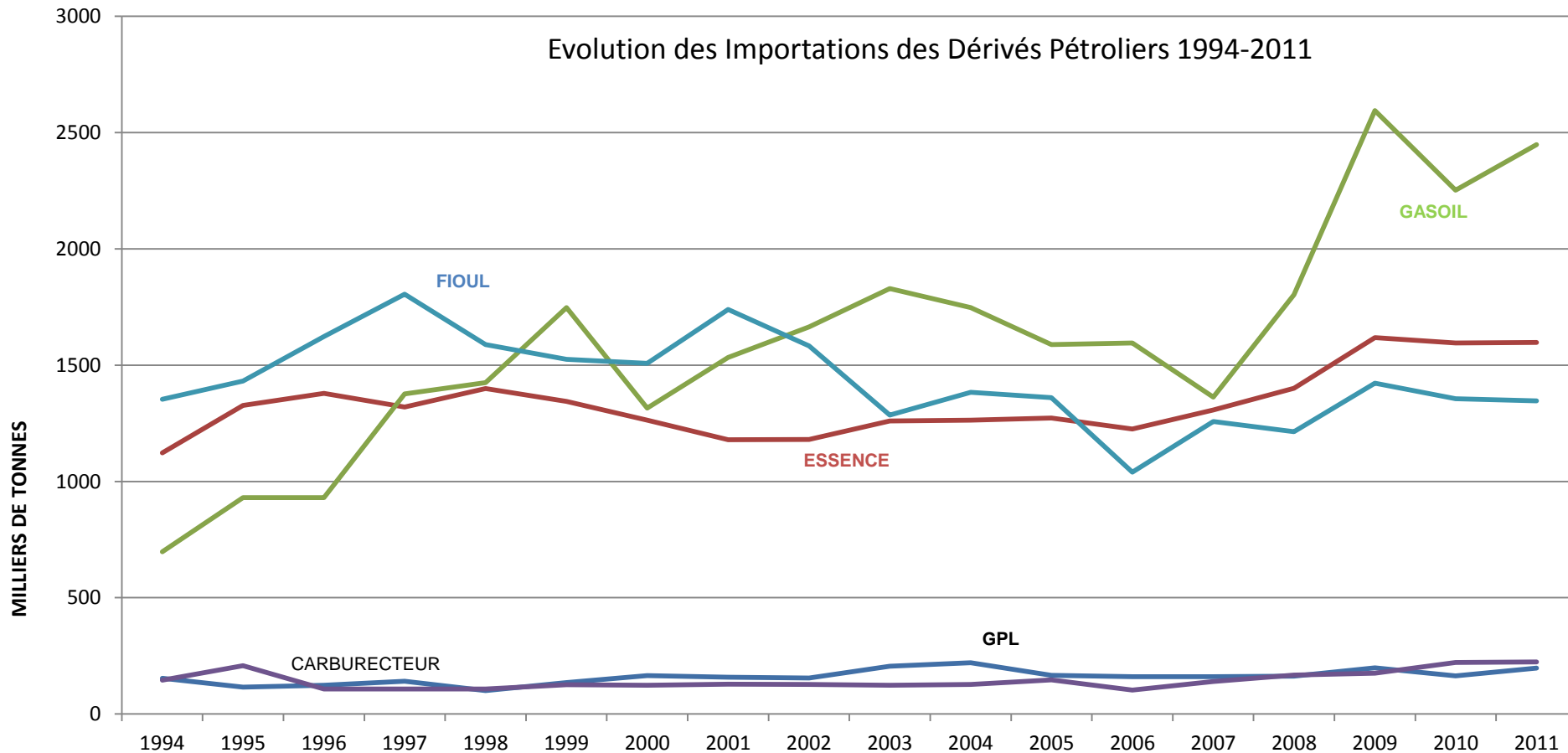


L'Énergie au Liban 2011

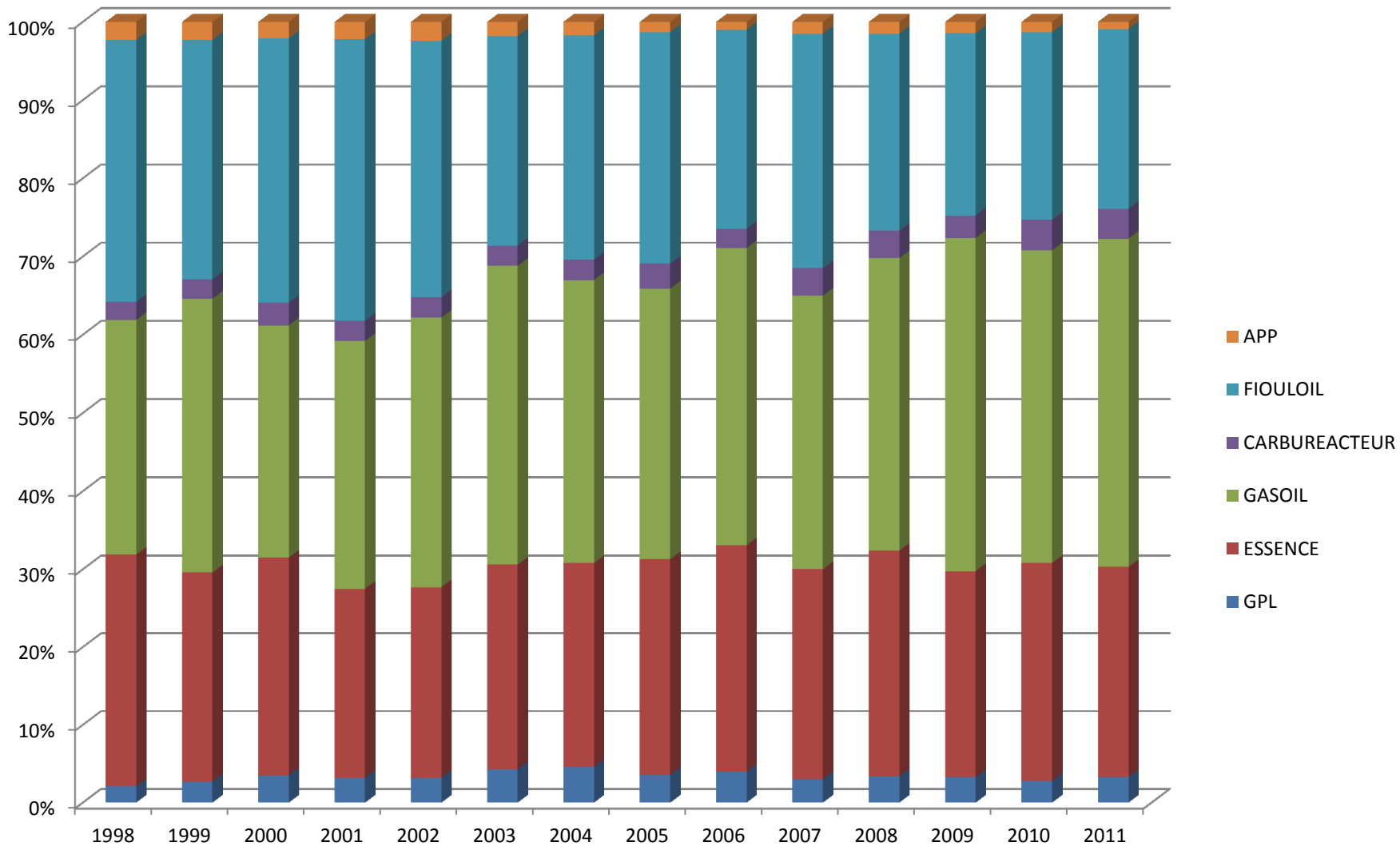


LES IMPORTATIONS DES DERIVES PETROLIERS 2000-2011

PRODUIT		tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	
		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
GPL		165 120	157 733	154 825	205 148	220 231	166 133	161 117	160 627	163 183	199 144	163 567	196 674
ESSENCE		1 263 757	1 178 800	1 180 374	1 260 417	1 263 245	1 273 104	1 224 606	1 306 816	1 401 172	1 617 671	1 594 939	1 598 415
GASOIL	EDL	532 805	573 072	754 411	825 984	842 354		1 057 0704	848 859	1 259 555	1 132 724	994 287	1 305 671
	MARCHE	782 840	960 211	910 404	1 003 193	904 492		538 575	514 830	543 185	1 462 633	1 257 725	1 1424 02
	TOTAL	1 315 645	1 533 283	1 664 815	1 829177	1 746 846	1 587 669	1 596 279	1 363 190	1 802 740	2 595 357	2 252 012	2 448 073
CARBUREACTEUR		124 511	128 196	126 825	124 502	126 679	146 578	103 355	139 726	166 685	174 565	220 951	223 882
FIOUL OIL	EDL	1 294 362	1 355 081	191 307	963 130	961 512		956 609	1 071 200	1 076 521	1 227 690	1 283 360	1 186 775
	MARCHE	213 468	383 768	1 392 134	321 816	421 094		83 108	187 500	137 000	194 772	72 724	160 586
	TOTAL	1 507 830	1 738 849	1 583 441	1 284 946	1 382 606	1 360 177	1 039 717	1 258 700	1 213 521	1 422 462	1 356 084	1 347 361
APP		94 881	108 614	112 411	84 047	81 475	59 886	43 857	72 782	73 919	88 300	105 057	59 187
TOTAL		4 471 744	4 845 475	4 822 691	4 788 237	4 821 082	4 593 547	4 168 931	4 301 281	4 821 220	6 097 498	5 692 610	5 873 591

