



solen
C A B L E

COMPANY PROFILE



2025

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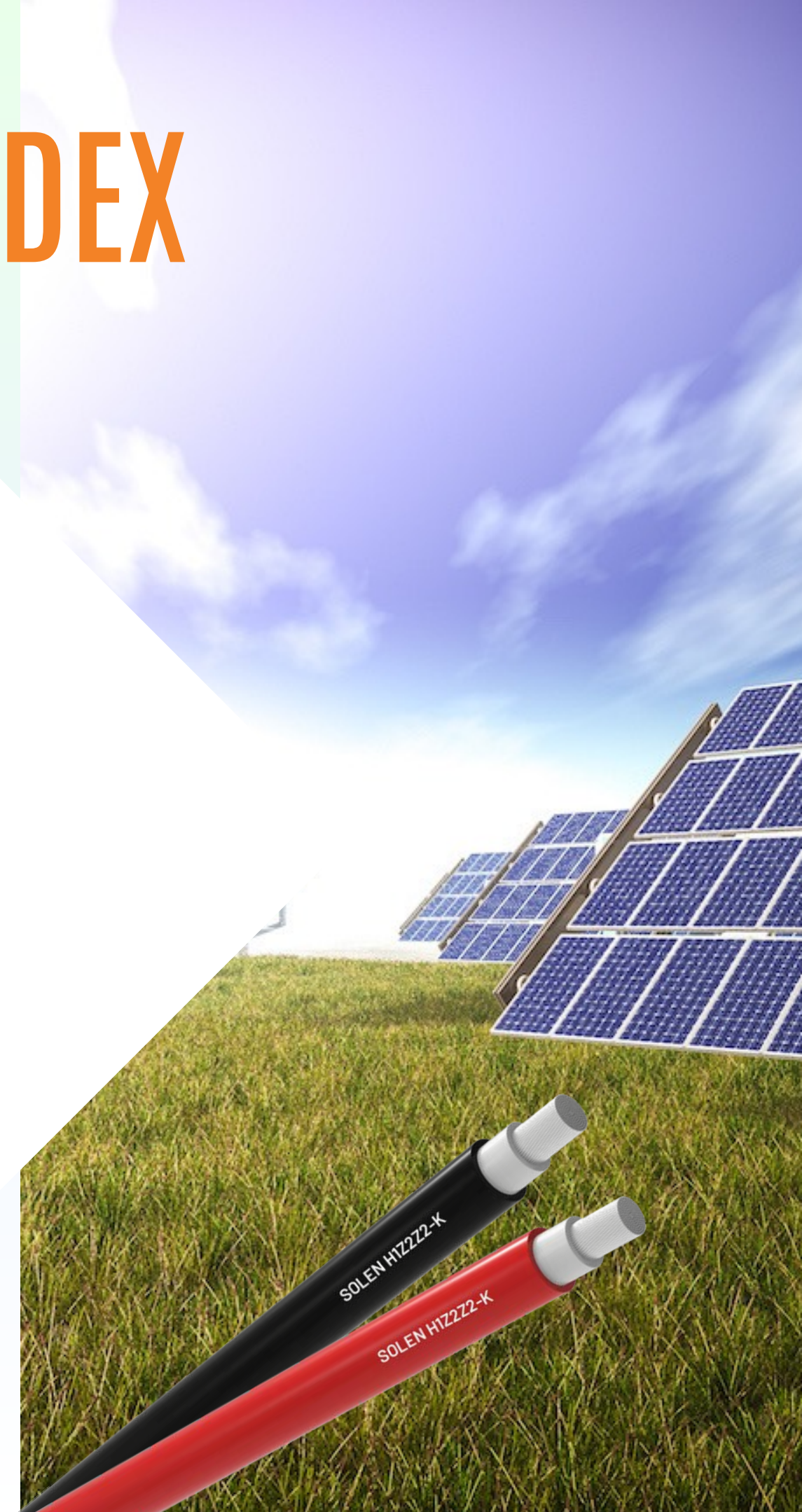
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Who we are?

