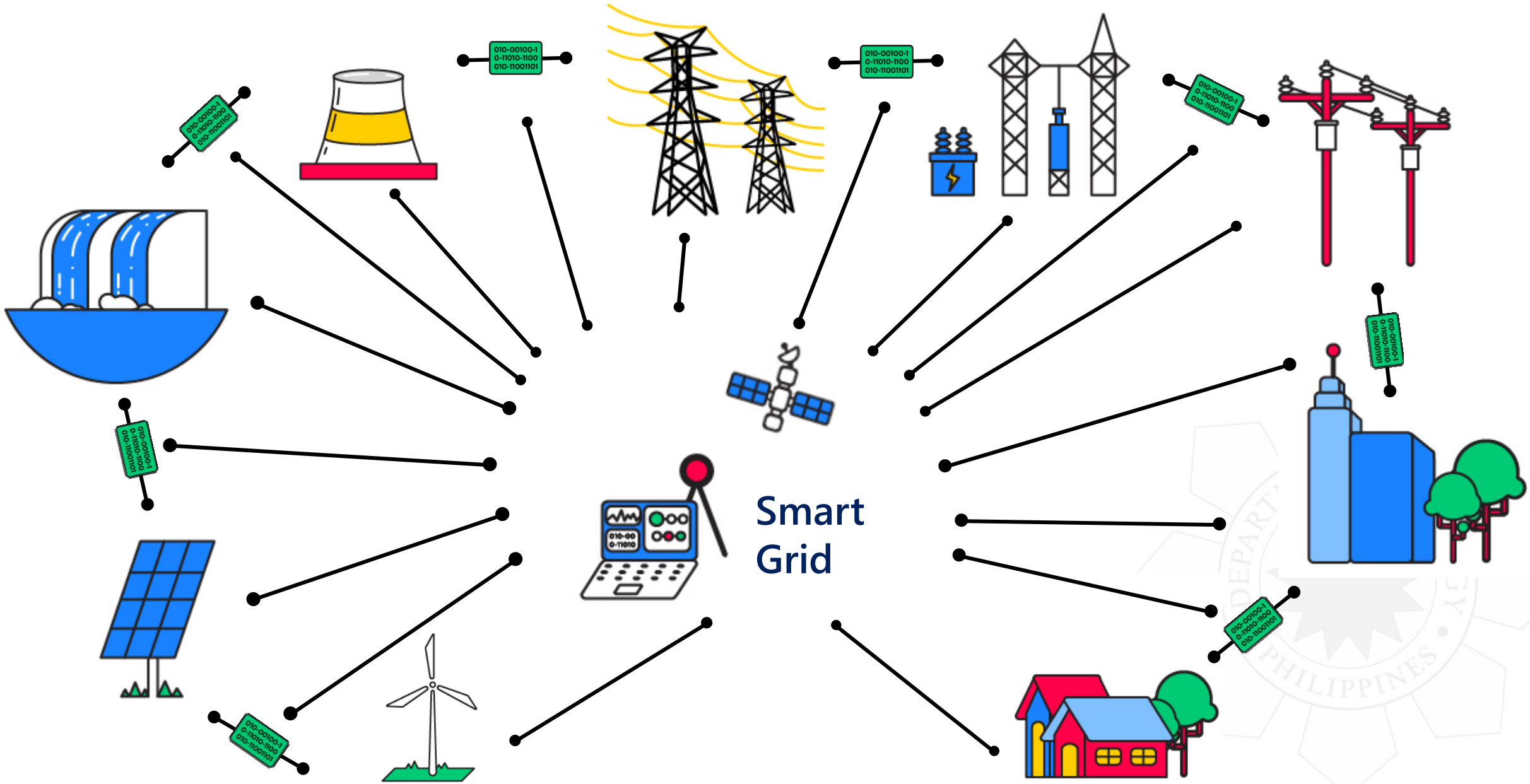
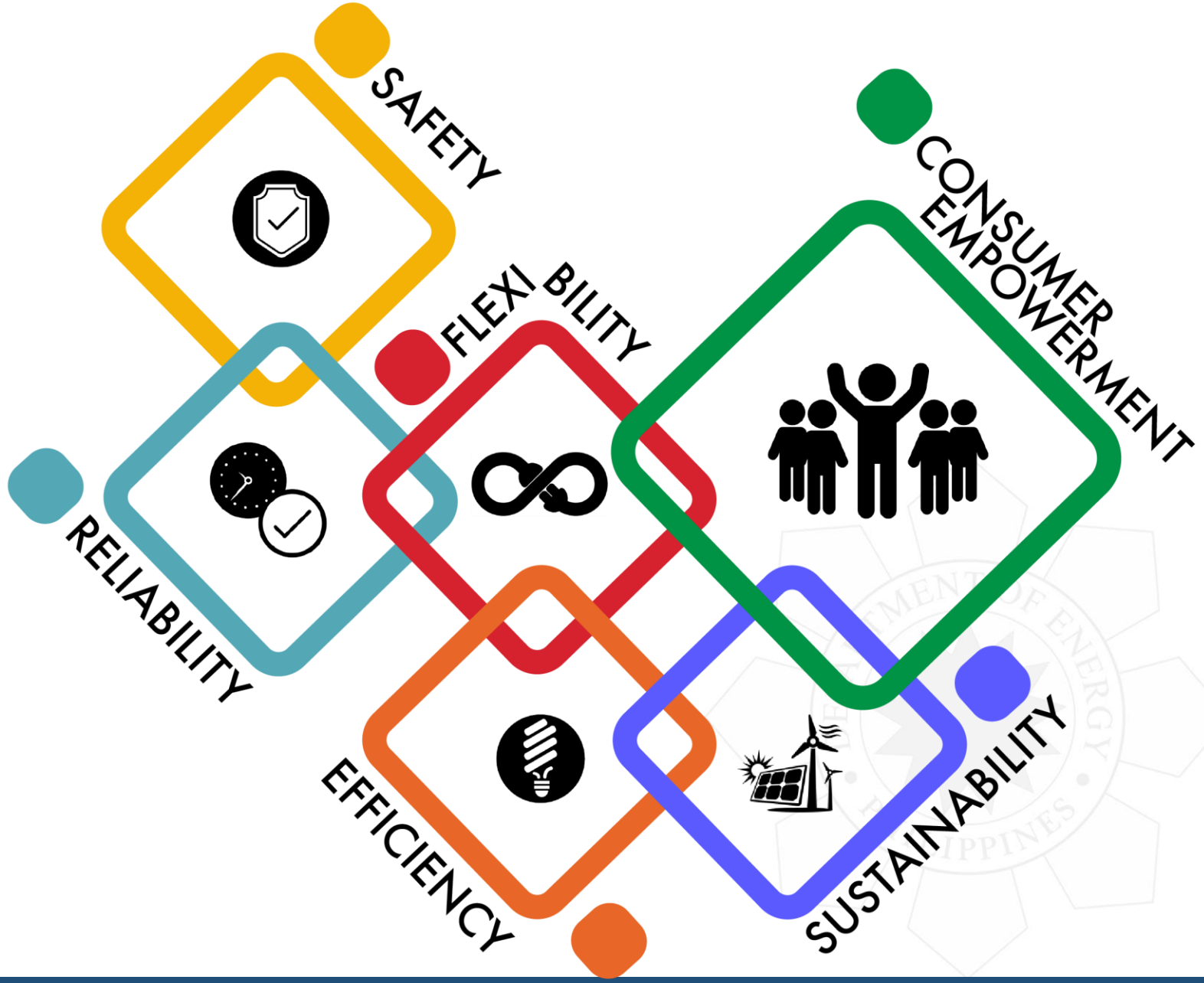
SMART GRID FORUM

