



HeLaDry

Don't Let Your Harvest Go to Waste.

The Future of Smart Farming is Finally Here.



Sustainable • Efficient • Scalable



The Silent Loss

Did you know that 30–40% of harvest in Sri Lanka is lost before it reaches the consumer?

40% Loss

In districts like Matale, nearly half the tomato harvest is wasted.

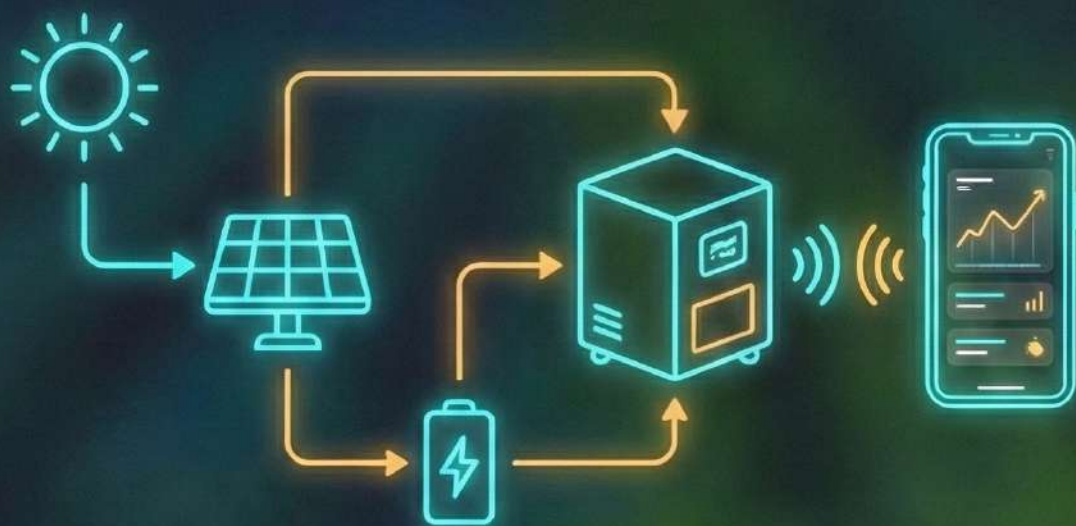
Major Causes:

- ✓ **Unpredictable Weather:** Sudden rains ruin open-air drying.
- ✓ **Market Surplus:** Prices crash during harvest season.
- ✓ **High Costs:** Electric dryers are too expensive.



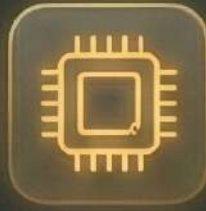
Meet HelaDry

We combine free solar energy with smart IoT technology to give you control over your produce.



How It Works:

- ✓ Runs on solar by day, backup battery by night.
- ✓ Check temperature instantly via the Mobile App.



Under the Hood

- ✓ **Zero Energy Cost:** Powered by 50W–100W Solar Panel.
- ✓ **Real-Time App:** Monitor via Flutter-based dashboard.
- ✓ **Auto-Climate:** DHT22/BME280 sensors maintain precise temp (e.g., 52°C).
- ✓ **Smart Weight:** HX711 load cells alert when dry.

ROI Impact

Turn low-value surplus into premium dried products. Build cost: ~LKR 60k.



Ready to Dry Smart?

Join us in revolutionizing
post-harvest preservation.
Looking for pilot farmers and
investors.

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 IIT, Sri Lanka

Built by Team CS-154

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