

# **Distributed Generation and Supply of Electricity for Integrated Rural Development**

by

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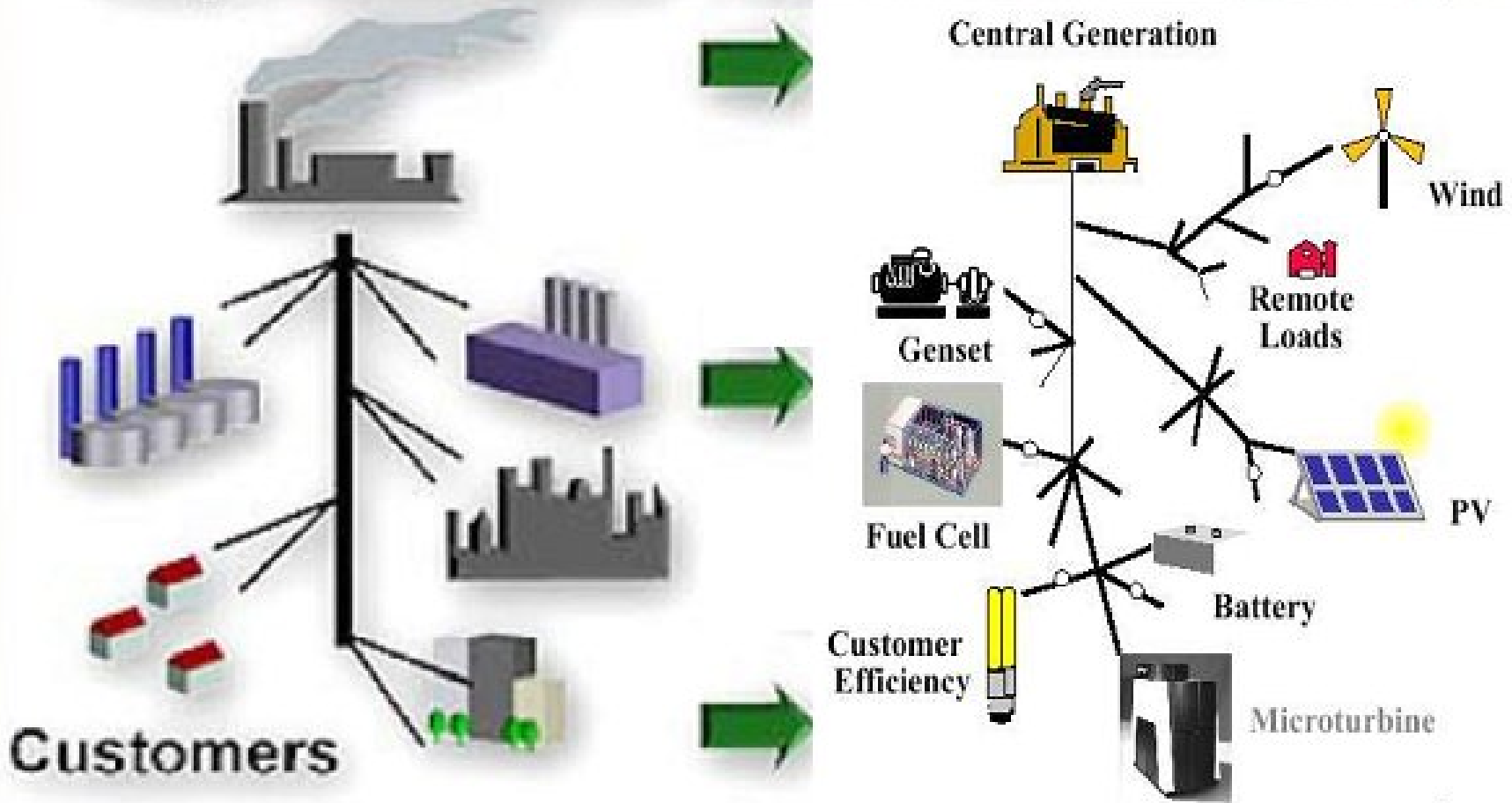
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# Distributed Generation-Concept

