



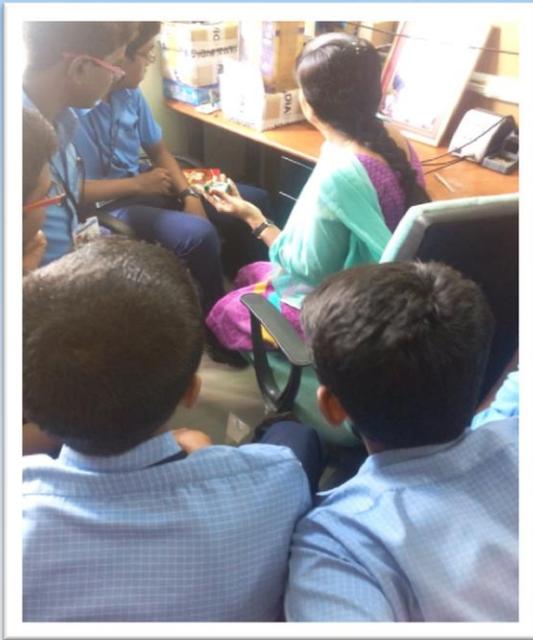
SBOA SCHOOL AND JUNIOR COLLEGE, CHENNAI PRESENTS



ATM AUTO CONTROLLER

TO

ATAL TINKERING LABS INNOVATION
CHALLENGE



CHALLENGE ROUND

CHALLENGES FACED

Power scarcity prevailed throughout Tamil Nadu and most of the districts faced power shutdown for more than 20 hrs.

Increase in Global warming due to release of CFC from the multitude of air conditioners which depletes the Ozone layer.



USAGE OF ATM AUTO CONTROLLER

Will

1. Cut off ACs as and when not required (10pm – 6am) etc.,
2. Alternate switching off, of multiple ACs every 2 hours, 4 hours, 8 hours etc.,
3. ATM Lights are controlled when there is enough lighting(day time cut off etc.,).



PROGRESS

Dr. Arun Raaza, an alumnus of SBOA School, Chairman of “CARS” along with Std IX & XI students have developed **ATM Auto controller device** to conserve electrical energy.

They proposed the concept to State Bank of India officials, Local Head Office, Nungambakkam, Chennai and were allowed to install **two Auto Controller devices** at personal banking SBI ATM, LHO & Shankara Netharalaya ATM as trial run.

Using sub meter the meter reading were taken before and after installation. **Our remarkable finding is that around 5- 8 unit of energy can be saved per day.**



PROGRESS

Following the success of our experiment we were given the opportunity to install 75 more devices in and around Chennai in 60 ATMs as requested by LHO SBI.

After the installation, the power usage came down considerably which resulted in the billing cycle amount being reduced to the range of Rs.4000 in some ATMs to the extent of Rs.25000/- on an average.

SBI has placed 200 more devices seeing this encouraging result.

Patent has been filed.



FUTURE PLAN

Installation of auto controller in all the SBI ATMs i.e., 57091, around 11,30,40,180 kw/h units can be saved per year and approximately 100 crore rupees can be saved using this device.

This device can also be used for Street Light Automation.