Solen Kablo, brand new cable manufacturer with comprehensive know-how, is founded in 2021 by very professional team with years of experiences aiming to produce exclusively DC Solar Cables.

Solen Kablo is the first cable factory who has electron-beam facility in Türkiye. Head office located in Karaköy, Istanbul and factory located in Çerkezköy, Tekirdağ that is 45 minutes driving away from Istanbul Airport.



Our Vision & Mission

Company Vision

To realise '**Fast and Quality Approved Delivery**' by applying the principle of '**Do the Correct at the First**', by reaching innovations before competitors and solving problems at every level with a team approach.
By ensuring '**Effective Savings in All Activities**', to provide the most economical products and services to the customer.

Company Mission

To be a worldwide branded manufacturer of DC Solar cables that contribute to the use of renewable energy, with sustainable and environmentally friendly production.

A hand holding a moss-covered globe with a wind turbine and solar panels in the background.

Sustainability

Under our motto **"THE FUTURE IS PROTECTED THROUGH CLEAN PRODUCTION AND SUSTAINABILITY,"** Solen Kablo has embarked on a journey of growth with the aim of minimizing CO2 emissions.

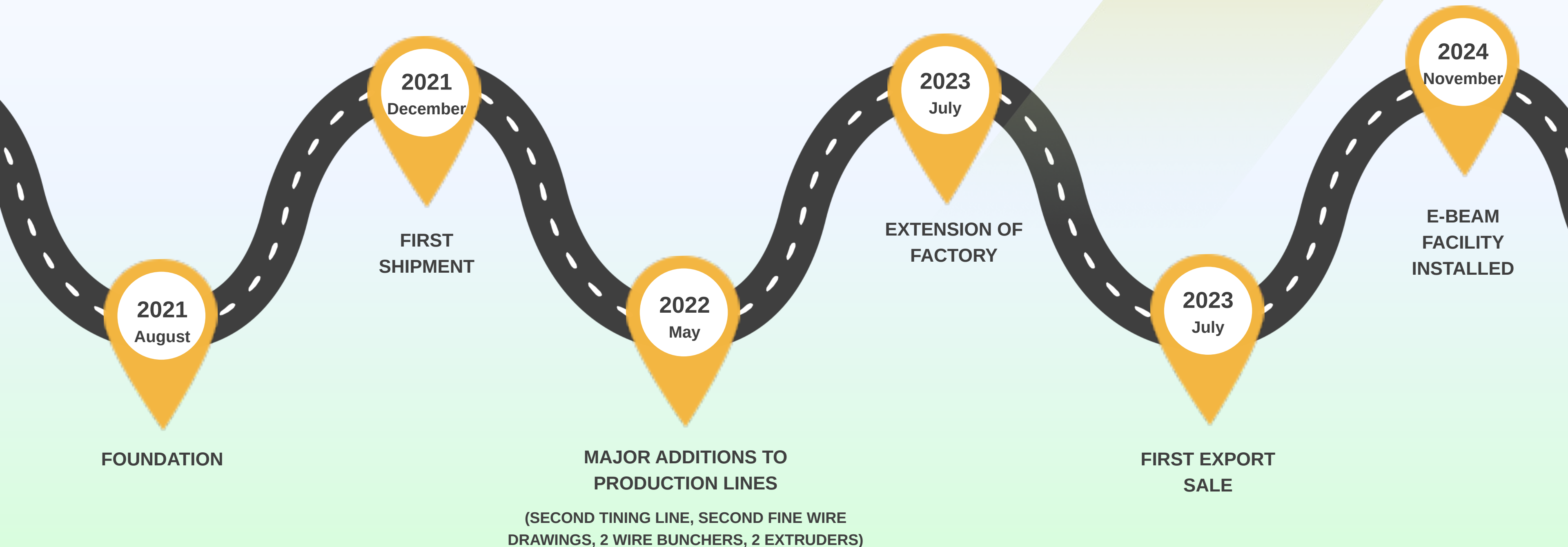
Solen Kablo has been committed to the use of clean energy sources since its foundation.

We have total installed 650 kW green energy (windmill + roof top solar) power capacity. This allowed us app. 77% reduction in CO2 emissions.

