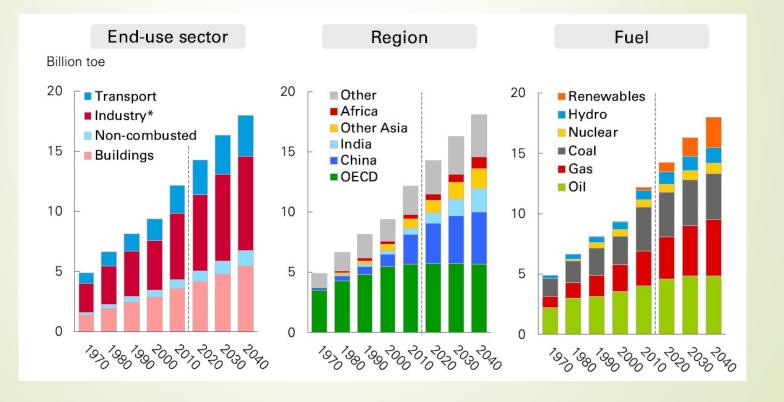
A Review on solar energy technologies

Fall 2018-2019 Presented by Hooman Azad



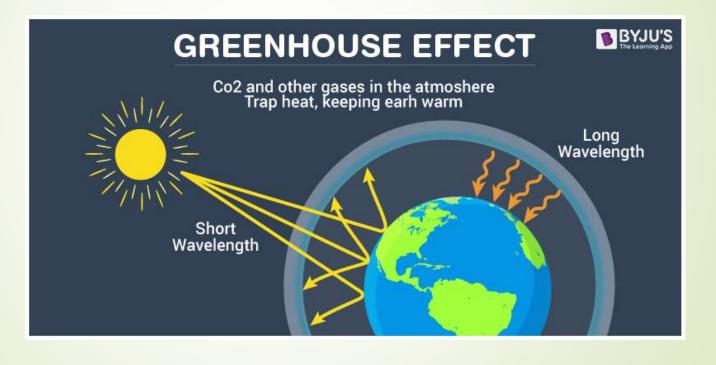


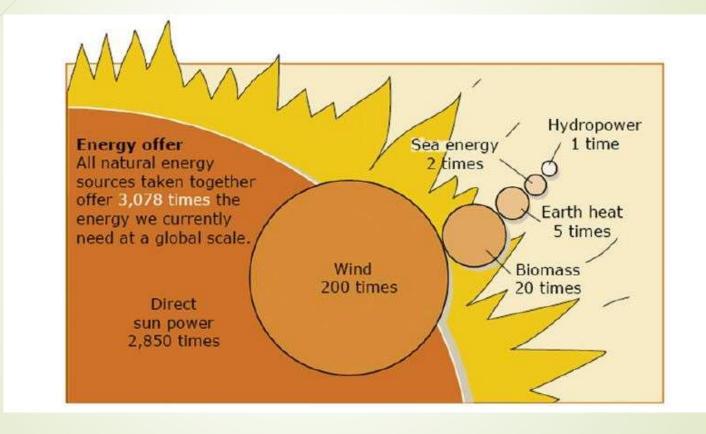
- World demand for fossil fuels will exceed the annual production during almost next two decades
- At the current rate of consumption, proven oil and gas reserves could be sufficient for world energy demand only for less than 70 years



 Environmental issues and climate change have become one of the most urgent worldwide problems







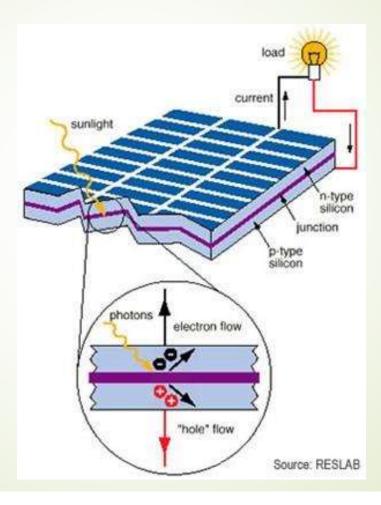
- Solar thermal energy is the most abundant source of renewable energy among of all alternative ones
- About 0.01% of the total annual solar radiation reaching the earth's surface is sufficient to meet the world's total annual primary energy consumption of 450EJ



Photovoltaic



Photovoltaic



Photovoltaic









1-Domestic hot water





2-Space heating





3-Space cooling and refrigeration



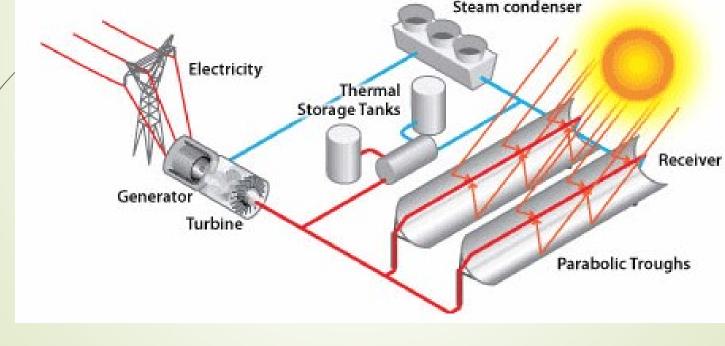
Solar Thermal Processes

4-Industrial process heat

- Sterilising
- Pasteurising
- Drying
- Distillation











Thank you for listening