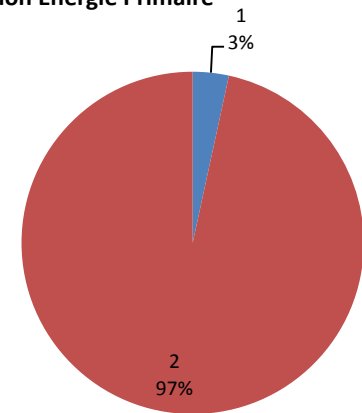


Importations des Produits Pétroliers 1998-2011 en %

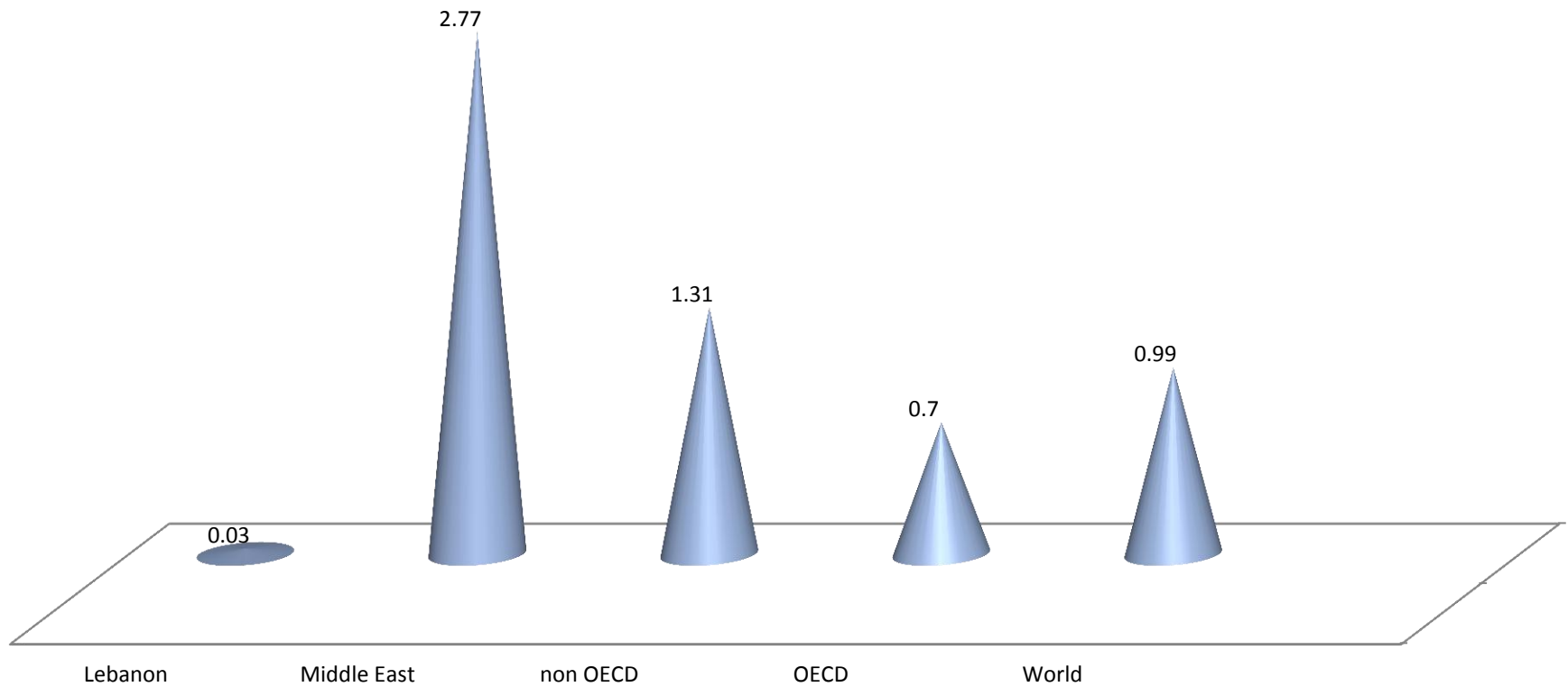


Approvisionnement Total en Energie Primaire			ATEP(Ktep)	2011	
1-Production				KTEP	%
1-1 Hydroénergie			805 GWH	70	1.1
1-2 Energie Traditionnelle (bois,charbon de bois)				120	1.8
1-3 EnR(solaire thermique,PV,éolien exclus hydro)				35	0.5
Total 1				225	3.4
2-Importations					
2-1 GPL	Ktonnes		197	223	3.5
2-2 Essence	"		1598	1708	26
2-3 Gasoil	"		2448	2644	40
2-4 Fueloil	"		1347	1294	20
2-5 Carburacteur	"		224	220	3.3
2-6 Gaz Naturel	Millions de M3		—	—	—
2-7 Electricité	GWH		840	74	1.1
2-8 Charbon	Ktonnes		250	165	2
2-APP	"		59	53	0.7
Total 2				6381	96.6
3-Exportation					
			—	—	
4-Total				6606	100

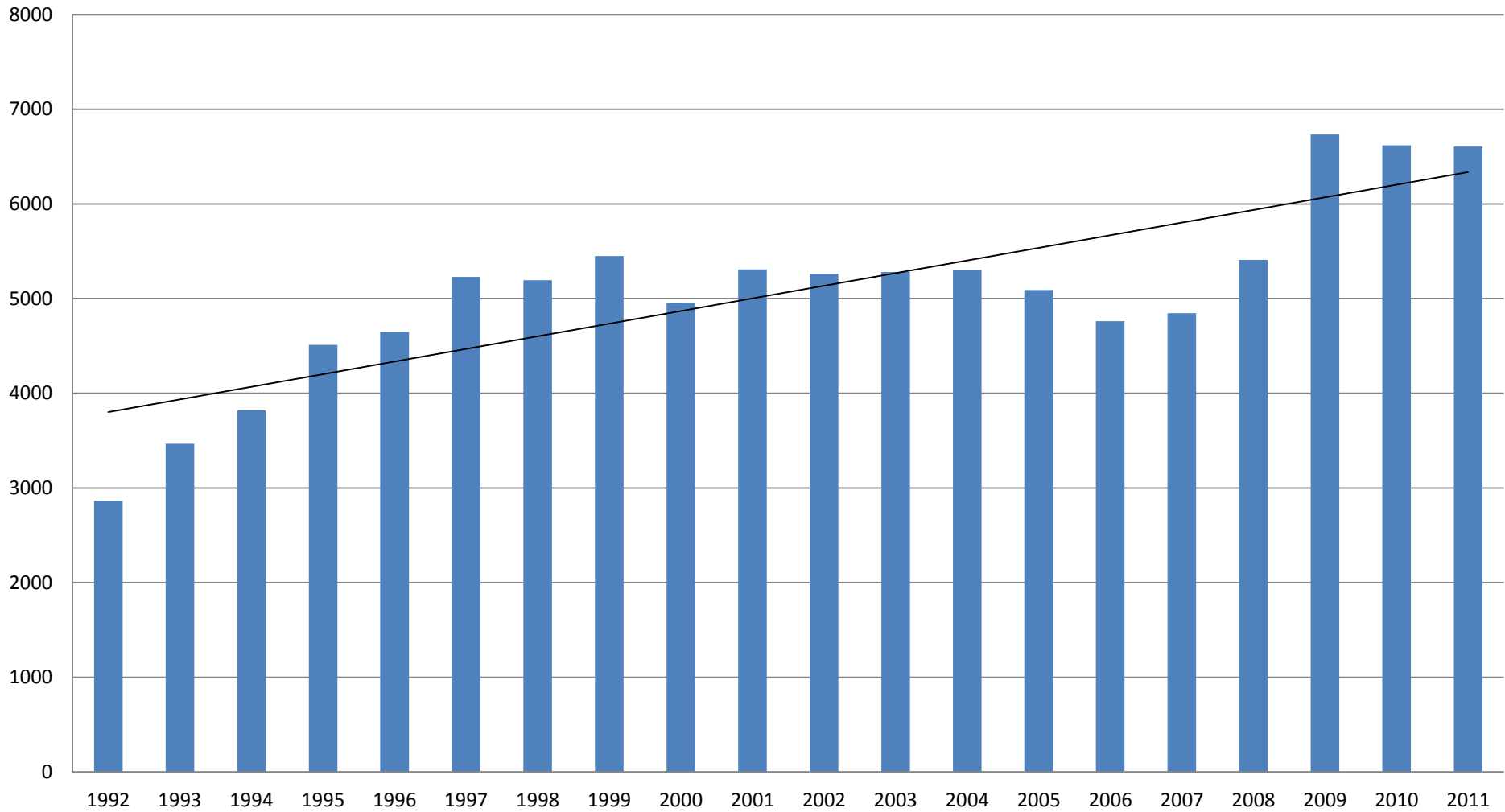
2011
1 Production Energie Primaire
2- Importation Energie Primaire



