Pale Affairs - 4 fizza the Nacem

Question No. 2 Analyze the root cause _____ this cycle. Interduction: Energy availability is essential for the developmentof a country Every sector contributing to growth is industry, depiculture, administration etc operates on energy Patistan's energy sector has long been plagued with persistent issue of circular debt which has now ballon to over R.g. 3 trillion The recarring problem of unpaid bills and arrears anong valian stok olders including power generation companies (IPPS), distribution companies (Discos) and the government itself contributes to circular debt. The root causes of Pakestan's circular debt issue in energy sector includer; expensive energy generation, nefficient Independent prover producers (IPPC), subsidized and non-payment / default on electricity bills. Only a sustainable approach theough sterictaried reforms in energy sector can service Pakistan from this clisis For instance, gradual and transparent tariff adjustments, renegotiation of agreements with Independent power producers (IPPs), improved billing and collection rystem, energy conservation, sevamping transmission lines and focus on long term planning etc. A transparent and accountable energy sector with financial management will pave way for sustainable future of Pakistan



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<u>Circular</u> debt	civir in Pale	<u>istan:</u>	3-	Root cause
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- Root causes of Pakistan's circular debt cisis: O- Subsidized tariffs: One of the main cause of growing arala debt is the yourment's practice of tarillo cubsidizm electricity or agriculture Edustrial sector This provides temporary relief and help boost low cart production but in the long un, is a heavy buden on national exchaques D. Growing energy demand: According to International Energy Agency (IEA) energy demand for Pakeilan 49000 MW by 2025 with. allead exceeding production demand (19000mw) (17000 mw short fall the energy Undshedding for around contributed to persistant areas and more in indarces 4-5 hour in Ulbar Highlight the reference 3- Exponsive electricity generation: Pakistan produces the most expensive electric Asia and is ranked 3rd in Global sanking bangladesh and India produces approximately 30% laraper energy ne with in mistor langes from The high arailai debt. has - 64 Rs /hr se price range for further incuased commercial unit in last feur years Add source against your data/references!



. D. Imbalanced energy mix: High dependence on: contributing to environmental chars but also citadas Sobt Pakistan import 64 acount sil fuel in energy mix in LPG or LNG (liquifie's nature) fossil fuel naturel gas which leads to import cost of around \$7bb (2021). 5- lack of focus on Renewable Energy: Renewable energy like solar, hydropower or wind contributes to 4% share in energy 4% share in ener This low share is primarily due financial los associated with 2 Energy produced by Pakistan 2016-17 42 123 terawatt hours with miny 2016-17 2.2% reneurable energy 6 - Poor transmission and distribution system and line losses ! The transmission losses and electricity futher increase the circular thelt "The Nation", Pakiston has lost around 20m with the to line losses and electricity telt is 2020 only The trend hinder meeting the energy demand of lakistand_



Sustainable solution to break circular debt cycle : Renegotiation of agreements with IPPs, The causercy exchange rate and capacity payment agreements IPPS ith baux redundent government should the lenegotiate IPP agreement such that - Capacity payment around 35% lamoved exchange rate should be Considered reduce financial builde to D-Focus on line losses, theft and recoveries: Revamping transmission lines on the Bult and transmit model will help provend leino electricity neft. The bill net losses and should expanded (especially bo government privatize DISCOs and sector) Gencos incicese efficiency and accountability 3. Inclease renewable energy is energy mix. should explore more reneerable Pakestan option energy production - Instead Acc order AEB Board Pallista Allenotive Development), Palistan (cn -prod renewable sources ine solar w nydupower eti



D. Re-introduce Net Meterny programme: The Net Metering system was in 2015 in Pakistan. The ene pr intraduce by the people under this enci produce with energy shortfall in a sustainable ashein. 24 - Rulistan produces around electer city_ 164 be saved (by 2025) them, upto \$1.5 bn (by 2025) 5- Utilize energy storage technology and sugar mills electricity production from waste Cakistan should manage the high demand Summer storing excess electricity sgason witter is method is used can focus on efficient energy production Sugar cane in be lised to produce ency waste shorld like in India and 6_ Implementation of Alternate Renewable Energy Policy (ARE) 2019. Pakistan introduced An Alternate reneurble policy (ARE) in 2019 with objective build Lenewable sources ccn. where lilio ently for energy production nted 1 care tis mir share nciese and leduce energy venewake energy shortfall



Improve the references and the paper presentation part Conclusion : The energy wisis due to uscular debt in akistan complex and 0 deeply Do ed problem which requires multiadled approach to esolution Th government along with other partment (an tako W stamable the improve situation and upend. transparent. nancial management will p patheway for recovery h and with will provide from uncular left Question No. 3 Ulbanization - · · · population . Introduction ! The 2023 attonacion Popupalation Census of Pakistan, the growth rate has incleased to 2.55% with total population of around 241 million with limited water supplies population growth and hydropolitics, the Domestic water management in Patristan needs to be revenped to pomote conservation and access to clean water to population - A new -price g model, renegotiation Indus water treat , Solving inter-provincial problems, water sighting proprammes and allocation of water form agriculture to domestic use will help solve the domestic water ausis aisis



Policies to enhance domestic water management 2. promote conservation and ensure dean water access to population. (1)- Water management - not scorce but poorly managedoe: Although according to IMF, Pakistan is grd most water scarced wunter, the main visue is not water scarcity but water mismanagement. In the words Q Dr. Ishrat Hussain, "We (Pakistan to not have a water crisis we have a failure of governance with regard to water Around 80% of population in Pakistan is facing sevele water scarcety _ with only approximately 1000 m³ water available per individual (acording 2017 data). Hence Poper mangenel through pricing model, modern migduin wysen and recycling water water will help tackle the problem at hand. (D) Reallocation of water away from agriculture, In Pakistan, the agriculture Loctor user 96-97 ? of frush water while unubuter to 80% of GDP. With areas 80% of GDP. with acco

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Balochistan (Quetta) and some parts like facing decrypt (occassional), Sindh mismanagement 0 inter - provinciel water in agriculture han and water issues. led to 3. Revisiting pricing model: pricing model of Rekistan is The culent Toppoxime not suitable long term Yd. to inclea Jeepage Pakistan 000 income prices Cerera the unter people unare and make usage - and doman erences/examples against these (D. Focus on demand management instead of increasing supply-Considering the current scenarco, making scarecty dans wont solve the water will surely increase 91 but if autont and der water waste \$0 capped the trealed There focus on redi should efficient water utilization -ora B- New technology - oriented agriculture practices: Agriculture revamping can help reduce water burden in Pakistan Dnp Magalion aystern, terrace forming etc. help in



efficient use q water while increasing production as well as GDP. @-Reducing water containination and wastage (7) - Solving inter-province disputer - waler availability to lover raparias region and population Timely water data monitcipy a 0sharing Indus Regulation River for water management to Indus treaty 61960 ystem Empowering Authority (b)-Re negotiate Short and incomplete answer. Add more Conclusion: arguments Paleistan's growth in population witch AID is scarce up ratch vent officient an resources. water incremen twe water availability alil insue domestic sector but steps must taken now! A 20 marks answer should have around 15 subheadings