

Potential for hybrid photo-voltaic thermal (PVT) hybrid systems in Southern Africa



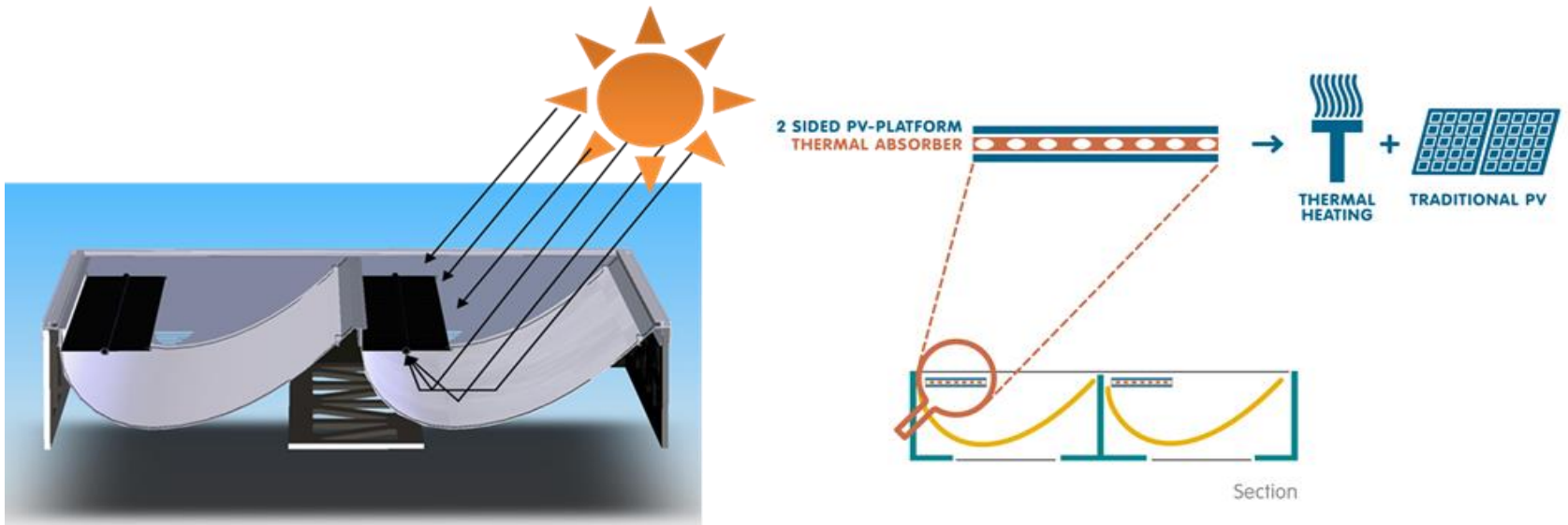
SOLAR ENERGY

1st generation: Thermal (heat)

2nd : Photo-voltaic (electricity)

3rd : Both heat and electricity (hybrid)

➡ higher yield per m²



HEAT

Underestimated need, underestimated resource

Local heat generation – Domestic Hot Water (28 M geysers)

Replace load on electricity system



STORAGE

Heat (water tanks) and electricity (batteries)

Equalize and increase useful yield

Stand alone capability (power-outs, off-grid)



APPLICATIONS

Geyser replacement package

Industrial low temp needs (eg food & agriculture)

Cool container (stand alone)

Solar farms for desalination, water treatment



BUSINESS and FINANCING

Local business - assembly, installation

Local job creation

Integrate in large scale housing developments

Lease financing of geyser replacement package

Pay per electricity replaced – Be Your Own Energy Company

