Overall a fine attempt Enay Focus more on addressing Energy CHIS in Paris in Paris instead of givinger irrelevant details Outline: I. Introduction: Thesis Afatement: Exorbitant energy prices, permistent electricity and gas loadshedding and bleeding economy underxore the botter reality that Pakistan is in the throes of an abusmal energy essis, being brought about by various estalyofs, and can be Hemmed by implementing thoroughly an arrayy of robust measures: Relounching net medering boling, sonegotiating costly contraits with IPs and and implementing the demand management strategy-show certainty T. Energy Can empowers or enervates a country in its all walks of life: Understanding the industriable need for energy in the present world present world III. Going facts, proving the deep entanglement A significant electricity Montfall in A huge number of population of the large in the stone-age period: A look Bleeding economy Closure of industry and shrinking wantmant - both yoreign and domes of Exor Briting US Kake energy prives paragraphs/arguments-for-it Page No.

Page No.

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Made in Pakistan

Date: \_ Day:\_ t- Funding shortage and legge circulal debt 1 - Resulting in increased energy prices and decline in generation V- Repercussions of energy crisis for Pakistero 1- Closure of withstry and Mondown in a - Economic business activities 2- Increased reliance on imports figure of copinal 3 - Delline on FDI and 6- Social 1- Unbearable in flation 2- Man unemployment and slugion growth of new oppostudies 3 - Experien of significant problems health and education seems C- Political 1- Exasson of public confidence in the 2 - Aggrandizm governance issues 3- Shrinking country's ability is dependent deux on A The relevant statement of the Chreg of Army State of Pakistan: "Real is dependence is impossible without economic Stability " VI - Some pragmatic solutions to overcomp the energy crisis in Pakillian 1 - Relaunching. of a revised net mething polyge 2 - Renegotiation of permitions contracts with pp 3- Robust implementation of energy demand manage Page No.

Date......20......

Energy has been an indipensable need for mentioned since the day first, and if will remain to be in all the times head. All of activities of humans, in one way or another are linked with energy Every man himself can not survive without therey As the time progressed on and number of heads increased, it became important to invent new tools and fedurologies that would facilitate humans in production of more sesources and achieving explorerly.
This resulted in dawn of the 'Industrial Eva eventually though inditiones continued to spoont all along, they made energy even more essential without energy widnestry will cease to exist, meaning that humenty will also be pushed to brink of amelitetris In present-day world, thus, energy is exential for countries to survive and prosper Unfortunally Paktitan is facing to an enwhential threat due to aincreasing energy cossis. This turbulent Citits is turbulent in Nature, which is evident from its dreadful manifestations such as persistent loadshedding, dismel electrification rate, bleeding economy due to closure of industres and unbearable energy progs. The Country has landed into this challenging time owing to its own inexpictency and ineptones. It is without even & shired of doubt that this cours has largely Hammed from the enpassive goveration of energy due to the Products

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continued reliance on the outdated made of moducing energy & Through forith Similarly the delepident transminoran and distribution crists However, the peramount cause of this policies one to quote is myppic agreements with IRe It is needless to even wenter that unbidled population growth to further adding fact for the fire of energy Entit? in Pakistan. As this turnoil is deepening deteriorating and excelating, the country getting pushed down deeper into the queenire of its fer-reaching, devastating implications. In economic domain, industries are finding it entranely difficulty to survive during this energy crists, thereby being propelled to cease their operations. Moreover, foreign investors are not willing to inject their inency in the country is these even contractly, domestic investors are Mittaly their capital to oversees. In much of the same way, the social domain of the country is also being shaken to its cove by the ononly engo as people we reality to an exceptional in flations and sprouting unemployment. Front carry the crisis has also held the political domain in a Nate of Jeoperady Political setup is witnesself a growing erosion of public confidence and aggrandizing governence inch. In fact, klura is in the claws of energy chir. 3h Products

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Over time, energy has become entremely important for countries As absence of onygen can end a human's life, absence of energy can perparadige an entire enorgh energy, almost all the setivities in a country take place. In economy, from managachery, to distribution of goods, all are and dependent on energy Even if a country is not inclustry-griented, it will needs energy for other sectors such as agriculture or service soundly, the importance of energy is apparent from the feet that he the and education sector will be rendered paralysood by lack of energy. Moreover energy CADIS spanning various political problems especially governance insues, public sceptistion and weakened decision - me king powers thus, it is very true that energy can empower or energenate a country in its all walks of life, of Adustan— the country that is deeply mired into energy wints. Went on different ment gestations of energy entits in falcottant. is the first and foremost waterest in of the prevalent energy crisis in the country. It is indeed a herculan take to megt the entire demand of a hugh population. However, a large number of demand bemeining to be unmet

