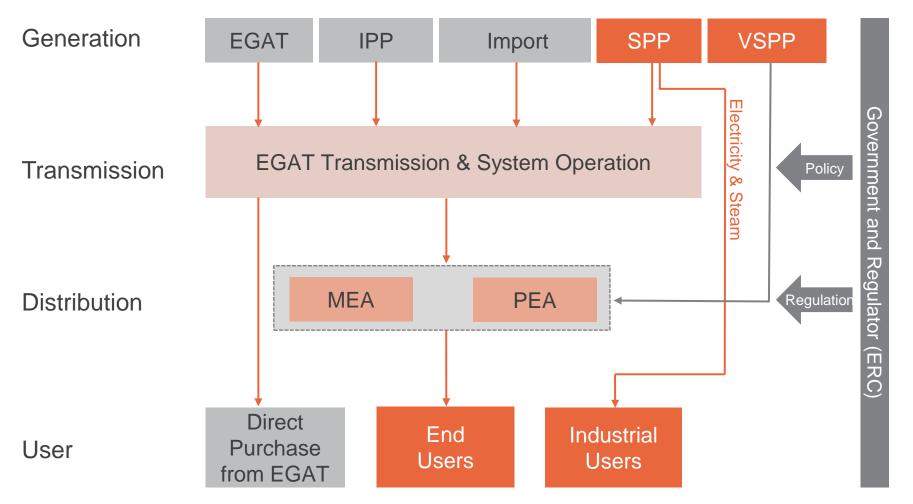
Business Opportunity for Electricity Sector With VPP and Digital Transformation

Thailand Power Industry



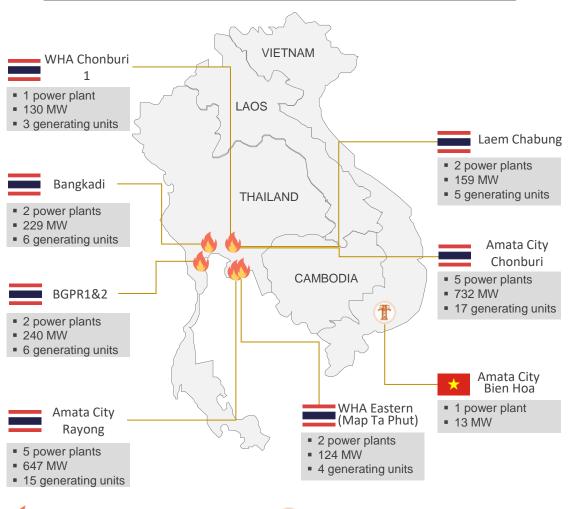
IPP : Independence Power Producer SPP: Small Power Producer VSPP : Very Small Power Producer