Energy production/TPES (self-sufficiency) Indépendance Energétique

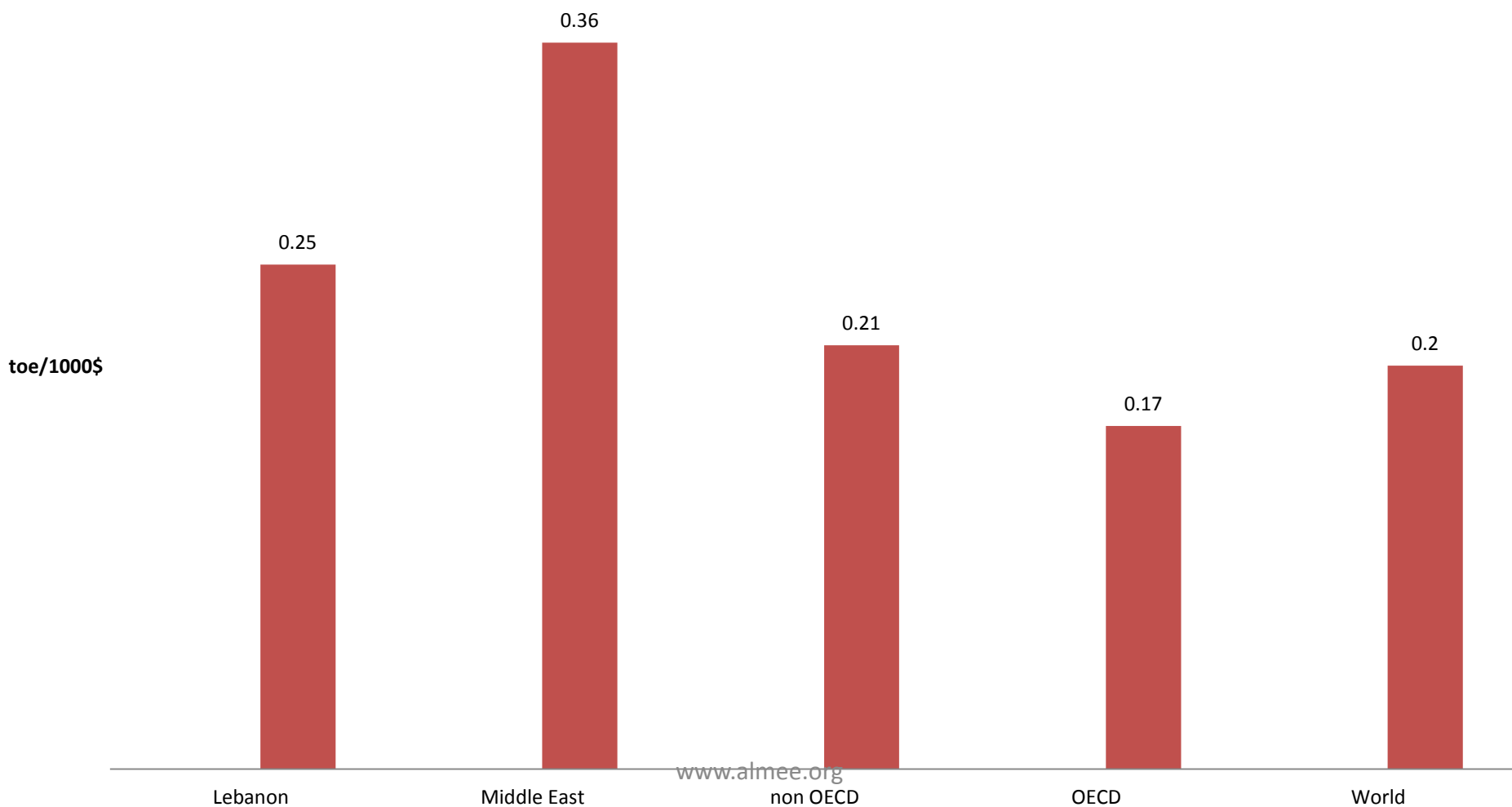


Evolution ATEP(KTEP)



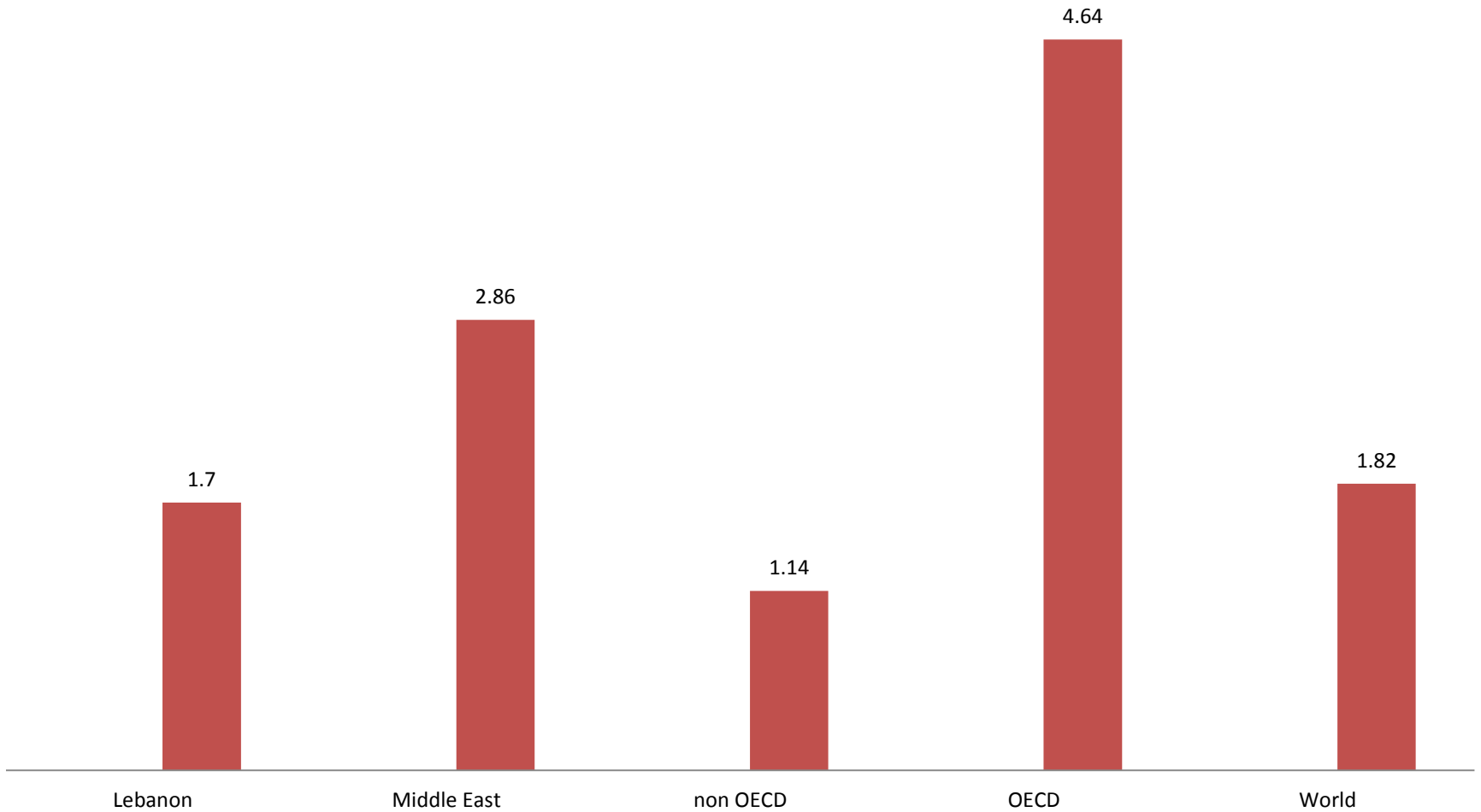
TPES/GDP ppp (energy Intensity)