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per verious reports, in particular that of by the 'National Transmission and Despetch Company (NIPC), there is an electricity Most fell of 'Food MW' in the country this number represent that & large number of households and businesses do not get their energy need completely satisfied Due to this prevalent energy thortage, domestre and commercial cities is getting enormously affected. Thus, the envitury huge electricity shortfall constitutes the major evidence of buergy crisis in Patriotem. Vary angostimetely, the country is unable to meet demend of the segment of the society that is having the electricity and gas meters; how come will it manage the chamber of the segment that is outside of the energy inforastructure? This leads us to another mentgestations of the energy ewil in the country: Dismel electrification rate. It is honorthy a very susprising thing that I huge population in Pakistan has not yet evolved into a modern agas this set of population, very miserably in the stane-age period of it does not have sicen to every at all. According to the latest report by the Asian Daresprent Bank' (ADB), 254. of the people in Pakistando not have do not given to electrically. It highlights that only 75%. of the population gets enty electricity everyday Kenegore, the chimal electrification rate underscores the fact that he country is deeply entrapped into the every

Date......20.....

the time when it is a mirage for Pakistan to meet the needs of its huge population, meeting the exectivity and other energy needs of burnenes is out of the question. Owing to the enviting energy CNTB, at lerge number of businesses are uneble to operate, thus swallowing the bother pril of closing down, which in tun, is making the economy blead bade. This ongoing energy entit is hamperify the abstity of the industry to do spordelle production as the enparitive electrify is forcing them to increase process. In turn, people are either to appointed atternations or moving on this, in perticular, is melany businesses to to suspend or cease sperations. Some reports have highlighted that more them 400 inclushes have closed down alone in Fats lebad - the hab of textile without my in the county. This indeed reflects the monthade of energy CNITT in Paleis tam.

The only Alver lining in low electrification rate in that the people who do not have accent to electricity are sperced of beauty, a person has killed his forother for failet to pay heavy bill of electricity. Hence, an unbearable price of energy is another stark mentilitation of the energy contit in laboration. At present, the energy prices are way too high for people to bear.

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Date......20......

The carrent price per anit in Pakistam is more
then 65 rapeer 1s compresed to this, per
unit price in Indix is only 21 Pkv. Both

people and businesses eve unable to approved
this costly electricity in Pakistan. This is

resulting in hempered business activities
and growing trustration in public, which is

well evident from the incident inted in Eggining.

Frago, the included energy prices are an

irreputable hamisestation of the energy exists

in Pakistant.

All these manifestations emploised in above paragraphs indeed validate the conjecture that takition is answared into a net of 3 deep emergy exist the question award here that how has this crisis aparagraphs in the first place? So the following paragraphs will bring into account a diverse statutes of causes that have incubated the energy exist in likisten.

generating with is the mejor reason of the prevaling energy crisis in Pakistan The country hourily relies on the thermal energy, which contributes more then for: to the total energy product con in Thermal energy to produced by fossil fuels and coals. Since latertain does not have its own sit reserves, it imports from foreign merbets. Firstly, these imports increase the cost of production significantly and then the payment in dollers fanther fuel the cost per cent Unjorhenstely Pakistan

13h Products

is not managing its own resources properly.

The country has page potential in renewable emergy. Moreover, it can use its coal reserves in ther' to produce charper energy, but it has failed to emploit these options, which is a good example of the old saying " Near to the church, faither from Good. In energe, the present energy cossis Grod. In enerce, the present energy constitution of stemping from the high energy generally Moreover, the enormous lopes in the transmosson and distribution (normally referred to as 180) domains is another vital cause of energy courts in Pakistam the country her mostly said its all attentions to generation energy more and more; nowever, completely over looking the other mejor avers including transmission and do twhiten, which are under mining its overall efforts. Over the time, no significent seps have been taken to severy or reinvigorate the develop T&D infrastructure. Owing to this, a huge volume of every lowers lake place in the process of supplying energy to the end users one of the Assam Development Bank's reports here revealed that Palestant has the highest transmission loved in the region - in numbically stand remembere near 40 1. Moreover, the overall CNSTT &s being juelled by the sampant electroty thest Kundi culture' and ineffectives of the distribution companies to recover boiles. Allogothers 3h Products

these diverse attments are afflictule the energy sector in Pakerstan, making it almost dys functional. Likewise, letk of political will and in constitlent politices are also a chief goise of the ongoing energy crisis in Pakistan.

