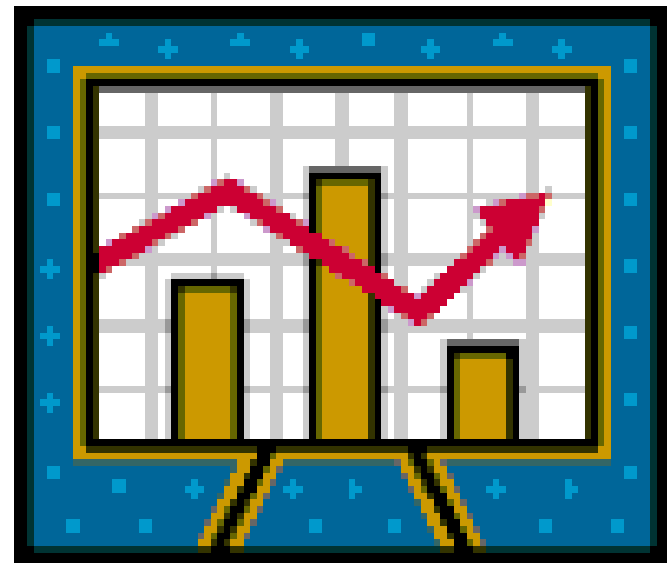


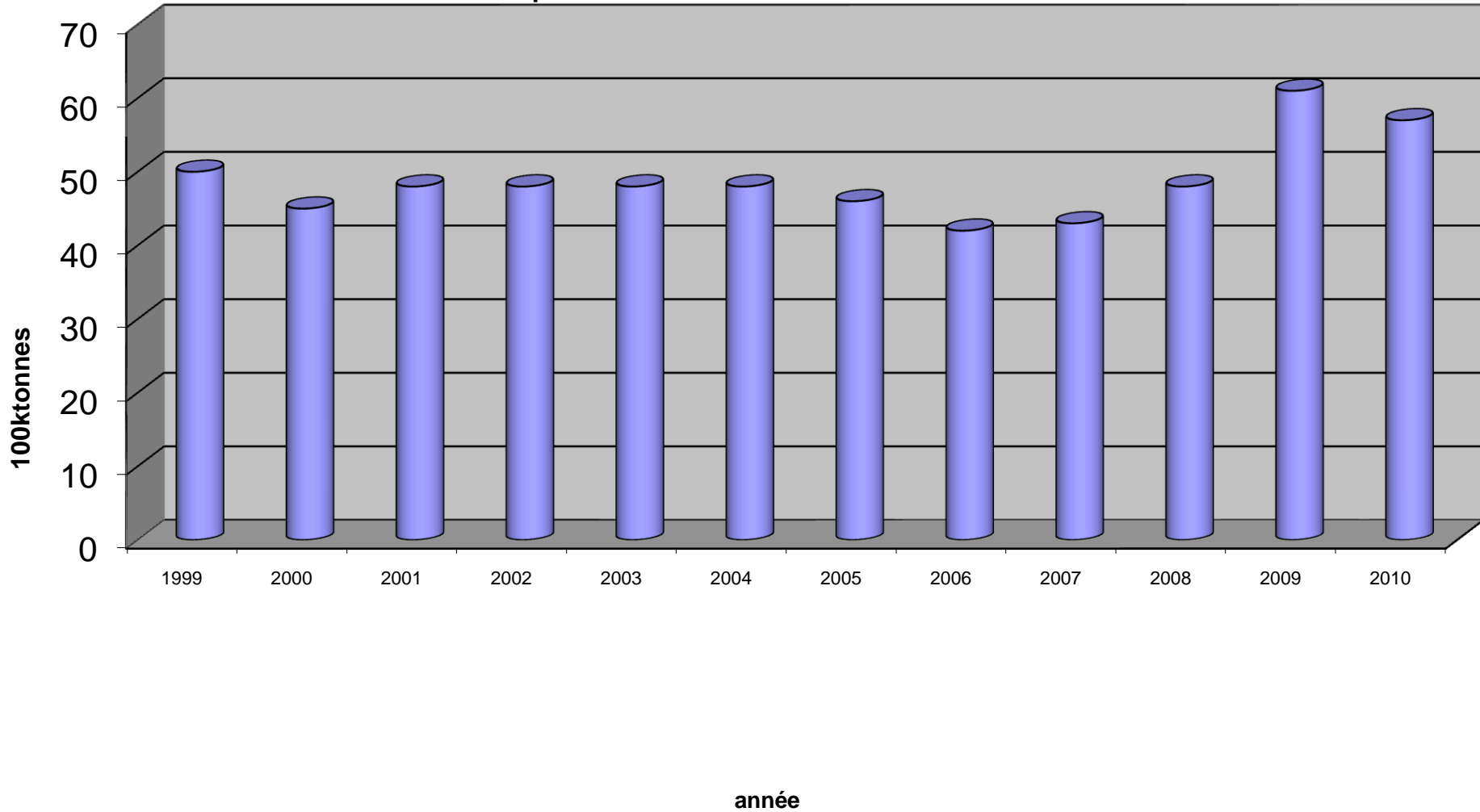
# Les Bilans Energétiques au Liban en 2010



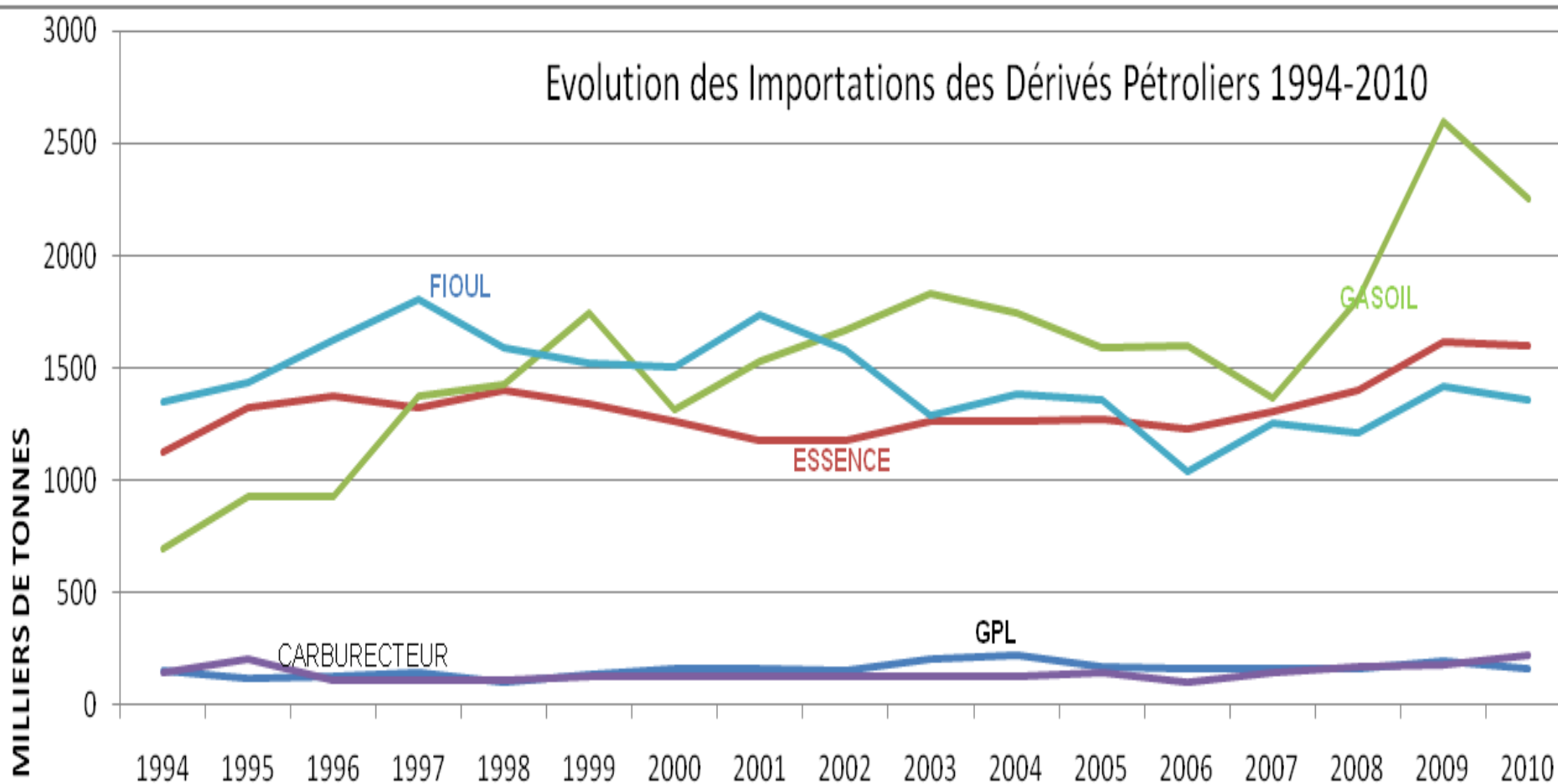
## LES IMPORTATIONS DES DERIVES PETROLIERS 2000-2010

