

Battery  
REGENERATION  
Project



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or to access this environmentally friendly  
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**marketing@mic.co.tt**



# Battery REGENERATION Project ION HAMMER

PRESENTED BY



INSTITUTE OF TECHNOLOGY

IN COLLABORATION WITH





## About the product

It is a sophisticated portable device that permits the automated regeneration, re-certification and refurbishing of stale dated, used or spent automotive, marine, photo voltaic and backup (e.g. cell tower) batteries via purely electronic means.

The **Ion Hammer**, regenerates spent Used Lead Acid Batteries (ULAB) at a commercially viable rate, optimizing waste resource use while mitigating environmental contamination.

At about 7 Kg and around the size of an automotive SUV battery, it is eminently portable and suitable for use wherever 115/230 VAC is available.

### Its modern features include:

- global online monitoring
- yield tracking
- online diagnostics
- data logging of all battery processing
- remote shutdown capability

The product has been awarded by the Government of the Republic of Trinidad and Tobago (Ideas 2 Innovation 2012), the IPICA-project.eu (2016) and the Caribbean Climate Innovation Center Greentech Accelerator (2017).



## Green & Sustainable Benefits

Regeneration of spent batteries results in almost overnight retailable or re-purposed batteries with consequent reduction in landfill contamination and reduction in re-smelting batteries for carbon footprint mitigation. In T&T alone, up to 20,000 spent ULABs (auto/marine/communications/UPS) are generated each MONTH

As a leased product the user can expect up to a **350%** return on investment per month at full utilization.



## Services offered by MIC-IT

This project is a collaboration between MIC Institute of Technology (MIC-IT) and ProtoFabTT.

With the scope for new product development and deployment of new technology, coupled with MIC-IT's manufacturing and training outcomes, this multiple award-winning project is one example of MIC-IT's thrust for economic diversification, foreign exchange and environmentally sustainable benefits to the nation.

MIC-IT will initially offer service level agreements in a Business to Business (B2B) arrangement for battery regeneration to firms in need of predictive and preventative maintenance for their battery assets.

A limited number of re-branded batteries (eg. from the Roll-on Roll-off market) will be made available for retail to the public, thereby reducing the cost of vehicle operations.

MIC-IT will offer regeneration systems for lease to the local and export market, affording proper technical support for such leased equipment.

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