ATEP/PIB(Intensité Energétique)

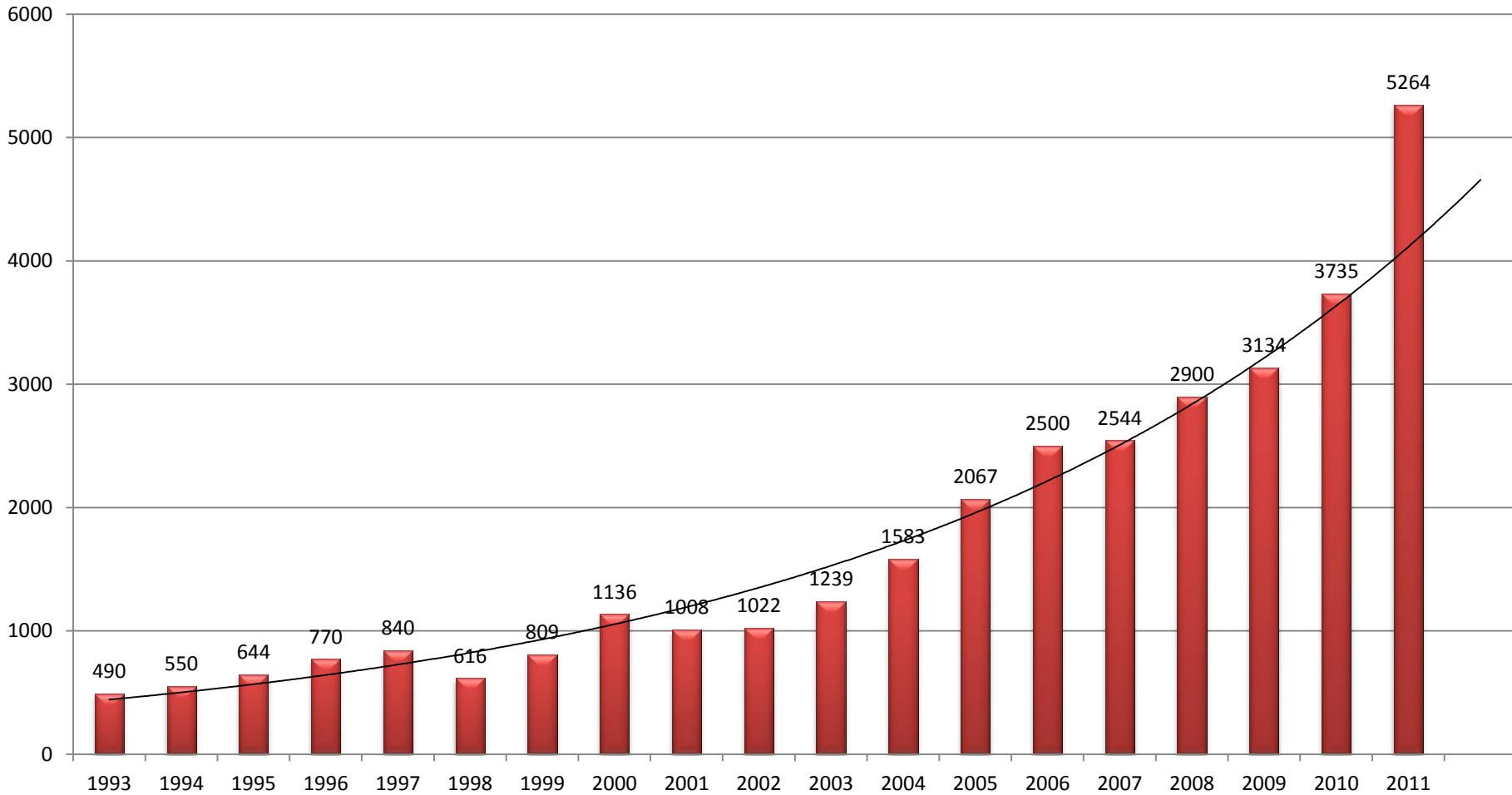


TPES/population (toe/c)

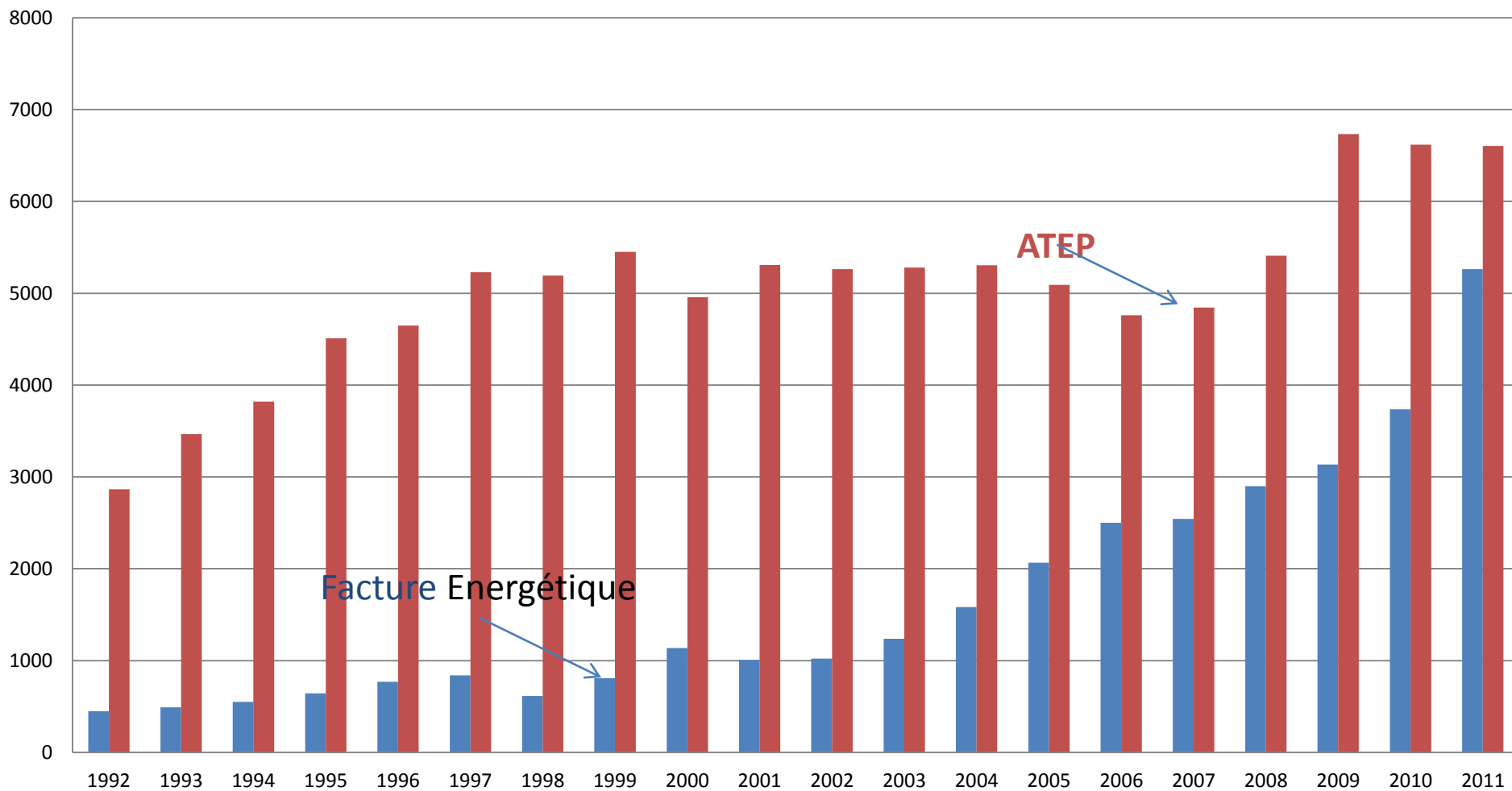
ATEP/H (tep/h)