PRODUIT	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
GPL	165 120	157 733	154 825	205 148	220 231	166 133	161 117	160 627	163 183	199144	163567
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
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
MARCHE	782 840	960 211	910 404	1 003 193	904 492		538 575	514 830	543 185	1 462 633	1 257 725
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
CARBUREACTEUR	124 511	128 196	126 825	124 502	126 679	146 578	103 355	139 726	166 685	174 565	22 0951
FIOL 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
MARCHE	213 468	383 768	1 392 134	321 816	421 094		83 108	187 500	137 000	194 772	72 724
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
APP	94 881	108 614	112 411	84 047	81 475	59 886	43 857	72 782	73 919	88 300	105057
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	5 692 210

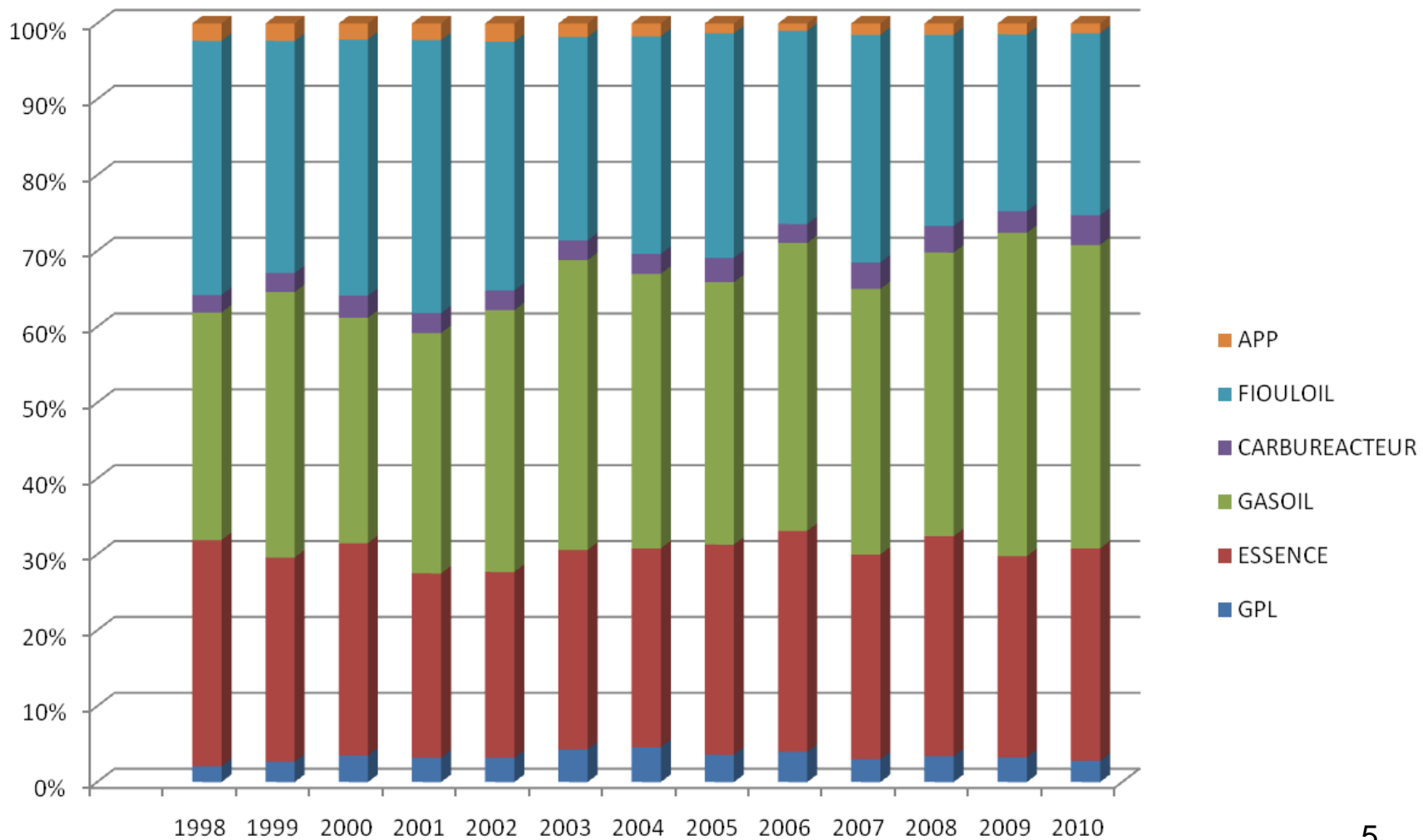
Evolution des Importations des Produits Pétroliers 1999-2010



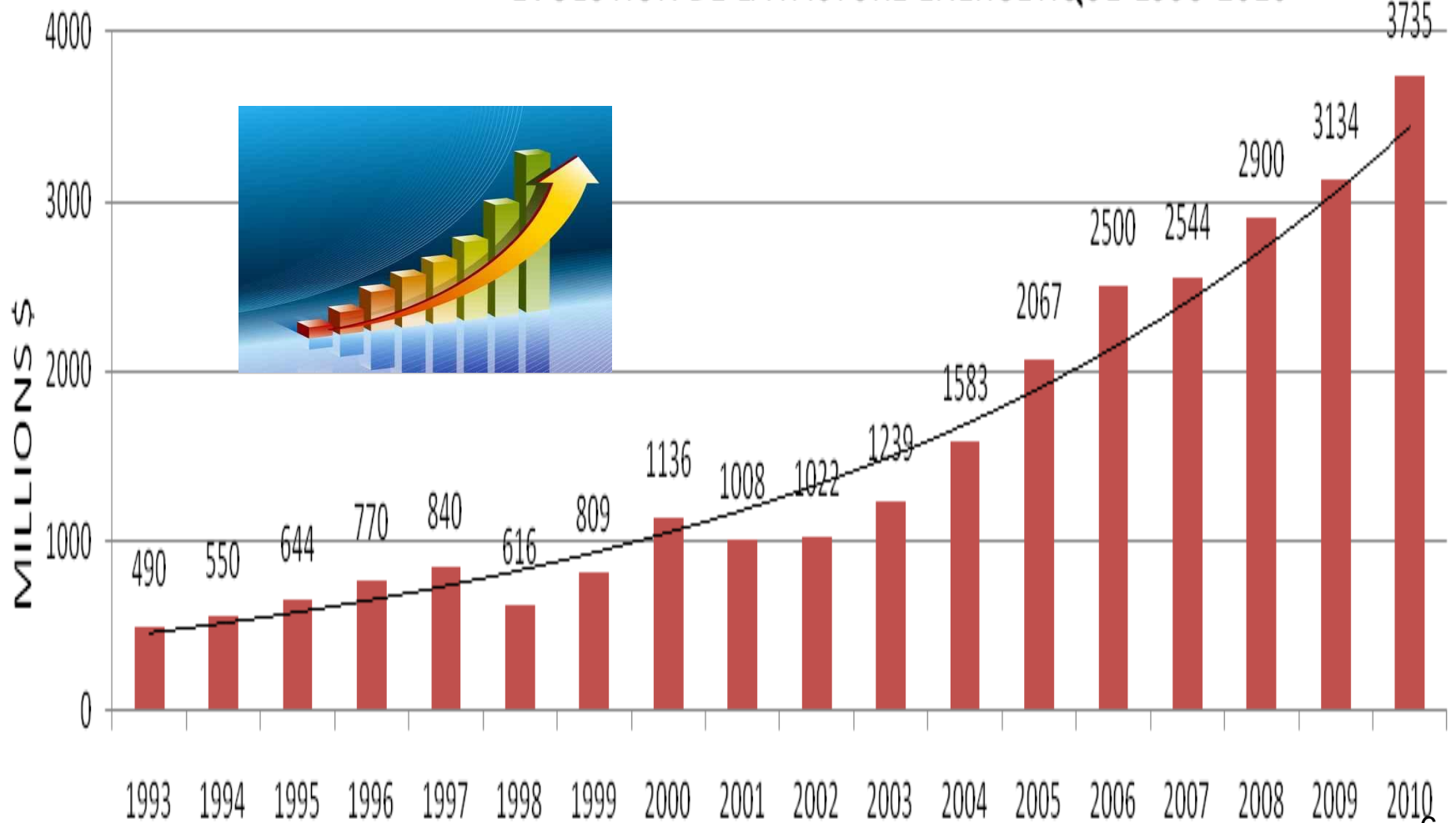
Evolution des Importations des Dérivés Pétroliers 1994-2010



