betwee 1 Non-conventional Energy Systems (MEO 741)

1. What is non-conventional?

2. What is conventional? 17/7/23 Electoricity generation - 87% coal
- 4% natural gas
- 3% overewables 1 5% nuclear and hybro . What is evergy ystem) Secondary of End use.

Primary Sconversion

Primary Sconversion

Extraction collection

Harverling 4. What is pownary and secondary evergy?

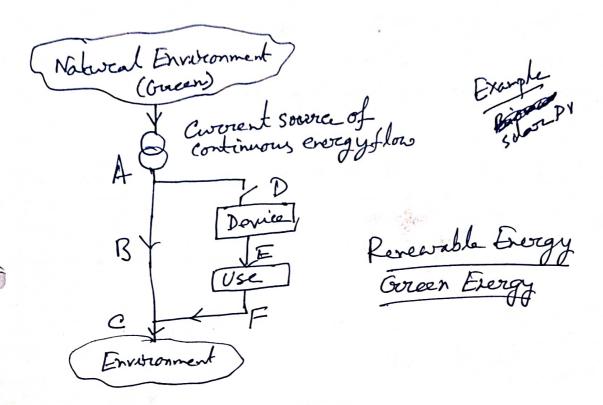
5. Why non-conventional evergy? (What are the challenges poresently?) 1 Resource scarcity - Grabal wavening Evergy poverty, - Evergy security - Acid rain - Particulate emission

24/11/22

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Introduction of Renewable and non-riere wable evergy

1



Mixed resource! Brown

Device | Finite energy

| Device | Finite energy

| Device | Finite energy

Perewable evergy > Evergy obtained from notward and pervistent flows of evergy occurring in the immediate on environment. Energy is abready passing through the environment as a current on flow irrespective of there being a device to intercept and harvers this power. (Green) Non-nerewable evergy > Energy obtained from static Stories of evergy that remain undergrown unless released by human interaction. (Brown) Peffected to space

80,000

Solar Leating Solar drying

Solar Leating Ocean Harrows Solar 120000 Hoover Latert heat -> Hydropower energy energy Wind, water furthise 300, Kiretie energy -> Wind, water furthise 100 Photon Biomans and biofuely

Processes Photovoltaig 0 30 Heat Greotherml heat over From Joseothernal planetary Sorbifal motion 3 Tidal occurrent power motion Tidal current power Natural Energy currents on earth *In(10" W) > Units teracratts

4. Disporsed and contralized enougy.

5. Complex systems > many subject expertise required.

Example, --. 6. Situation dependence > very specific foor different geographical location and end usors.

Needs of evergy and form of primary evergy is very much situation dependent. Envisionmental impact assessment. 8. Matching supply and demand. 9. Control options popul the excess energy 10. Social implications -> different community demand curve

Moteling supply and demand Feedback control Storage Endows device contoul Finite