Our goal minimizing our carbon footprint and reach net zero emissions by the end of 2040.



Milestones



Manufacturing Plant

Solen state-of-the-art facility is equipped with a wide range of advanced machinery, enabling us to produce high-quality products efficiently

We have advantages of:

- In house copper conductor process utility from Rod wire drawing till final stage of fine wire drawing including tinning.
- 2 MeV Electron beam facility for physical crosslinking of compounds instead of classic chemical process.

Here are some key figures about our factory:



Total Land Scape : 10.000 sqm



Covered Area: 5.000 sqm



Total Work Force: 30 employees



Our Machinery Park and Production Capacity

**MAJOR
MACHINERY**

13

**COPPER
PRODUCTION**

**250 tons
per month**

**CABLE
PRODUCTION**

**5.000 Km
per month**

Electron Beam Accelerator (1)

2MeV, 50 mA, 100 Kw

Rod Drawing Line (1)

Copper Rod drawing from 8,00 mm to 1,80 mm

Tin Coating Lines (2)

Tin coating on 1,8 mm bare copper with min. thickness of 0,3 μm

Automatic Packing Machine (2)

For plywood reels and coils

Multi Wire Drawing Lines (2)

Multi-Wire drawing from 1,80 mm to 0,20 mm up to 16 wires same time

Conductor Bunchers (3)

Bunching not stranded multi-wires to the required cross-section

Coex Extrusion Lines (4)

Coex operation for specially designed Solar Cable production

Cable Winding Line (1)



Our Quality Control Laboratory is equipped to perform all routine and sample tests required for solar cable production according to EN 50618 and IEC 62930 standards.

All our testing equipment undergoes periodic calibration and inspection to ensure accurate and reliable results.

We have a comprehensive range of equipment to ensure the highest quality standards.

Testing and Laboratory

We have a comprehensive range of equipment to ensure the highest quality standards.

