YOTTA ENERGY

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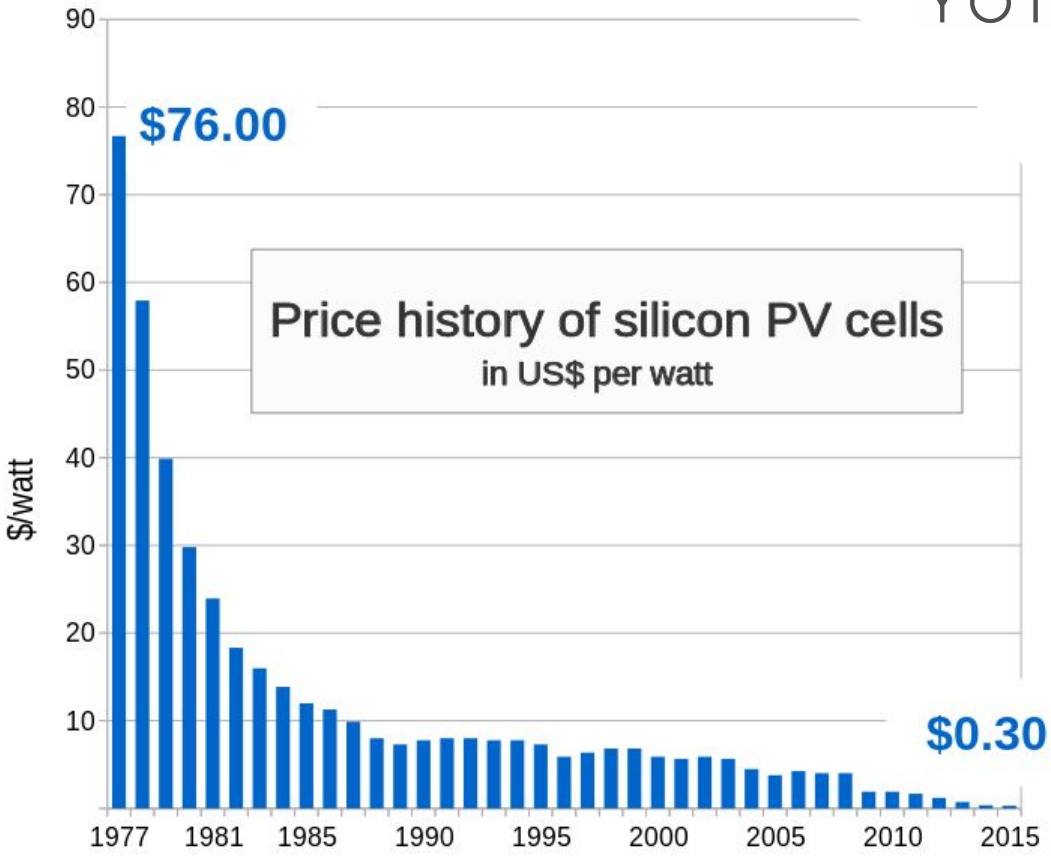

