KEY INVESTMENT OPPORTUNITIES

SOLAR ENERGY

- Uttar Pradesh has 22,830 MW of untapped solar energy.
- · This enormous energy can be utilized through:
 - -Solar Parks Mini grid Solar rooftops
- Grid connected rooftop solar photovoltaic power plant at all the public institutions such as government owned or aided hospitals, research institutions, educational institutions, hostels & training institutions, libraries, establishments of indian railways, in the State.

A. Mini-Grid Solar Power Plants

- 16 soler mini grid projects have been commissioned in the State by fund.
- Government of India is providing a subsidy of 30% of the project cost.
- Only 63 Mini Grid Solar power plants have been installed in various districts by private developers.
- Total Installed Capacity of these plants is only 4.9 MW, covering only 90 villages and benefitting 15,800 households.

B. Solar pumpe for irrigation

- As of now, only 15,000 Solar Pumping systems have been deployed for irrigation purpose.
- 10,000 Solar Pumping systems of various capacity 2H.P. 3 H.P and 5 H.P are under construction.
- State Government is providing a subsidy of 45 % on total cost.
- Ministry of New and Renewable Energy will further fund 20-25 % depending on capacity of pump.
- Value added Solar energy production.
- At decentralized level solar energy can be utilized through:
 - -Solar Water Pump -Solar Street Lighting -Solar RO Plants
- Setting up Solar Hydroelectric power plants.
- Other opportunities include—
 - Manufacturing of PV cells Solar Energy Research & Development

BIOMASS ENERGY

- A. Bagasse based co-generation
- More than 1,800 MW capacity power generation projects installed in 64 private sugar mills.
- There is wide scope of installing power generation plants in sugar-mill beits of UP such as Shajahanpur, Barellly,
 Sitapur, etc.
- B. Non-Bagasse (agro-residues, rice husk) power projects
- Rice Husk based (Grid Interactive) 4 projects of total capacity 46.50 MW are installed at Mathura, Ghazipur,
 Gorakhpur and Kanpur.
- Power generation projects of 201 MW have been installed for captive consumption in paper mills, rice mills, cold storage, etc.
- More plants can be set up at Varanasi, Moradabad, Meerut, Gorakhpur, Pfilbhit, etc.

WASTETO ENERGY

- Presently, 33 projects of 108 MW capacity power projects are operational in the State based on industrial effluents installed for captive use.
- These projects get a Subsky from Government of India of INR 50.0 Lakhs/MW limited to max of INR 5.0 Cr per project.
- With rapidly growing industrial activity in the State, there is wide scope of producing power from industrial waste.
- Agricultural waste to energy is another crucial sector in the state seeking investment in the benefit of public health and environment.
- Municipal Waste to Energy Being the most populous state of India, and with growing urbanisation, waste management is a major grieving area for Uttar Pradesh. Power from municipal waste offers wide scope for investment towards the cause of Swachh Bharat.

