IBChampion, High efficiency IBC cell and module technology in the Netherlands

Publieke samenvatting / Public summary

Aanleiding

The growth of the PV market has been spectacular in the last years. At the same time a significant shift occurred in production location from Europe to Asia while equipment manufacturing has largely remained in Europe. Dutch equipment manufacturers need to realize and maintain a strong position in the Photovoltaic sector.

Doelstelling

The goal of this project is the development of a high-efficiency Interdigitated Back Contact (IBC) solar cel. The targeted efficiency of the cell is 22-23% based on a 6 inch wafer.

Korte omschrijving

In this project the consortium led by Levitech B.V. will develop a high-efficiency Interdigitated Back Contact (IBC) solar cell as a natural up-grade of the n-PASHA solar cell. With this cell, the consortium aims to demonstrate the feasibility of a full-sized module with a 20.5 – 21.5% full-area module efficiency. The project is organised in several work packages (WPs) of which WP 1 and WP2 will be responsible for the main deliverables of cell and module respectively. These WP's will integrate the passivation, doping, metallization and patterning processes developed in the WP 3 to 7.

Resultaat

The project results in a low-cost IBC cell concept based on ECN patents which features wide contact regions for both polarities without loss in cell

Projectinformatie / Project information

Projectnummer / Project number
TEZ0113002
Subsidiebedrag / Grant amount
€ 1.339.311,00

Algemene informatie / General information

Penvoerder / Secretariat
Levitech B.V.

Publicaties en materialen / Publications and attachments

- **09.11.2017**

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performance and therefore making easy module integration possible. The result will be achieved with a process that only adds 1 to 4 extra steps to the already commercialized n-PASHA process.

De data in deze applicatie is afkomstig van de Rijksdienst voor Ondernemend Nederland (RVO) en wordt in samenwerking met de Topsector Energie ontsloten.
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