		7
******	36) Huge transmission and distribution losses	
-	36) Huge 4 arismasion of Joseph	
•	=> Approximately 331/2 losses	
-		
*	3c) Outdated infrastructure of energy sector	3 . T. I.
	> Tasbela dom and Mangla dom	
		8-11-11-1
	3d) Inadequalé efficiency of refineries.	
	⇒ 36% capacity of refineries and	
	> 36% capacity of refineries and remaining lossed during process.	
	mensioning was of	
	Will a Olivian	
	3e) Culture of energy theft in Pakistom.	\
	+ Good loss due to energy that - to ener	By Minister
		<u> </u>
	3f) Inapropreate aggreements with IPPs-	. 40
	3) Omer Ayub Kham > Former Minister of energy	y
4.	Destructive Consequences of	
	energy crisis of Patistan	
-	4a) Energy crisis has severly damage	1.7
	the industrial sector	
-	=> 200 inclushies has been closed	
	since three years	

	46) Mounting prices of electricity sills.	
	46) Mounting prices of electricity wills.	
	generated in the world" (Ex-PM)	
	40) Energy sector increases the burdens	
,	=> projected to reach 3 Trillians.	
		1
2 (8)3	4d) Energy crisis has dengerasty	C. Synamo
- -	4d) Energy crisis has dengerously impacted the agriculture -	
	-> low production-	
	4e) Vulnuable energy conditions has	-
	created social impost in the society.	
	> Puelésts against energy puices in	
	the month of August-	
	44) Energy exisis hampers Pakisterns	
	4f) Energy exisis hampais Pakistems economic growth	
	⇒ Ex-Prime Minister Nawaz Sharif.	
1		11
5.	Pregmatic solutions to cater	•
	Pregmatic bolutions to cater the energy crisis	
-	. 00	

	A country's ex energy sector	
	is responsible for its social growth	= 4
	and economie development unfortin-	
	-ately, Pakistern is tacing severe	
	energy cuiss over the last two.	x F
	decada However, there are numerous	
	reason's behind this vulnerable	2 **
	condition of energy sector of	
	Pakisten, among them the main	
	. (/	
ş 13.	reasons are over-relience on	
	hydrocarbons, such as, coal, oil and	
	natural gas and huge fransmission	)
	and distribution losses Similarly,	
20	outdated infrastructure exacerbatés	
	the energy crisis in the country.	
	All these causes comes with devastating	
•	consequences like energy crisis has	100
	severly demages the industrial sector	
	Moseover, it mounts the prices of	1
	electricity bills and increases the	
	buidens on circular dept. In the	la e
	some way, it has dengehously	
	impacted the agriculture. However,	

	all hope is not lost. The veilnerable	2930-28
	energy anditions can be overcome	
	by taking serious steps, like, shift	
<u> </u>	from non-renewable resources to	y (
	renewable resources Mocover, use	7.0
	Weak sentence structure	
	improving the efficiency of refineries.	
	Thus, it is evident that Pakiston is	
	facing acute energy was because	
	of multiple reasons Housel, by	
	taking pregmatic solutions it can	
	be meliminated.	
	Energy exists is the shortage	
	of energy resources in a particular	
	country. Sadly, Pakiston is grappling	
3 * 3	with an acute energy criss According	
•	to Energy Transilian Index, Pakisform	
	ranks 108th out of 120 countries in	
	the world economic fouring? The current situation of energy sector	Ber av
	of Pakistom is quite grim and	
	Is facing the shortfall of approximo-	10 10 10 10 10
	-ate Mosomw, with son severe	