Source: EGAT

BGP Overview

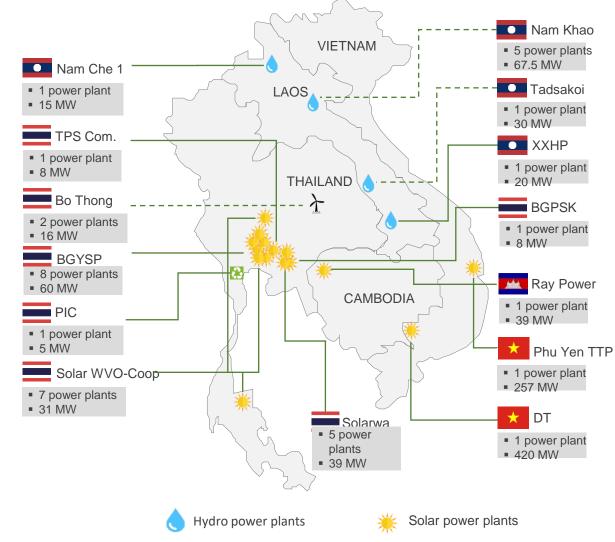
Gas-fired cogeneration power plants

Conventional Power Plants 2,035 MW

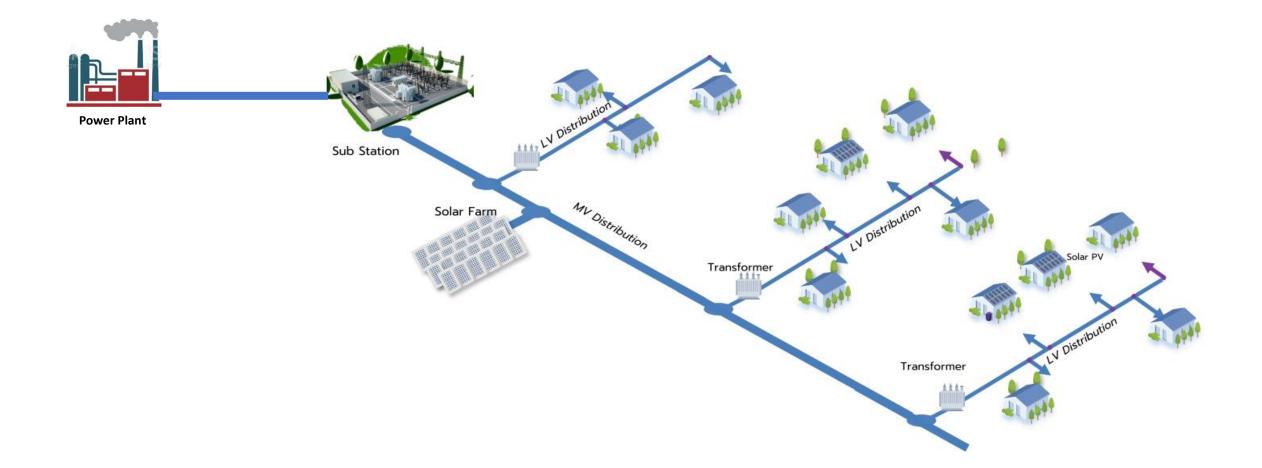


Transmission and Distribution

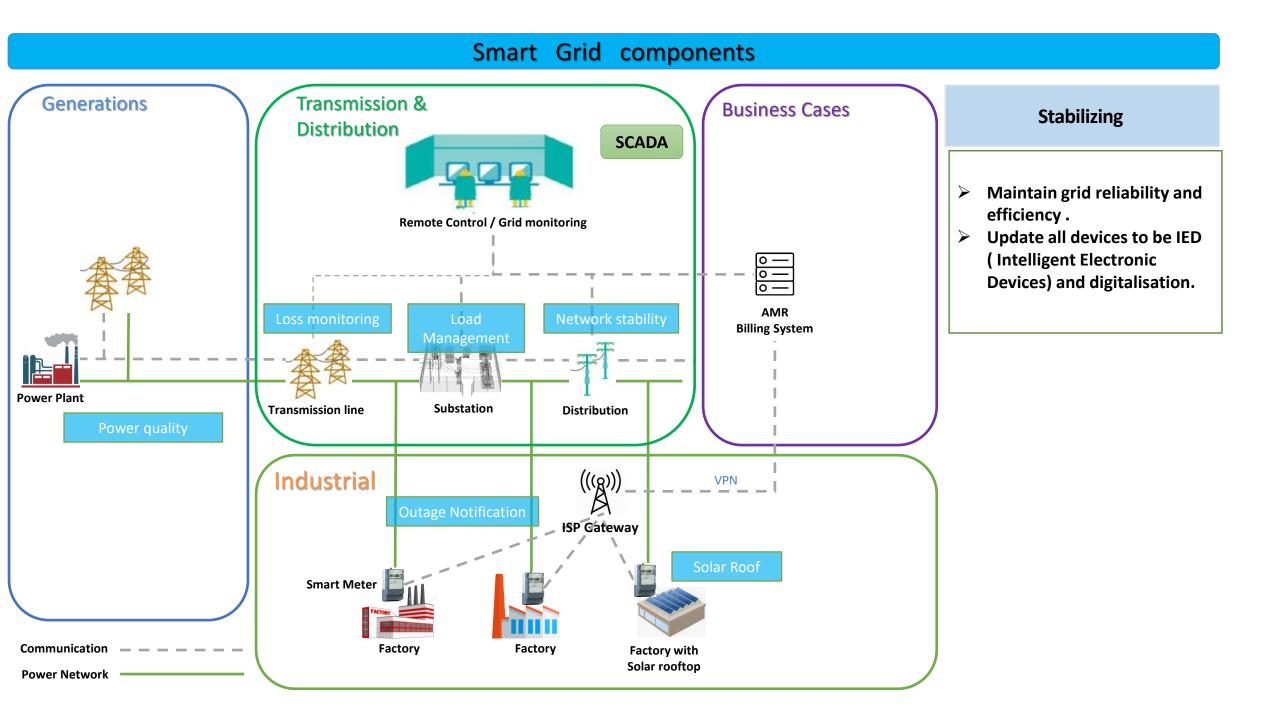
Renewable Power Plants 850 MW



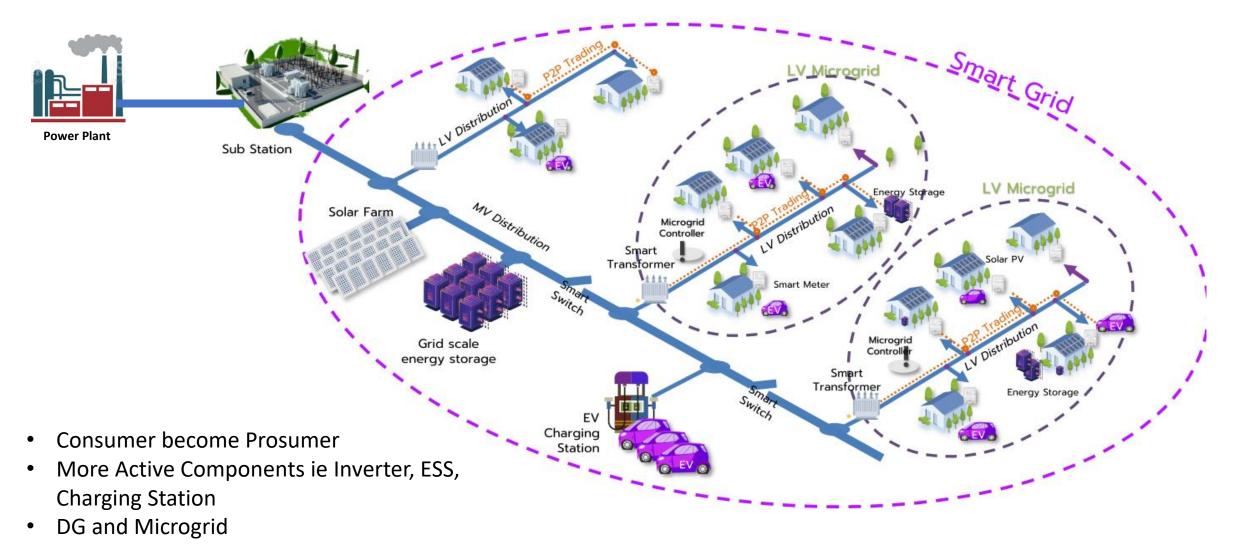
Present Grid

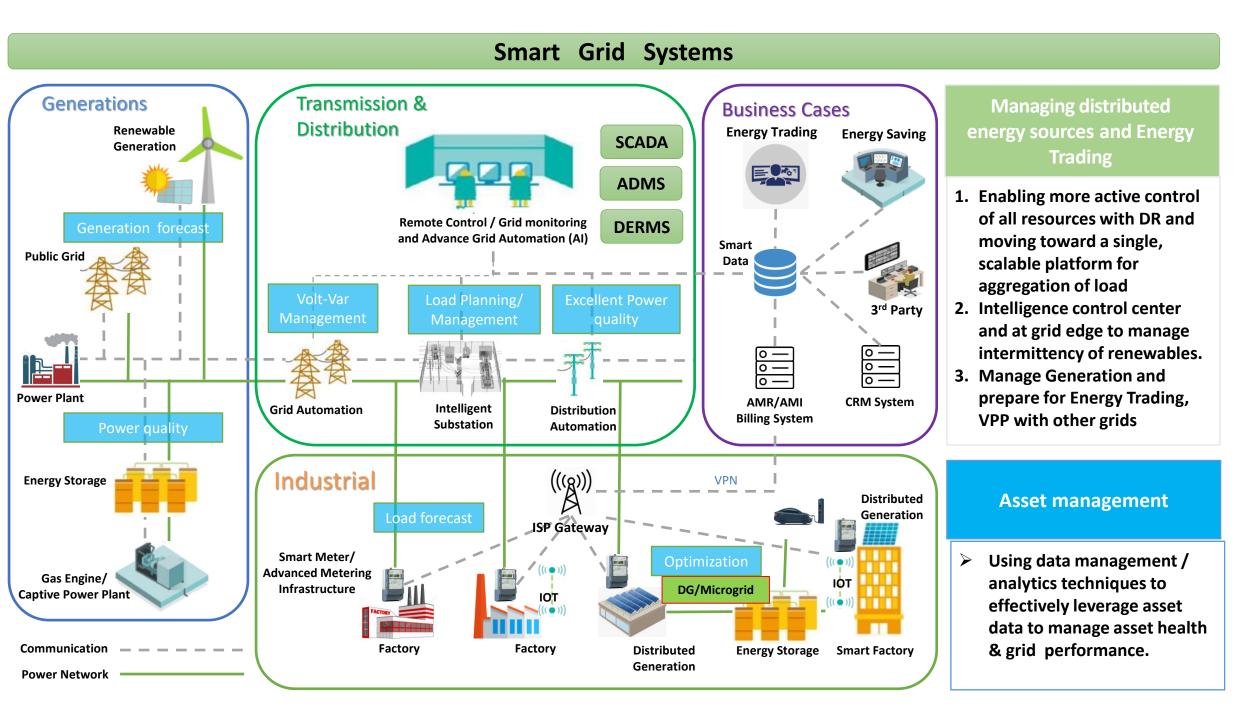


