

Tonibung embarked on a R&D to find better solution to drying agriculture product. There is an electric powered dehydrator (drier) available which consumes significant amount of power up to 3kwh/day putting heavy pressure on batteries.

The R&D for the solar dryer involves finding cost effective production using suitable materials, achieving better drying capacity and easy deployment to rural areas. This design parameters have resulted in prototype produced at CREATE Borneo.



The prototype adopted from design learnt from SIBAT, Philippines. Used lightweight materials such as Geomembrane and UV Plastics. It also has capability to be connected to ballast load of solar hydro system to utilise excess energy from RE system. Can also be used using electricity (1 kw) should need to operate at night. Thermal insulation improves the heat retention.

Needs: humidity control and food grade metals to produce trays and racks