*******		-77
	all hope is not lost. The vulnerable	100000
	energy anditions can be overcome	
	by taking serious steps, like, shift	
	from non-renewable resauces to	7 7
	renewable resources. Moreover, use	77.
	modern technology and by	
	improving the efficiency of refineries.	
	Rus, it is evident that Pakiston is	
	facing acute energy wisis because	
	of multiple reasons. Hoaver, by	
	taking pregmatic solutions it can	
-	be meliminated. Repetition	
	Energy clisis is the shortage	
	of energy resources in a particular	
	country. Sady, Pakiston is grappling	
	with an acult energy crisis. According	
	to Energy Tromsilien Index, Pakistem.	
	ranks 108th out of 120 countries in	4
	the world economic fours? The	- I - Y
	current situation of energy sector	
	of Pakistam is quite grim and	
	-ate Ecomes, with severe	- F
_	- Severe	

	wadshedding.	
	To begin with, the over-selience	
	on hydrocarbon's is the main cause	
	of the energy crists on Pakisten.	
)(#	Hydrocarbons are non renewable energy	
	resources such as, coal, oil and	
	gas However, Pakiston generales energy	1
	from hydrocarbons. This can be	T. T
4	proved by following states as , Pakishem	
	imports 500,000 bauels on daily best	
	for the generation of electricity. Thus,	
	the energy eisis in Pakistan is	
	a result of over-relience en the	
	use of hydrocarbons	
-	Huge transmission and dishib-	
	-ulien loss is another eauxe of	
	energy crisis in Palcistan The	
	electricity is fransmitted from source	
	to the consumers thoough the different	-
	kinds of transmission lines. However,	
*	during this process the electricity is	
	lost severly This can be proved by	
	compalison with other countries, as	
	1	

******		
	the loss of electricity in India end	
ï	Bangladesh is almost half as empare	
	to Pakistom, whose distribution 3	
	per-cent	)
	hansmission loss es 33%. Hence, the	
	energy exisis is because of the	
1	loss of transmission and distribution	
	9 energy.	la la
	Moreover, the outdated infrastructure	
	exaceibates the energy crisis in	
,	Pakistem The aging instructure, with	
	0 0	
	most power plants and transmission	
	lines installed decades age, lacking	
1 1	modernization and upgrades- Mangla	
	and Tarbela, two Pakistem's largest	
	dams are older than soyears and their	
	capacity is reduced offe to seepage	4:
. 20	and sedimentation. Resultuntly, aging	90
,	infrastructure es responsible don the	
	energy clisis in the country	4
	Fulliermore, Inadequate exiciency	*)
	of refineries increases the energy	
	Crisis in Palcistan The major	¥
	- refineries of the country are	E
	0	1

	the loss of electricity in India and	
•		
	Bongladesh is almost half as empare	-
	to Pakistom, whose distribution &	
	transmission loss es 33%. Hence, the	4
	energy crisis is because of the	197 m
	loss of fransmission and distribution	
	9 energy. Repetition	
	Moreover, the oldated infrastructure	
	exacerbates the energy crisis in	1
	Pakistem. The aging instructure, with	
	most power plants and transmission	97
	lines installed decades age, lacking	
	modernization and upgrades - Mangla	· ·
*	10.	
	and Tarbela, two Palcistem's largest	
	dams are other than so years and their	
	capacity is reduced due to seepage	
	and sedementation. Resultuntly, aging	
	infrastructure es responsible der luc	590
	energy crisis in the country-	
	Fustiermore, Inadequate espiciency	
	of refineries increases the energy	
	Crisis in Palcistan. The major	
	refinelies of the country are	
		1

		ī
	Altack refinery, Karachi refinery,	
r	Hub refinery, etc. Takistom is not	
	the major producer of hydrocarbon,	
	it has to import most of them. The	
	produced and imported oil if not	
	sefined then it is sent to these	
	refinelies whose capacity is nearly	
25.	36% overall and sensaining lossed	
¥V	during the process It means, lack of	
	efficiency in sexinosies enhances the	
7 7 . 7 7	energy crisis	
	Furthermore, the energy theft	
	culture in Pakiston enlarges the	
	energy crisis in the country Pakislems	
X83	energy generation is low and situate	
	-on becomes more serious when the	
	produced electricity is being theft The	
	"Kunda system" culture in rual areas	4,
	of Pakestern is responsible for energy	
	thest Moseover, the elits of the country	
	also repeats the process for running	1
	industries However, energy cuisis	
	increases through theft of electricity.	

