

INVESTMENT OPPORTUNITY

# RENEWABLE ENERGY GENERATION SPACE, INDIA

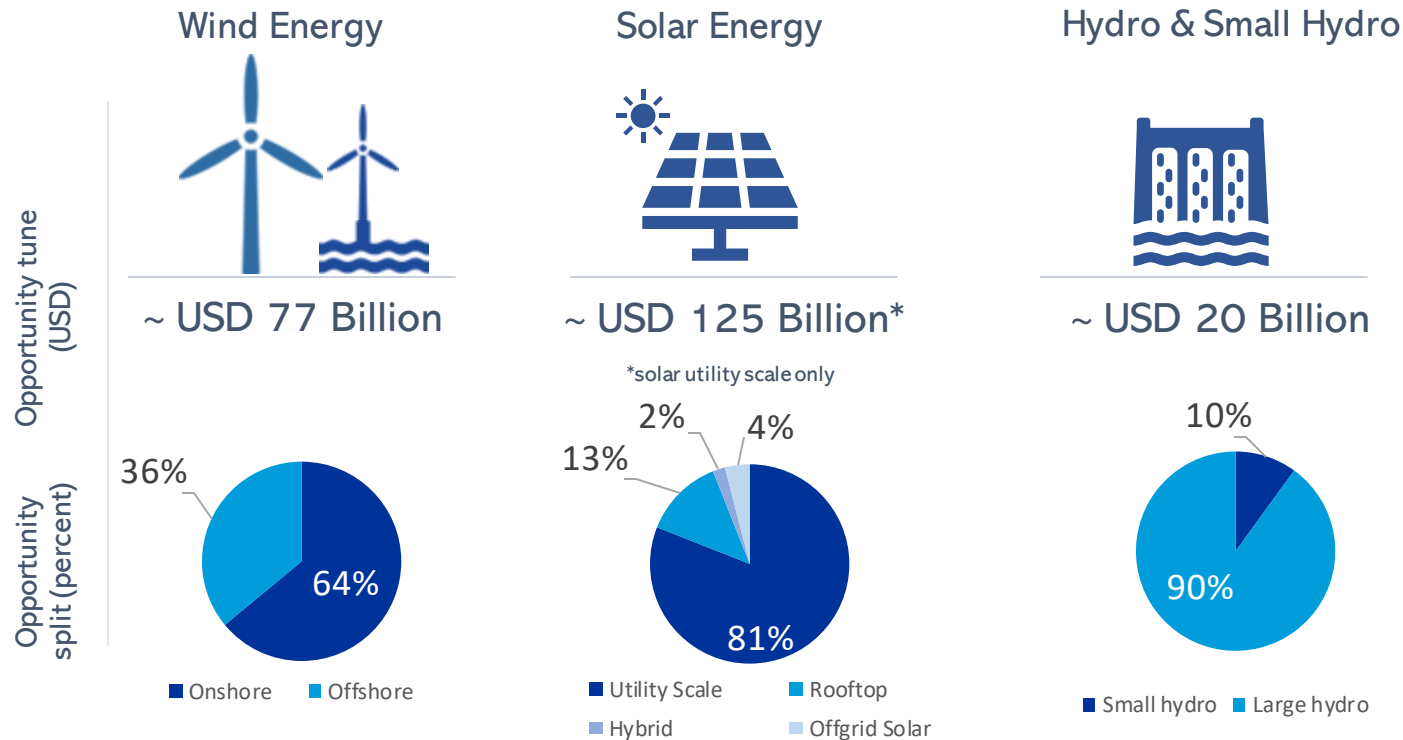
Key highlights about the state wise investment potential for renewable energy generation tracked



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# RE Energy Generation

India's renewable energy space offers investment opportunity of above **USD 200 Billion** by 2030. **Solar energy** generation in India to see maximum investments by 2030 with government giving more impetus on utility scale solar energy projects. Gol has announced 57 solar parks of aggregate capacity 39.25 GW worth **USD 19 Billion** capital investment to be developed by 2030



