

Innovative solar module frame made from a single metal sheet



enhanced module stiffness
enables thinner solar glass ~2 mm

lower carbon footprint
-76% compared to Aluminum frame

low production cost

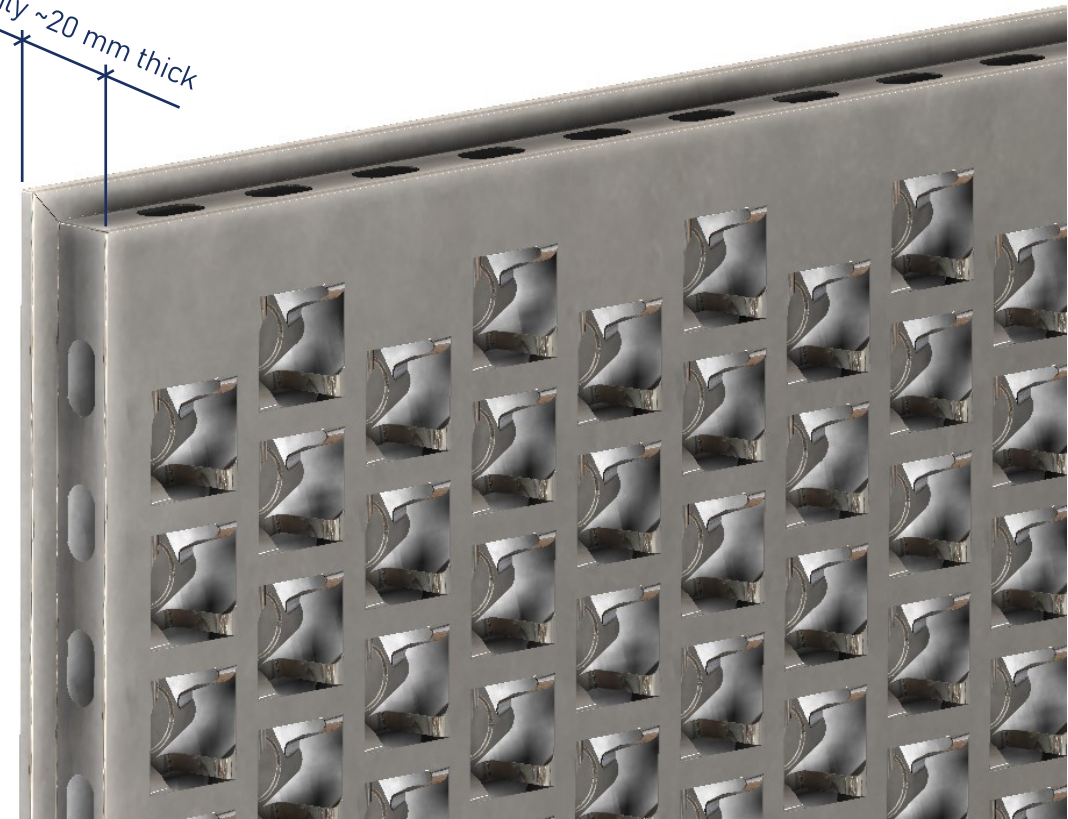
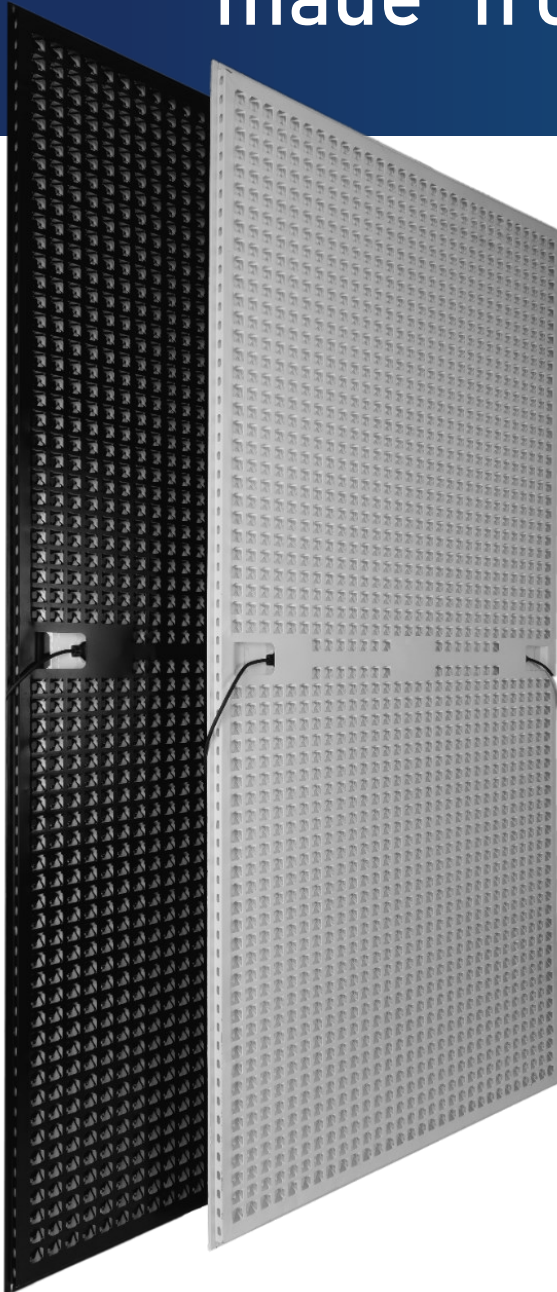
very thin module frame
-30% in logistic costs

