

## Pakistan's energy choices

New policy debates and challenges

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## Pakistan's current energy mix skewed towards thermal



Institute for Energy Economics and Financial Analysis

## Fuel mix guided by political choices

- Legacy GENCOs and thermal IPPs in operation since the 1990s
- Addition of LNG to fuel mix by PMLN government in 2015 through Power Generation Policy 2015
- Initiation of CPEC, bringing on addition of 6.9 GW of imported and domestic coal to the grid (6.6 GW already operational)
- Mega hydropower projects/dams supported by MDBs (Irrigation/Power Generation)
- RE policies introduced in 2006 and 2019 but policy hurdles prevent widespread off-take (Current share only 7%)

Focus on generation based planning- not in tandem with transmission expansion and grid upgrades Overarching theme of energy security and the need for baseload capacity

### **Power Sector challenges in Pakistan**



### **Current Government** recognizes challenges

- Increased focus on 'Indigenization' of fuel mix

- New policy shift towards local coal, hydro and solar energy
  - New ARE targets- 60% of RE in fuel mix by 2030 inclusive of hydro power (IGCEP realizes this through 38% hydro share and an 11 GW hydro pipeline)
  - Recent announcement to shift imported coal based fleet to Thar coal
  - Announcement to replace LNG with local coal
  - Announcement of Fast Track Solar PV Scheme 2022-envisions the addition of 10 GW of solar PV to the grid through various programs



Pakistan's forex reserves with SBP drop to 9-year-low of \$3.09bn

Dawn.com   Reuters   Published February 2, 2023	ſУ₿⊠₽
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Pakistan's foreign exchange reserves held by the central bank decreased by 16.1 per cent to \$3.09 billion in the week ending Jan 27, the State Bank of Pakistan (SBP) said on Thursday, which analysts said covers less than three weeks of imports.

#### Crisis-hit Pakistan strikes \$3bn IMF bailout deal



#### Pakistan receives no bid for six LNG cargoes

Sources say no companies responded to Pakistan LNG Ltd's tender to purchase six shipments for Oct-to-Dec delivery

By Khalid Mustafa June 21, 2023

# However economic woes continue

- Low Forex reserves and a widening current account deficit leave little room for further energy imports (reserves hit to year low to USD 3 bn only)
- Credit downgrades create high-risk investment environment
- Extremely high policy lending environment-Domestic Interest Rates as high as 22%
- IMF program has resulted in repeated increase in energy tariffs
- No bids received for flagship initiative under the Fast track Solar PV scheme
- No bids received for six LNG cargoes tender floated after almost a year



### How can China help?

- Investments in RE by China have been limited (Only 300 MW of Wind and 400 MW of Solar)
- Shift of financing from thermal/hydro to VRE
- Participation in solar tenders and setting up of local RE value/supply chains



## Thank you!

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