Source: Bloomberg New Energy Finance & pv.energytrend.com

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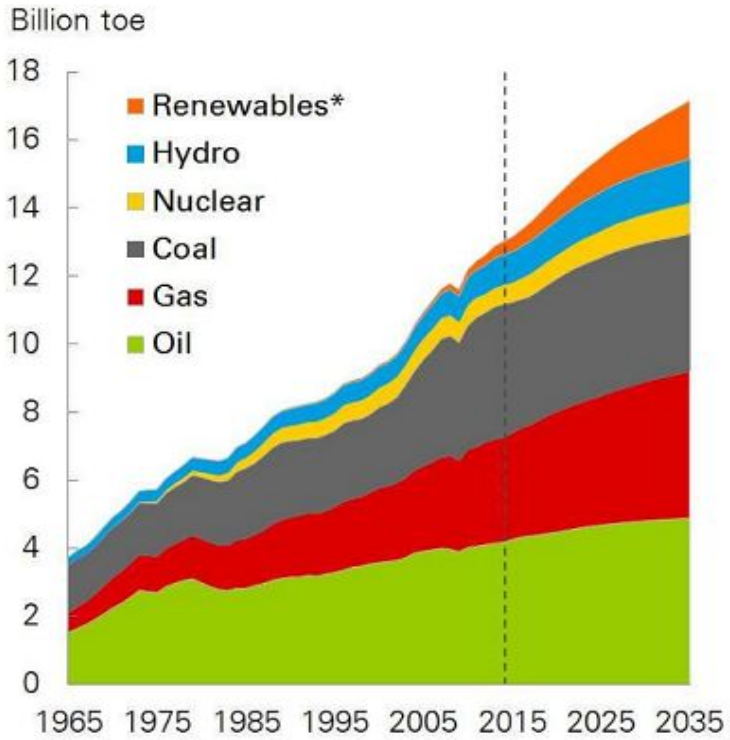
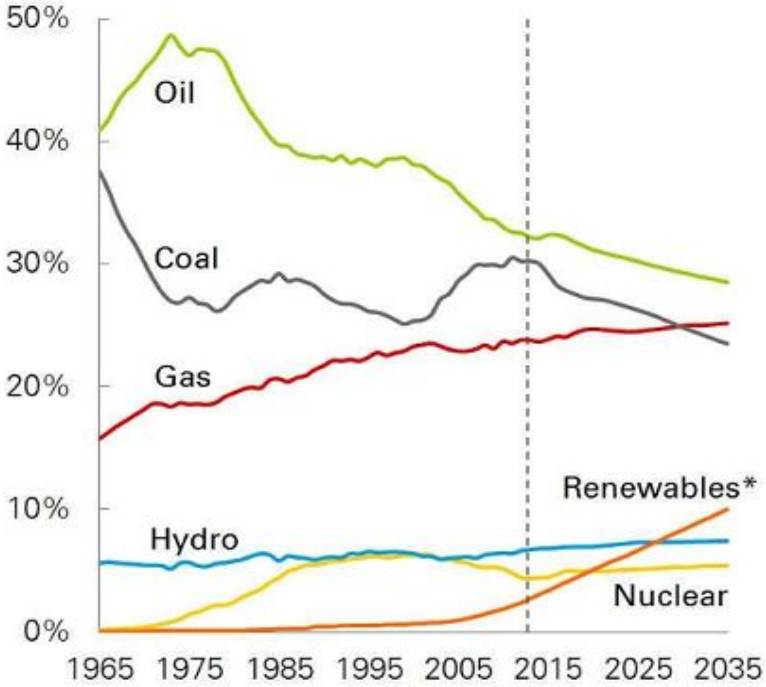
Primary energy consumption by fuel



Shares of primary energy



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*Renewables includes wind, solar, geothermal, biomass, and biofuels

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Growth in Commercial Solar+Storage

