

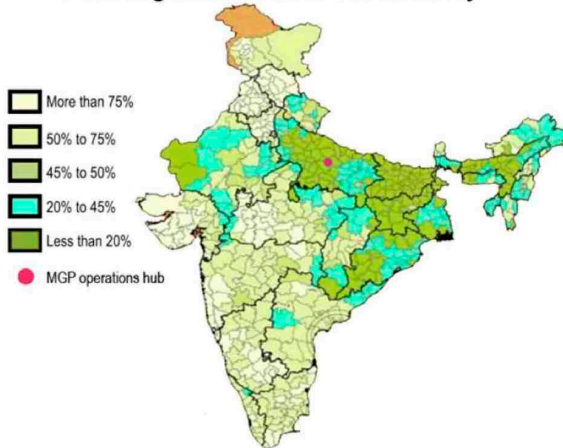


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**1914**

**Percentage of Households with Electricity**



*Electricity connection does not ensure continuous or adequate supply of power for households and enterprises.*

*Most of the generation of electricity is based on coal with high CO<sub>2</sub> emissions.*

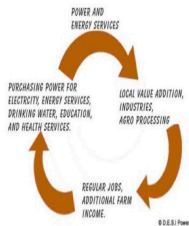
Source: "Sustainable and Renewable Energy Environment Scan / Demand Assessment, India", Grow Wellington, February 2009.



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**Breaking the vicious cycle of rural poverty  
with electricity as the driving force  
for sustainable rural livelihoods and energy services**

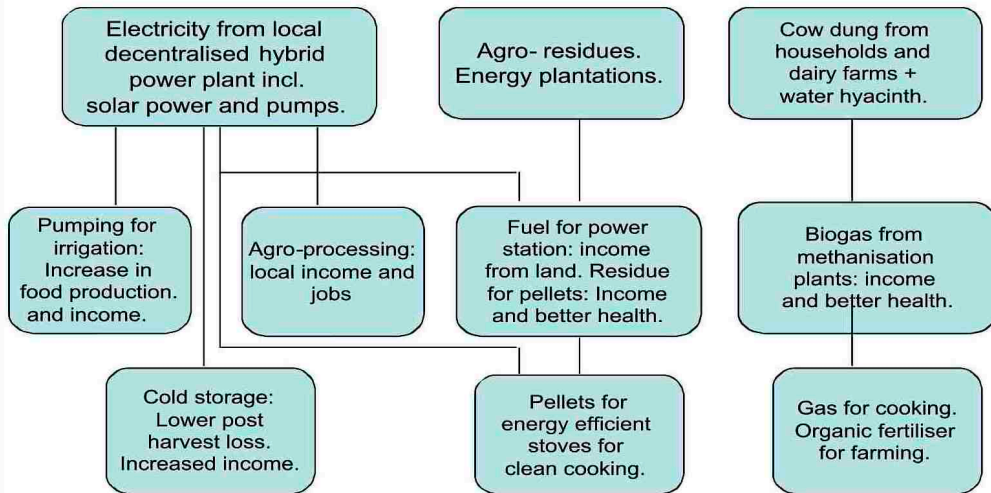


**A holistic Solution**





## **A typical example of village level integration**





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## People

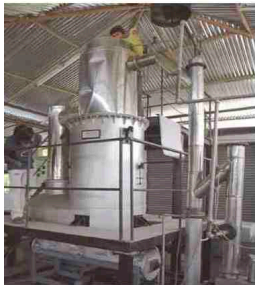




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# RENEWABLE ENERGY TECHNOLOGIES





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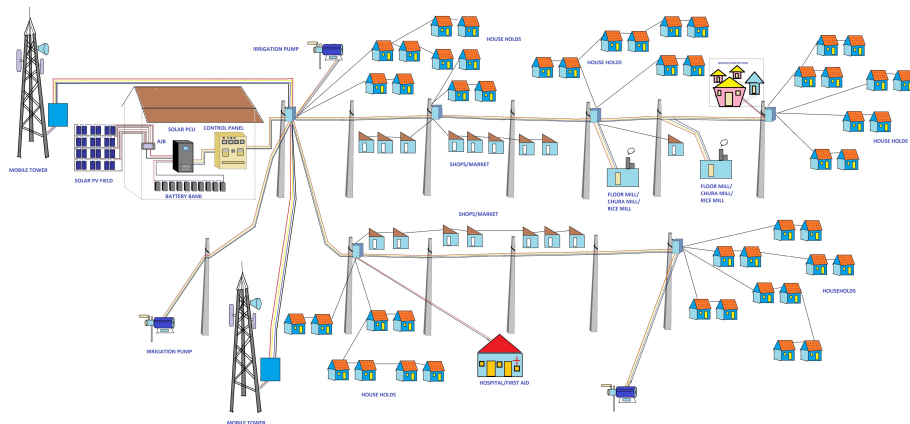


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**Micro Grids for self-reliant and sustainable village development**

DP\_PV\_30kWp\_Plant Design Layout Drawing\_Joy







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## **Power plants with micro - grids**







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**Irrigation water service provided by micro-grid driven pump  
or mobile units with solar PV or battery)**



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## Electricity-driven agro - based processing, enterprises and shops

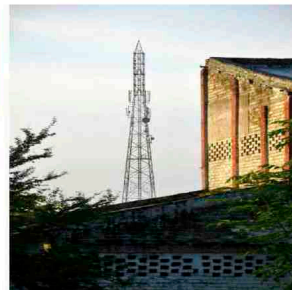




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## **Green power for telecom towers from micro - grids**

