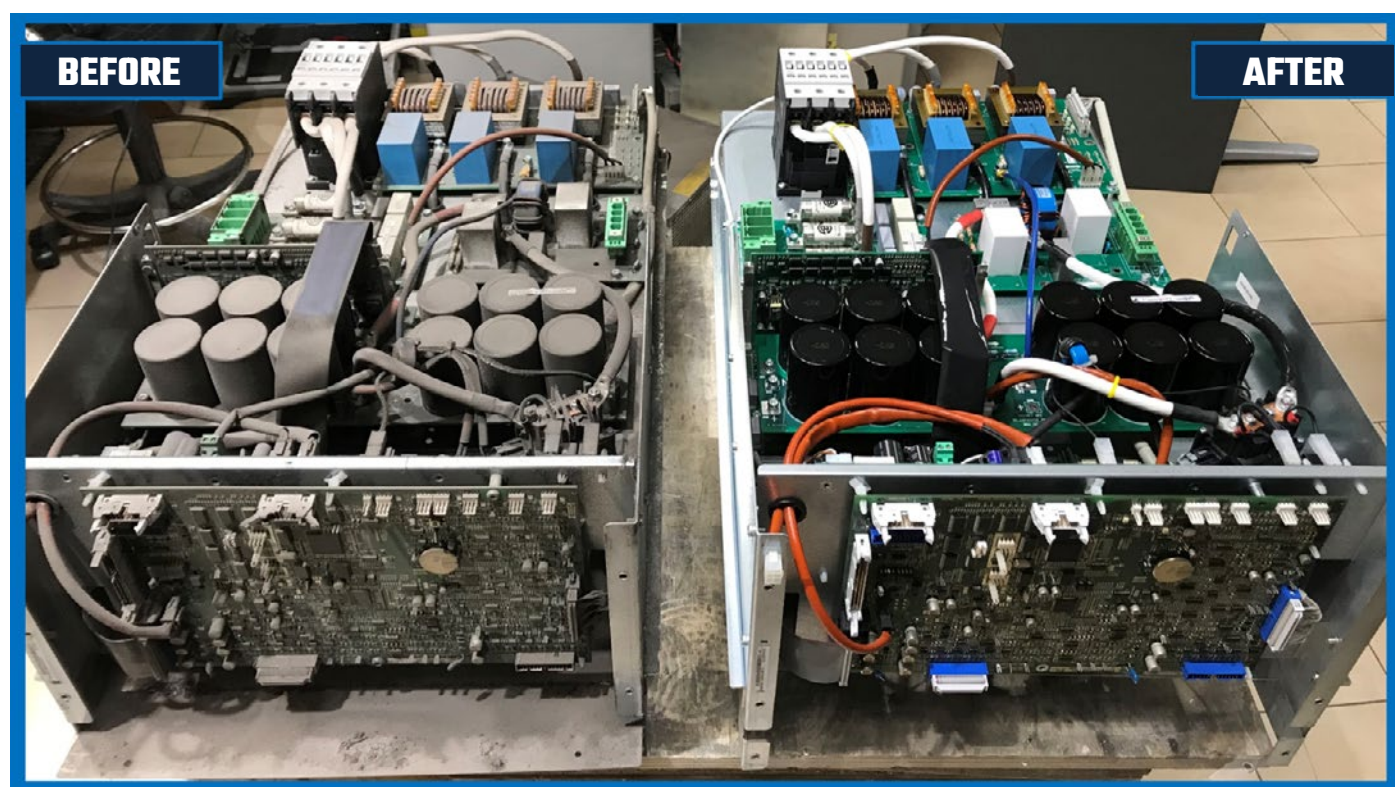
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**Disposal or electronics
waste costs**, avoiding
waste disposal
and paperwork.

+20%

System lifespan,
optimizing ROI
and efficiency.