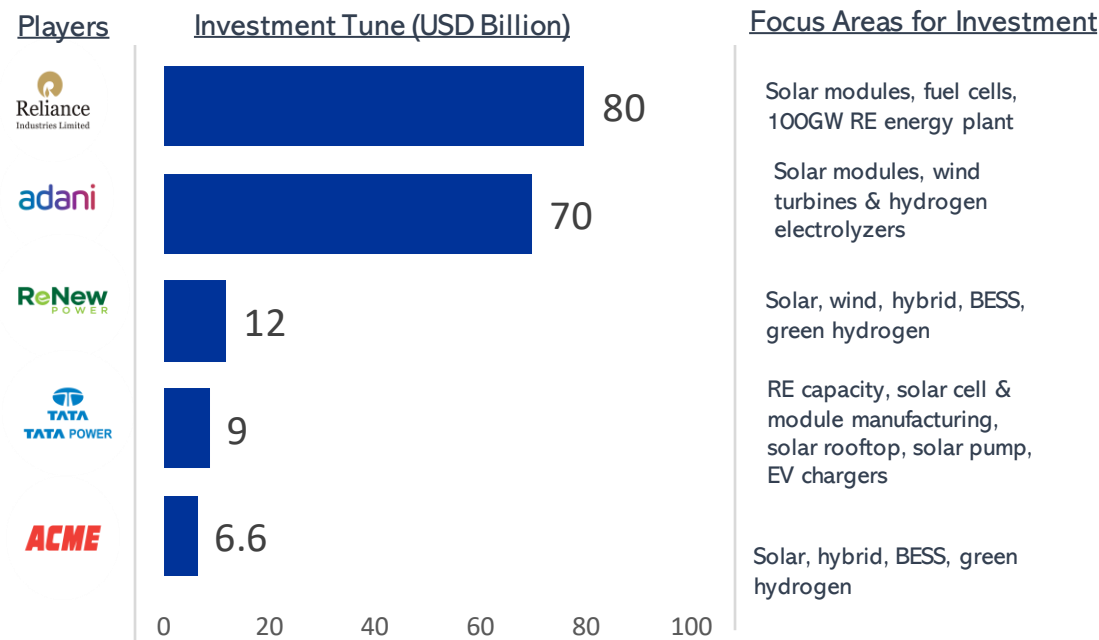
Source: EI MRAC Reports, Channel Checks

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# Private Players Participation

**USD 178 Billion** planned to be invested across green energy space in India by key market giants till 2030. Reliance & Adani group being the flagbearers to investment attractiveness in India's green energy space. **Reliance industries** has signed an MoU of **INR 5.9 Trillion** (USD 72 Billion) with the **govt. of Gujarat** for establishing green energy projects till 2030. The company announced an investment of USD 7 Billion for setting manufacturing facilities -solar PV modules (manufacture of polysilicon, wafer, cell, and module), electrolyzers, fuel cells etc.

Top five investments (USD Billion) announced in India's green energy space by Indian players during CY'2022



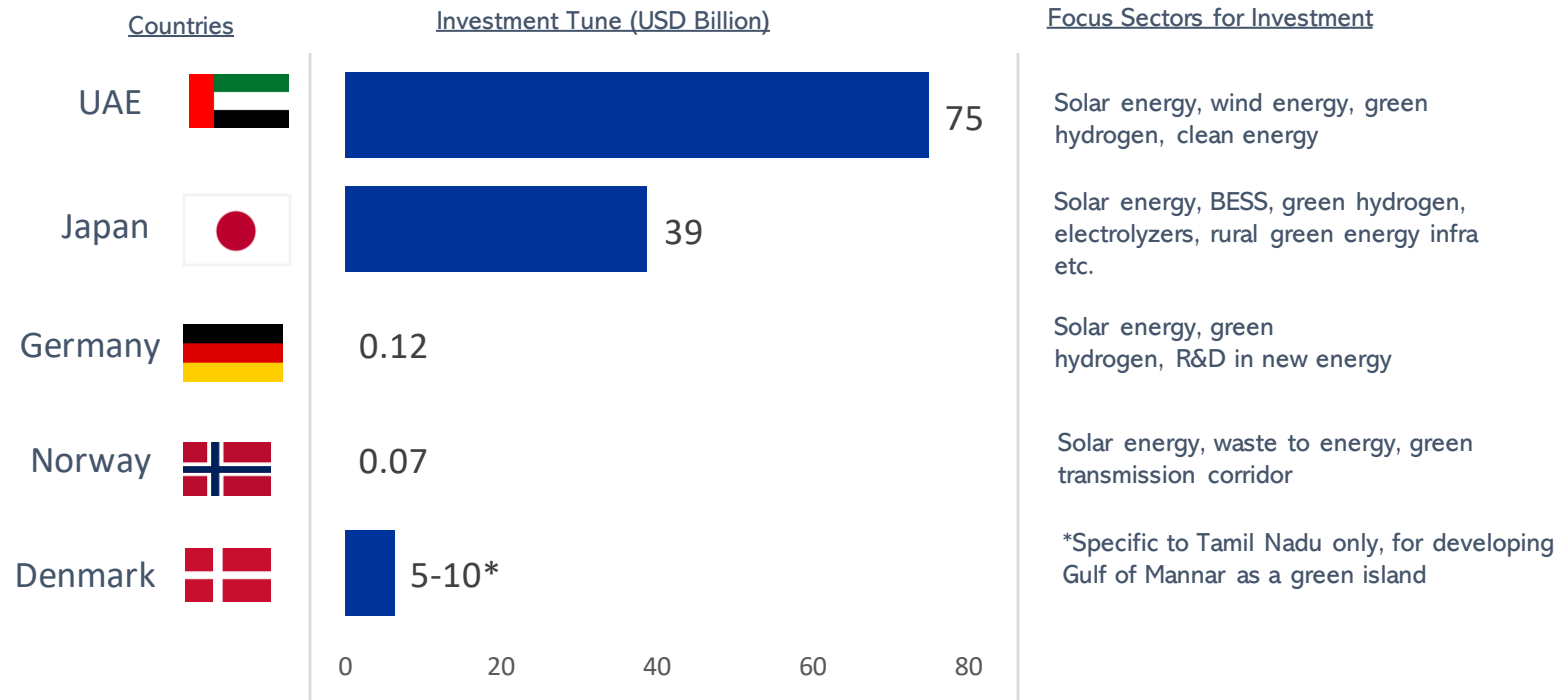
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# Inter Country Partnerships