only ~20 mm thick

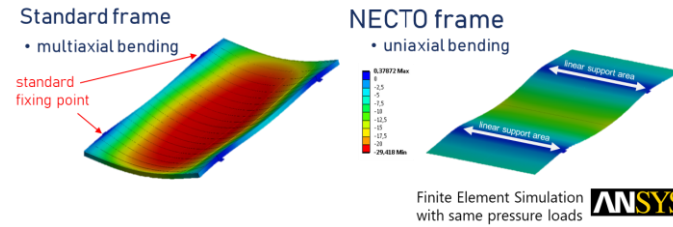
passive module cooling
less degradation
longer module lifetime

BIPV options

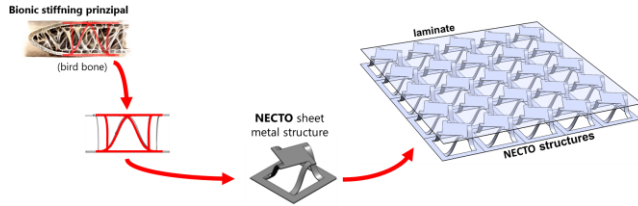
strong IP protection



- provides enhanced module stiffness
 - full area laminate support
 - only mono axial module bending
 - reduced mechanical stress to cells



Innovative sandwich structure



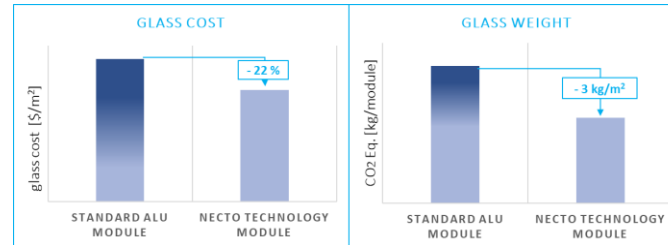
- provides passive module cooling
 - lowers average cell temperatures
 - cuts-off highest values
 - increases energy yield (~2%)

- cooler module → reduced degradation
 - reduces effects like: PID, LeTID, thermo-mechanical stresses, back sheet cracking, delamination,

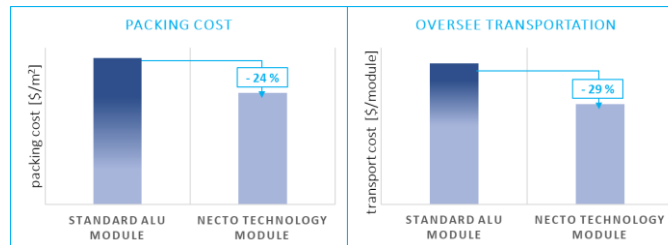
- cooler module → longer module lifetime
 - 5° Celsius reduced operating temperature
 - 50% increase in project lifetime ¹⁾

¹⁾ <https://www.pv-magazine-australia.com/2021/04/26/unsws-prof-martin-green-ups-pv-yield-by-cooling-solar-modules/>

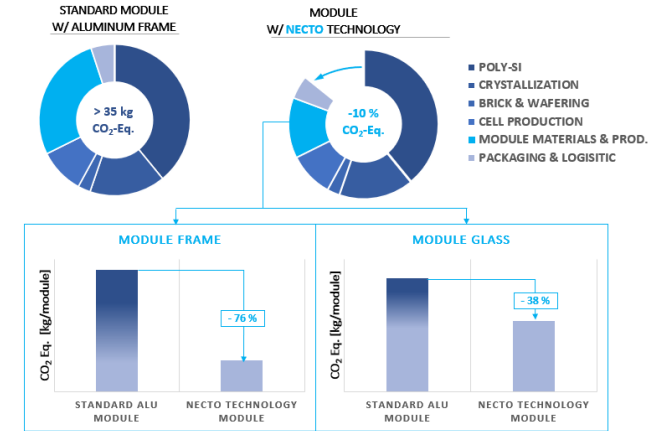
- enables thinner solar glass ~2 mm
 - saves cost and weight



- allows only ~20 mm module thickness
 - saves up to -30% in logistic costs



- lower carbon footprint
 - ¾ CO₂ reduction with NECTO frame
 - -38% CO₂ reduction with thin glass



- Low production cost
 - worldwide available metal sheets used
 - standard punch and bending processes

- Many mounting options

