



Flexible light-weight CIGS solar module
Innovative low cost manufacturing
World record efficiency technology
Enabling low-cost solar electricity
Multi GW opportunity



Flisom's development timeline for technology transfer to production

Roll-to-Roll manufacturing of high efficiency flexible lightweight solar modules

ETH-Spin-off company
Angel seed investment

1st investment round
Strategic investor: Tata
group company
Innovative manufacturing equipment and processes

2nd investment round
Strategic and Financial investors

3rd investment round !!
Installations at new
production site: Niederhasli



Awards

Cti-start up
ETH Zurich & McKinsey
Venture Award
ZKB-Technopark Pioneer prize

World Economic Forum
RED FERRING 100 WINNER EUROPE
TP
Technology Pioneers 2007

R&D and
Pilot Line on
EMPA campus

Scale-up plan
15 MW capacity
production plant

Module
production
Industrial
scale-up

R&D partnership: **EMPA**

World record efficiency improvements of flexible
CIGS solar cells on plastic in Empa's lab

17.8%

18.7%

20.4%

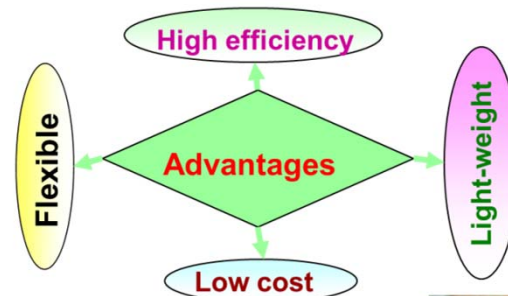




Unique proprietary technology for multi billion euro market

High efficiency flexible CIGS thin film solar modules

Multiple advantages for enabling low cost solar electricity



Lower module cost (€/Wp)

Lower BOS cost (€/Wp)

Lower cost of fully installed systems

Special advantages for roofs in buildings



Global PV market for buildings to grow from 23 GW in 2013 to 35 GW by 2018 and an additional huge untapped market for Flisom's solar modules



Unique company for low cost and high performance

Lowest production cost potential:

- **Roll-to-roll manufacturing**
- **Compact machine size**
- **High speed processing**
- **Lower energy consumption**

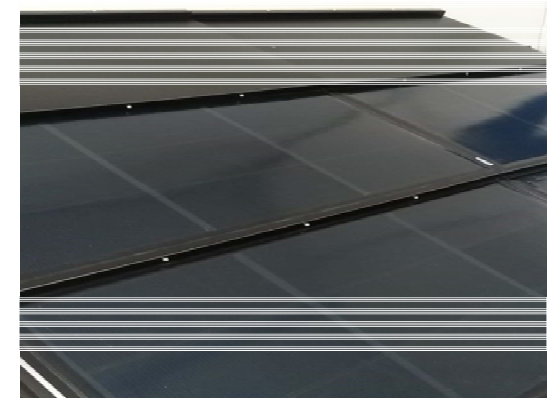
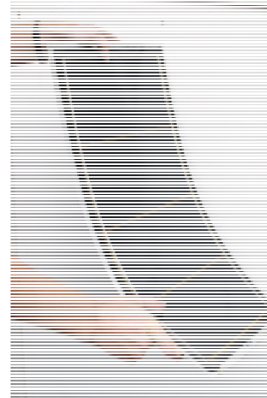
Roll-to-roll coating technology has revolutionised the food packaging industry with very cheap packaging foils

- **Flisom- a unique company in the world - has developed proprietary components and machines with processes for low cost high performance**
- **No company in the world provides manufacturing plant with process know-how for flexible CIGS modules**
- **Flisom has unmatched experience and credibility – team members holding world records and global leadership**





Flisom's solar modules suitable for diverse applications



Roll-able, laminated on metal sheet, bonded on curved metal sheet, solar roof (integrated on metal sheet) for buildings





50 employees, more jobs with growth
Pilot plant in Dübendorf



15 MW plant in Niederhasli