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## A decentralized approach for providing electric infrastructure and service

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Split Sonne proposes a decentralized approach for providing electric infrastructure and services to the populace of certain area that are not considered viable for immediate grid connectivity. This approach will use a model consisting smart metering and flexibility for supply, load and tariff management, where energy credits will be provided to the users on prepaid basis. With high reliability, Split Sonne will empower the weakest section of the society; achieve maximum financial and social inclusion by providing connection for even the poorest. Users will pre-pay for the service as and when required, with the amounts of their choice, with no monthly fees. Existing real-time demand and supply management strategies will help the agents and distributors to ensure fair distribution and availability of resources for longer period of time. In addition, the generation through the small solar grids and their storage capacities can be sized to match existing demand. Moreover, on the arrival of the conventional grid, the proposed distribution network along with the energy management system can be utilized without any major modifications. All stakeholders like Government, Private Energy Companies will have access to real-time, contextual information. Users can also access their use and balance data. Operators will have enhanced situational awareness and effective control over the resources, enabling the operators for effective and efficient management of their assets and operations; while governmental agencies, investors, private players will be able to monitor performance using the same platforms. Problems associated with conventional energy resources like coal, fossil fuel will be eliminated, creating an impact on the living standard of populace. Pre-paid tariff mechanism will permit the proper maintenance. Energy theft can also be handled to some extent. It will also strengthen the income generating activities like agriculture, entertainment, tourism, etc.

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