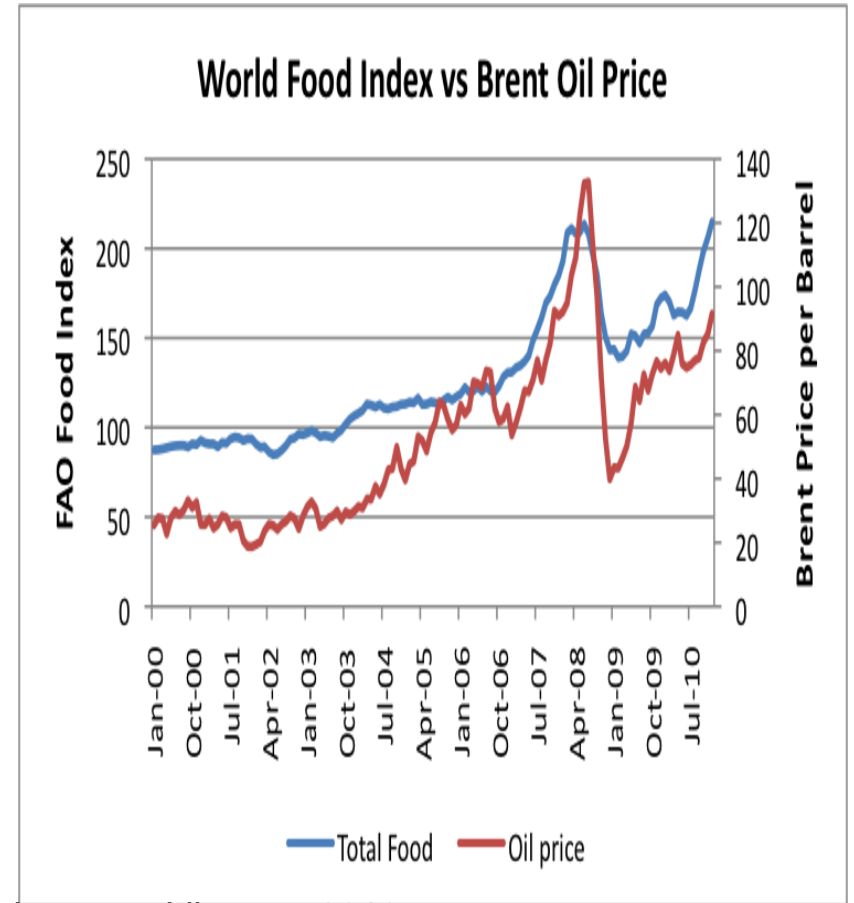
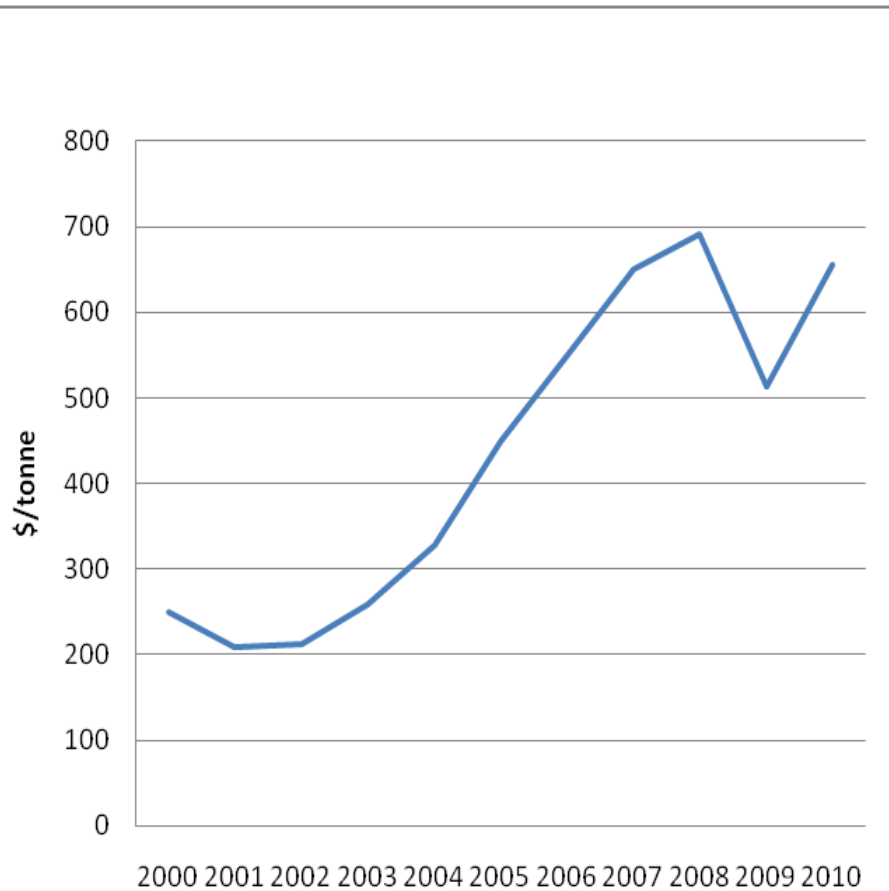
Importations des Produits Pétroliers 1998-2010 en %



