

## CASE STUDY

### Uninterrupted Power Supply Solution for ATMs with EcoGrid ESS

ACME understood the business needs of our ATM client & worked closely with their IT & Operation Team to find out current challenges. Some of them are listed below & attributes to operational, logistical and uptime related being faced by the client and how these challenges were addressed by incorporating the EcoGrid ESS designed by ACME:

Key Challenges with Client (Technological Limitations)	How EcoGrid Eliminates / Minimizes Challenges	Remark
<b>Conventional UPS &amp; Batteries</b>		
Since ATM should always be working to satisfy the banking needs of visiting customers, the clients was using 1KVA/2KVA UPS with SMF batteries as Back-Up for their sites incase EB is unavailable. In spite of using backup equipment they were not able to keep the site up & running as the technology they used had limitations of slow charging, lesser charge discharge cycles, low operating temperature range.	By using EcoGrid, they could overcome this challenge as LIB has fast charging & deep discharging characteristics. In spite of poor grid availability latest technology could help our client to improve the Uptime.	Enhancement of Uptime from 80% to 99.5% was obtained leading to added transactions, enhanced brand image & satisfied customers.
<b>Operational Challenges</b>		
Due to non-availability of power at regular intervals & technological challenges the following were the concerns that the client was facing: 1. Site getting down repeatedly for which they had to send technician to attend to it. 2. Because of poor grid conditions, the UPS & Battery failure rate was very high which needed repeated technician visit. 3. Logistical issues of carrying spares as SMF batteries are bulky & difficult to carry during replacement.	By incorporating EcoGrid continuous power is ensured for ATM, hence all these challenges were overcome.	Not even a single visit was required during trial period. Savings on Logistics & manpower cost was obtained. This adds to operational efficiencies substantially.
<b>Aesthetics</b>		
The Conventional UPS & Batteries required space & cabling and were not so neat due to grease applied on terminals attracting dust & corrosion.	EcoGrid Solution is compact in size, very neatly arranged giving advantage of Plug & Play approach.	Saved space & looks of site.

Carbon Emissions		
<p>Old Technology used had impact on environment as it emits CO<sub>2</sub>.</p>	<p>By designing integrated system with EcoGrid the bank could claim</p> <ul style="list-style-type: none"> <li>• Surrounding is cleaner and safer.</li> </ul>	<p>Contributes to corporate social responsibility &amp; also enhanced the image of the client as green initiative taker and early adopter of new innovative technology.</p>
Enhanced Business		
<p>With previous conventional solution since uptime was low &amp; operational cost was high the ROI on ATM was low.</p>	<p>With EcoGrid, technological advancement helped the client to enhance Uptime and at the same time reduce the operational cost drastically, making resources available to focus on other challenging areas. All this leads to higher return on investments.</p>	<p>More Business &amp; Delighted customers. In Nut shell EcoGrid syncs well with the client's goals which are listed above for their customers.</p>