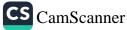
Date: \_\_\_/\_\_/\_\_ MTWTFSS Inhat are the major reason 81. behind the pessistent energy crisis Pakistani Propose viable solutions sustainable energy security? Energy crisis one of lhe in major essues Pakistan hampering today, faces growth. The term energy orisis refers CLANDMic fall Short the resources ading not even electricity moduction expensive is meet alimands. Pakistan enough to lhe lacing persistent almost decades energy crisis Luo for because of Internal but also issues only international because Challenges ajor Keasons :akistan gained independence it has Since the unguitable hacing multiple essue aue These added distribution the resources. to miseries the new born Country Shat still sustanab development lights 101 goowth and Supply 1.1 Rmand 4a The Challenge enormous



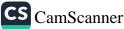
MTWTFSS Date: \_\_\_/\_\_/\_ gap energy sector has gotten and She demand Trouble. REPOILS great According resent the energy the demand 30,000 MW while is Supply range OF never exceeds beyond 20,000 to 25.000 MW. Įα legding 10 shor Infrastructure Pakis tan's energy lansmi infrastructure outdated and 09 is for energy last during ansmission neatr has 12000 MW of pro duction 22 only .000 Can be transmitted through this system fuel Prices 1.3. Rise in International Due to War, international Russia-Okraine oil tusped. Russia is the third Supply are dis exporter of oil accords the producer and largest US Ēυ sanctions on lhe. globe. to international prices spiked lhat sil adversely energy Impactio Sector Pakistan. reterences the Að source against it as well 1.4. Reliance on Fossil Fuel 1-2023 -reports Pakistan to According rely



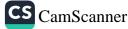
Date: \_\_/\_\_/\_ MTWTFSS production. 65% Chennal on mainly energy moduled the energy obtained Cassil mainly fuel OU gas. Even 70m billions dollar worth port Pakistan to has year Gil for JUNPOSE Circular Debt :-1.5. crippled The Debt has Victous Cycle Pakistan pay energy sector. To has the Su idizes of AKKs. Govt debt 2.6 Tuttion artificially. Less electricity kee orices Ding collected Losms money is in loans lake erder to in gover nment au has debts. Energy Crists 7 bills paid. PSO WAPDA wailing Recieving/collection les money than "expected . tyment IPPS From to buy oil & fuel from Intervitional market PP. waiting for bill collected from WAPDA irala fig Debt 1.6. Policy Making: Jovernance The , NEPRA & WAPDA In Corruption ping +1



Date: \_\_\_/\_\_/ MTWTFSS manangement institutions other power is due lack of effective to strong governance public policy. Government har made Capacity with JPPs leading to gareements based lho horm burden on mcreasing econor debt. 2. energu olutions for sustainable Security 2. Hhouar energy crisis Very thicat to Pakistan's econ my as all major sectors luding industry , service & agriculture, yet issue can be miligated this taking necessary measur 2.2. Diversification of energy sources :-Pakistan hus potention of 50,000 NW of energy couple of million of ana MW Solar energy, only produces fro enery of total enewable sources selying more on renewable energy sources against fosil diversi fying and lhe options lead to fuel will more sustainable energy a production method.



Date: \_\_/\_/ MTWTFSS 2.9. Upgrading Infrastructure :-Pakistan needs to upgrade its energy trans. mission infracture in order to minimize the transmission loss. By merinizing the infrastructure 10 Pakistan can Sine upto Anelso billion rapees annually. 2.3. Building Dams: Pakistan needs to build dams to store water and use it for hydrothermal electricity generation. Building Diamer - Bharla Dasy Dam will add 9000 MW of energy to matimal grid. Moreover, Government should sesolve Kalabagh Dam dispute, which add 3500 MIN of energy to the 2.4. Addressing the issue of Circular Debt: Parkistan needs to break this vicious wale of circular debt. For this we need to revise the contracts with JPPs. The contracts Should be user based and not capacity based. Pakistan needs to minimize the subsidies of energy



MTWTFSS Date: \_\_\_/\_\_/\_\_\_ sector and improve the sevenue collection system 2.5 Public- Private Partnership: Pakistan is in dive need to switch from Independent Power producers Public - Private Partnerships (JPPs to PPs). CPEC energy has already added 5230 mW of project energy, domain. we need to work on Theis 2.6. Regional Cooperation:-Due to its strategic location, Pakistan has leverage of making effective cooperations with neighbouring country CASA - 1000 such project. Polistan can go for such one scoperations like IP gaspipline and project Add more arguments Conclusion: 3 Pakistan's persistent energy crisis can be nitigated by adopting sustainable solutions upgrading infrastructure diversifying the , implementing strong governance policies and prenoting regional cooperation. These measure will ensure a sustainable future

Good structure and arguments