

Replacing Aluminum PV Frames with Roll-Formed Steel

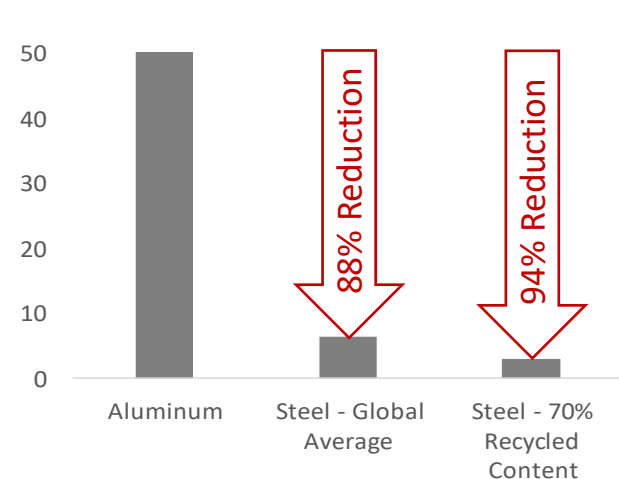
Design – Material – Savings

Since the PV solar industry’s founding 20 years ago, module costs have fallen from \$4/Watt to less than \$0.40/Watt while little innovation has occurred in the module frame. Origami Solar plans to change that with the introduction of roll-formed steel frames. Our frames replace existing aluminum frames that have high costs, extreme GHG content, 100% foreign manufacturing, and little racking integration.

Origami Solar’s frames:

- Achieve \$0.015-\$0.030/Watt of cost savings
- Create a domestic supply chain with US steel + US manufacturing + US jobs
- Integrate installation features to reduce labor and hardware
- Lessen GHG content by up to 10X
- Improve manufacturing efficiency

GHG per frame (kg)



Steel frame undergoing UL and IEC testing

Existing aluminum frames:

- Are 2X more expensive than steel
- Have a high GHG footprint
- Require Chinese material, manufacturing, and supply chain

Steel can transform the solar supply chain through



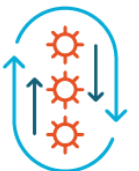
LCOE Reduction



Clean Manufacturing



Job Creation



Vertical Integration

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