**UAE** to be the largest investor in India’s clean energy vision followed by Japan. UAE committed an investment of **USD 75 Billion** from their Sovereign funds in India to support country’s clean energy vision. **Japan** will invest **USD 39 Billion** in India by 2027 to support country’s clean energy vision. India has also signed multiple agreements worth **USD 121 Million** with **Germany** for development of renewable energy sector in the country by 2030.

Top five investments (USD Billion) partnerships of India with other countries across renewable energy space



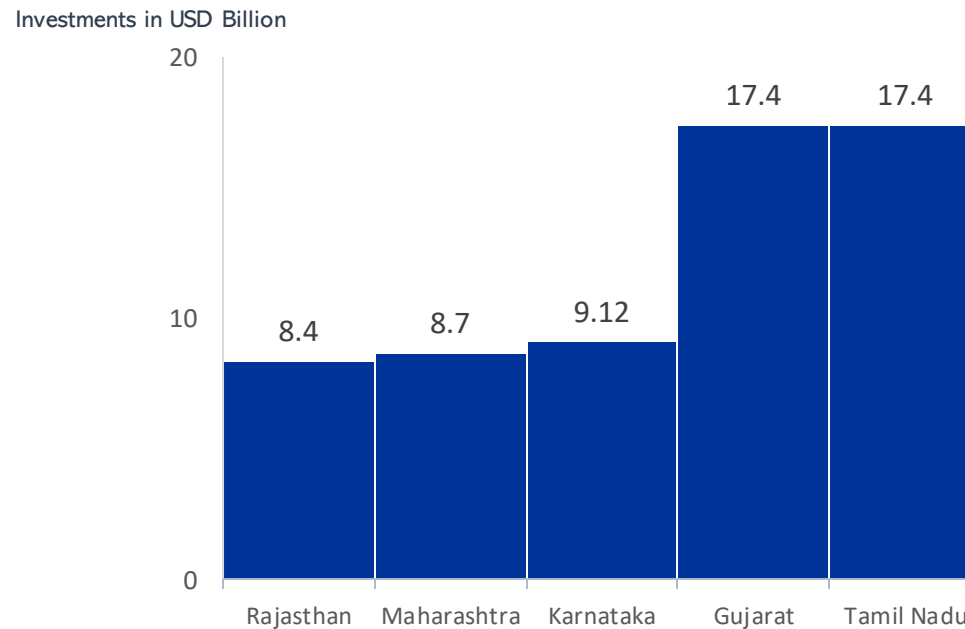
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# State's attractiveness for wind

**Tamil Nadu & Gujarat** most attractive destinations in India for onshore wind projects. Tamil Nadu & Gujarat both are likely to witness maximum investments across scaling onshore wind energy space in India. The states cumulatively offer approx. **USD 35 Billion** investment opportunity till 2030 vis-à-vis the targeted capacity. Presently, Tamil Nadu has 9.6 GW of wind energy installed capacity

Top five states in India with most anticipated investments in the onshore wind energy space till 2030



Key market trends catching up in the state of Tamil Nadu



Denmark companies planning to invest USD 5-10 Billion across renewable energy space in Tamil Nadu