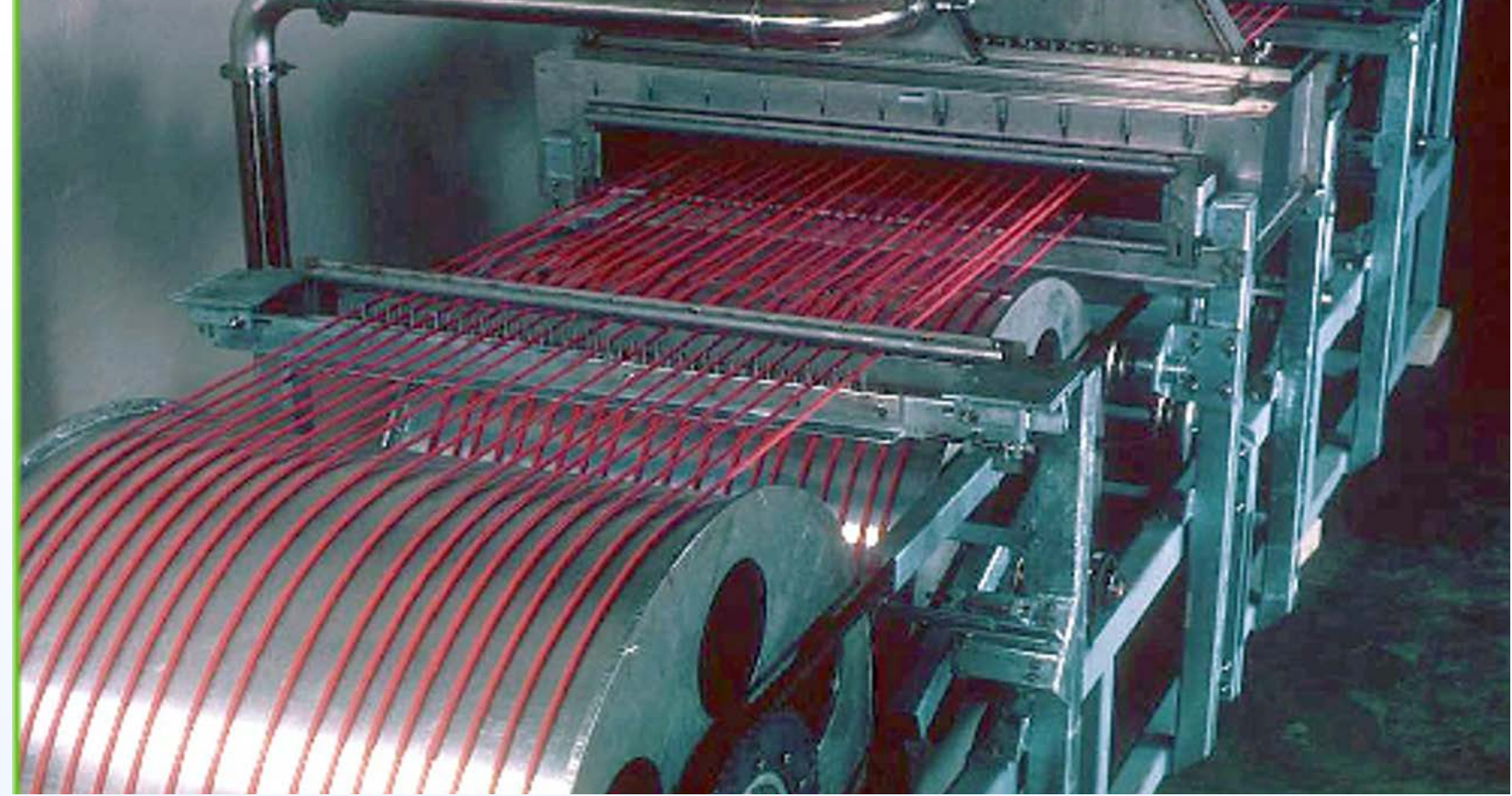
- Conductor Resistance Tester
- High Voltage Test Device
- Spark Testers (on the extrusion lines in production)
- Insulation Resistance Measuring Megger
- Tensile Strength and Elongation at Break Measuring Device
- Tin Thickness Measuring Device
- Computerized Profile Projector for cable Cross-Section control, wall thickness measurement, and concentricity control
- Ovens for Hot Set Test, Shrinkage Test, and Aging Tests
- Freezer for Cold Bending and Cold Impact Tests
- Precision Scale
- Density Measuring Device
- Water Bath
- Vertical Flame Test Device
- AD8 Water immersion resistance measurement tester
- Calipers and Micrometer

E-Beam Crosslinking

Crosslinking is the process of creating strong Carbon – Carbon bondings between the molecules in the polymers used in sheath and insulation of cables.

Crosslinking can be done through both chemical and pyhsical (irradiation) processes. For pyhsical cross linking Electrom beam accelerators have been used.

We have 2MeV e-beam accelerator from one of the reputable brand.



Advantages & Benefits

- Longer Cable **Service Lifetime**
- Higher **Temperature Resistance**
- More **Current Carrying** Capacity
- More **Flame Retardant** and very less dripping in case of fire.
- Higher **Melting points** and Resistance
- More **resistant to Chemicals**, Oils, Acids and Fluids.
- Increased **Tensile Strength**
- More resistant to **Mechanical Forces**, Stress Cracks, Crush resistant
- More **Abrasion Resistance** to prevent Short Circuits
- No Silane, No Peroxide – chemical additives used, this gives **environmentally friendly** characteristics.

