

SUMMARY OF PRESENTATION

CONSERVATION OF POWER IN LIGHTING APPLICATIONS
BY
S. SHAMSER ALI
DEPUTY GENERAL MANAGER - MARKETING

ASIAN ELECTRONICS LIMITED,
VIKRAM STUDIO COMPLEX,
155, ARCOT ROAD,
VADAPALANI, CHENNAI – 600 026.
PH: +91 44 24815938 / 24815942
E-mail: unicos@eth.net

TOWARDS A BRIGHTER FUTURE WITH
ENERGY EFFICIENT
T5
LIGHTING SYSTEM

1. DEVELOPMENT IN LIGHTING SINCE 1936 to 1995

- 38 mm – T12
40W FTL
- 26mm – T8
36W FTL
- 26mm – T8
36W Triphos
- 16mm – T5
28W Triphos

2. POINTS TO NOTE – switch over from E/M choke with T8/T12 to EB with T5.

- Conservation w/o compromise on comfort
- Less power loss
- Higher PF
- Longer life
- Wide operating voltage range

3. APPLICATIONS OF T5 TECHNOLOGY

- Existing installations
- New constructions

4. BENEFITS OF T5 FIXTURES

- Existing:
 - S/O to new technology by retrofit
 - Less power bills
- New:
 - Energy efficient lighting
 - Consequential benefits – A/C, Sw. gear etc....

5. AEL ENTRY TO LIGHTING BUSINESS

- T5 was niche area
- Years of DSM experience
- Modern manufacturing facility at Nasik
- Innovative ideas – Retrofit concept
 - Deferred Payment plan
 - Pay as you save

6. AEL LOCATIONS, PARTNERS AND CERTIFICATIONS

7. E+ AND FEATURES

8. STREET LIGHTS AND FEATURES

- Saves energy 45% - 60%
- Confirms to IP 65 protection
- Confirms to IS 10322 Specn.
- High Power factor
- Instant Start
- Wide Operating Voltage Range

9. HIGH BAY LIGHT AND FEATURES

- Saves energy upto 45%
- High Power factor
- Instant Start
- Wide Operating Voltage Range
- Used for Medium and High bay lighting
- Can be integrated with Day light harvesting

10. LMS AND FEATURES

- Micro Processor technology
- Saves up to 35% energy
- Prolongs lamp life
- No modification in existing system
- Correct voltage to start lamp
- Easy to install

11. TYPICAL CASE STUDY

- If 100,000 FTL replaced with E+
- Av. Saving / E+ - 25W
- Total energy saving – 2.50 MW

Consequent benefits to nation:

- 2.5 MW available to EBs w/o additional generation; better usage / revenue
- Lesser load shedding; better MD mgmt
- National saving for other development

12. INTELLIGENT LIGHTING SYSTEM

13. COST OF LIGHTING