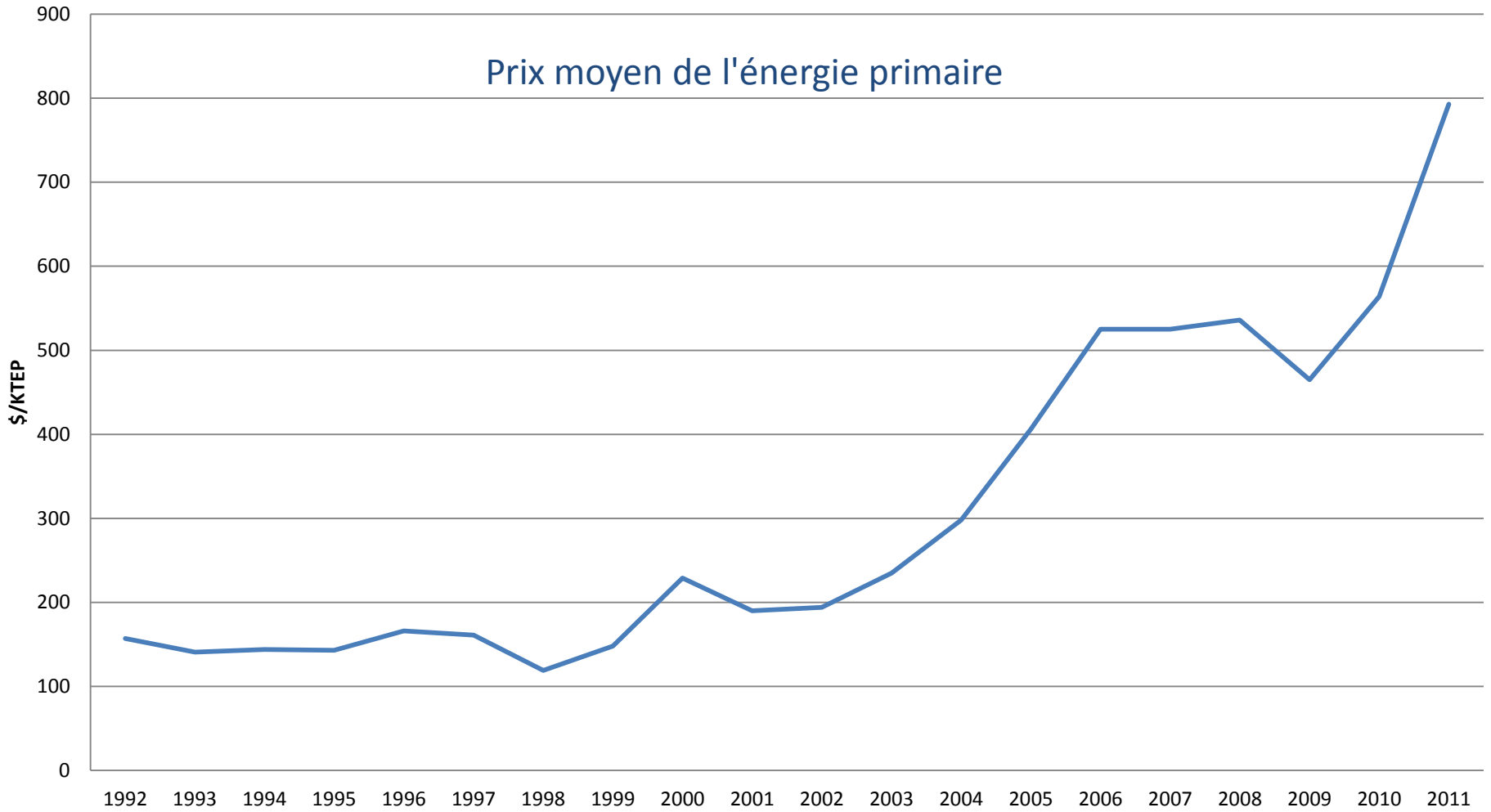


EVOLUTION DE LA FACTURE ENERGETIQUE 1993-2011

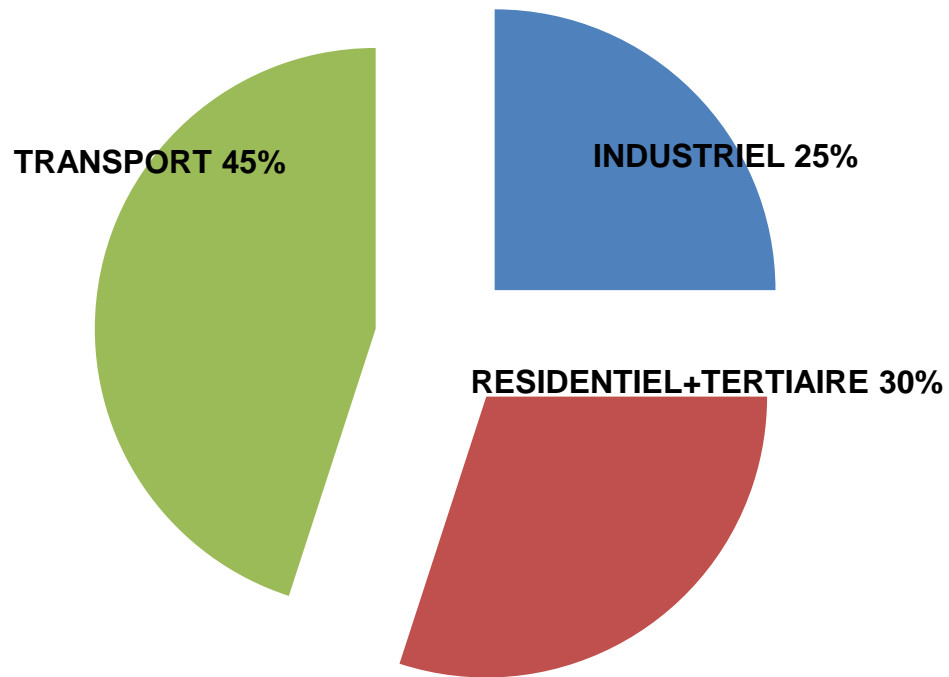


Energie Primaire en KTEP et Facture de l'Energie en Millions \$

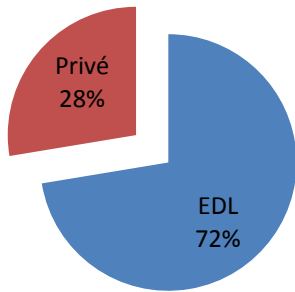




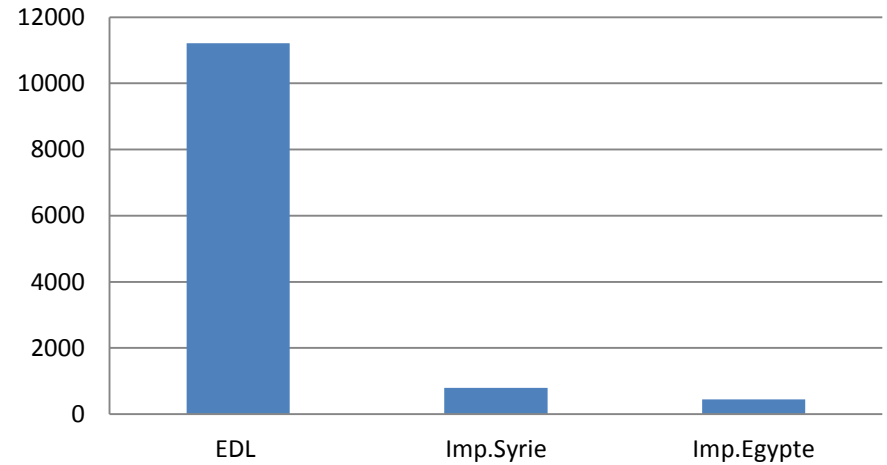
VENTILATION ENERGIE FINALE



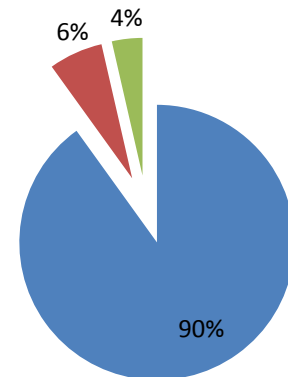
EDL : 12455 GWH
Privé:4750GWH



Réseau EDL(GWH)