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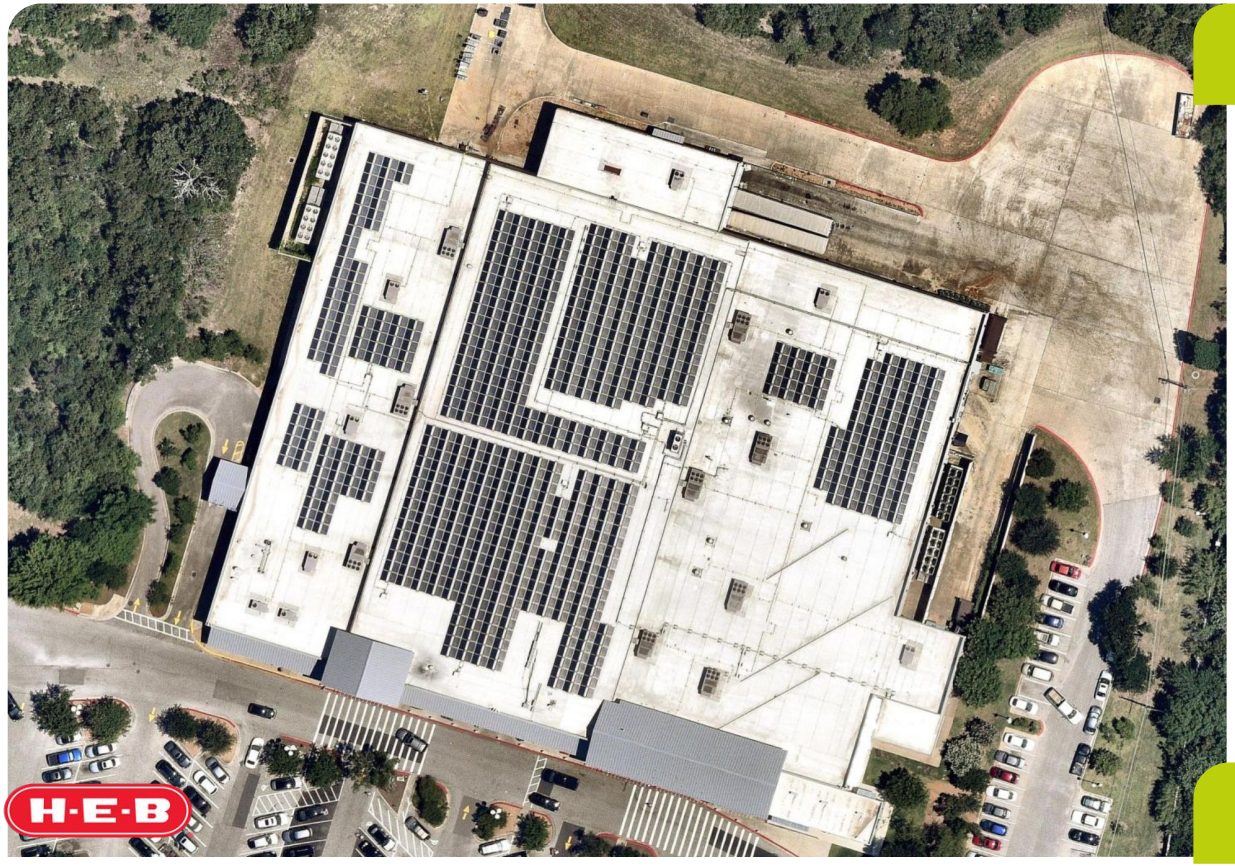

97% of Commercial Roofs available for Solar + Storage

Storage for Building Owner

- Demand Charge Reduction
- Higher kWh offset
- Resiliency ~ Backup Power

For Utility Revenue

- Energy Trading
- Demand Response
- Distribution Deferral
- Peak Power Offset
- Resiliency Services

upto $2 per sq ft Revenue Potential

Market Competition

- Companies are rushing to market with solutions to meet demand, but most miss some part of the solution

Complex

Unsafe

Unreliable

Current solutions are incomplete and the market needs solutions that are optimized to excel in application

Yotta SolarLEAF™: Energy Storage Solution

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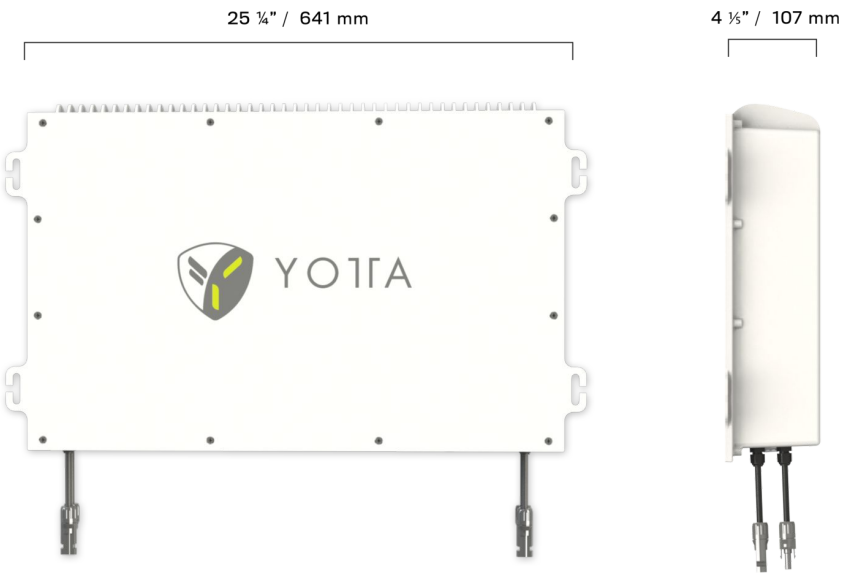