If a country has a strong leadership, it will frighty never descend into any gossi; and in case it does, the leadership will sail it out of that Unjoytemately, Palestan is reality in the present corris of energy due to the flewed policies and lack of Countries.

For example, the country has taken a very mill seeling the country has taken a very policy called 'Net Material. With this policy, the country was poissed to bridge down the energy shortfall to a great proportion. The energy major has premured the government for this unprofitable step. Smillerly, the loss-inducing policy with IPPs is another strong evidence of inseptness of the government. However, the last of political will in the real with the treal decides, the coming has seen no dam being constructed, and the mother of Kalabap dam' could still not get settled. Therefore, it is frue that the energy CNTT has grown due to the government's inconsistant policies and lack of political will. In addition, the boggest cause of every crisis in Whitetom is the entorive politics growth and white economy. It is a universal

3h Products

Date......20.....

phenomenon that when population number grows it somes the bunder on the shoulders of a country, espectally draining its resolver. Over the past yew decades, the population in Aleistan has grown significently, leading the country face ventous chattenges - including the energy issadeguxy As per an extracte, the strong population will add a burden to love MW on the energy sector every year. Similarly, there is egradual rise in economist too As the economy is prowing, need for evergy to also going up substantially thus, these two areas— population and economy growth—
are fuelling the energy critis in Palwitan, especially impeding the country's efforts to verigate itself out of this men. With enormously growing population and a gradually ovising elanomy, meeting the energy demand in its entirety is indeed Wike chasing rainbows for lakertan Amidst This, Pakistan needs to focus on conservetions of energy, which is almost non-quist on Valuttan. This unveils another cause of the energy critis in the country: Absence of & country has a huge potential to say a large amount of every every year. People are not contribing wasteful use of energy in the country. Shockingly, the consumption par unit of GIDP is much higher in Palettan then that of the USA and Japan. North robust measures, as suggest by various seports, he

13h Products

Date......20......

country can easily conserve energy upto 2500 Mm every year, which is indeed much - meaded given the promothy energy exist That, but of implementation of so vobust energy Conservation Montegy is 9 10 Wed region behind the continuity energy crisis In lest, the funday Mortage and a leige corcular debt are also the megor reasons for the emption of the energy contito in pakirtan The country is facily of situation of from cial crunch owing to string debots and stagnant ten regenues - which stand at 9 domal level Owing to this, it is unable to construct small scale daws to module hydral energy- which will also Moreover, inadegrade funds are a lot horderance in the way the country to upograde antique and described townsmission and distribution infrastructure - old not less then contertes. Brove all, the longes due to this inefficient infrastructure and resulting in enorpotantly increased electrosty the energy entits in the country is bening nuntured and raised by the afficient frames and smarring circular debt the prographs above here entensively unveiled the gravity of the energy crists in Pakirton. Due to this crisis the country to ailing & plethorn of consequences. The subsequent paragraphs will discuss these consequences. First and foremost, the energy cmil

Date......20......

making Pakistam's economy suffer by inducing wishestry closure and Mondown in business activities. There is goes & wonderful saying that demonstrates importance of energy to 8 too industry and economy: "Energy is 8 facel of industry is a wheel of an economy Paktitam's economy by, Thus, paralysed because of a fammed wheel due to leck of adequate ful Unberrable proce of electrify and personstent wadshedding are forcing businesses to stop their operations or seloced them to other countries Alone in Fattlebad - the hub of country's fentile inclusting - more there 400 business here gone shut, as per a report. In the same menner, due to enpensive and inadequete evergy, the businesses that are stubbornly operating are facult showdown due to their vocased porced, which and proving to be unappealing to the public Mence, businesses are becoming the proine voction of energy onto, thereby injustry

In the skee of decliners supply and closing business, will the people to an fasting they will have to setting their needs. This instructions to the other implorations of energy cross, that is, the increasing returne of the country in the imports from fireign country for the imports of the country in suffering from an enormous trade

deficit - that is the country importing more than enjorting. It is, in every an inevitable outrame this ongoing energy const. At the time, when industry is closing down or is unable to do optimal producteds, it can not be expected that the country will be raise it enforts or meintain the emistent ratio. In this never to the country is rather pushed to imput more to meet the immet needs of the citizes.

It is no different case to that of the country's wheat imput policy Due to floods in 2022,

the equivalent produce were almost scent which forced the country to import wheat from Ukraine is order to meet people's yed. As industry is closing down or speaking at & lower productions level, & levger number of people's needs are injulys led this forcely the country to expand its imports.