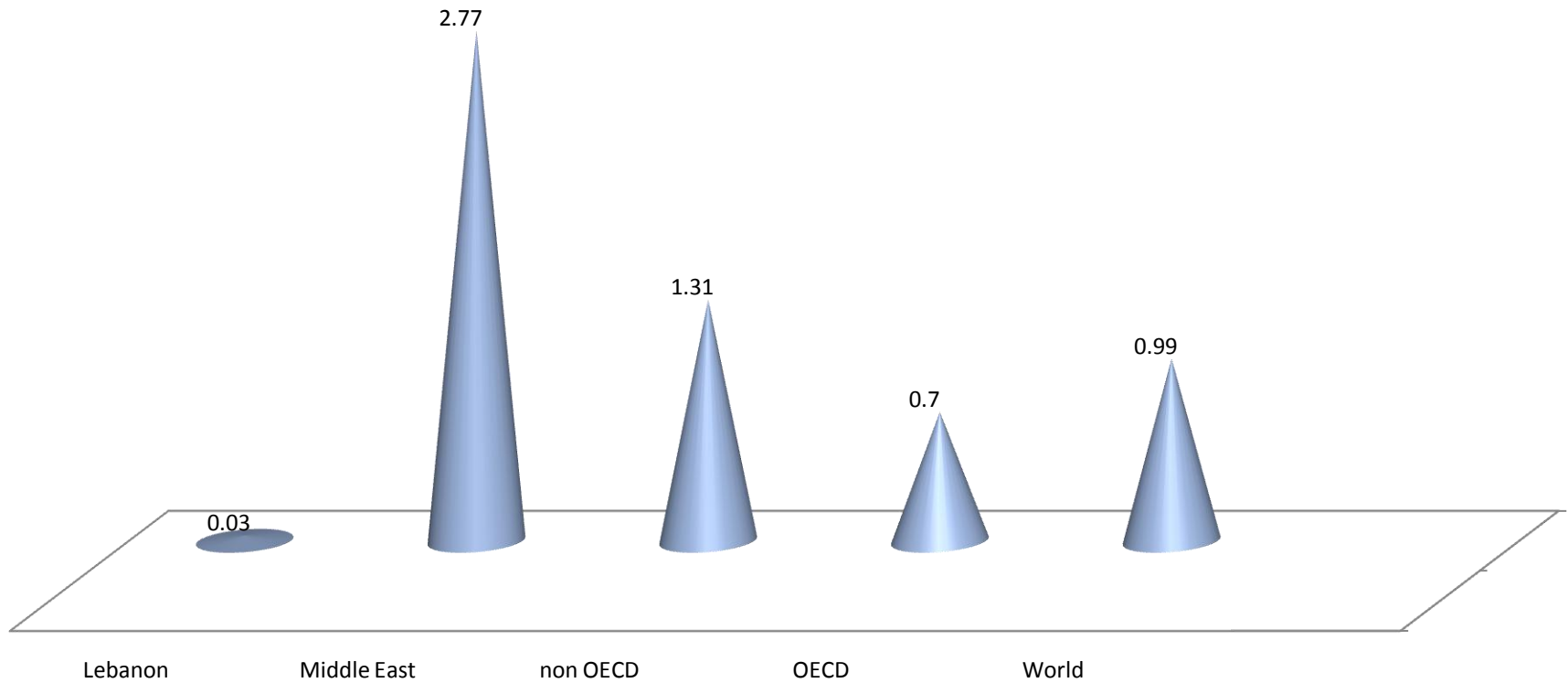
## EVOLUTION DE LA FACTURE ENERGETIQUE 1993-2010



Evolution du Coût Annuel Moyen des Importations en Dérivés Pétroliers % Cours Mondial du pétrole



## Energy production/TPES (self-sufficiency) Indépendance Energétique

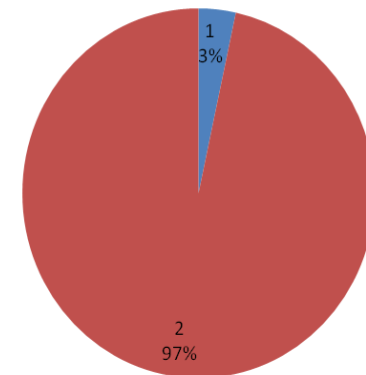


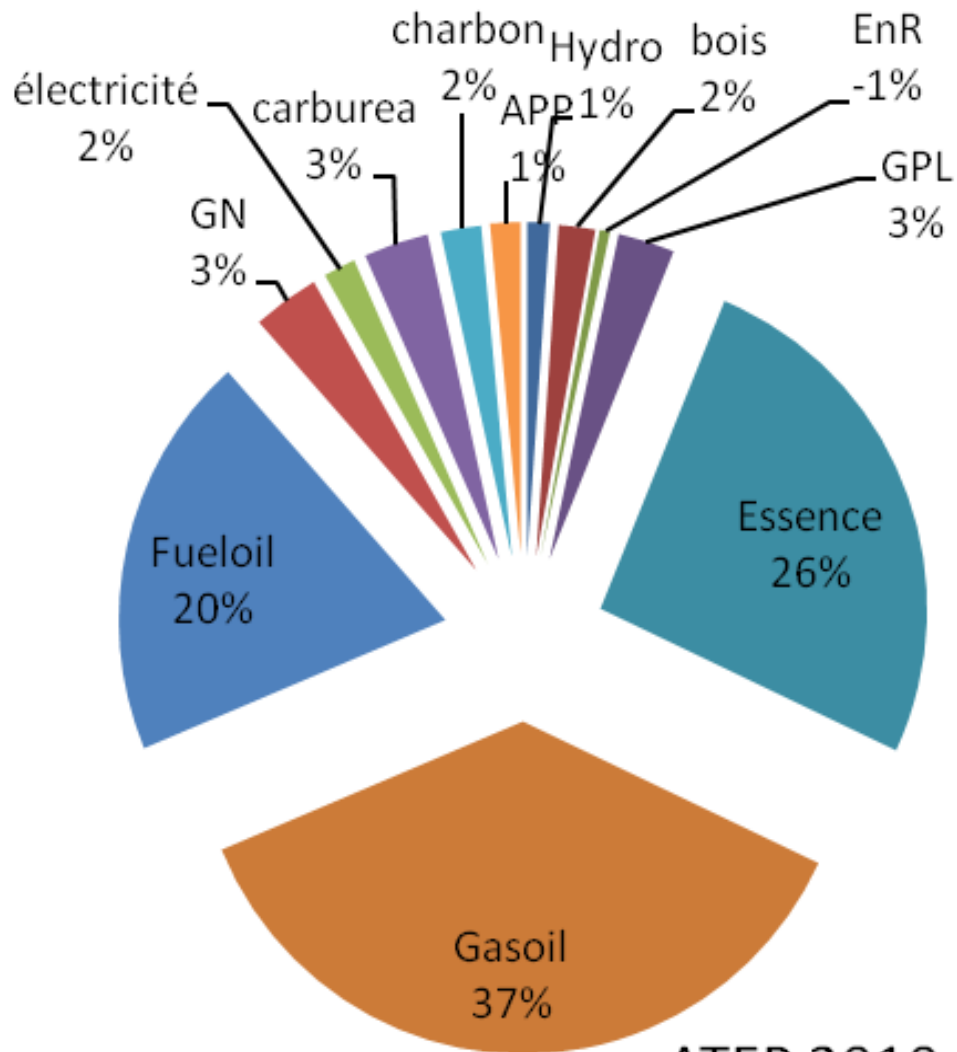


## Approvisionnement Total en Energie Primaire ATEP(Ktep) 2010

		KTEP	%
<b>1-Production</b>			
1-1 Hydroénergie	839 GWH	73	1.1
1-2 Energie Traditionnelle (bois,charbon de bois)		120	1.8
1-3 EnR(solaire thermique,PV,éolien exclus hydro)		30	0.5
<b>Total 1</b>		<b>223</b>	<b>3.4</b>
<b>2-Importations</b>			
2-1 GPL	Ktonnes	164	106
2-2 Essence	"	1595	1705
2-3 Gasoil	"	2252	2432
2-4 Fueloil	"	1356	1303
2-5 Carburacteur	"	221	217
2-6 Gaz Naturel	Millions de M3	255	219
2-7 Electricité	GWH	1239	109
2-8 Charbon	Ktonnes	200	132
2-APP	"	105	94
<b>Total 2</b>		<b>6397</b>	<b>96.6</b>
<b>3-Exportation</b>			
		-	-
<b>4-Total</b>		<b>6620</b>	<b>100</b>