■ EDL ■ Imp.Syrie ■ Imp.Egypte



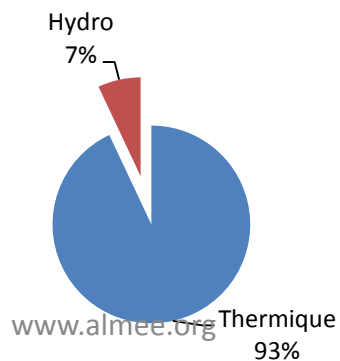
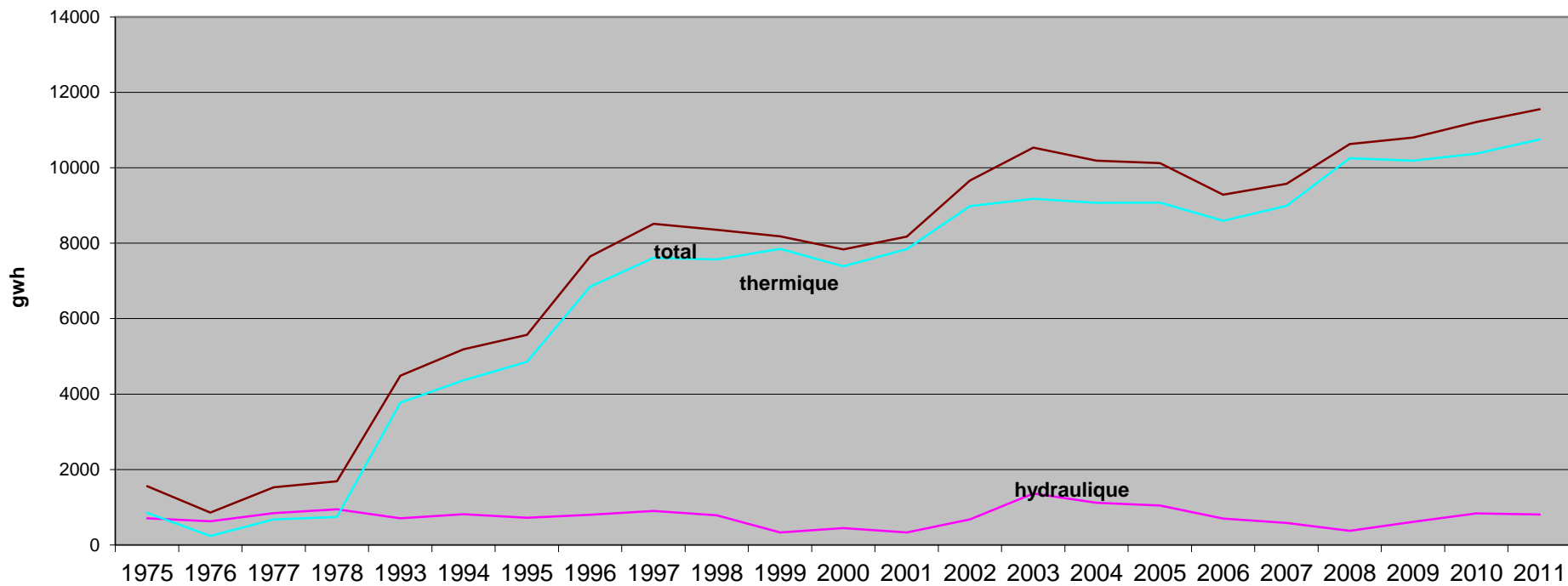
CENTRALES HYDRAULIQUES EXISTANTES AU LIBAN

NOM	PROPRIETAIRE	PUISSANCE (MW)
SAFAVRICHMAYA	EDL (ETABLISSEMENT PUBLIC)	13
ABDEL AL ARKACHE	OFFICE DE LITANI (ETABLISSEMENT PUBLIC)	34
HELOU	"	108
NAHR IBRAHIM	PRIVE	48
BARED	PRIVE	33
ABOU ALI	KADISHA (COMPAGNIE PROPRIETE DE L'EDL)	17
BLAOUZA	"	7.4
MAR LICHAA	"	8.4
BCHARRE	"	3.1
	TOTAL HYDRAULIQUE	273.5

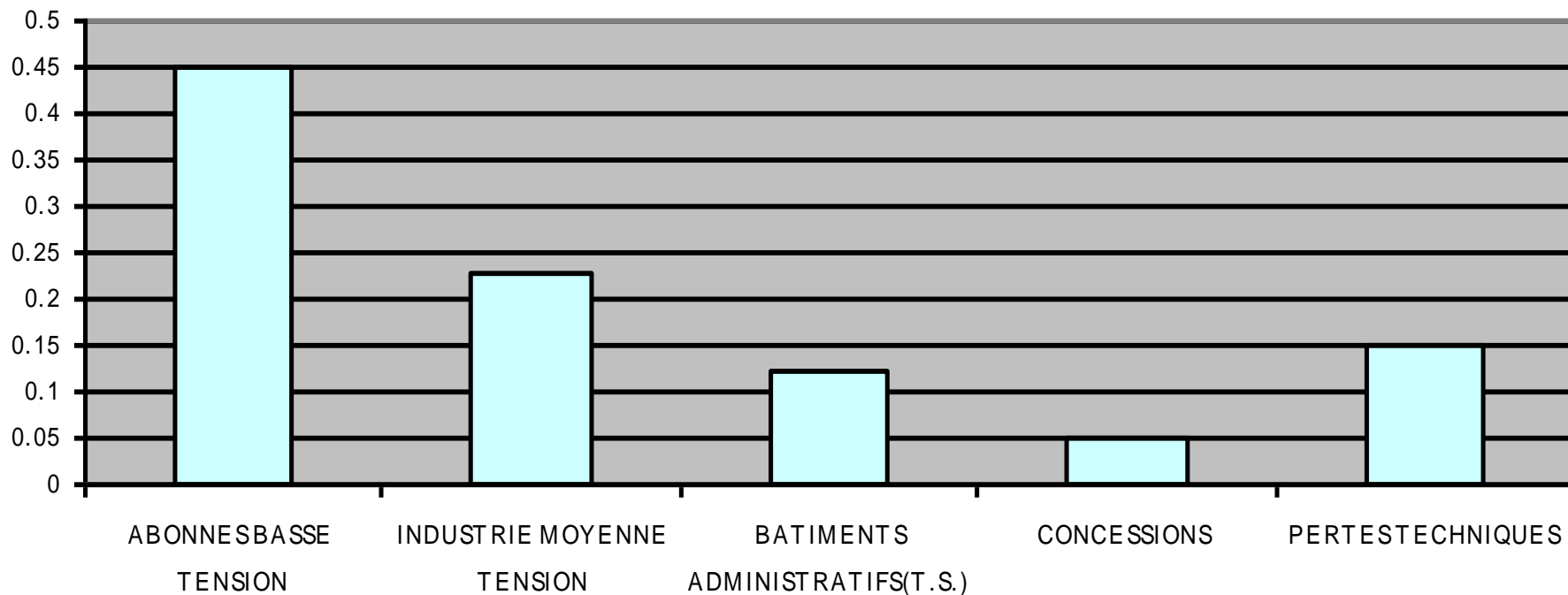
CENTRALES THERMIQUES EXISTANTES AU LIBAN

NOM	TYPE	COMBUSTIBLE	PROPRIETAIRE	PUISSANCE (MW)
ZOUK	TURBINE A VAPEUR	FUEL OIL LOURD	EDL	145X3
ZOUK	TURBINE A VAPEUR	DIESEL OIL	EDL	175
JIEH	TURBINE A VAPEUR	GAZ	EDL	18
HREYCHE	TURBINE A VAPEUR	FUEL OIL LOURD	EDL	62X2
BAALBECK	TURBINE A VAPEUR	FUEL OIL LOURD	KADISHA (APPARTENANT EDL)	69X3
SOUR	TURBINE A VAPEUR	DIESEL OIL	EDL	65
ZAHRANI	TURBINE A VAPEUR	DIESEL OIL	EDL	35X2
DEIR AMAR (BEDDAOUI)	TURBINE A VAPEUR	DIESEL OIL	EDL	35X2
	TURBINE A VAPEUR	DIESEL OIL OU GAZ NATUREL	EDL	145X3
	TURBINE A VAPEUR	DIESEL OIL OU GAZ NATUREL	EDL	145x3
	TOTAL THERMIQUE			2034

