

Funded by the EU Emissions Trading System

DAWN – 200 MW SUSTAINABLE SOLAR PANELS





SVEN LINDSTRÖM Midsummer



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SCALING THIN FILM SOLAR PANEL PRODUCTION

90% lower weight

50% faster installation

Competitive cost & LCOE

90% lower CO₂

No roof penetration







400+ INSTALLATIONS WITH HAPPY CUSTOMERS TO DATE ON midsummer in MULTIPLE TYPES OF BUILDINGS AND ROOF TYPES ACROSS SWEDEN

As well as US, France, Jordan, Spain, Portugal, Finland, etc.



Across entire southern Sweden



WITH ROOFING MATERIAL





All panels UL/IEC certified

Midsummer SLIM Midsummer WAVE



World's first solar panel adapted for roof tiles

Weight <2 kg per solar panel

Midsummer BOLD



For larger facility roofs, particularly with weight limitations

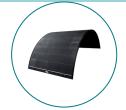
No penetration needed – panels fixed with adhesive

Lightweight 3kg/m² or 5kg/panel



Integrated in tin metal roofs

Panel with a length up to 4 m and possible to serial connect up to 12 m











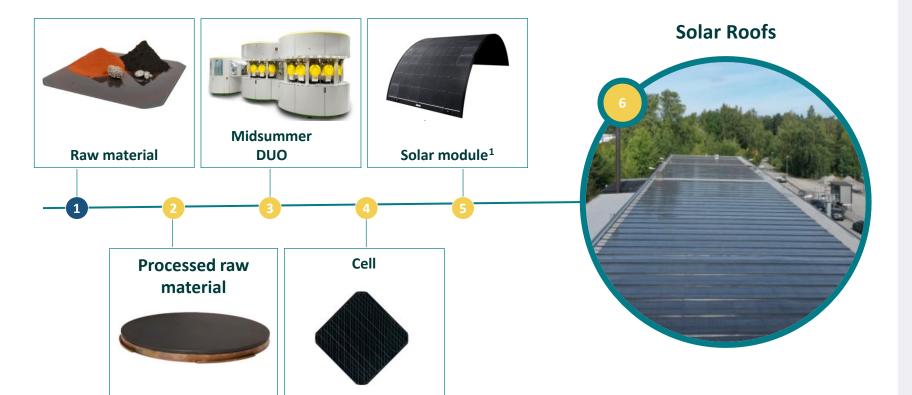




TECHNOLOGY DEVELOPED IN EU-PROJECT HIGHSPEEDCIGS 2006-2008

Midsummer controls the whole value chain from raw-material to finished products







DUO - the leading production system for flexible thin-film solar cells



Patented and produced inhouse by Midsummer



Compact design aimed at high capacity, reliability and excellent materials utilization



70-80% lower energy usage per m² panel produced

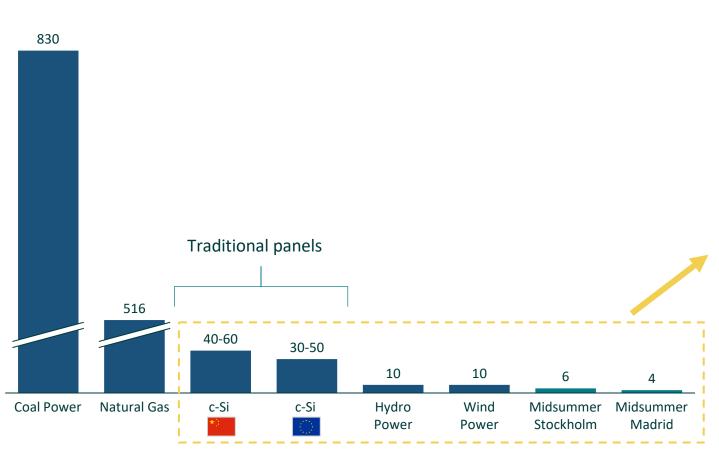


Easy to scale in modular build out and no clean room required

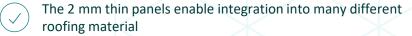
SUSTAINABILITY: SOLAR PANELS WITH ULTRA-LOW CARBON FOOTPRINT AT ~90% LOWER LIFE CYCLE CO₂ VS. TRADITIONAL PANELS



