

RENA's PVGlassCoat and PVFlexxCoat

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Optimized Inline CBD processes for CdS layers on glass and flexibles RENA's PVGlassCoat and PVFlexxCoat, the low COO solutions

RENA now offers high throughput inline solutions for the CdS deposition with excellent layer quality on glass and flexible substrates. Compared to state of the art batch processes, the RENA solutions offer:

- higher throughput
- significant smaller footprint
- significant lower Total Cost of Ownership

PVGlassCoat

RENA, with its patented Chemical Bath Deposition (CBD) technology is able to coat up to 1200 mm width substrates with a cycle time of 60 sec.

Glass substrates are coated upside down by external heating of the substrates and transporting them above the surface of the chemical bath, generating smooth, homogeneous and pinhole free layers. Applications are running with a homogeneity of 5 %. The footprint of a PVGlassCoat for a 10 MW/year application is 12,000 x 3,000 mm² for a 60 MW/year 17,000 x 3,500 mm².

PVFlexxCoat

For flexible substrates RENA's Coating tool has successfully passed the phase of pilot production and was enhanced to series production with line speeds of up to 1.25 m/min. Flexible substrates are transported over a heated profile with the chemical solution on top. Due to its modular design, PVFlexxCoat can be adapted to different production capacities. E.g. the footprint of a PVFlexxCoat for a 20 MW / year application is 11,300 x 3,000 mm².

RENA is able to deliver the complete layer coating line, starting with DI water supply, using the CBD coating process and ending with waste water treatment and exhaust cleaning.

Market Introduction: July 2009

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