

Unravelling the defects grown during the processing of state-of-the-art silicon solar cells to ensure high quality and high efficiency.

Competitive advantage

- World-leaders in unravelling the physics of defects in high-efficiency devices
- Successfully developed a wide range of processes to remove defects in solar cells and improve their efficiency
- Processes that are tailored to the specific needs of the industry, and the wafers and ingots they use

Impact

 Improving the efficiency of silicon solar cells by identifying defects and developing processes to reduce them.

Successful applications

- · Ring defect removals
- Metals gettering
- · Defect hydrogenation
- · Defect dissolution

Capabilities and facilities

- · Tabula rasa, oxygen precipitates dissolution
- Defect thermal deactivation
- Advanced intrinsic and extrinsic gettering
- Vacancy-defect dissociation
- Hydrogenation processes

Our partners

• Industry leaders in monocrystalline silicon solar cell fabrication

More Information

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