## Distributed Utility

Today's Central Station

Tomorrow's Distributed Utility



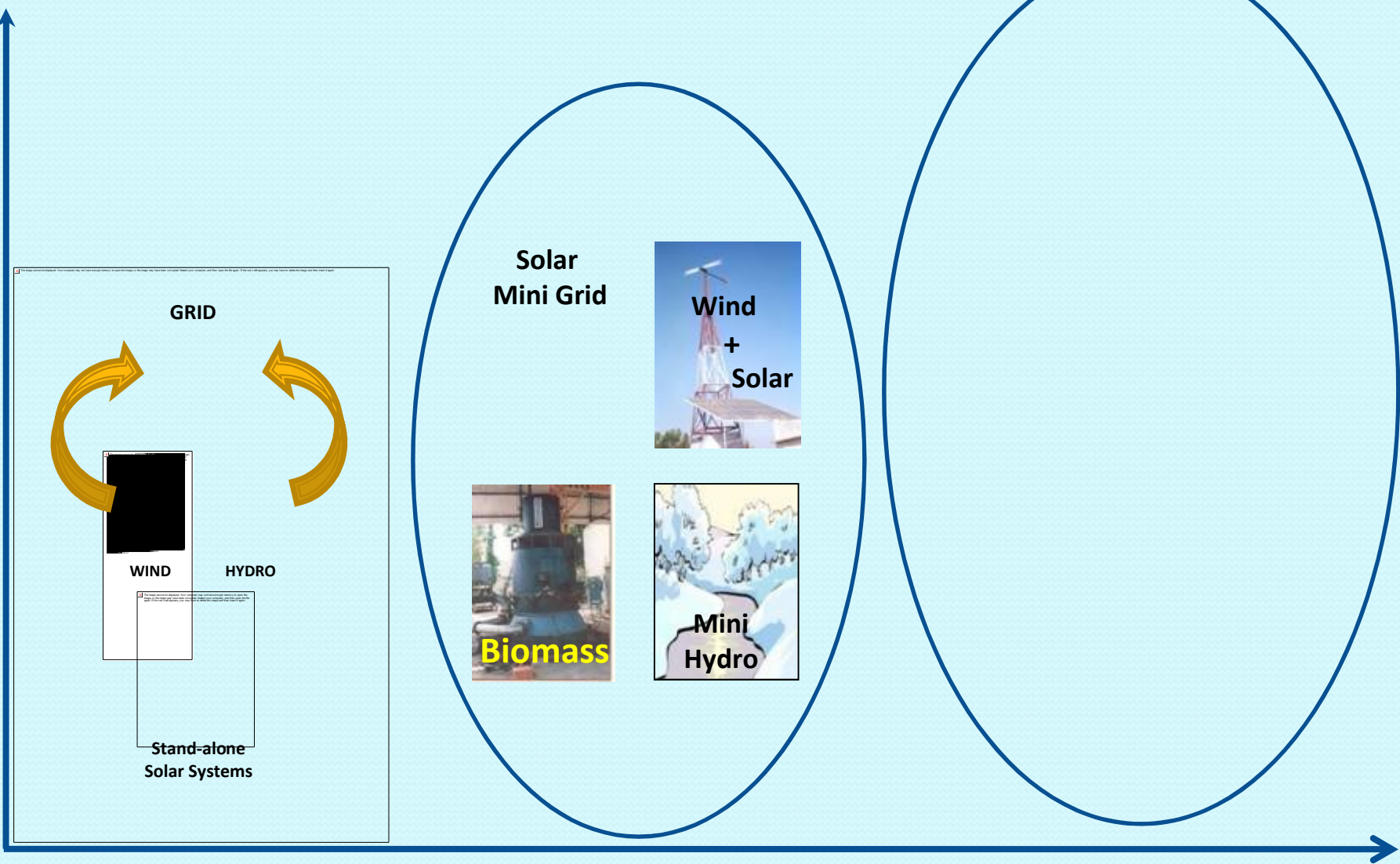
# Distributed Generation-Definition

Defined as installation and operation of small modular power generating technologies that can be combined with energy management and storage systems, and used to improve the operations of electricity delivery systems at or near the end user. These technologies can be utilized for off-grid as well as grid based.

# Opportunities for Distributed Generation

- For augmenting the electricity supply in electrified villages for achieving better healthcare, education and community services
- For providing dedicated power to livelihood activities such as food-processing, rice hulling etc.
- For meeting universal service obligations by improving the household electrification level in electrified villages where households are scattered
- For managing the periods of low demand
- For providing electricity in de-electrified villages
- For preventing de-electrification of newly electrified villages

Beyond “last-mile”



1980

1990

2008

GRID

WIND

HYDRO

Stand-alone  
Solar Systems

Solar  
Mini Grid

Wind  
+  
Solar

Biomass

Mini  
Hydro