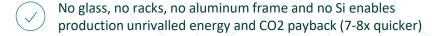
Life cycle CO₂e, g/kWh¹

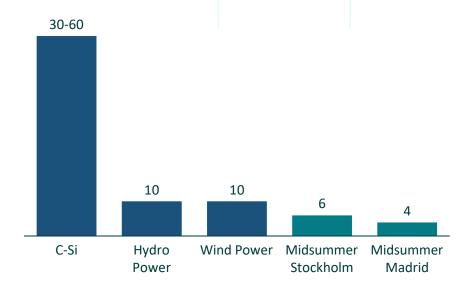












^{..} PV technologies compared under average US irradiation

MARKET: MIDSUMMER'S PROTECTED POCKETS WITH POTENTIAL OF +25 GW PER YEAR BY 2030 FOR C&I INSTALLATIONS IN EUROPE ALONE

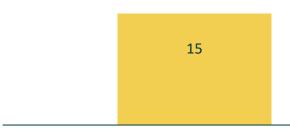






Addressable market potential 2030, C&I, GW/yr

25+ GW/yr potential in protected pockets



Low load bearing

20-80% of existing roofs can not take weight from regular solar panels

Existing captive demand e.g. several 100 MWs of inbounds to France largest roofer, Western company decarbonizing supply chain in third world

Integrated roof retrofit/ new builds

6

New flat roof with solar as one combined product, where leading European roofers have set 20% solar roof adoption as near-term target

Each large roofer installs m2 roof equaling 1-3 GW solar potential per vear

Strong value prop for roofer (growth opportunity) and installers (ease of installation without membrane penetration)

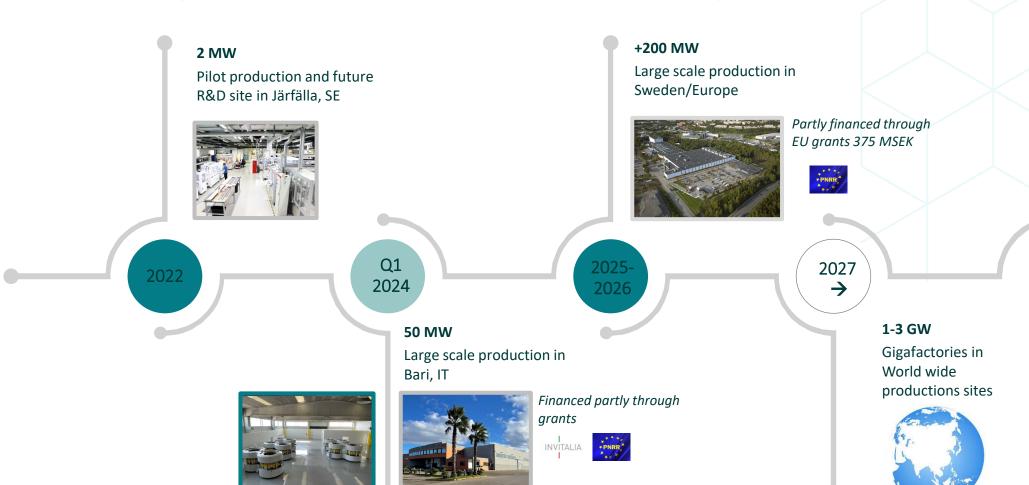
Sustainability

Xinjiang is 45% of polysilicon supply and already banned in US Corporate buyers with policy supporting fair labor and low CO2 products.



VISION TO RAMP UP PRODUCTION TO >1 GW BY 2030

Sweden's first high-volume production factory and the world's largest for flexible solar panels





THANK YOU!



INNOVATION FUND

Funded by the EU Emissions Trading System