



Photonique
Energy



BanashRE System
Smiling Against CO2

Battery Refurbishment

and Life Extender





About Us

Photonique Energy emerges as a visionary startup, steered by a technocrat with four decades of industry experience, specializing in energy storage and power solutions. Our collaboration with Banashree Renewable Systems Pvt Ltd through a strategic MoU aims to spearhead the deployment of advanced battery refurbishment technologies across varied sectors. Banashree, an R&D trailblazer, brings to the table cutting-edge innovation and a commitment to new product development, including the Battery refurbishment technology, ensuring that our joint endeavors set new benchmarks in the sustainable energy domain



Meet the Founder

03

Dass Gunalan

As the founder of Photonique Energy, my vision is clear: to lead a green revolution in battery recycling. Leveraging over four decades of industry expertise, we're setting new standards with our innovative, eco-friendly approach. Photonique Energy isn't just a company; it's the future of sustainable technology where we focus on recycling battery using eco friendly methodology. Together, we're forging a cleaner, brighter tomorrow

Problems

01

High Costs - Batteries incur significant capital and operational expenses, posing a financial challenge for users in various sectors.

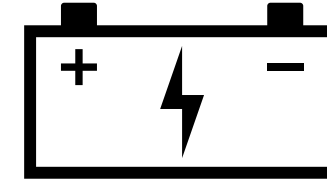
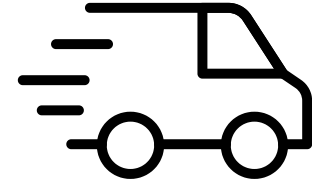
02

Limited Lifespan - Sulphation in lead-acid batteries drastically reduces their lifespan, leading to frequent and costly replacements.

03

Environmental Hazard - Traditional disposal and recycling of lead-acid batteries are environmentally hazardous and inefficient.





How do we fix this ?

Photonique Energy revitalizes lead-acid batteries through a streamlined, eco-friendly three-step process.

Battery Inspection

Our technicians conduct on-site battery assessments, using our 5 step inspection process

Revitalization Cycle

Using advanced PWM charger technology and patented solvent, the battery undergoes a series of charge-discharge cycles to restore its full capacity.

Quality Confirmation

We finalize the process with a thorough performance check, affirming the battery's extended life and reliability, ensuring customer satisfaction.

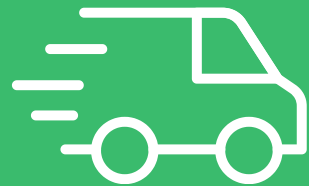
Reduce expenditure on battery replacement by up to 70%



Offers on-site service with trained technicians

Tailor made solutions to individual client needs

Recycling with care



“Enhancing IT Infrastructure with Photonique Energy”

- Our battery life maximization can save up to Rs. 55 Lakhs per MW per annum.
- Annual Maintenance Costs (AMC), electricity, battery replacements, and associated labor and transportation costs contribute to a substantial part of IT companies' OPEX
- Battery refurbishment solution significantly cuts down these expenses, offering a sustainable alternative to traditional battery usage.

55

LAKHS PER MW / ANNUM





3

MIN BATTERIES IN EVERY
ATM



Focus on Banks & ATMs



Photonique
Energy



08

“Powering the Banking Sector with Reliable Energy Solutions”

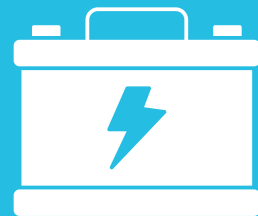
- Banks rely heavily on uninterrupted power for ATMs, demanding reliable and efficient energy solutions.
- There are approx 17,000 ATMs of ICICI bank and 16,000 ATMs belonging to axis bank
- Photonique Energy's mobile refurbishment service offers banks a cost-effective, eco-friendly alternative to frequent battery purchases and disposals.

