



Energizing Food Systems

	Electricity (Solar Photovoltaic)	Thermal Systems	Biomass Production
Production	<p>1. Pumps for irrigation, water distribution, lifting and oxygenation of fish ponds.</p>	<p>5. Sludge as by-product of biodigestion applied as fertilizer for agriculture</p> <p>6. Biogas from chicken manure powers incubators and lights for poultry farms</p>	<p>10. Agroforestry and intercropping with trees for firewood produces wild foods, seasonal crops and improves soil on degraded lands</p>
Transformation	<p>2. Power machines for crop processing, milling, grinding, de-husking, pressing, canning, sealing and packaging</p> <p>3. Refrigeration for fresh produce and milk to preserve and improve post harvest handling of produce</p>	<p>6. Thermal Energy (biogas, solar thermal) to pasteurize milk, and biogas for refrigeration to preserve vegetables, meats, eggs and milk</p> <p>7. Solar thermal provides heat and improved combustion for curing leaves, canning beans, drying fruits & grains, smoking fish & meats, firing bricks</p>	<p>11. Agri-residuals, waste from timber industry and improved charcoal production provide alternative sources of cooking fuel</p>
Consumption	<p>4. Charging and Powering of electronic equipment (mobile phones, radios and TV) for agronomic information, forecasts, trading and mobile banking. Electric cooking (rice cookers, induction plates, electric pots)</p>	<p>8. Collecting organic waste that improves sanitation for communities and provides biogas for cooking</p> <p>9. Baking bread, cooking meals with efficient biomass, biogas and LPG stoves supplied with waste</p>	<p>12. Monitoring biomass growth from satellite to pay smallholder farmers for improved forest and fuelwood management</p>

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