4GW of offshore wind energy project to be commissioned in Tamil Nadu by 2025

Note-

1. Investment opportunity estimated in line GoI RE targets till 2030
2. Investment opportunity estimated w.r.t. the current share of states in India's overall onshore wind installed capacity

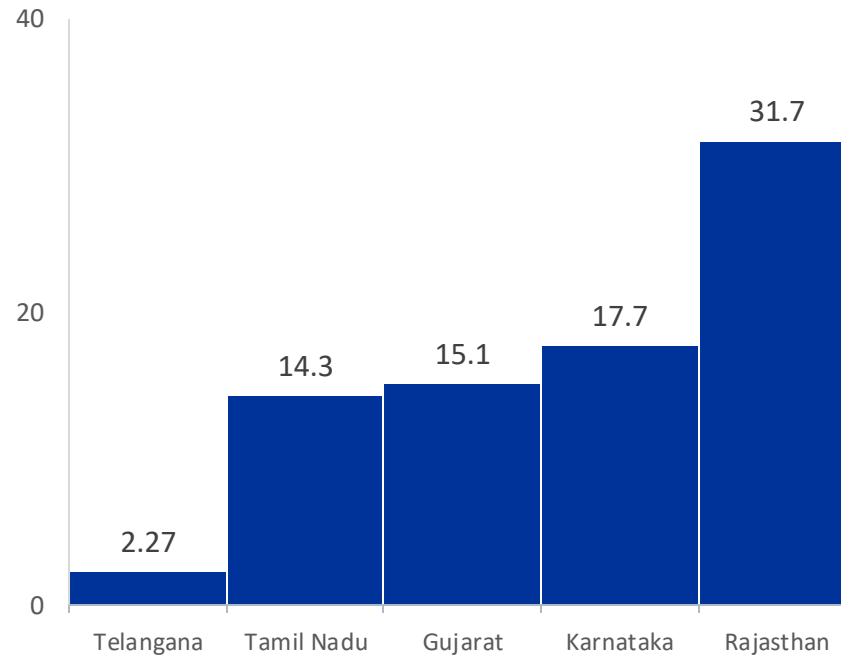
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# State's attractiveness for solar

Rajasthan to be the most investment attractive business destination for ground mounted solar energy space. An investment opportunity of close to **USD 32 Billion** is anticipated in the state with expansion in ground mounted solar energy capacity by 2030. Karnataka falls next in suit with an investment opportunity of approx. USD 18 Billion. Top five investment

Top five states in India with most anticipated investments in the ground mounted solar space till 2030

Investments in USD Billion



Key market trends catching up in the state of Rajasthan



09 solar parks have been identified for development in the state by Gol

The aggregate capacity of these parks would be 7036 MW (i.e., 7.03 GW)

The cumulative investment opportunity for these parks stands to be approx. USD 4 Billion



Rays power will develop 1800 MW solar park in Rajasthan at a capital cost of USD 1.1 Billion

Note-

- Investment opportunity estimated in line Gol RE targets till 2030
- Investment opportunity estimated w.r.t. the current share of states in India's overall ground mounted solar installed capacity



USD 16 Billion of MoUs have been signed by the state govt. with public & private companies in the green energy space

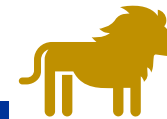
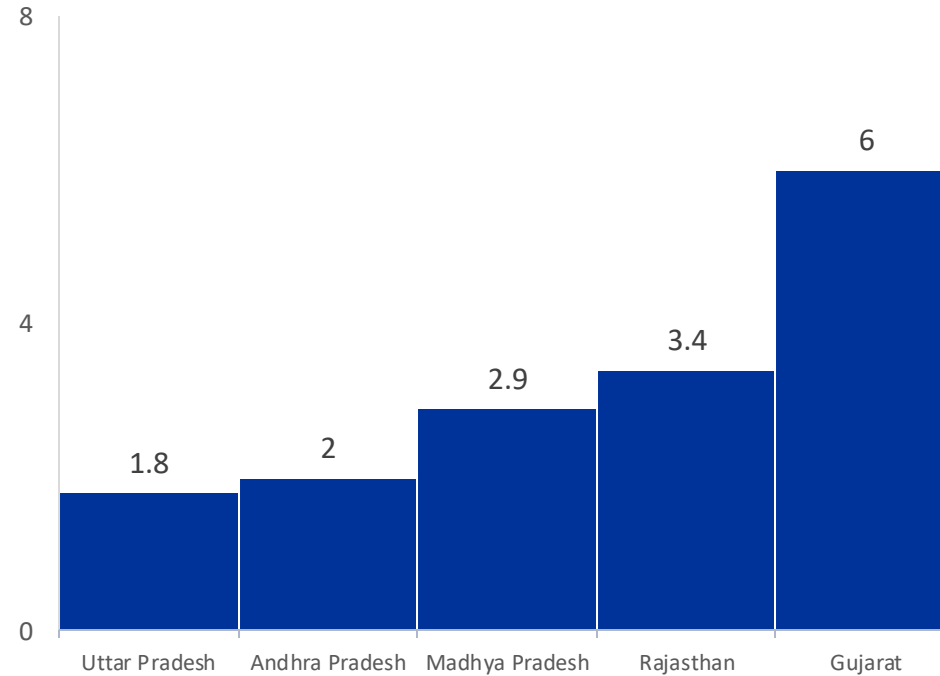
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# State's attractiveness for solar parks

