

Off-grid Sustainable Energy Planning

It is crucial to study the integration process for introducing renewable energy generation to remote communities. For energy planning, a balance between affordability, sustainability and security should be aimed for. Therefore, a knowledge of the local geography, geology, environment, potential energy, and social aspects is needed to plan and predict the creation of energy infrastructure. The lecture focuses on various renewable energy technologies for off-grid use, how technologies can be adapted to cold climate regions, and key variables for selecting different types of technology. The selection includes weather conditions, topography, and geology.

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