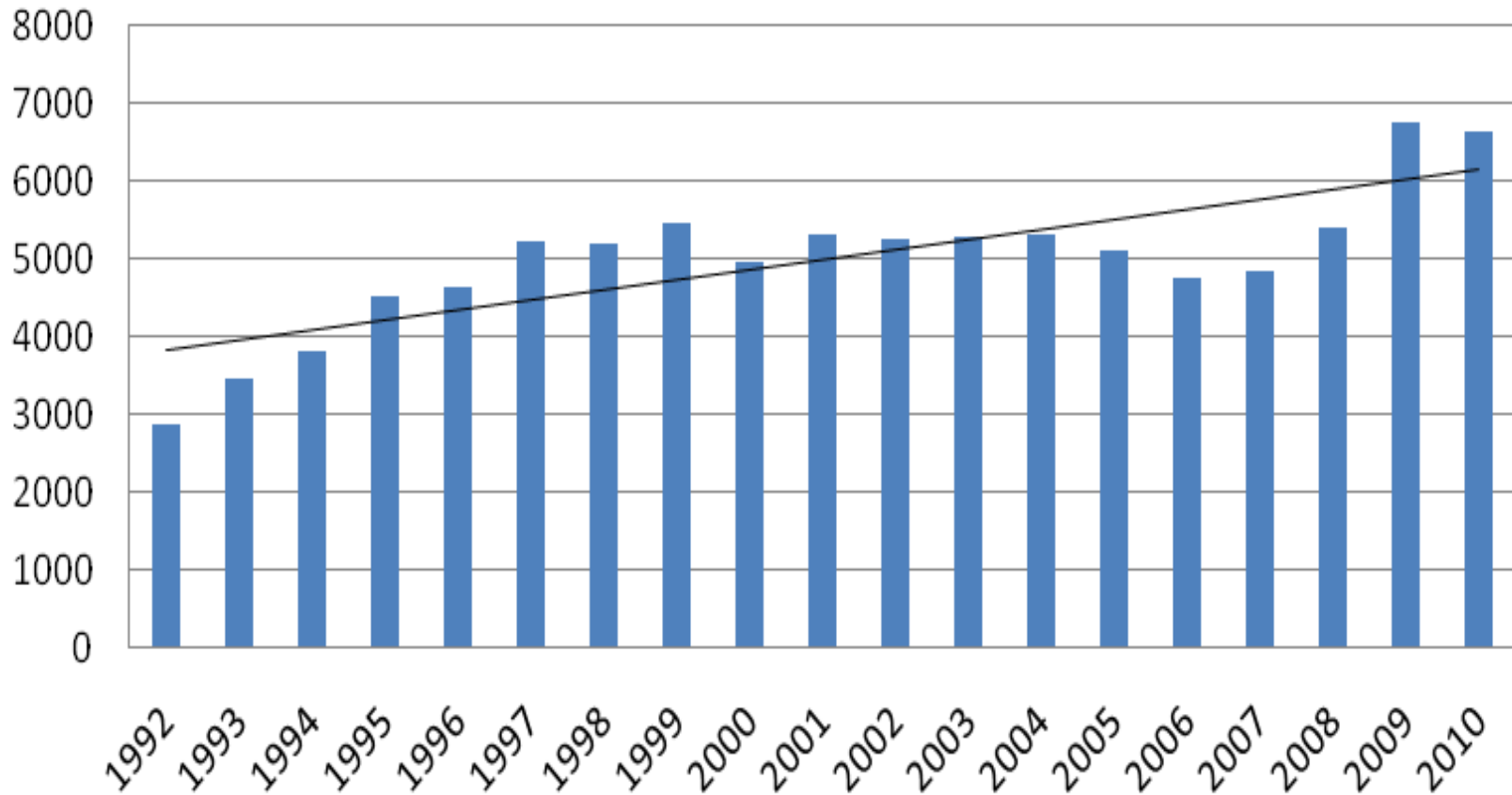
1 Production Energie Primaire  
2- Importation Energie Primaire