	REPAIR	REGENERATION
Technical inspection and troubleshooting	✓	✓
Complete technical and functional analysis	—	✓
Replacement of faulty components	✓	✓
Replacement of "senescent" components	—	✓
Replacement of "drive" and "power" components	—	✓
Replacement of electromechanical components	—	✓
Complete cleaning	✓	✓
Technological cleaning	—	✓
Tropicalisation of electronic cards	—	✓
Trials, testing and validation	✓	✓



AC/DC RING TEST: PROVEN LONGEVITY FOR YOUR INVERTER

Every repaired or regenerated inverter is tested in our laboratories with the **AC/DC Ring Test** — a rigorous procedure that ensures constant, reliable performance.

Thanks to an ongoing investment in multi-brand inverters, **we simulate real-world operating conditions for uncompromising results.**



Why does our AC/DC Ring Test stand out?



COMPLETE TESTING

Each inverter undergoes extensive power, control and communication tests, ensuring the correct functioning of every component.



CERTIFIED ACCURACY

Tests follow strict international standards and deliver precise, reliable results at the highest level.



100% TEST

All repaired devices are fully tested before return for verified performance.

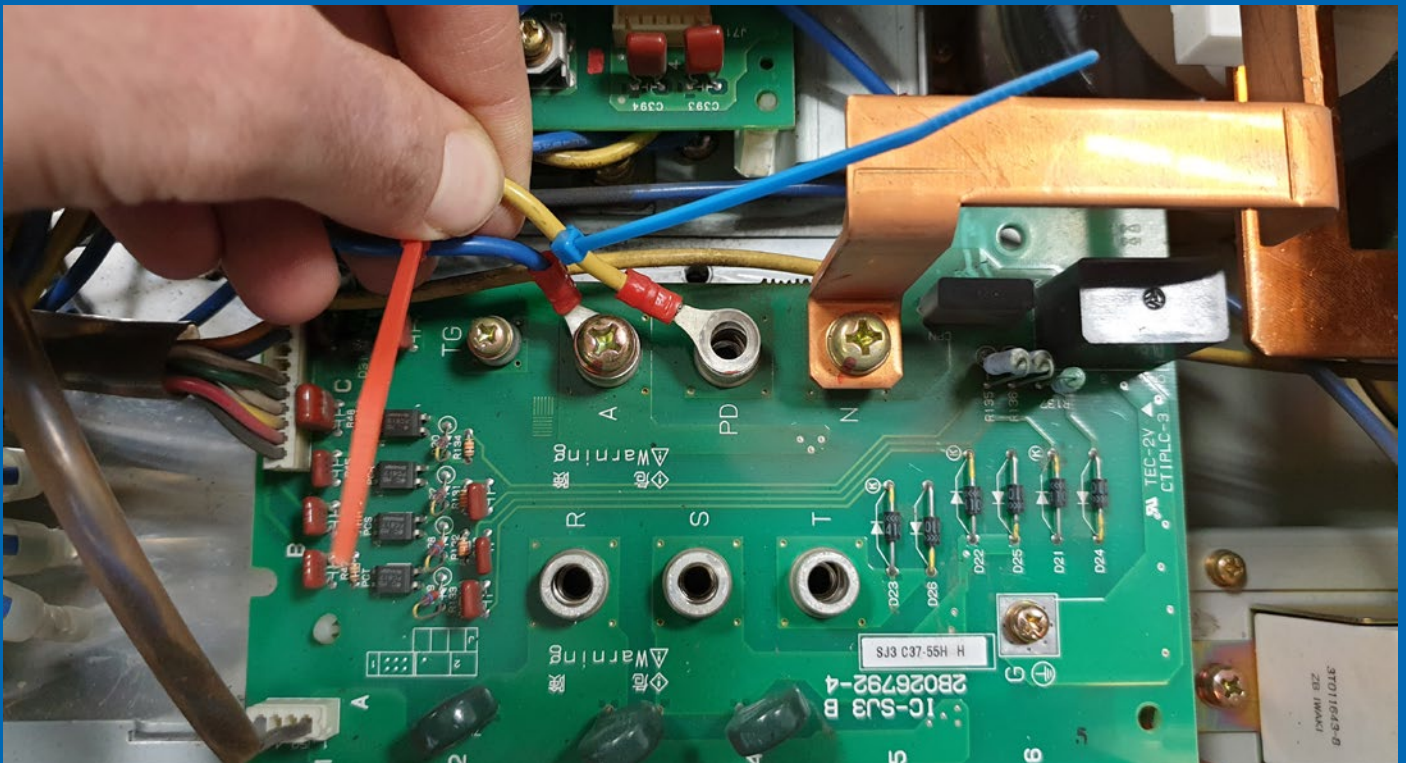


STRONG GUARANTEES

Our warranty is based on an exclusive testing process that every unit must pass.

