

EEE 554- Energy Conversion and Storage

Global energy assessment. Primary and secondary energy sources. Growth rate: Energy needs of Nigeria. Energy conversion techniques. Renewable energy sources: Types, future trends and technology. Solar energy systems: Types characteristic and design using Collectors and PV cells. Solar energy balance of the earth. Energy conservation. Energy management. Energy auditing. Cost of energy. Waste energy technology. Battery applications in energy conversion systems, light and heavy machines and transports; testing, fault diagnosis, repairs and effect of environmental factors on battery life.