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Enrolm	Enrolment No:		o w	
	UNIVERSITY OF PETROLEUM AN End Semester Examinatio		2S	
Course: Global Power BusinessSemesteProgram: MBA PMTimeCourse Code:PIPM8009Max. M		er: IV : 03 hrs 1arks: 100		
Instruc	SECTION A			
S. No.	10Qx2M=20Mai	rks	Maalaa	<u> </u>
Q 1	Complete the Abbreviations		Marks	СО
ŲΙ	a. UNFCCC		2	CO1
	b. COP		2	CO1
Q2.	What is target for CO2 and other emission by India in 2030 as per INDC		2	CO1
Q3	Why French Power Sector is still more or less Vertica	al Integrated,		CO1
	Centrally-controlled and having Govt. controlled pricing system? Explain.		2	
Q4	Explain four basic models in global power business as per Sally Hunt.		2	CO1
Q5	What is the full form of IAEA and IEA?		2	C01
Q6	Power reform first of taken by South American Country named		2	CO1
Q7	How much is Installed Renewable Energy Generation present? What is target for 2030?	n capacity in India at	2	CO1
Q8	Name 2 countries dominated by Nuclear Energy.		2	CO1
Q9	Why in developed country power trading is mainly term market?	dominated by short	2	CO1
Q10	Contract for Differences - explain.		2	C01
	SECTION B 4Qx5M= 20 Mai			
Q 11	Analyze and evaluate future role of renewables partic	,		
	with respect to Coal-based power projects globally an and China.	nd in context of India	5	CO2
Q 12	Explain Sustainable Energy. How you will select fuel taki	ng care of Economy,	5	CO2

	Environment and overall Sustainability?		
Q 13	Differentiate between Primary Energy and Secondary Energy.	5	CO2
Q 14	Differentiate between Commercial Energy and Non-Commercial Energy with global examples.	5	CO2
	SECTION-C 3Qx10M=30 Marks		
Q 15	Critically evaluate present and future energy scenario of anyone European and American Continent Country.	10	CO3
Q 16	"World is under Energy Transition which is going to affect global Energy Sector and Transportation in drastically manner" – Critically evaluate this statement.		CO3
Q 17	Properly analyze and critically evaluate the role of the Nu-power for the electricity generation in future in power Hungary countries like India, Japan or China.	10	CO3
	SECTION-D 2Qx15M= 30 Marks		
	acknowledged that key parts of the power industry in UK – the national transmission and regional distribution networks – were naturalmonopoliesandthattherewasnopointintryingtocreatecompetingnet works. It was also not possible to open up the retail end of the industry immediately to full competition as the technical and administrative processes could not be put in place in time. Therefore, in line with the regulatory bodies established to control prices set by the privatized telecom and gas utilities (BritishTelecomin1984 and British Gas in 1986), a new regulator was established by the UK Electricity Act of 1989 – the Director General of Electricity Supplies (DGES) who had the support of the Office of Electricity Regulation (Offer).		
	The main responsibility of the DGES, who was appointed for a five- year term by the government, was to promote competition within the industry. Offer took on around 220 staff around half of whom worked on consumer representation. Again in line with practice in the telecom and gas industries, Offer adopted an "RPI-X" formula to control transmission and distribution prices. This meant that the National Grid Company and the regional electricity companies could only increase their prices in line with inflation (RPI–the retail price index) less an amount, X, set by the regulator. For example, the X factor for transmission prices was initially set at 0% for 1991 and 1992 and then increased to 3%fortheperiod1993 to1996.This meant that for each year during that four-year period transmission prices could raise no more		

than 3% below the rate of inflation. In fact, inflation was below 3% for three of those four years and so transmission prices had to be cut.

The idea of this formula was to encourage companies to improve efficiency and cut costs and it was initially felt that this form of price regulation would be enough to produce the right balance of productivity gains from a combination of restructuring and reorganization and new investment. However, the regulators in both the gas and electricity industries came to the conclusion that price regulation was inadequate for the highly capital-intensive energy sector and that the formula had to be revised to take account of the level of investments being made by the companies. From 1995 the X factor in the electricity industry was set on the basis of the rate of return on investments and this had a significant and immediate impact on prices.

Take overs and mergers in the energy sector meant that by the end of the1990s many companies were supplying both gas and electricity to consumers. This was one reason for the provision in the Utilities Act of 2000 to merge the gas and electricity regulators to form **Ofgem –the Office of Gas and Electricity Markets** along with its governing body, the Gas and Electricity Markets Authority (GEMA). GEMA members are appointed by the government and they determine strategy, take all major decisions and set policy priorities.