November 29, 2017


Smart
Grid

Aspects of Smart Grid

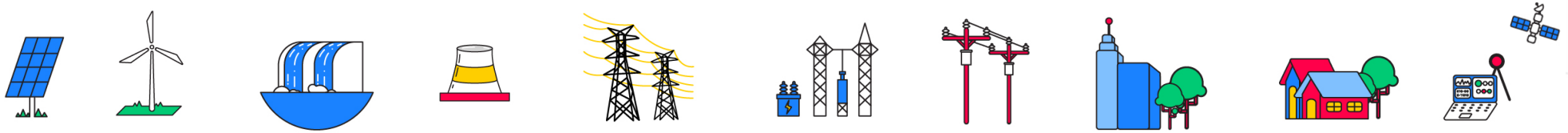


Smart Grids for Consumer Empowerment and Energy Efficiency

Renewable Energy (Generation & Network Providers)

- **Summary Status: Varying levels** of integration of DERs (distributed energy resources) in the following areas:
  - DUs with ANA and/or AMI
  - With SCADA-enabled solutions
  - With installed infrastructure but no communication capability
  - RE generators fully linked to NGCP

Issues	Recommendation
Lack of appropriate capacity building activities	**Develop tailor-fitted capacity building activities and collaborate** with key stakeholders in the value chain (LGUs, DUs, ERC)
RE variability/ Network Congestion	Implement **RE zoning** to match demand and supply



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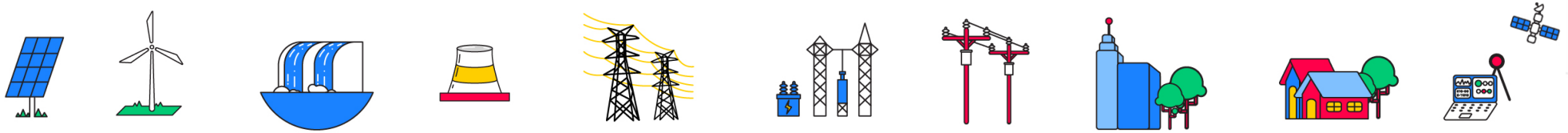
Issues	Recommendation
Inadequate monitoring/ control system	• Establish **adequate systems** to monitor and control installations (e.g. metering equipment and registration procedures) • Develop **guidelines** to enable **interrelation** among all RE sources • Develop and implement **data storage and management**
Cross-subsidies, infringement of franchise and its negative impact to the grid	• Develop **DER rules** • **Revisit existing policies**



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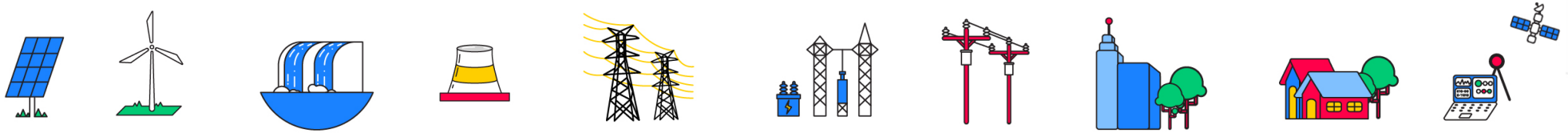
Issues	Recommendation
Lack of common standards	• Draft **common standards and policies** (e.g. **certification / accreditation** for hardware and software, and **smart grid**) • **Align standards** for all DUs • Provide **reportorial requirements** • Establish **system for assessment** of standards
Insufficient policies that support transition to smart grid system	Develop **guidelines** on transitory policy



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