“ Benefits of Battery Refurbishment for Office Buildings”

- **Enhanced Cost Efficiency** - Refurbishing batteries can reduce operational costs by up to 30%, as compared to the expense of purchasing new batteries.
- **Improved Energy Efficiency** - Energy use can be reduced by 10-40% in office buildings using healthy batteries
- **Supporting Green Building Credentials** - Incorporating refurbished batteries aligns with LEED enhancing a building’s market value

3

YEARS IS THE AVERAGE
LIFE OF A BATTERY



87%

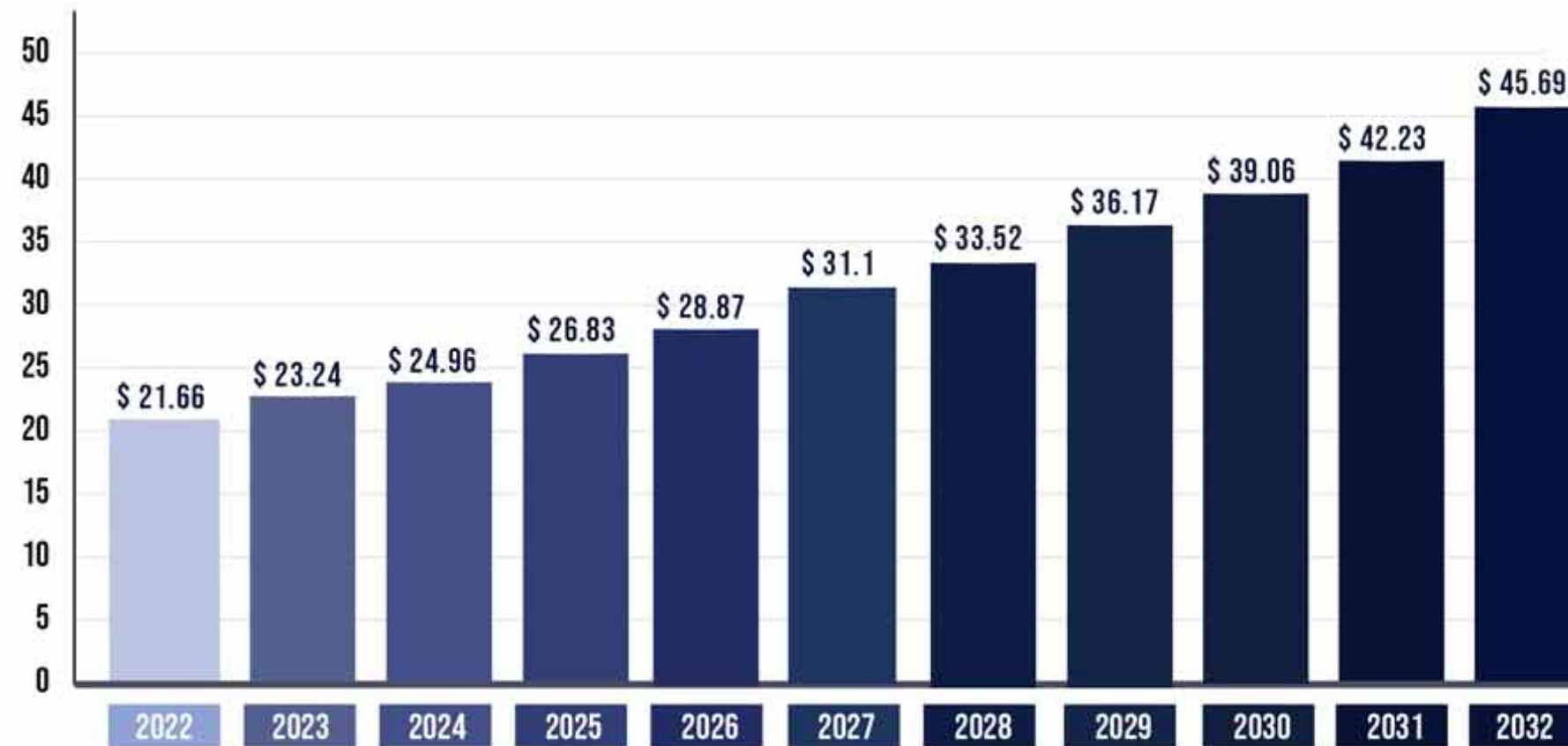
of discarded batteries
can be refurbished

70%

of the cost of a new
battery can be saved by
our customers



ADVANCED LEAD ACID BATTERY MARKET SIZE, 2022 TO 2032 (USD BILLION)



Source: www.precedenceresearch.com

Market Potential

The battery recycling market, valued at \$11.83 billion in 2020, is projected to reach \$18.41 billion by 2027, reflecting a CAGR of 6.3%

Projects Highlight

We have successfully completed numerous refurbishment projects across various sectors, significantly extending battery life and reducing operational costs for our clients. We have also enabled our clients in reducing hazardous waste generation

Training the technician team





Our Clients

We take pride in partnering with a diverse range of esteemed clients who are leaders in their respective industries.





Photonique
Energy



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Contact us if there
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Thank you
for your time!