**Gujarat** to be the investment centre for solar parks development in India. 12 GW of solar parks have been approved to be installed in the state of Gujarat under the scheme – “Development of Solar Parks & Ultra Mega Solar Projects” that indicates a capital investment of approximately USD 6 Billion

Top five states in India with most anticipated investments in the solar parks

Investments in USD Billion



Key solar parks trends catching up in the state of Gujarat



Total 07 solar parks are coming in the state  
 02 solar parks of capacity above 2 GW  
 01 solar park of capacity above 1 GW



NTPC to develop largest solar park of 4.75 GW in the Rann of Kutch

Note-

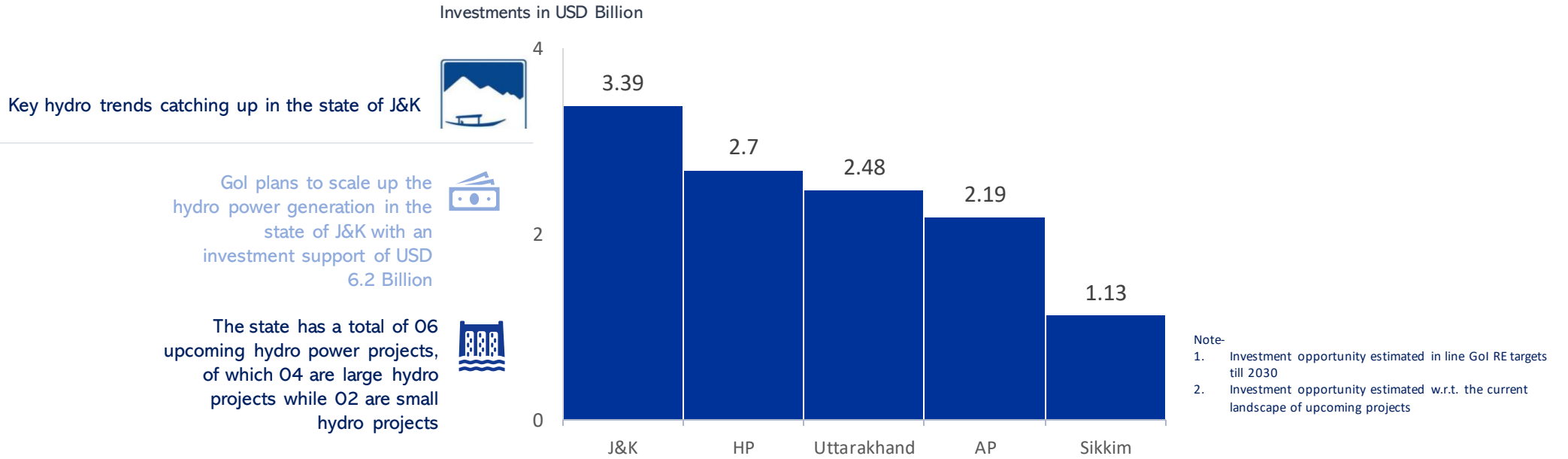
- Investment opportunity estimated in line GoI RE targets till 2030
- Investment opportunity estimated w.r.t. the current landscape of solar parks announced under the scheme

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# State's attractiveness for hydro

About 11 GW of hydro capacity is upcoming in India till 2027. The state of **Jammu & Kashmir** has maximum upcoming hydro capacity of approx. **3 GW** to be commissioned by 2026. Of this total capacity maximum projects are coming up in the district of Kishtwar.

Top five states in India with most anticipated investments in the hydro space till 2027



Source: El MRAC Reports, Channel Checks



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