Source : IEEE PES Thailand









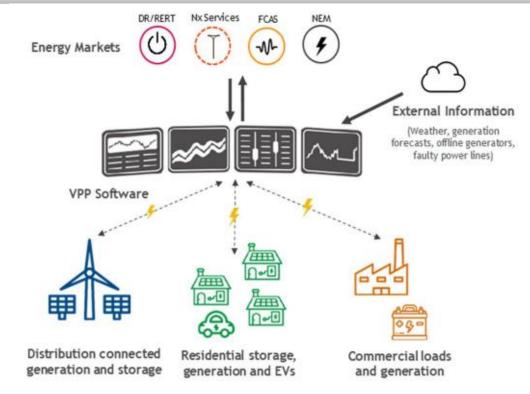
Business Opportunity for Electricity Sector :

Customer Satisfaction (Revenue and Power Stability)

Business Model

- System Operator giving service for P2P trading of our own distribution line.
- Energy trading B2G , SPP as Load Aggregator selling power to utilities.
- Energy trading B2G , SPP as generator for ASEAN GRID.
- Energy Solution Provider B2B , SPP as generator and operator for factory, commercial Building.

• Etc.



Source: http://www.marchmenthill.com/qsi-online/2019-06-18/virtual-power-plants-hard-sell/

- Technology ready
- Regulation? Wheeling Charge by2022?
 /Backup Charge/Ancillary Service charge ,etc?
- Feasibility Study? Investment cost, ESS price?
- High country Reserve Margin !!