Quality System Certificates



ISO 9001 : 2015



ISO 14001 : 2015



ISO 10002 : 2018



ISO 45001 : 2018



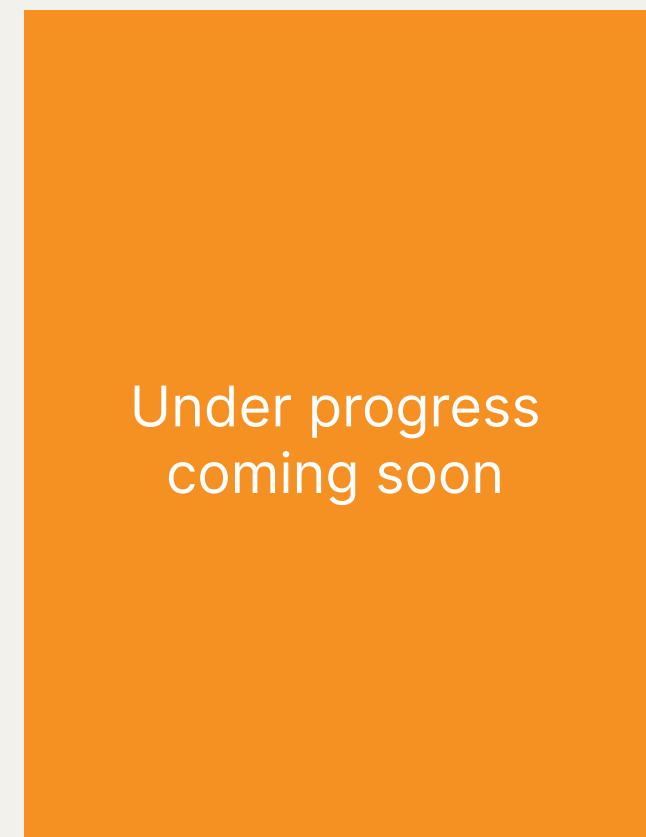
ISO 50001 : 2018

Product Certificates

Our DC Solar cables, certified and approved by;

We also have declarations for ;

- CE & UKCA CPR
- PFAS
- RoHS and Reach
- AD8



TUV NORD

1x1,5 – 1x240 mm²

TUV SÜD

1x4 – 1x6 mm² – 1x10 mm²

TUV RHEILAND

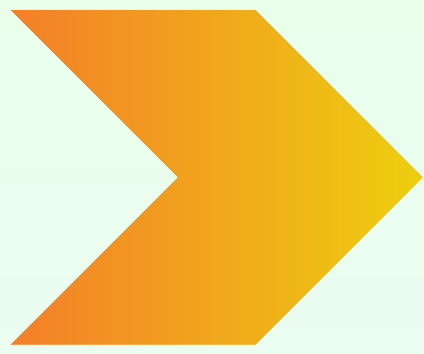
1x4 – 1x25 mm²
for E-beam production.