Technology
Modular - PV Integrated rechargeable battery, Lithium Iron-Phosphate with solid-state passive thermal regulation

Capacity
1kWh Nominal Capacity

Mounting Installation
Integrates with Ballast PV Racking and Solar Racking

Enclosure
IP67 Fireproof Enclosure

Warranty
10 Years Standard. Extendable to 20 Years

Certification
Designed UL 1973, UL9540, 9540A Testing

Yotta's unique design passively maintains battery temperature, unlocking a new distributed format which is inexpensive to install and maintenance-free

Benefits of Distributed Storage

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Easier

- *Plug & play*
- *Replaces ballast for net zero installation*
- *Greater than 95% efficiency*
  - *Revolutionary DC power architecture*
  - *No parasitic cooling losses*
- *Cost effective to scale*
- *Easy to retrofit*
- *No additional footprint or permitting*

Safer

- *Intrinsically safe LFP chemistry*
- *Fire safe individual enclosures*
- *No requirement for fire suppression systems*

More Reliable

- *Breakthrough thermal regulation technology*
- *Warrantied for up to 20 years*
- *No single points of failure*

Yotta's distributed energy storage streamlines C&I applications, providing the world's only simple, safe and reliable energy storage solution

Benefits of Distributed Storage

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Superior Cost Efficiency

Commercial Rooftop – Market Study
Shedd Aquarium – Chicago, IL

Current system
- *Solar PV: 264 kW from 900 solar panels*
- *Energy storage: 277 kWh*
- *Occupies 6 parking spots*

Cost of current storage system = $2.2M USD

Yotta's SolarLEAF™ system
- *Energy storage: 300 kWh*
- *70% less installation effort/$$*
- *No trenching*
- *No fire suppression*
- *Avoids separate battery inverter*

Total cost of Yotta's solution = < $500K USD

Yotta's distributed energy storage streamlines C&I applications, saving up to 78% on installation costs over centralized solutions

Benefits of Distributed Storage

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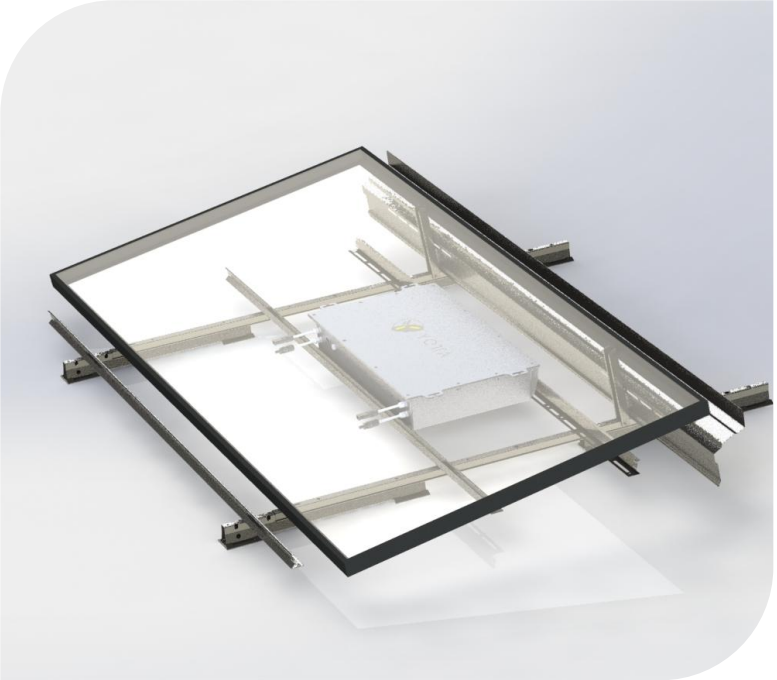

Major Market Enabler

Overcomes all existing barriers to energy storage adoption in commercial markets

- *Installed by the same crew and at the same time as the PV*
- *Requires no additional footprint, permits or outside engineering*
- *Lowest total installed cost on 30kWh to 300kWh projects where centralized solutions cannot pencil out due to project overhead burdens*