******	
	Federal Minister of energy Owais Ahmed
	Laghari revealed that electrity theft
	causes annual loss of RSB00 billion. Hence,
7	it is clear that, energy theft enhances
•	energy crisis
	Last but not least, inappropriate
	agreements with independent power
	producers (IPPs) aggravates the energy
	cuisis of Pakistar Muse agreements.
	often culticized for their unprovable
	ferms, have resulted in inflated
	ferrifes, quarantied seturn, regardless
	of actual power generators. This has
-	Led to an gennual loss of Rs. 100-
_	-150 billion According to Express Tribune,
9. 41	Omar Ayub Kham- Former Minister of
	energy said that, "The IPPs agreements
	were flawed, and we are paying
	the pice of it? Thus, energy
	scarcity increases because of the
	flowed agreements with IRS.
	These factors indeed have grave
	consequences for Pakiston First, the
	To the state of th

energy crisis has severely damages the industrial sector Due to, high loadshedding the production was seriously distinbed furthermore, the increase in unit price makes the situation worse This results in the rise in pices of products and consequently, their consuption decrees. Almost 200 industries has form closed since three years Thus, energy crisis has seciously impacted the industries of the country! Besides this, mounting pices of electricity bills is the worst consequence of energy determina. The electricity in Pakistern is mostly generated from hydrocarbon which are imported at high price Furthermore, the planted agreements with IPPs regarding payment, makes the siluation even catastrophic because of this, a surge in the electricity bills has been inoticed in the

	recent year. The Ex-Prime Minister	
i	Said for that, Pakiston generales	
	3rd most enpensive energy the	
	world? Hence, rise in the electricity	
	bills is because of energy actsis-	
	Similarly, energy seiter incresse	3
	the burden en circular dept The	*
	imported fuels holds a major	•
-	percentage in the countries energy	
	mix. This import has put pressure	
1	en scarce foreign exchange reserves.	
	According to the ministry of energy,	
	as of 2022, Patistan's circular dept	
	in the energy sector stemps at	
	approximately Rs. 2.3 Trillian And as of	A
	now, it is projected to reach 3 Trillien.	
	Therefore, circular dept is impacted	
	by energy at most	
	Moreover, energy crisis has	
	dengerously impacted the agriculture	
	sector. Pakislan is an agricación	
	country and highly depends upon	
	agricultural economy Furthermore,	***
		138 S

	. Boy of the population of Pakiston	
-	is associated with agriculture	
D 1	The constant ladshedding in most	
-	of the country has decreased the	
-	production of garners because these	
	Jaimers are highly dependent on	•
	tube wells. Is a result, energy	
120	erists severely impacted agriculture.	-
-	Fushermore, Vulnerable energy	
	conditions has created social	
	cincest in the society the persistent	
	electricity shortages, loadshedding and	
	high energy terrys have significar-	
	- ntly impacted daily life, commune	
	and industry. Unappordable energy	
	has increased poverty and inequality.	
	A situation was created in the	
	month of August, when thousand	
	of people protests against energy	<i>t</i> 0
	prices. This social consest is the	
-		
	result of energy crisis in Pako In-	
	Finally, energy crisis hampers	
	Pakisterns economic growth and	

1	/_/_Dt	
*********	prosperity. The economy of country	4402-08S
	depends upon its local industry,	-
,	social emolition, agriculture and	
	exports However, serious energy	
	emdition has impaited in all	
	these junts which presults in	
	economic chaos This com be	
	justified by the saying of	5
	Ex-Prime Minister Nawas Charif,	10
	he said, "The energy cuisis is the	
	major obstacle to Pakistemis economic	
-	growth and prospertly ? Hence, energy	
	cuisis impacts economic growth	
,	Apart from all these consequences,	
	the energy crisis can be eliminated	
	by taking scrious steps The	
	country must shift from nenewable	x* * *
	energy resources to senewable energy.	
	resources. The renewable energy	
	resources are water, wind and	
	Sobre energy Amighty has blessed	
	Pakislein with abundance of these	**
	resources. Rokistern has the second.	=