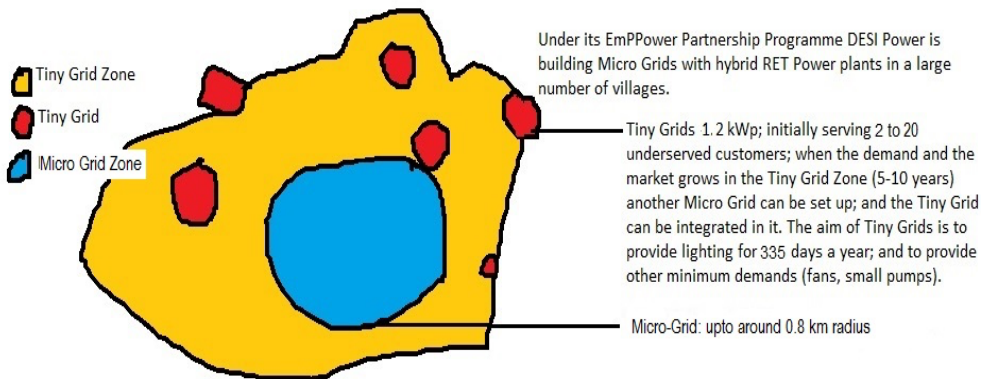




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**Tiny Grids for poor farmers and under-served villagers**





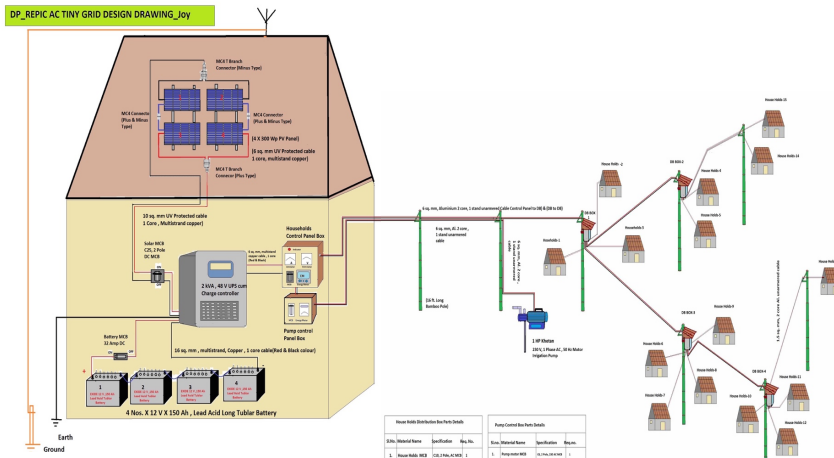
# DESI Power + DESI Power Foundation

## Sustainable Rural Development

Electricity, Water, Farming, Enterprises, Clean Cooking, Hygiene and Training



### Tiny Grids for poor farmers and under-served villagers







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**DESI URJA DUKAN**  
**PV with battery based “Tiny-Grid” for**  
**small domestic and market loads**





## **Activities of DESI Power Foundation**

- *To provide training and skill development courses for villagers and project staff.*
  - *To built and nurture pilot projects for subsequent large scale replication.*
- 1. DESI MANTRA Training Centre, the first project started in 2006.**
  - 2. Energy Plantations for fuel and food.**
  - 3. Clean Biomass Cooking Fuels.**
  - 4. “Kisanon ki Bari (Farmers’ Garden).**
  - 5. DESI Gaon Safai Centre.**



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## DESI MANTRA Training Centre, Araria .





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## **Biomass generation, procurement, processing and management**



**Biomass management: energy plants, plantations and agro-residues**



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**Domestic energy services for clean cooking and lighting**

General Presentation\_HS\_March16



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Landlose Tagelöhner bauen neue Produkte an: Bio-Insekten Spray und Pilze



Wurm Kompostierung, Flüssigmist  
von Biogas, Bio-Kompost mit oder  
ohne Asche von Holzvergasern und  
Kochherden





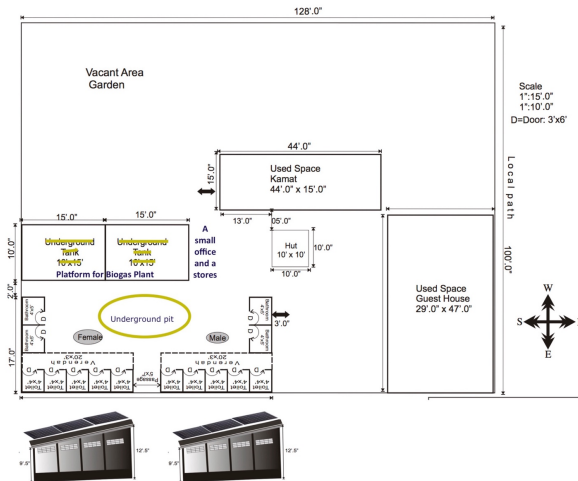
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## Sustainable Rural Development

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### DESI Gaon Safai Centre [Village Hygiene Centre]



"Roof-Top" panels over the toilets  
Similar "Roof-Top panels (N to S slope) over each bathroom.



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*Biogas plant with cow dung and water hyacinth in DESI Gaon Safai Centre [Village Hygiene Centre]*