When the environt industry to unable to smoothly operate, the expectation that more POI will seep into the country is nothing but ? wtopsan thought In the wake of the away CNIST, there is & memosth decline in FDI and a mamooth the in capital flight from the country. Vakithm is already desermed as & country with the least conductive environment for the burnesses, owing to the fravous reasons - are to mention is security At such & time, the energy cons is doing nothing but added fuel on the flenes. Why would an investor want to invest on a whole elephysis! Wouldn't it be pernicous use of his weath? Owning to reasons, wherefor

from foreign countries are discouraged to wovest in Maleritain as they deem the country unluerative for instance, to attract the PDP into Special Economic Zone 1- to be built in the energy infrastructure pirst, because energy is the brodhie requirement of brushed. They declining FDF in Nalystam is owning to the enisting energy com the adverse effects of energy civil are they are spiraling into social domain as well. Unbeerable in lation that has enguled of energy casis. Porces of all kinds of goods and services here soaved sky-tigh Nowadeys, people jeel lergely incepicitated to make their ends meet this hike in porces businesses or their closures there is a wider shortage of commodities thus things have become very custy Besides, as the economy is not preking up the curry of the country is devaluing methorically. This also result is lower purchasof power of the widerchals. More importantly, companies are forced to raise prices as they are buying saw meterials got very expensive safes due to costly energy the Whichin has become such aliming that bright enertials such as medicines, for instance, here become a life-death question for the people Thus, prices are negity too high in Paleston due to

the alegy critic. 3h Products

when there is a rituation of high inflation but also businesses as their set put semains unsold at a large real In this case, burnience Mesh their production. This brings forth another Consequency energy conti, that is, mass unemployement and and Muggoth growth of new opportunities. On the energy is breeding the plague of high millation, people's demand is withering, melining businesses to curtail their production level, or employe evenues for Cost cuttery In such grim condendrum, burnierses are legue of their employees at a large with It is best reflected in the fact that the unamphogment rate in Palierson has wien over time in sease of goods down, presently standing at above 71. Apart from this, new opportunities are not being generated in the country as burnesses are not growning, rather closing down Foreign direct investment has significantly reduced because of the prevailing energy cross. Frontelly, domestic investors are not willing to invest in the country as they believe that the country is no longer a East cow'. Therefore, the energy corsts is not only cousing mess unemployment but also hemper in incubation of new opportunities in Palesta Another highigiant consequence of the energy ensis for Palerton is the linder performing health and Education sectors Both the sectors are heavily reliant on the electrity shight disturance in supply of energy paralyses them almost anglety

reports here outrymbly mighlighted that one of the various reasons behind workegone education sector is inadequate availability of electricity. As per a seport, more than 15%. schools in Balocastan do: not have sucess to electricity. How can students get quality education in a such & painful somorphical In there recent board enams in Karachi, meny students fainks during their papers due to reaching heart and unsvallability of electricity in the same menner electrity is esented for hospitals without it, operations or treatment of patterns is not possible. Even bed-wilder patients will yake difficulty during their under-way course burning there recent prolarged enteges, sever of dozens serious operations were either concelled or purposed alone at Turnah hospital in Karachi as per the internal report of the highest There reveletions indeed demonstrate the feet that the wealth and education sector of Palwithan are badly seeling in the energy costs

the public confidence is significantly reducing in the government Generally, people place an immene confidence in the representatives they choose and expect that their miseries will pet squelched; however, if there continue to explicit them, their confidence evader beople in Pakerton have been july the energy problem wine ages the current governments have failed to overcome it. Even the problem has now escaleted into a critis of great serving

From bearing the pain of few how I gas and electricity load Meddory to the current outages spanning days, inclosed the Crisis has gathered every storm into it for instance, there was a national level of electronity outage on 17 january of this year but to this dread jul energy Crisis, people are paramountly lossing their trust in the government

The Cert but the most significant implication of the ongoing energy costs is the Minking agrify of the country to make independent decision. Without energy an economy can not become Nable and Capting towards prosperty Energy in adequate grow and enjoys size. Injortunately, Palestan is surround into the genomic conis due to the energy comis consequently, it needs to soly on powerful and applicant nations for financial help lese nesteds help it but with entracting gravantes to reported their interests and aborde by their dicharies For instance, Index easily leased the "Chebeher port from Fran recently but Palettam is sorth springslife to complete pipeline egreement with Fran - which is its sovereign right in every respect this reflects transperently the power gernong. Even the chief of thing staff of Palestan himself admitted, "Real independence for Palettan wer in economic prosperty " without averthouty of edequate energy, economy of the country can not grow thus, it is true that the processing energy CMIT is hemperary economic growth, which is fun depriving Pakitom of the power to make independent der in

