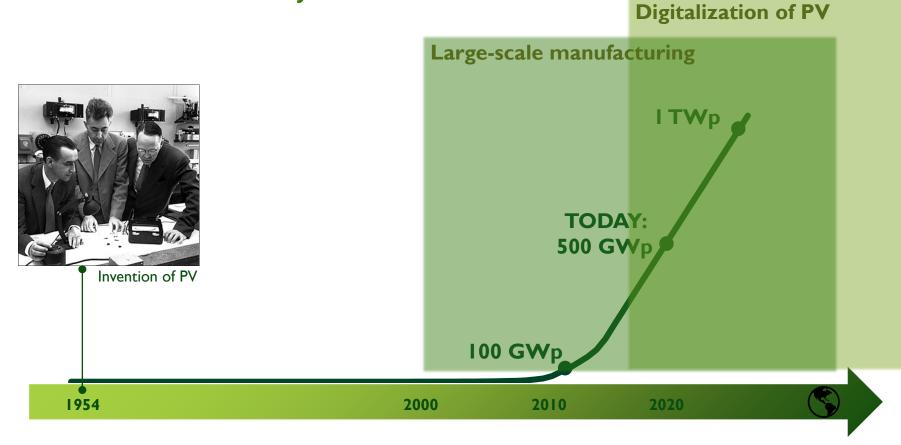


### PV IS BECOMING A MAJOR ENERGY SOURCE









Start of PV at imec

Opening of PhotoVoltech

Opening of EnergyVille

1984

1989

1999

2002

2018

unec

1954

2000

2010

2020



**OPEN.MINDS** 

# IMEC HAS BEEN A PIONEER OF GAME-CHANGING INNOVATIONS IN THE PV SECTOR

# HOW ARE WE CHANGING

THE DIGITALIZATION OF PV?

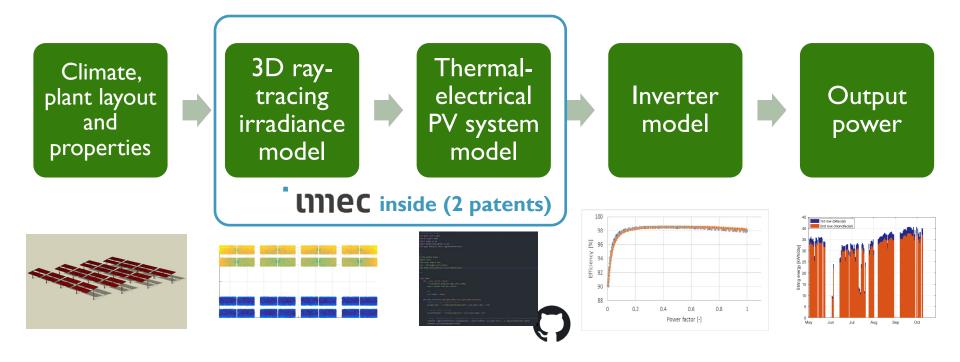


Lowest ever bid (1.78\$c/kWh)

rejected due to uncertain yield

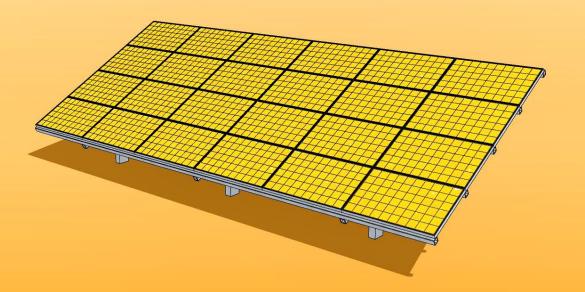
5-10% error in yield estimation

#### PHYSICS-BASED ENERGY YIELD SIMULATION TOOL



— OPEN.MINDS

# UNIQUE RESOLUTION OF SHADING FOR BIFACIAL SYSTEMS

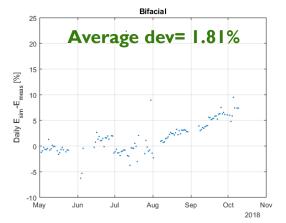


200 5

)

## VALIDATION (I.E. SIMULATION VS. MEASURED DATA)

Commercial PV plants





Utility-scale PV plants





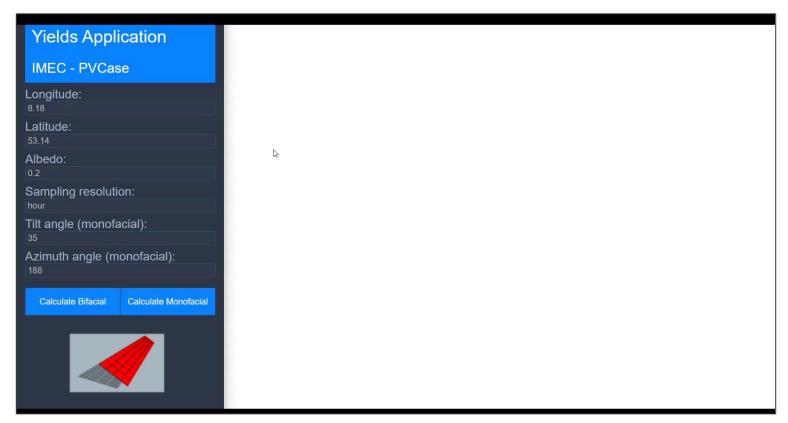


3D pv plant mechanical software design platform



Physics-based yield simulator

#### **OUR MINIMUM VIABLE PRODUCT IS VALIDATED!**





from the EnergyVille Miners;)