Ofgem's main priority is to protect consumers by promoting competition and regulating the monopoly companies – the national transmission and regional distribution grids. It is funded by the energy companies who are licensed to run the gas and electricity infrastructure. In regulating the two sectors, Ofgem has to take account of the need to ensure adequate investment in the networks. It is also required to help gas and electricity markets and industry achieve environmental improvements as efficiently as possible and take account of the needs of vulnerable customers, particularly older people, those with disabilities and on low incomes.

The licenses issued by Ofgem for the different levels of Electricity Company set out a range of requirements for each company to meet with a common element being a duty to supply the regulator with the information necessary for it to carry out its responsibilities. For the generating companies, for example, this includes a duty to provide information so that Ofgemis in a position to decide whether or not the company has attempted to distort market prices by withdrawing generating plant from operation. Other elements common to some of the licences are requirements not to discriminate among customers. So generators must not discriminate among the customers they supply to and National Grid/Transco must not discriminate in giving companies access to the national grid.

Ofgem conducts investigations of companies that it believes may be breaking the terms of their licence conditions, acting anti-competitively or breaching consumer protection law (Competition Act 1998 and Enterprise Act 2002). Ofgem can also investigate and apply sanctions where a company if found tobe in breach of other requirements and standards of performance as laid down by the Electricity Act1989 and Utilities Act 2000. Should the Authority find that a licence breach or Competition Act infringement has occurred, it has the power to impose large financial penalties, of upto10%percent of turn over. In the case of licence breach the 10% applies to the turnover of the company holding the licence where as with an infringement of the Competition Act the UK group turnover is taken into account. Ofgem has undertaken a number of official investigations of companies over the last four years most of which end with the companies making an undertaking to review and change the practices in question. For example, in 2005 SP Man web (part of Scottish Power) a distribution network operator was found to be discriminating in the provision of connection services against companies that weren't part of the Scottish Power group. Ofgem accepted a commitment from the company to end this practice. The most recent financial penalty was £700,000 imposed on Powergen in August 2004 for the way it had objected to its customers switching to another supplier. Earlier that year Npower and Scottish Power had both been fined £200,000 each for the same behavior.

However, if consumers or industry groups believe that electricity companies are acting in an anti-competitive way then they can go to the Office of Fair Trading (OFT) rather than Ofgem. One reason for doing this is that the OFT has far great powers than Ofgem. If OFT is satisfied that a company is harming consumer interests it can take immediate action to order the company to change its behavior and can instigate a criminal investigation with the ultimate sanction of prison sentences for individuals held responsible for a company's actions (Bowyer 2003).

Electricity distribution companies have a number of performance standards to meet in relation to maintaining supplies, repairing faults and responding to customer complaints. These standards are laid down in parliamentary regulations (latest revisions in 2005) and monitored by Ofgem which can also propose amendments to the regulations. The standards set specific times by which companies must deal with or respond to customer enquiries, complaints or problems of supply and consumers receive compensation if targets are missed. For example, if a company fails to restore supplies after a fault within18 hours then a

Q19	Your suggestions for solving these problems.	15	CO4
Q18	What are problems as per given text in power sector in UK along?	15	CO4
	specific evidence, that domestic customers were being provided with an inadequate billing service by retail electricity companies, with large numbers of customers reporting incorrect bills and problems in resolving disputes with their electricity company. Although Ofgem did not find that this was a fundamental issue relating to market structure or organization it did make a number of recommendations about how companies should deal with the issue including the writing off of bills that are more than a year old, the setting up of an ombudsman to deal with billing complaints and a call for companies to review their contracts to make sure they are fair. Ofgem said these recommendations would be imposed on companies if they did not voluntarily reform their billing practices.		
	If it has evidence that there are more fundamental problems for consumers that might be related to the structure of the electricity market then it can take these up with the regulator, Ofgem or with the Office of Fair Trading. Energy-watch's most recent major case which Ofgem investigated was a general claim, although based on detailed and		
	Energy-watch provides a price comparison service so that consumers can try to work out if they are getting the cheapest electricity and / or gas. It also deals with a range of specific consumer issues such as incorrect bills and other complaints about quality of service. It seeks to do this primarily by taking up issues with the companies themselves.		
	Another major change implemented by the Utilities Act 2000 was the setting up of a separate watch-dog Energy-watch, to represent consumers independently of Ofgem and to make representations to Ofgem on the behalf of consumers. The body is government funded and the chair reports to the Department of Trade and Industry.		
	domestic customer is entitled to £50 in compensation while a non- domestic consumer is entitled to £100. Companies are also assessed against performance targets, such as the inability to maintain uninterrupted supplies. Ofgem reports on company performance in an annual quality of service report.		