

25 kWh energy saving and emission reduction

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TABLE 1. Details of the selected building.

TABLE 2. Details of existing fixtures.

FIGURE 1. (A) Existing 3D BIM model, (B) Energy model visualization of the building.

TABLE 3. Details of the existing and proposed fixtures.

FIGURE 2. Comparison of energy consumption in tube light, compact fluorescent lamp (CFL), and fan.

FIGURE 3. Comparison of energy consumption in the existing and proposed air conditioners.

FIGURE 4. Difference in energy consumption of existing and proposed electrical fixtures of the selected building.

FIGURE 5. Reduction in cooling loads through various retrofitting measures.

FIGURE 6. Energy consumption in the selected building before and after retrofitting.

FIGURE 7. Detailed layout of solar system design.

FIGURE 8. (A) Comparison of reduction in CO<sub>2</sub> emissions before and after retrofitting measures in electrical fixtures and (B) overall reduction in CO<sub>2</sub> emission of the building after retrofitting.

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