TUV RHEILAND

1x4 – 1x25 mm²
CB Certificate
for EBXL cables

TSE

1x4 – 1x6 mm² – 1x10 mm²



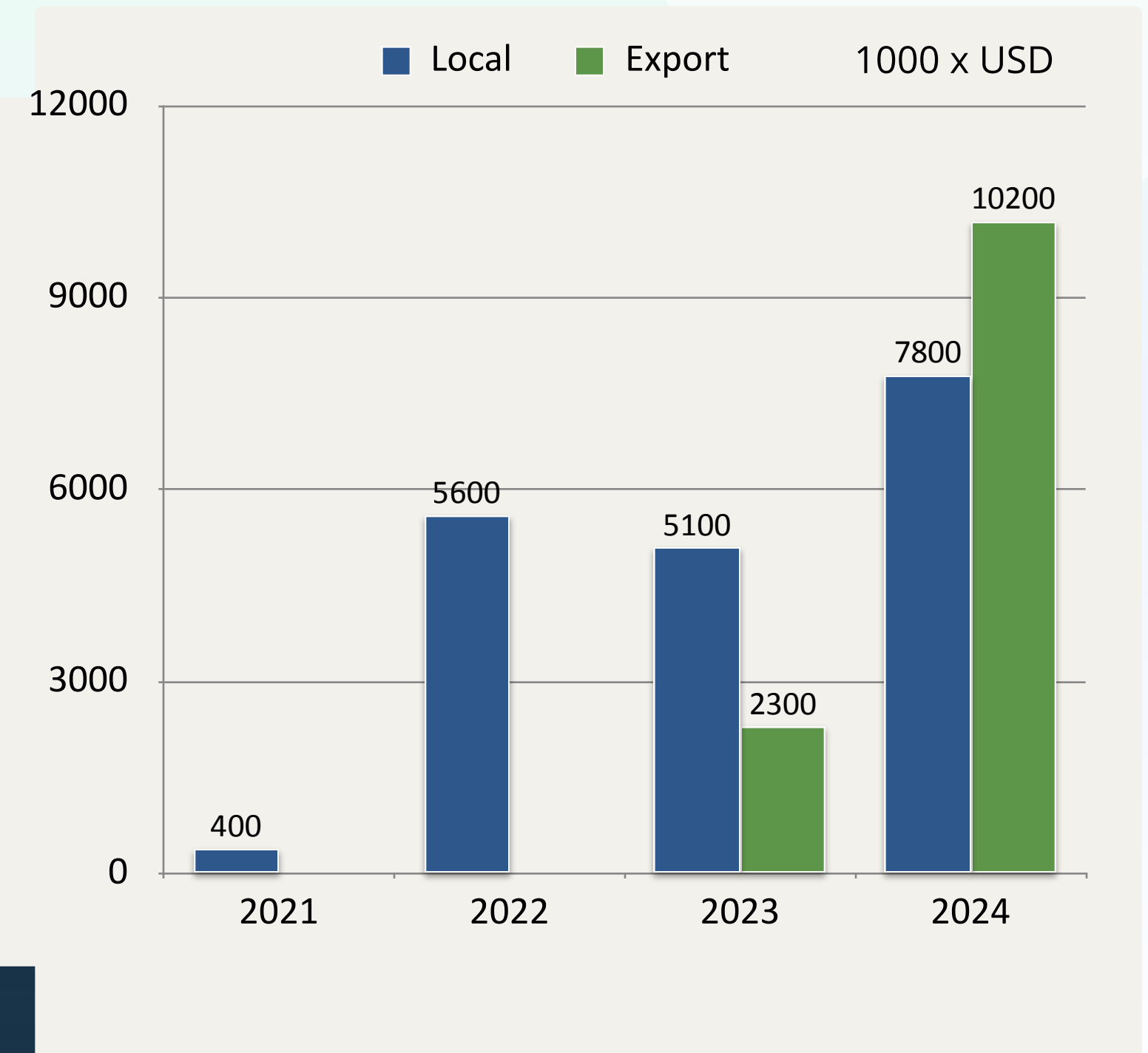
Sales Turnovers

2023

Our sales showed a significant growth during 2021-2024 period.

Solen Kablo started its production by the last quarter of 2021. Today we are major supplier of PV Solar projects in Turkey.

First export sales were done in July 2023 and now reached 26 countries. Our export sales mostly done to European countries. In three years after foundation, we have reached approximately 20 Million USD turnover



Key References

2023

Solen Cable has exported its products to more than 25 countries and working with a diverse range of customers and project partners.

Foreign References

- Sardinia Porto Torres Solar PV Park 42 MW // Italy
- Sabodala Mine Solar-Battery Hybrid Plant (SSP1) 37 MW // Senegal
- Whinfield Solar Farm Plant 33 MW // England
- Sunotec PV Services Their different Projects // Bulgaria
- Renopool Complex - Badajoz Spain 200 MW // Spain
- Montalto Di Castro Solar PV Park 23 MW // Italy
- Helys Solar Power Plant 20 MW // France

Local References

- Doğuş Çay – Karakan Enerji
- Segal Solar
- Özaltın İnşaat
- Cengiz Enerji
- Endüstriyel Elektrik
- Konelsis Enerji
- Insos Enerji
- Mittel Enerji
- Göktekin Enerji
- Orbit Enerji
- Ayenka Enerji
- Renevo Energy
- Ivosis Enerji



Why choose us?

- Young, dynamic, and flexible company.
- Having very professional team with years of experience.
- Producing exclusively Solar Cables
- Keeping huge stock for 4-6-10 mm² DC cables
- EBXL Electron Beam Cables
- AD8 compatibility and direct burial features.
- CPR Dca rating for both CE & UKCA
- Anti Termite & Rodent versions available
- Laser marking on sheath (soon)
- Giving 5 years guarantee
- Having product liability insurance
- Reputable references
- Using always same TUV approved raw materials in production
- Having in house copper rod break down, wire drawing and conductor tinning machines.

We can do together better for greener world.



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C A B L E

Thank You

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