

## Introduction

### Save Budget

- Extend the battery life
- Cost saving

### Operation Efficiency

- Reduce the shut down time
- BMS(Battery Monitoring System)
- Extend operation hours

### Environment

- Reduce waste
- Reduce CO2 emission

## Our Services

- Battery Performance Test
- Regeneration Service
- Battery Preventive Maintenance
- Battery Information System
- Service All Type of Battery
  - Lead-acid(VRLA, AGM, Gel)
  - Nickel-Cadmium



**PUNAHĀ BATTERY RENESCANCE PVT LTD**

Go Green – Reduce, Reuse, Recycle ♻️



## Regeneration Principle

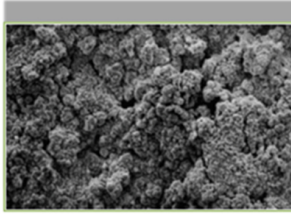
HARD CRYSTALS OF LEAD SULPHATE



REGENERATION



SOFT CONDUCTIVE FORM



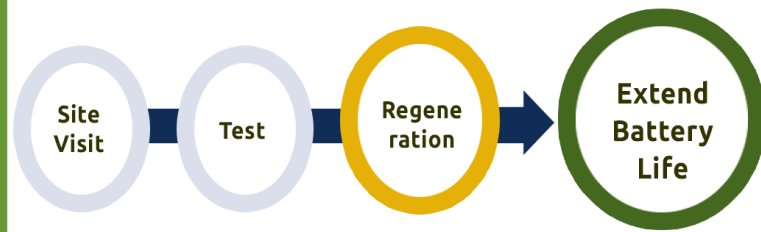
Reason for Short Life Span : Sulphation of the plate

Regeneration : De-sulphation

- Convert the direct current energy into a large amount of micro-pulse energy per second
- Melting the impurities of the electrode surface and supplying electrical energy to the battery.
- By mixing the advantages of the low and high frequency method, achieve and create most efficient regeneration rate



## Service Procedure



01. Site Visit(Battery Collection)
02. Pre Battery Test
  - 1) External Check(Case,Cap)
  - 2) Discharging Test (Battery Analysis)
03. Battery Regeneration
04. Discharging Test (Result Analysis)
05. Clean the battery and Submit Report
06. Delivery to Site

## REGENERATION MACHINE



# Join the Green Movement and salvage your battery through Punaha Battery Regeneration Services

Rather than discharging batteries, ingenious entrepreneurs discovered a business model to give spent batteries a second life.

Batteries are getting better but the longer life span can only be realized by applying moderate charge, preventing harsh discharges and adding regular battery maintenance.

All too often, batteries are replaced as a troubleshooting method. By doing battery maintenance, these batteries can be put back to good use to keep our plant green.

## PUNAHĀ BATTERY RENESCANCE Pvt Ltd

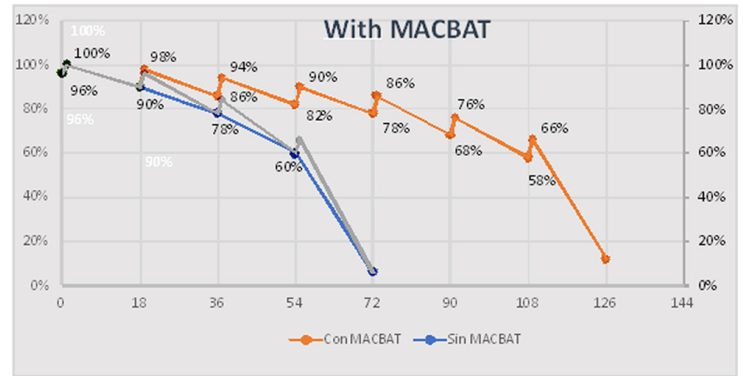
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ONE REGENERATION PROCESS EVERY 18 MONTHS DOUBLES THE LIFE SPAN OF TRACTION BATTERIES



Battery Capacity Evolution

Month	0	1	18	19	36	37	54	55	72	73	90	91	108	109	126
MacBat Process			M1		M2		M3		M4		M5		M6		
Capacity With MacBat	96%	100%	90%	98%	86%	94%	82%	90%	78%	86%	68%	76%	58%	66%	
Cap. Without MacBat	96%	100%	90%		78%		60%								



## Regeneration Technology Application



Forklift



Telecom



UPS



Golf Buggy



Defence



Train



Ship



Solar