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Author(s): P. Stassen – TPS

Reviewed by: WP1 Leader – P. Stassen – TPS
Approved by: Coordinator – Paul Stassen – TPS

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Technical coordination: TULiPPS (www.tulipps.com) (NL)
Project management: TULiPPS / Uniresearch (www.uniresearch.com) (NL)



EXECUTIVE SUMMARY

TULiPPS is an R&D company actively pursuing intellectual property and know-how in the area of Photovoltaic (PV)-module technology and innovative bill of material solutions. Our mission is to deliver the most cost-effective, and dimensionally versatile, PV function-integrated building envelope.

We make it possible to change solar modules into function-integrated building products to achieve a cost-effective energy-generating building skin for complete roofing and cladding applications. Our “Click-&-Go” lightweight building-integrated-(BI)PV systems can compete with traditional low-cost framed PV module systems in residential and commercial applications. Our patented COSMOS® building skin, with or without PV, fits on any building and achieves great aesthetics.

We aim to set new benchmarks in terms of cost efficiency and versatility, outperforming the system costs of traditional framed PV modules in residential applications. Moreover, the COSMOS building skin without PV can compete (in terms of costs and aesthetics) with traditional building skin materials e.g. concrete, dimensional stone, brick, stucco, wood or vinyl siding, etc.; when combined with the optional PV function, it is a perfect solution for architects who need to fulfil the increasing Energy Performance Coefficient EPC requirements at the lowest possible cost while still permitting an individualized (creative) building skin appearance.

In cooperation with our partners, TULiPPS will supply its module technology to module producers, or license the manufacturing of module components to third parties. Such a strategy is best suited for TULiPPS, for achieving: 1) technology adoption, 2) economies of scale, 3) rapid market penetration in different geographical areas and at the same time deal with fragmented and diverse building and construction markets. Our long-term business model will utilize a competitive pricing model in order to accomplish high-volume sales and a low-cost base in general. However, in the beginning, due to the unique range of product features, we will be well positioned to start off with a higher-price/more-niche strategy.

Our customers, module producers, are interested in our module technology (platform) because it will enable them to expand and differentiate their (BI)PV product range with relatively limited changes to their existing production lines, thus with limited investment. The COSMOS technology is future proof because it can be utilized in single layer laminated, as well as glass/glass PV modules, in combination with all silicon and thin-film cell technologies.

TULiPPS does not want to compete with its customers by having its own PV module production or by selling finished PV products to end markets (except for demonstration projects). All manufacturing activities will be outsourced to our OEM manufacturing partners.

Strategic alliances and joint-commercial cooperation with our industry partners, OEM manufacturers-suppliers, and knowledge institutes are an essential element of our business strategy.

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http://cordis.europa.eu/fp7/cooperation/home_en.html

<http://ec.europa.eu>

Project participants:

TPS | TULIPPS B.V. (NL)
FTG | FemtoGrid Energy Solutions B.V. (NL)
Fh-ICT | Fraunhofer-gesellschaft zur foerderung der angewandten forschung E.V. (DLD)
IBC NL | IBC Solar B.V. (NL)
KIWA | KIWA Italia SPA (IT)
ET | Eurotron B.V. (NL)
TEC | Tyco Electronics B.V. (NL)
UNR | Uniresearch B.V. (NL)
YPR | Yparex B.V. (NL)
RTG | Rimas B.V. (NL)

Disclaimer

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