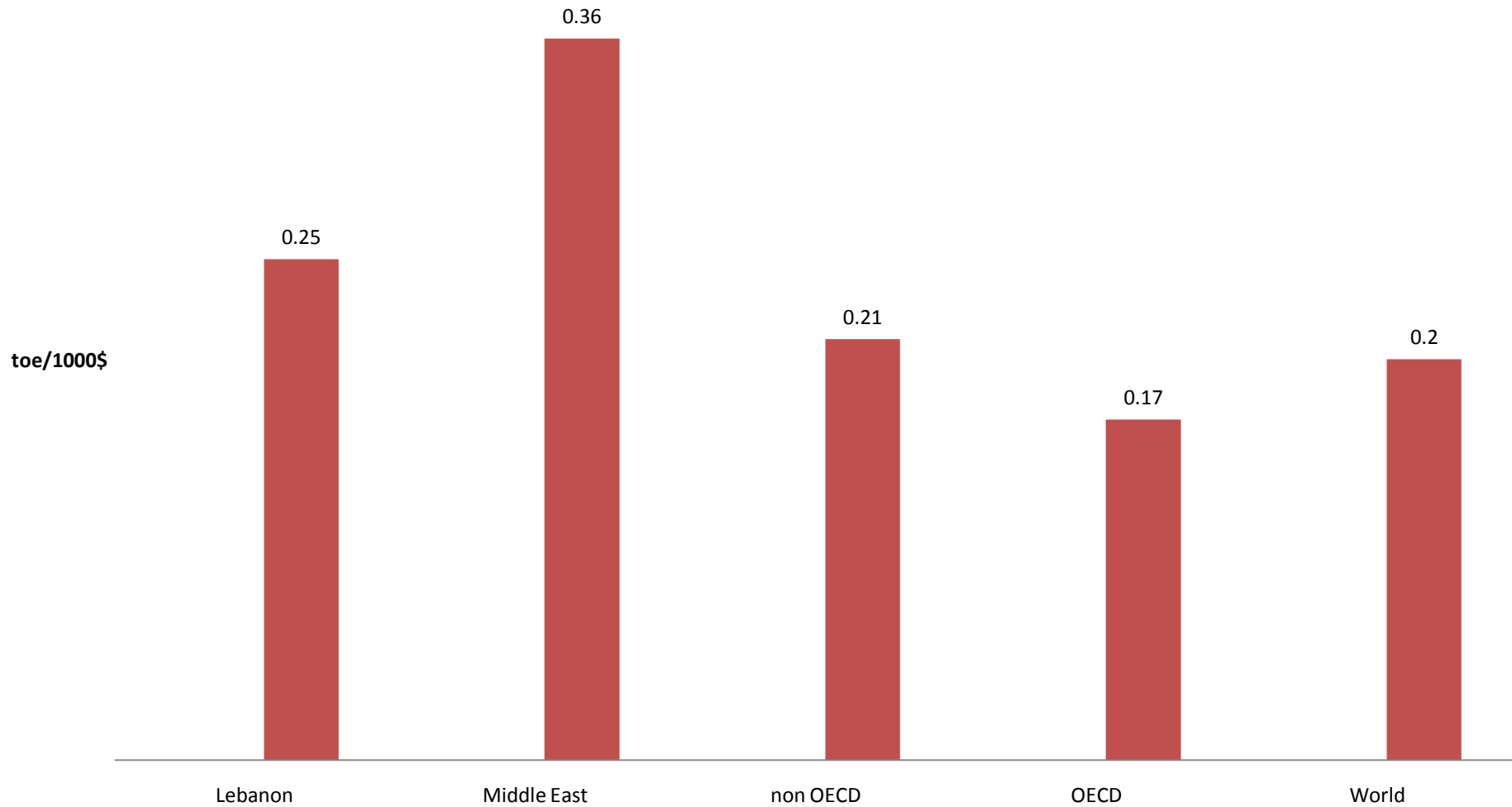
ATEP 2010

## Evolution ATEP(KTEP)



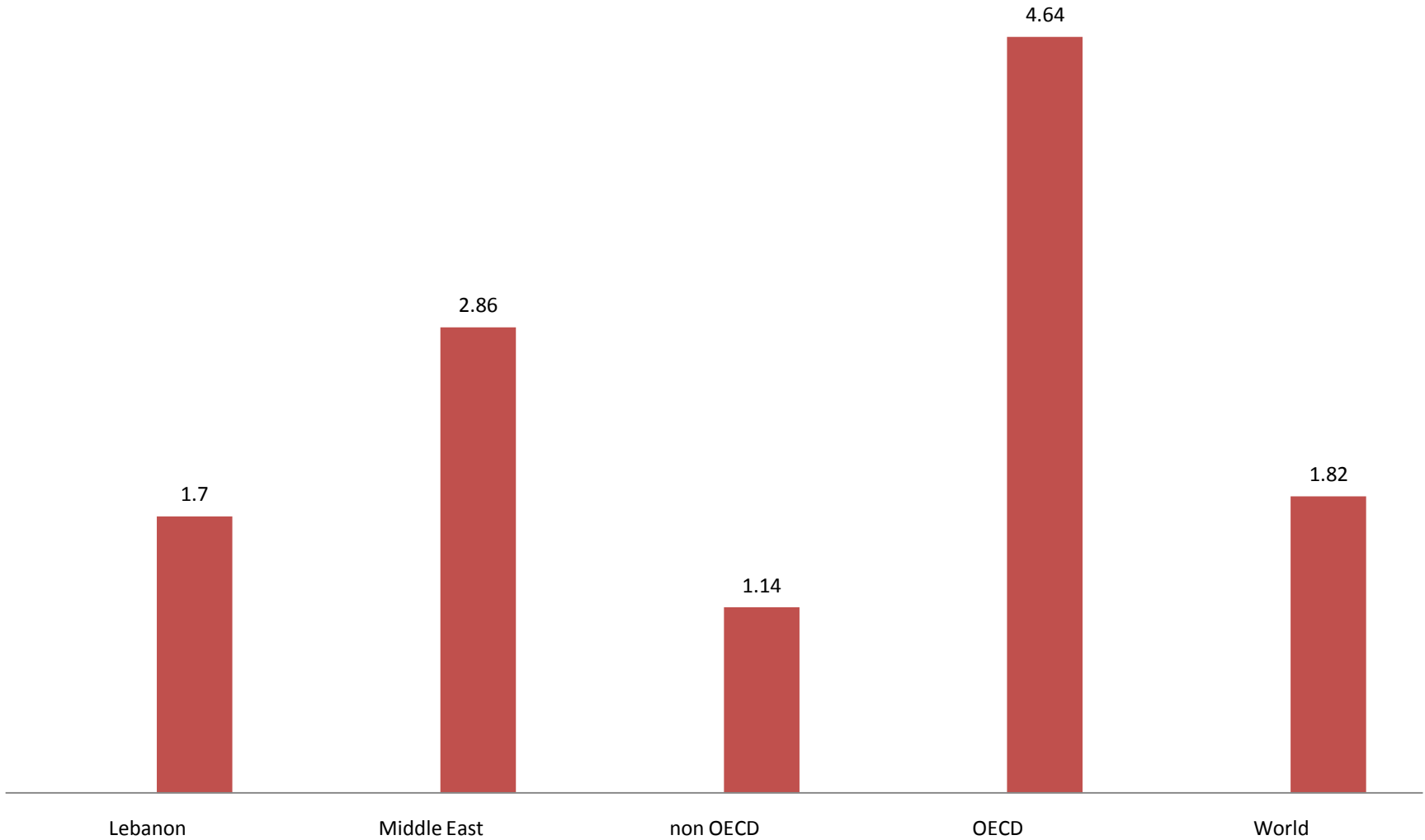
TPES/GDP ppp (energy Intensity)

ATEP/PIB(Intensité Energétique)



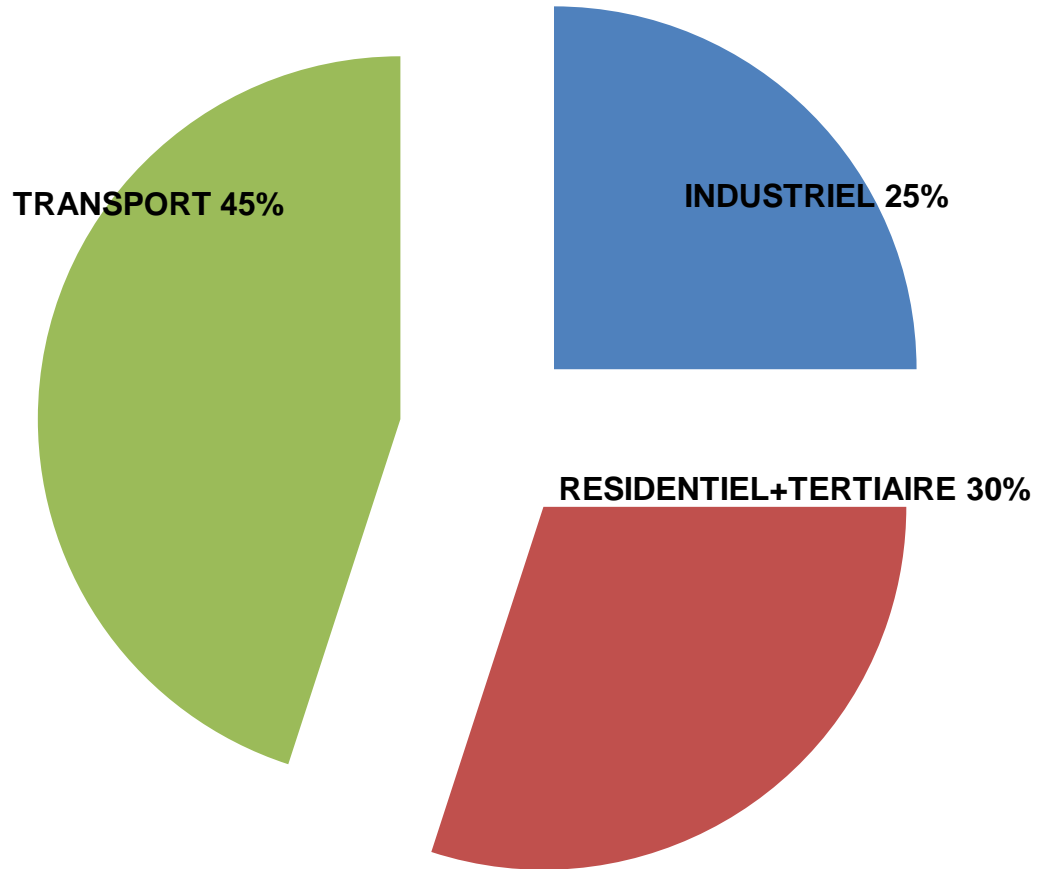
TPES/population ( toe/c )

ATEP/H ( tep/h )



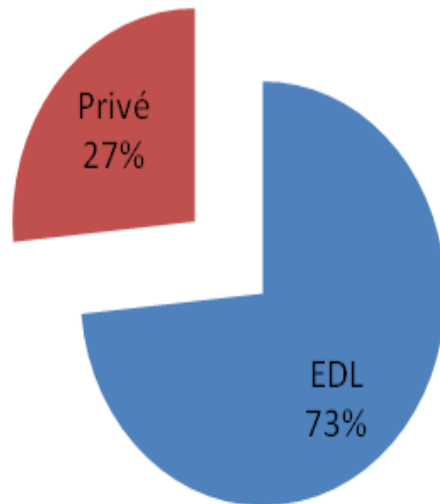
les Bilans Energétiques au Liban en 2010

VENTILATION ENERGIE FINALE

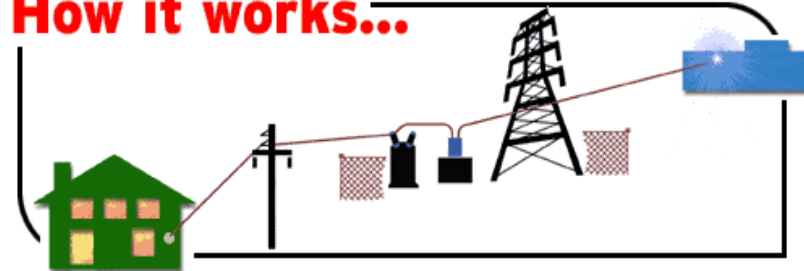


Consommation totale en énergie électrique en 2010(EDL et Groupes électrogènes indépendants)