	Furthermore, by improving the	
	efficiency of the refineries to utilize	
	the mount of crude.	
	oil The refinelies of Pakiston has	
*	the minimum refine capability in	
	the region as compare to the neighbour	
	ing nations Pakiston must utilize its	1
	refineries for monimum energy production	,
	This can be achieved through advanced	v C a
	Lechnologies such as hydrocracking	
	hydroteating and somet desphalling:	
0 8	which enable the production of	
	cleaner energy Thus, by improving	
	OV.	
	the efficiency of refineries energy	-
6.	scarcity can be an confailed.	-
	Apart from this, energy crisis	
	com be eliminated by construction	:
	of new dams and improvement	9
	in existing infrastruction The two	* 16
	major dans of Pakistan are	
	Tarbela dam and Mangla dam,	
	are in vulnerable condition and	
_t.	are over aged dams These dams.	
4	are over agen yours	

	requires massive improvements and	
	seconstruction to minimize scepage	
	and water losser. Moseoner, construction	
	of new dams is a need of	
	time to meet water needs and	
	produce environmental friendly energy.	
	Hence, by constructing new dams	
	and improvement of the existing	
	dams, Pakistan gan eradicalé	
	energy crisis.	
	· Moseover, Implementing new	
39	policies to seduce the energy theff	
	com resolve energy issue of	
	Pakiston. Energy production is less	
•	then the requirement but the	
	siluation becomes wouse when	
	less required energy is stealth	
	by the elits and sendals of	
	the country However this com be	
	reduced by implementation of shirt	
	policies, such as, smart metering,	
	regular audits, penally enforcement.	
	and establishing Energy Management	

	/_/_:ð/t	
	system Resultantly, by enforcing these	
	steps energy theft can be minised	
	which, ultimately sesselts in the	
	reduction of energy cres.	
1	Finally, energy crisis com	
	be seduced by serising agreements	
	with IPPs and feig determination We	
2	IPPs are solely responsible for increasing	
	the busden on energy sector	1
¥:	Moreover, the agreements with IPPs	
	are rediculors and are against the	
18	inst inferest of the country Therefore,	= "
	government should serie these	
	agreements with IPPs with immediale	
	effect. Thus, energy cuisis can be	
	eliminated by seviewing agreements	
	walt IPRS	
u s	In a mutshell, it is an	
	underiable fact that Pakiston is	,
	facing immense energy crisis that	
	has serious consequences However, by	
-	onalyzing the actual causes and	
	implementing serious steps this	

menace can be curtailed the causes of the refresable condition of energy sulor are, outdated infrastructure of energy sector, inadequate efficiency of refineries the culture of energy theft and inappropriate agreements with soft. However, these cause have devastating impacts, such as, the energy sector increases the boarden on eircular dept, it dengerously impacled the agricultur of Pakista Moreover, Me miserable energy conditions has created social unrest in the society and impedes the economic growth of Pakistan Bespile the pressing nature of the issue, opportunities remains to miligale the energy crisis through proactive measures, like, by improving the efficiency of setmenies and through conspucting new dams, emergy cuisis cen be autailed Futhermore, to seduce energy thest new policies

90		
	must be implemented and finally,	
	by sevising agreements with The	
	energy crisis can be califical However,	27
£.	through collective sesolve, innovative	
	solutions, and stategic investments,	
	Pakiston can oversome its energy	
-	crisis to ensure a brighter and	
	more sustainfable fulure for generations	
-	to come.	
N <del>=</del>		1
0		
_		
-		*
-		1. 2.
		-
		X4 ·
-		
		e:
		le le