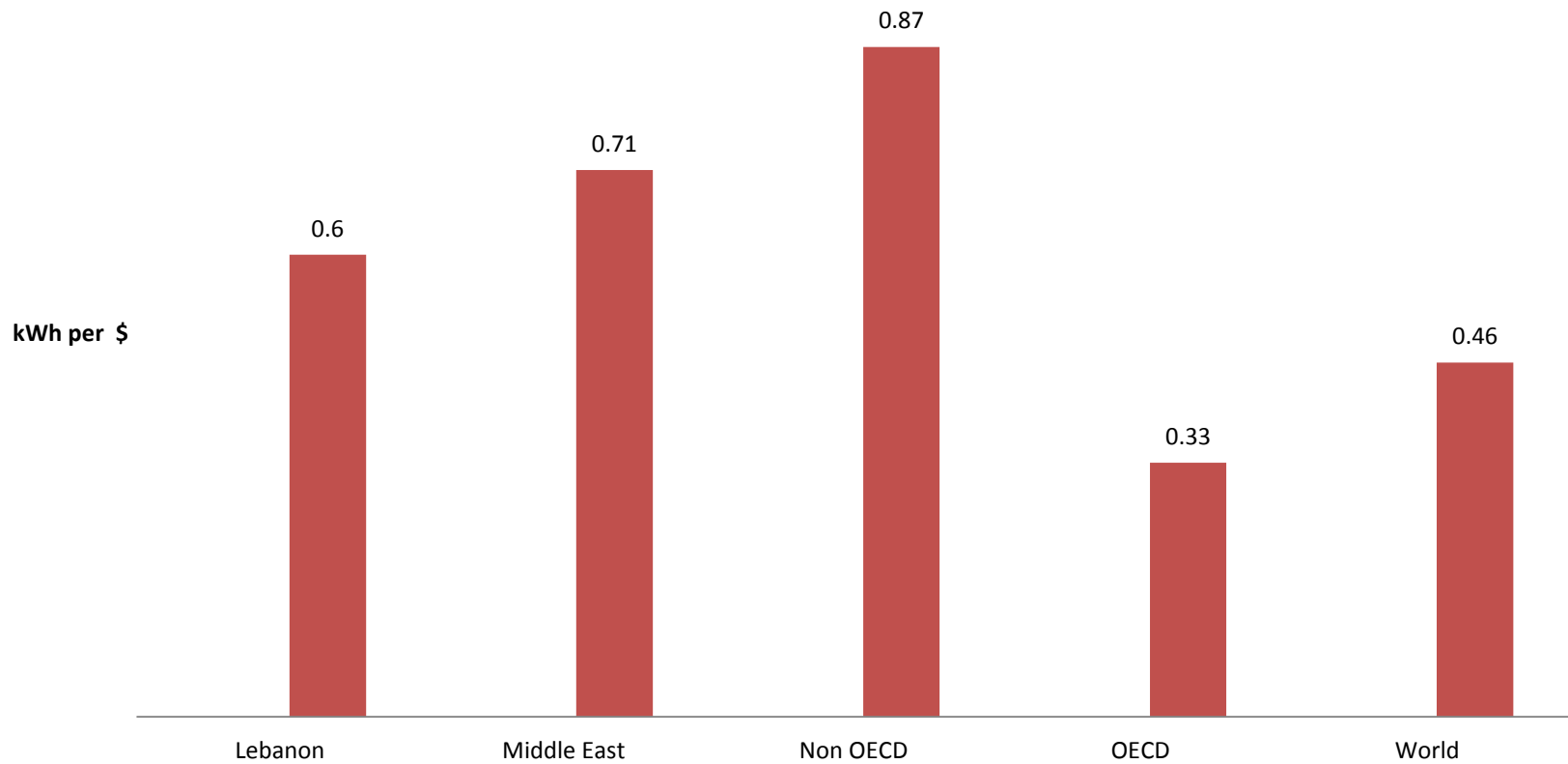
Evolution de la Production d'Electricité distribuée par EDL



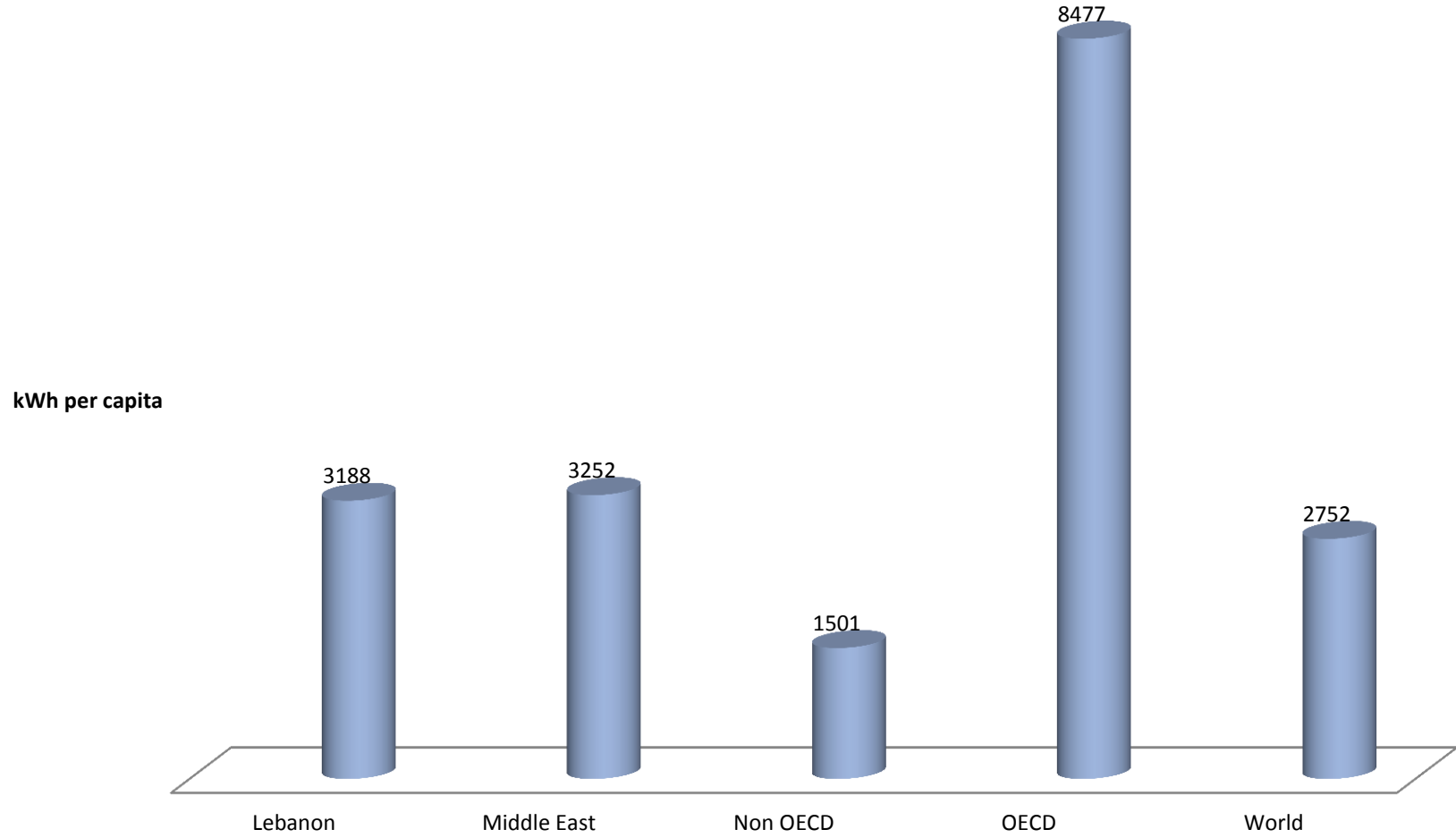
VENTILATION DE LA CONSOMMATION ELECTRIQUE



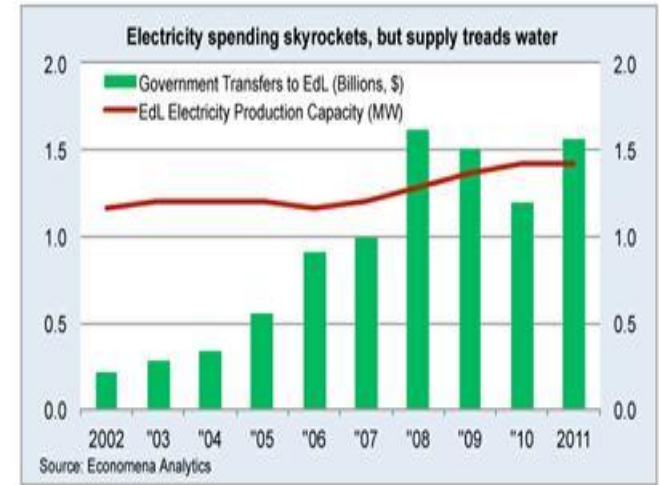
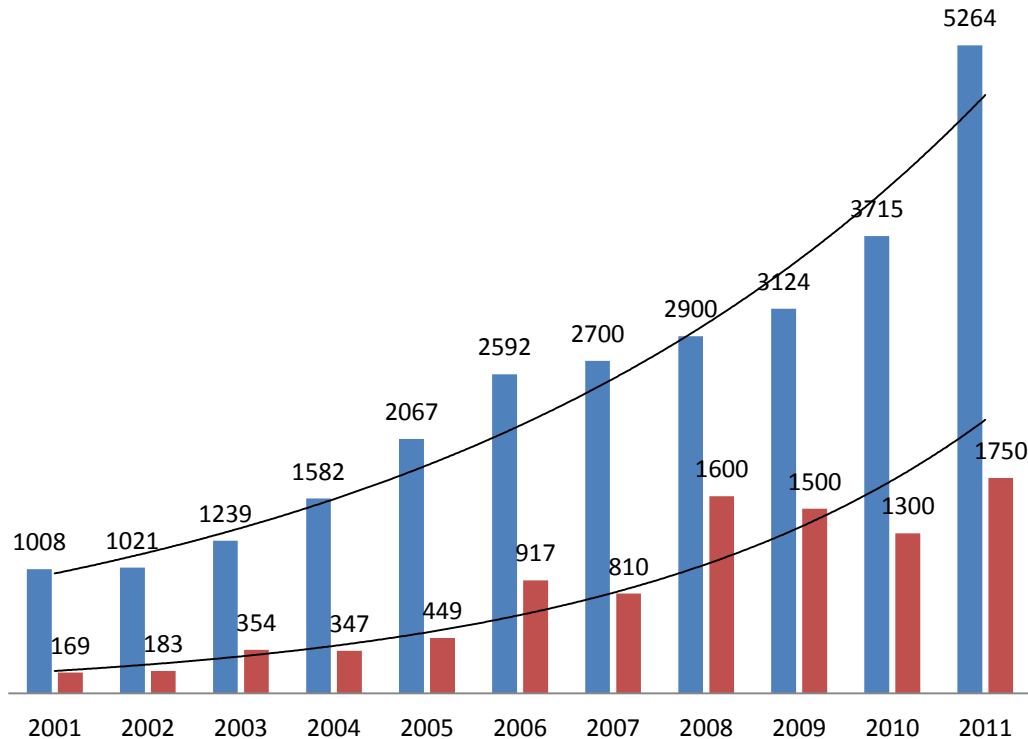
Consommation Electrique / PIB