The industry now has an easy, cost effective option for energy storage that they can deploy with every project, regardless of load size or application

Yotta's distributed energy storage is revolutionary, breaking down all existing barriers to adoption, making energy storage as easy to deploy as solar

System Overview

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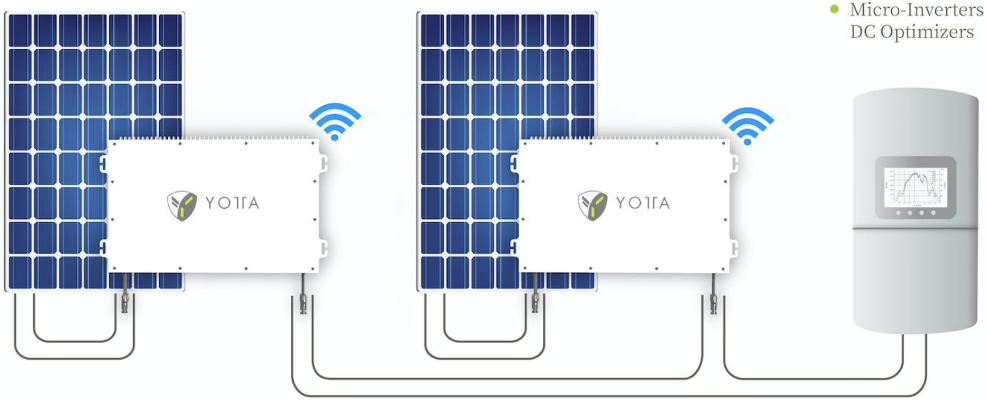
SolarLEAF System

Campatible with:

- 48V Battery Inverter
- Hybrid/String Inverter
- Micro-Inverters & DC Optimizers



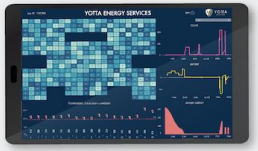
DC Optimized String

Gateway

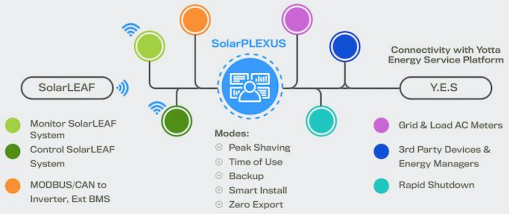
Yotta Energy Service (Y.E.S)

Cloud Platform

Utility Access • VPP Integration • 3rd Party Integration



SolarPLEXUS Gateway



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Traction

"2019 Start-Up of the Year"

Channel / Strategic Partners

Large Customer Interest

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Yotta Pilot Scoping

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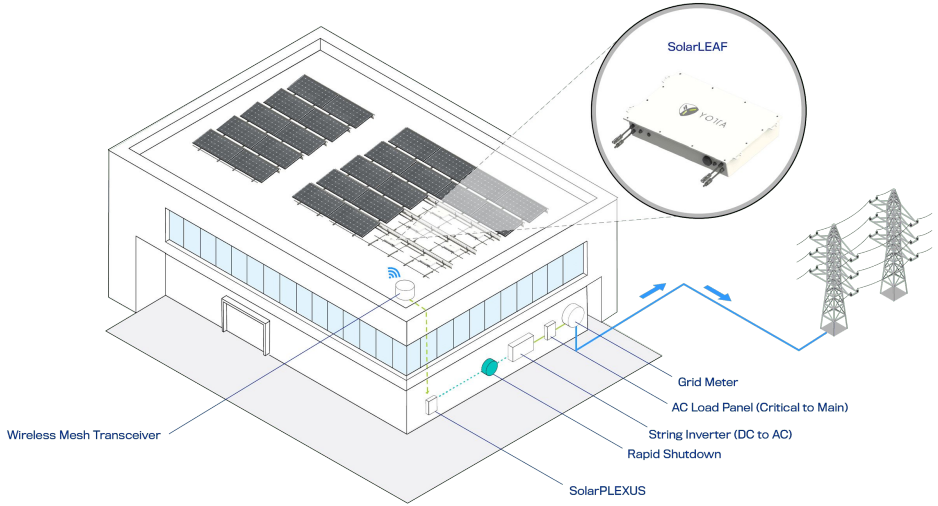

- Projected Cost -

~ $30 - $150K depending on system size.