EDL : 12457 GWH  
Privé:4500GWH



**How it works...**



## CENTRALES HYDRAULIQUES EXISTANTES AU LIBAN

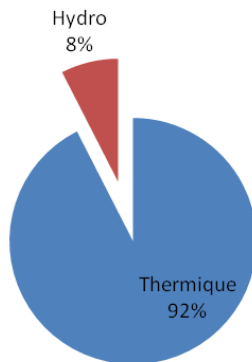
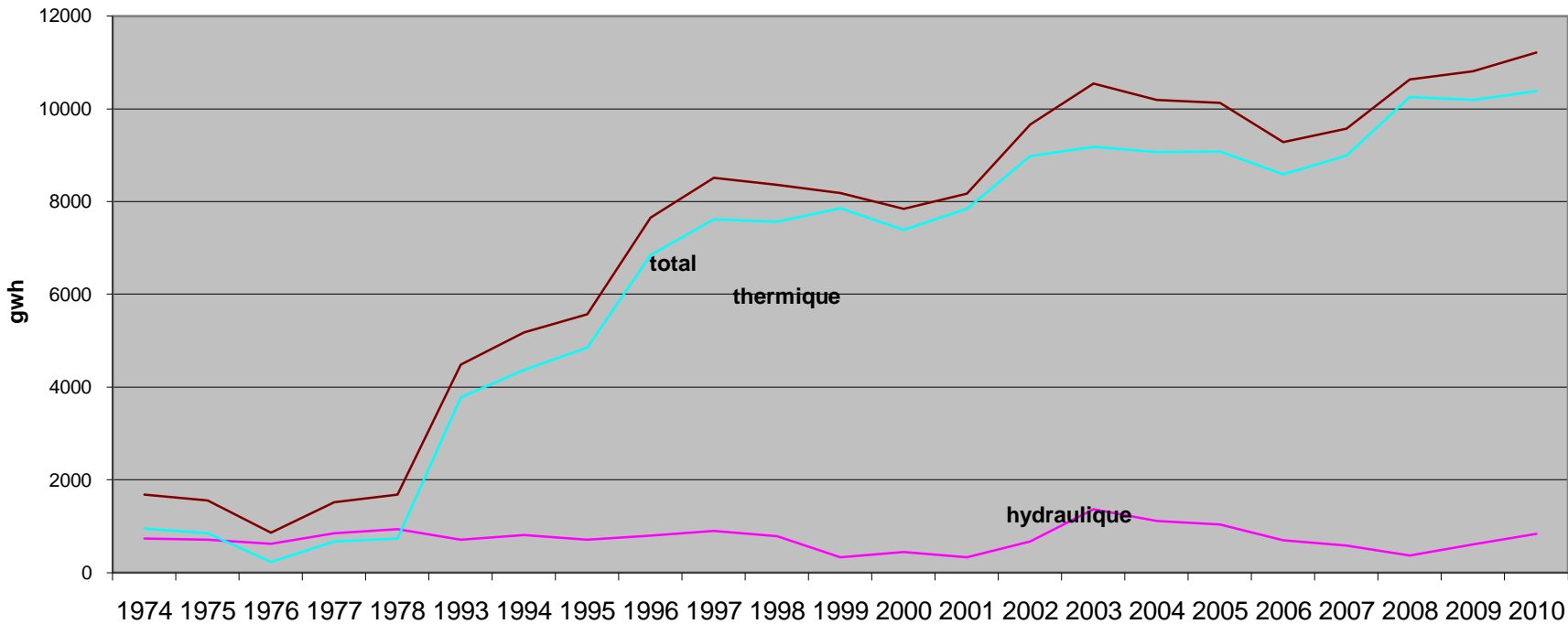
NOM	PROPRIETAIRE	PUISSANCE ( MW)
SAFAVRICHMAYA	EDL (ETABLISSEMENT PUBLIC)	13
ABDEL AL ARKACHE	OFFICE DE LITANI (ETABLISSEMENT PUBLIC)	34
HELOU	"	108
NAHR IBRAHIM	PRIVE	48
BARED	PRIVE	33
ABOU ALI	KADISHA (COMPAGNIE PROPRIETE DE L'EDL)	17
BLAOUZA	"	7.4
MAR LICHAA	"	8.4
BCHARRE	"	3.1
	<b>TOTAL HYDRAULIQUE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

## CENTRALES THERMIQUES EXISTANTES AU LIBAN

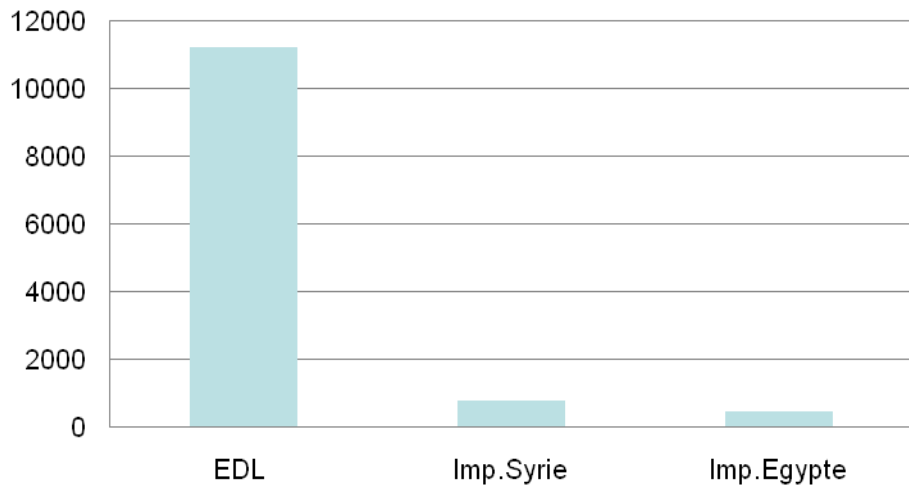
NOM	TYPE	COMBUSTIBLE	PROPRIETAIRE	PUISSANCE ( MW)
ZOUK	TURBINE A VAPEUR	FUEL OIL LOURD	EDL	145X3
ZOUK	TURBINE A VAPEUR	DIESEL OIL	EDL	175
JIEH	TURBINE A VAPEUR	FUEL OIL LOURD	EDL	18
HREYCHE	TURBINE A VAPEUR	FUEL OIL LOURD	KADISHA (APPARTENANT EDL)	62X2 69X3
BAALBECK	TURBINE A VAPEUR	DIESEL OIL	EDL	65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



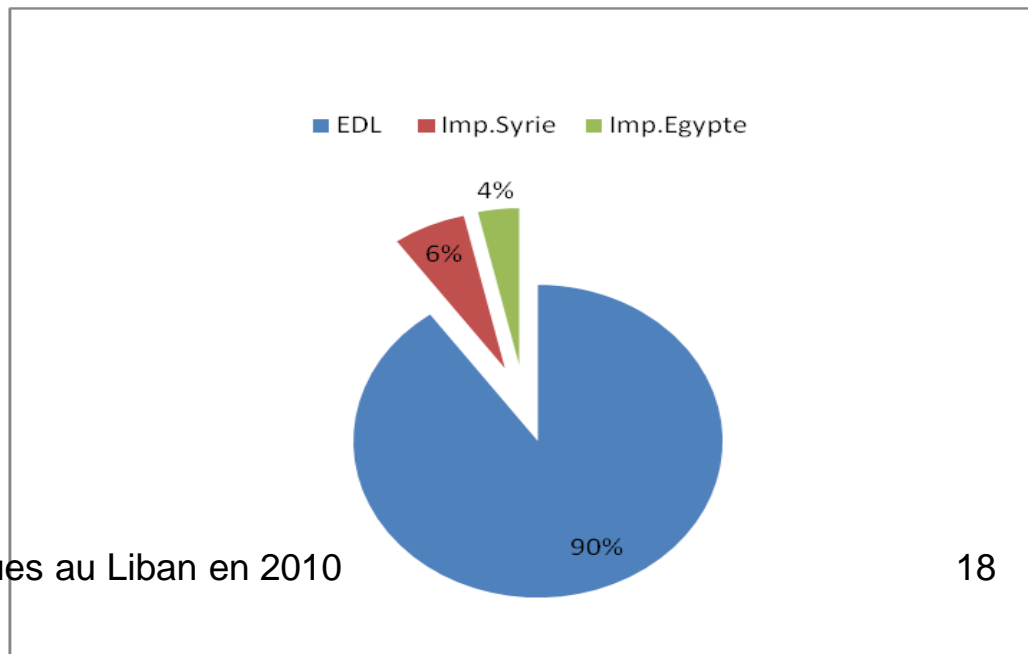
### Evolution de la Production d'Electricité distribuée par EDL



