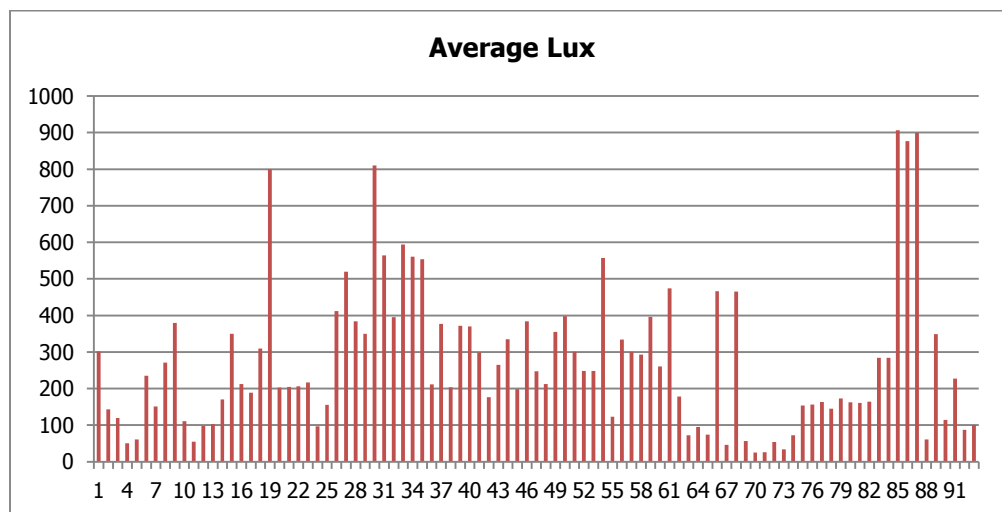


Case Study: **Indoor Air Parameters - Illumination**

SENERGY Consultants (P) Ltd

Background:

While conducting energy audit for the office premise; the temperature was observed to be showing considerable variations and the average values were above the general norms (200 to 300 lux for office and 20 to 30 lux for passages) at quite a few places.



Scenario:

The lighting system comprised of

- Twin Florescent Tube Lights fitting with common switching circuitry for 20 to 30 lights.
- All the lamps were switched on during normal office period.
- The lamps were also provided close to window; which were kept on due to common circuitry.
- This lead to considerably higher illumination level at quite a few rooms / locations.

Energy Conservation Measures:

The above concerns and issues were addressed by taking the following measures.

- Providing separate circuitry for lamps near windows and keeping them switched off almost all the time.
- Selectively removing one of the twin tube lights; while maintaining the requisite illumination level.

Outcome:

- The energy consumption of the lighting system reduced by around 15%.

SCPL-CS-18

Helping You to Conserve Resources

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