

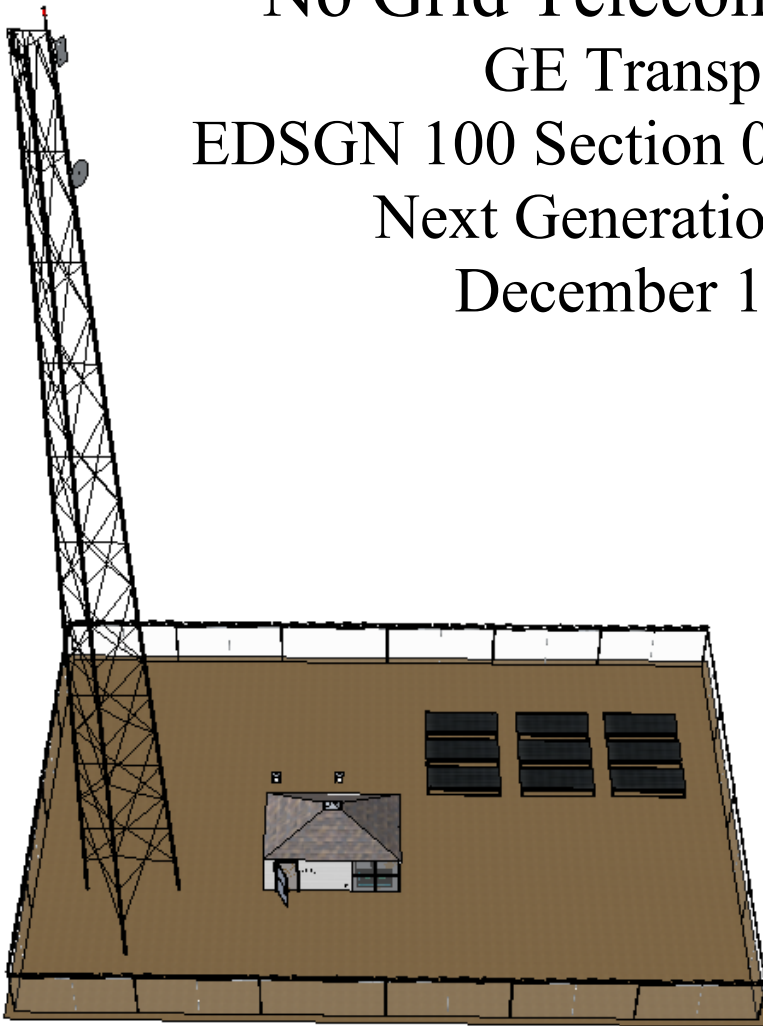
No Grid Telecom Base Station

GE Transportation

EDSGN 100 Section 018 Prof. Andy Lau

Next Generation Designers

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Given by the stipulations from the statement of work, GE Transport desired a self-run telecom base station implemented with minimal resources in developing countries throughout the world. This model optimizes green power by using a 6kW photovoltaic system in combination with a 2kW diesel generator, to minimize system costs. Special features of this design include the use of GE Durathon Batteries, which are submersed in a heated liquid, as well as passively heated by solar energy to maximize the operating efficiency. In addition, the hut containing key features of the system is naturally air-conditioned, has zero-energy lighting, and portable batteries for storage of excess 'dump' energy from the system.

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