- Duration

6 - 12 months

- Infrastructure Needs

Flat surface - Preferably a commercial rooftop at a test facility. Can be as little as 125 sq. ft.

- ROI

2-3 years if incorporating ITC and other tax structures.

- Monitoring

Ethernet or Wifi Required. 4G optional

- Benefit

Cutting-edge energy storage solution. P3 program access.

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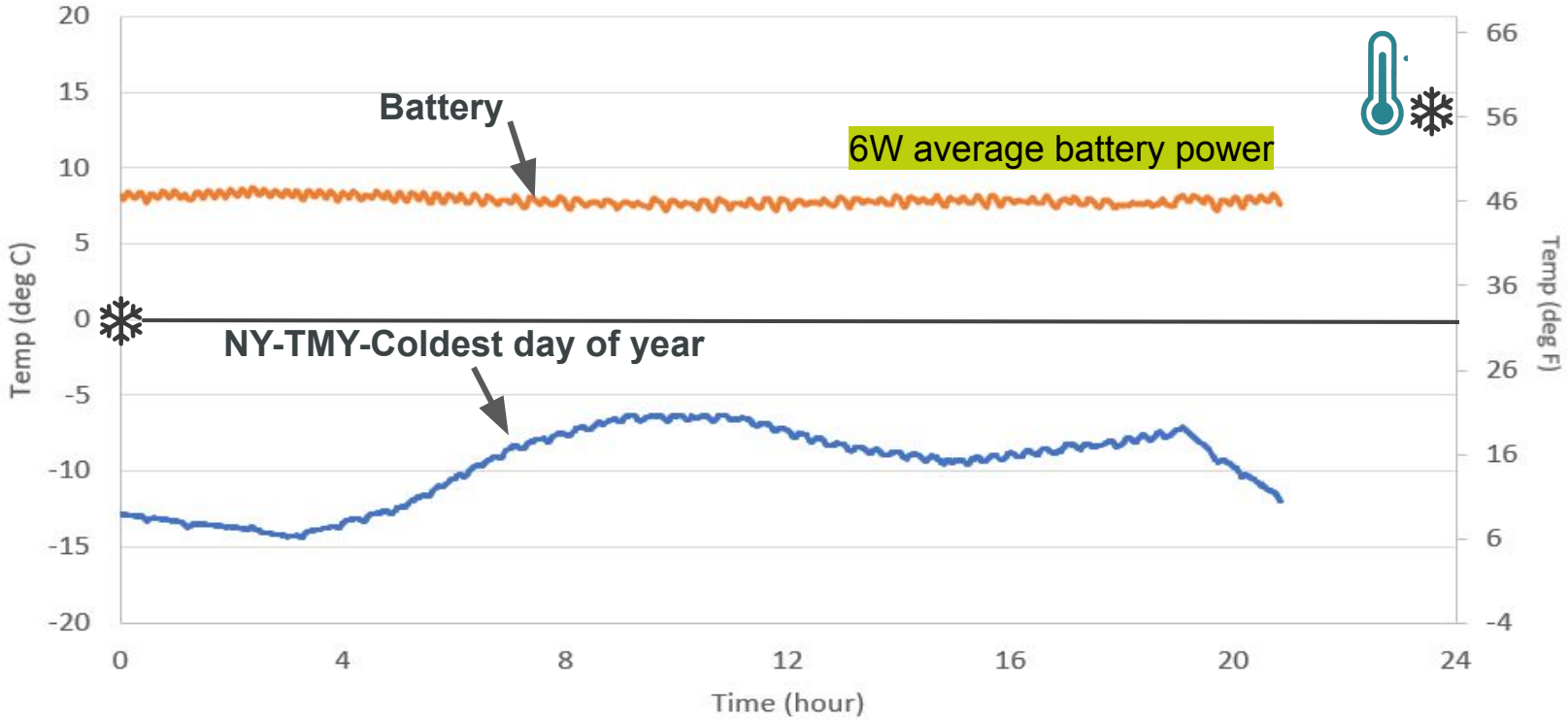
SolarLEAF Thermal Performance (Cold Weather Testing-NY)