Consommation Electrique /Habitant



Facture des Importations de l'Energie et des Subventions à l'EDL
(Millions \$)



EDL's income during 2009 and 2010 by region

Region	2009 \$ millions	2010 \$ millions
Beirut-Chiyah-Antelias	476.29	497.71
Mount Lebanon	109.25	115.49
North	20.17	22.02
South	49.49	53.20
Bekaa	21.56	23.35
Total income	676.75	711.77
Total transfers to EDL	1,498.51	1,192.04
Total subsidy	821.76	480.27

Figure 1: Transfers to EDL and international oil prices (2001-2009)

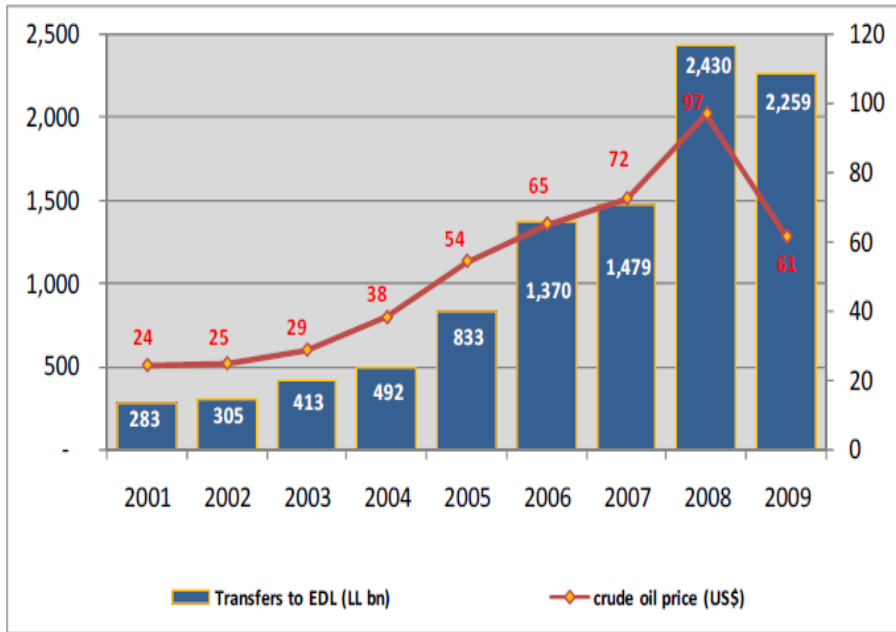
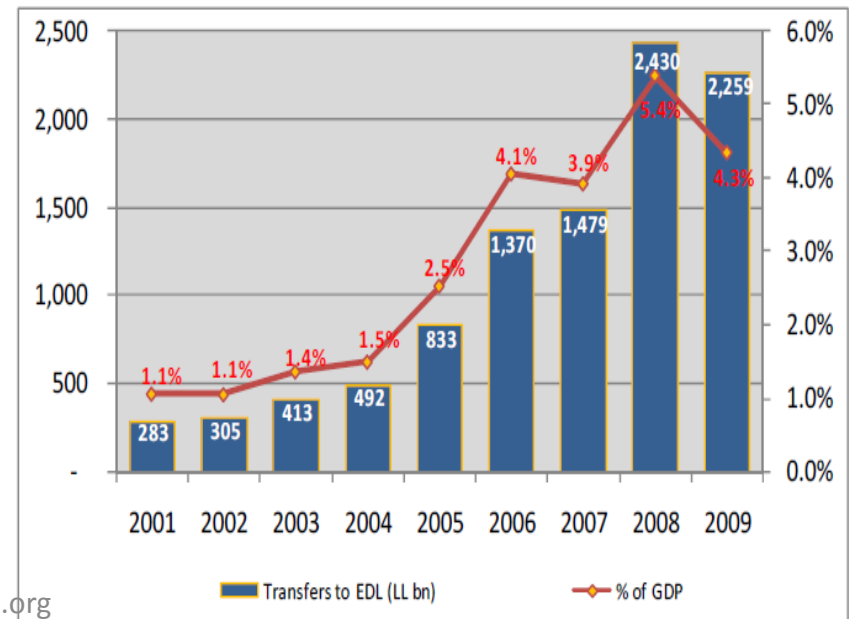
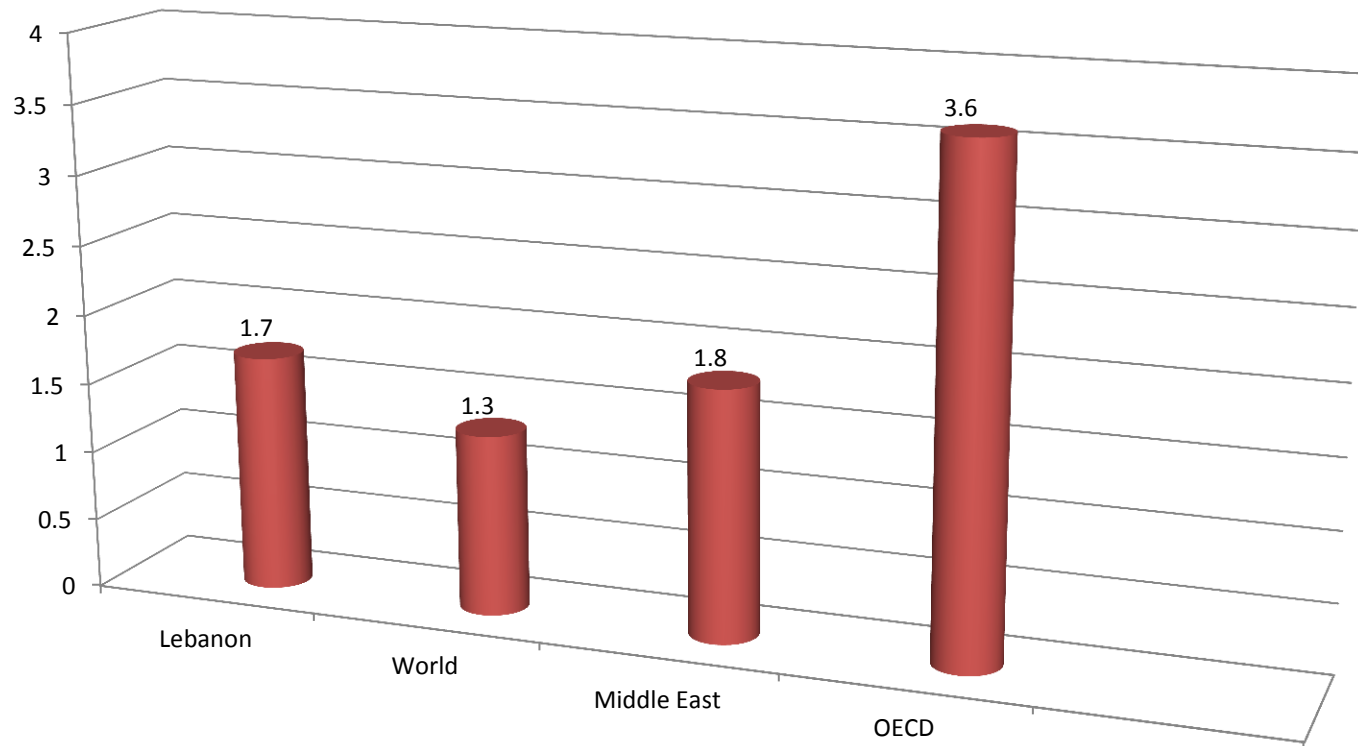


Figure 4: Transfers to EDL as percentage of GDP (2001-2009)



CO2 Emissions/population (Te Carbone/capita)



Cette analyse a été effectuée par
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