Oriver the gravity of the everyy coitis, which evident from its fer - reaching implications that here been discussed in the above pargraphs, it is essential for the country to safely nevigate its wayout of this storm for the rule nevigation it needs to follow some unavoidable steps. following paragraphs will ennumerate these steps. cross, the country needs to re-introduce a revised net meterny policy. The government had the reservations over the net-meter uff one of the major consens was that the government their surplus, generated electristic this was not 8 by deal; It could reduce the per unit rate. A ranged policy is the need of the now. The government must introduce it egans. It will help lovidge the demand and supply Sup. Is per seports, under the merious policy, nearly 3000 MW signe was touched Moreover the revised policy will promote the green energy which is now on question of the country's nuvinal, convidering unebated natural disaters. In addition, it will take of the burder of producing more energy to need the growing demend, triggered by wing population to further relieve the burder on the government Moulder, it can stipulate in the powery that all public offices will install soler penels on buildings to julied their every needs. Therefore, a revised net meterny policy is no larger 8 Choice but necessify to end the enjoying my

Secondly, Pakistan: government must renegotiate costly contracts with the IPPs One of the chief bearing behind expensive every in the country is IPPs - Independent Power Producers. They are charging very high over-capacity payment rates. Eme reports suggest that out of 64 rapeer per unit, there are 25 rupeer capiesty Charges Basically, capacity charges are the amount enagy that IPPs can produce by their overall capacity. Under the current contracts, the foremment has exceed to pay this, in a book to attract more invertment in the everyy sector. However, these agreements are now an albations around the country's needs, veguring immediate repregentation as it can not revolve unterently In senegetiated contracts, the government must make two charges: payments in supers not dollars to EPPs and the model Mit from "Take ar Ry" As & result of renegotrated contracts, energy prices will become sustainable and levely apartleble. Above all, they will book industry by meling later time's enports in tunatingly competitione and domestically buyable. Therefore, it is impartive for Paliostan to recomp the permissions contracts with the TPPs is order to sem the prevailing energy

demand management strategy will help the country to got over the energy corns. The lesert census by the Pakertan Bureau of Statritics has shown

the country has one of the hignest population growth rates in the world - with 2:557. per annum. In provalled with such a huge vise in population, energy damend reports that the country will an increase of loso MW energy demend every year this indeed undernoves the fact that & mere yours on supply side will alleviate the energy conson It regular the country to properly manage the demand - Nide of weat Resently, commented per GDP unit in Palestan for energy is way more then the UA and Taghin, reflecting that energy can be conserved. In this pursuit, Paleottan must implement denend management strategy which is virtually non-existent in the country. It should incentivize the consumers to reduce the western use of energy in household. Besides, it mould substidize the modern electorally technologies and tooks that are every-egricent or help in conserving every. Apart from this, the National Energy Eggrisenry and conservation Authority (NEECA) Mould play an increased role, especially countdowing the months unbanization and growing demand for ene If must undertake instratives - such as ventral housing instead of horizontal housing which is indeed every appretent and develop a strong pet regulation for promoting energy- serving practices in homes and offices therefore, the country needs to focus on the demend side as well to huge amount of energy through energy

Date.....20.....

In a nutshell, the dark clouds of energy esisis are laming over Pateistan, which is evident from the inflated energy prices, incernant electricity and gas load shedding, and industry closures the country has landed into the man partially due to to own miscolulated decoppos and pertally due to outside factors. Being blened with an enormous potential in the reveneble every the country is rea velying on the thermal energy sources It is because of this over reliance on the thermal everyy-that the energy generating prices in Pakritan are entremely high similarly the country could not yet appeade eges old transmission and distribution infrastructure, which is precipitating heave energy lones what actually is adding the fact on the flemes of every Cross is the inconsistent government's powers and leek of political will, both are apparent from the unresolved metter of dem - butters. As this exists continues to deepen and lenger on, it is inevitably melling the country bleed is its sours-economic and political domains, in particular. the country is beening the borunt in the form of industry closures and slowdown in business edistries finisherry, the every crisis is hemperory the inflow of PDI into the country and leading to a memoster increase in the inflether raise As there goes the super: "There is no problem that does not have solution. The country can benedy this autment with steps such as se-continuing net westernly policy and venegotraly contracts with the TPPs. with overcoming this critis, the country will be