Battery kept warm & operational in a cold winter day

SolarLEAF Thermal Performance (Hot Weather Testing)

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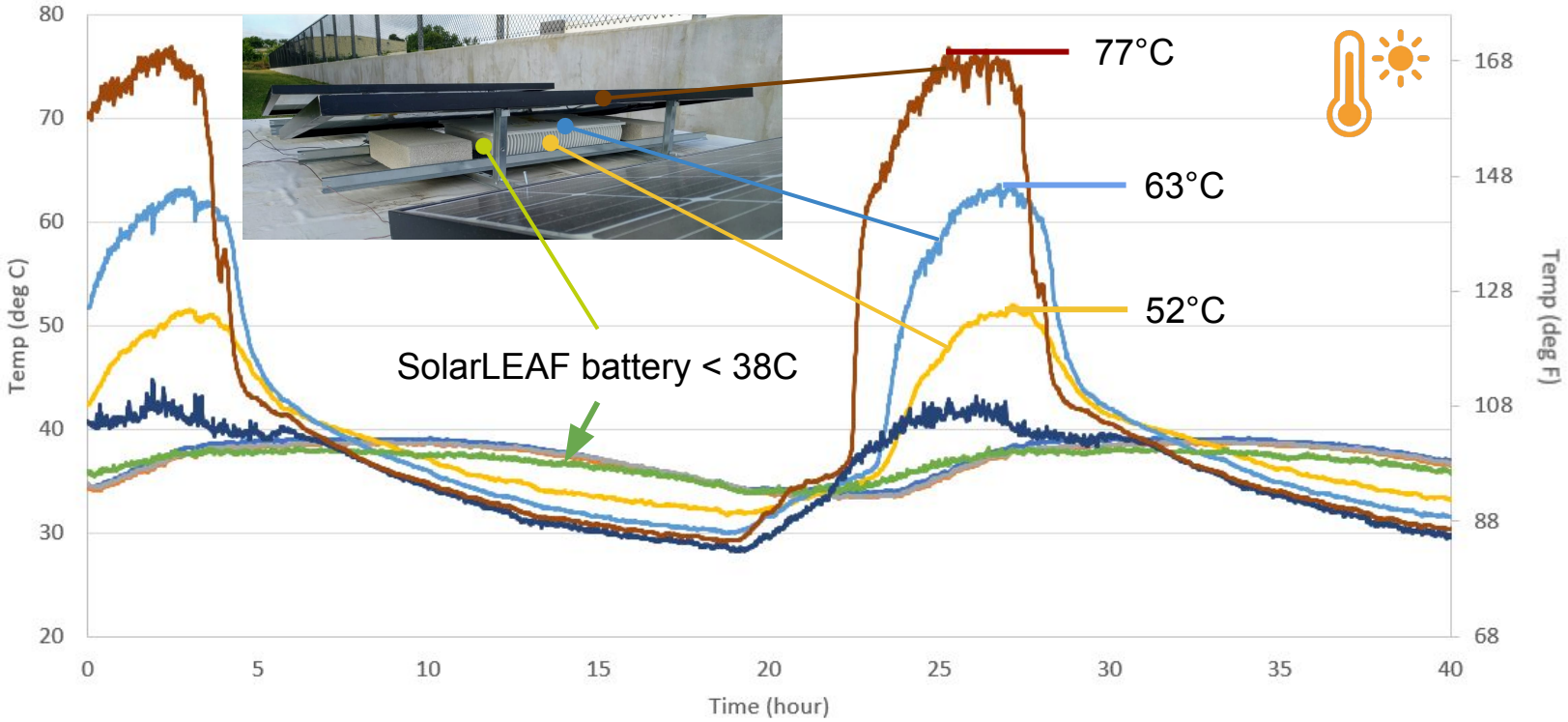

Battery kept near human body temperature during a hot summer day