Our method does not just solve the fault: it optimises the reliability of each inverter, offering a solution designed to last and promote real operational sustainability.

STI SECONDLIFE: WE GIVE YOUR INVERTER A NEW LIFE FOR A LONG-LASTING INVESTMENT



STI Repair has developed an **exclusive and comprehensive workflow: STI SecondLife.**

A **proven method** that goes beyond repair and regeneration by integrating advanced testing, ISO-certified technical support, and clear, transparent costs.

STI SecondLife offers a reliable, cost-effective experience, with **competitive turnaround times and substantial savings** compared to replacement. Every detail is tailored for maximum efficiency and durability, delivering **custom, sustainable solutions.**

Key benefits of STI SecondLife working system are:



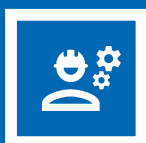
98% REPAIR SUCCESS RATE

Thanks to our proven method, we offer a sustainable and cost-effective repair that avoids complete replacement, **reducing direct and indirect costs** related to downtime.



ADVANCED TESTING LAB

Multi-brand, multi-technology testing ensures full functionality and reliability. Each intervention is backed by a **detailed report**—even for failed repairs. **Disposal options** available on request.



FULL TECHNICAL SUPPORT

A team of **electronics and electromechanical engineers** and **technicians with over 20 years of experience** offers highly qualified and ISO-certified service.



FIXED, TRANSPARENT PRICING

We know how important it is to have clear costs. With our system, **you know the investment required from the outset**, with no surprises or variations.



FAST TURNAROUND

With our repair and remanufacturing system, you get your inverter restored in **just 20-25 days**, allowing your system to be up and running again in a short time. An important advantage, especially when compared to the months-long delays from manufacturers.

NO SURPRISES IN CASE OF NON-REPAIRABILITY

STI Repair scores a 98% repair success rate.

This percentage is so high because we can intervene on nearly all inverter components.

The only exception is damage to the motherboard—the “brain” of the inverter. This issue, which occurs in just 2% of cases, is complex and limits the possibility of repair, so a different approach may be required.



NO CURE, NO PAY
NO REPAIRS, NO COSTS

With STI Repair, if your inverter cannot be repaired, you only pay for transport costs.

No diagnosis or inspection costs.

This transparency lets you explore solutions without financial risk.



EXTENDED WARRANTY, FULL VALUE

When you choose STI SecondLife, you get a warranty coverage that truly matters:

- **12-month** warranty on each repair
- **24-month** warranty on each regeneration

Our warranty covers the entire device — not just the replaced component.

That means less worries and long-term protection—ensuring top performance without compromise.



12-MONTH
WARRANTY ON
EACH REPAIR

24-MONTH
WARRANTY ON
EACH REGENERATION



ISO 9001

CERT. N. Q16317.IT

ISO 14001

CERT. N. A16317.IT

ISO 14001

CERT. N. S16317.IT

DOCUMENTED RELIABILITY FOR EVERY SERVICE

Our **certifications** are a seal of trust, confirming our commitment to quality and safety. Every procedure comply with international standards, ensuring certified, reliable service in line with industry best practices.

OPTIMIZE YOUR PHOTOVOLTAIC SYSTEM WITH STI SECONDLIFE!

Discover how our **proven STI SecondLife method** can help you **cut costs, extend** photovoltaic system **lifespan**, and ensure **consistently high performance**.

Contact us now and turn your investment into a long-term source of efficiency.



STI Repair is a trademark owned by STI S.r.l.

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