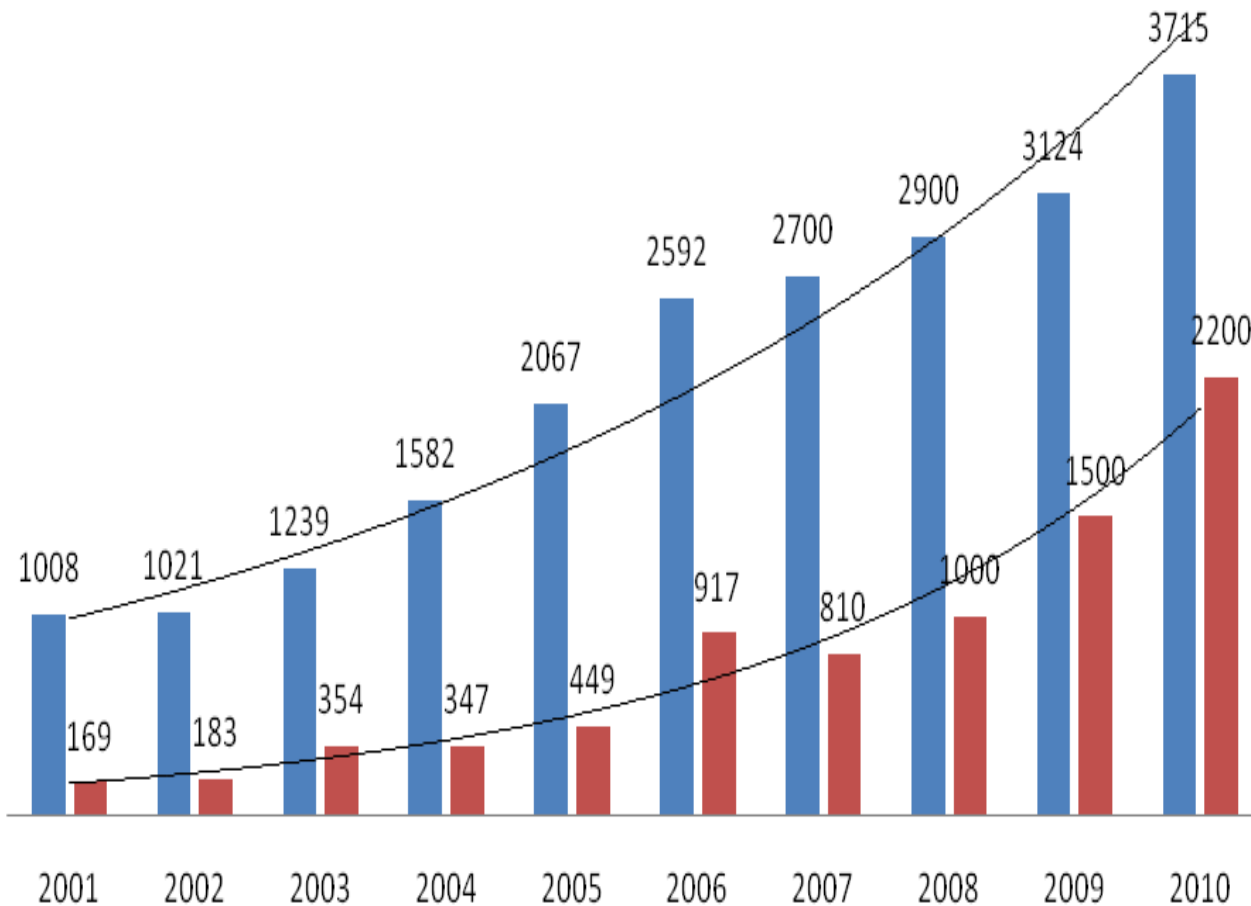
### Réseau EDL(GWH)



Total: 12457 GWH

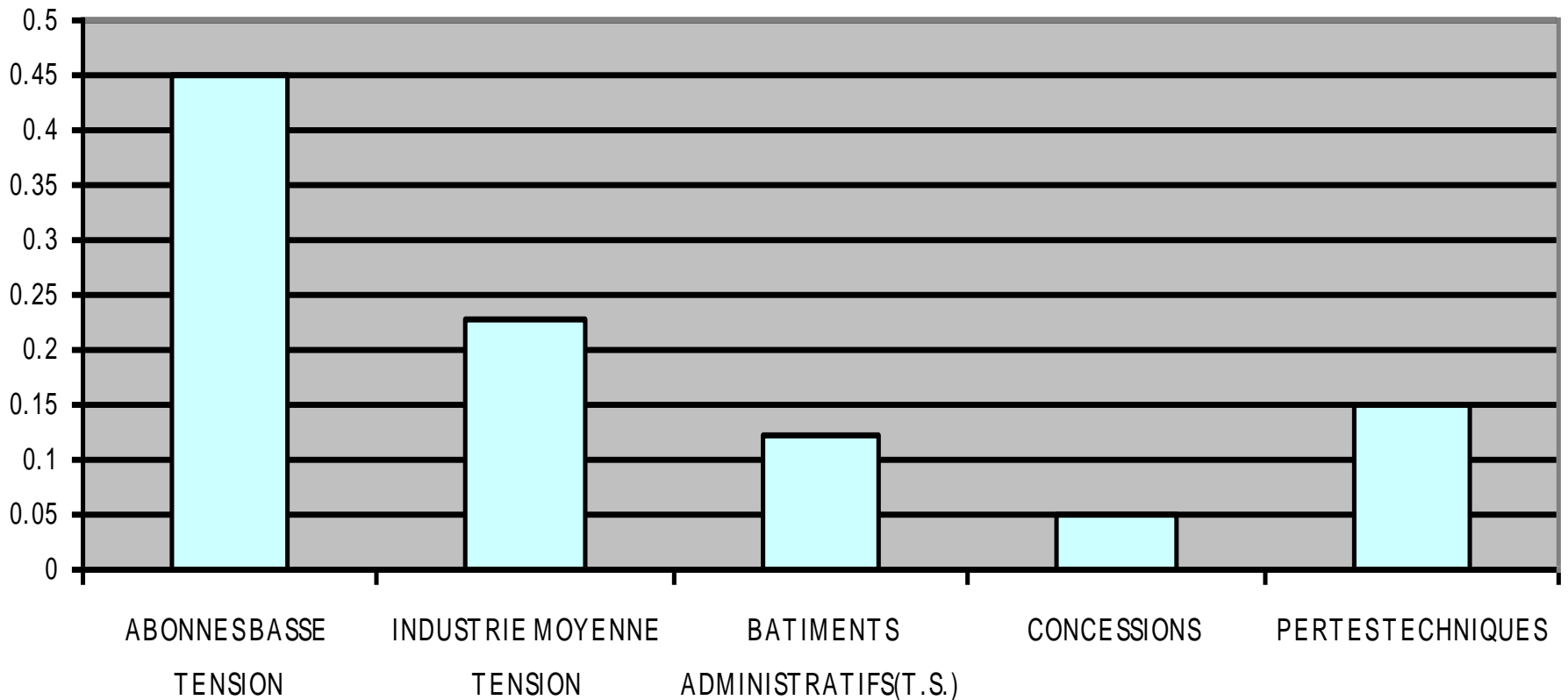


## Facture des Importations de l'Energie et des subventions à l'EDL (Millions \$)

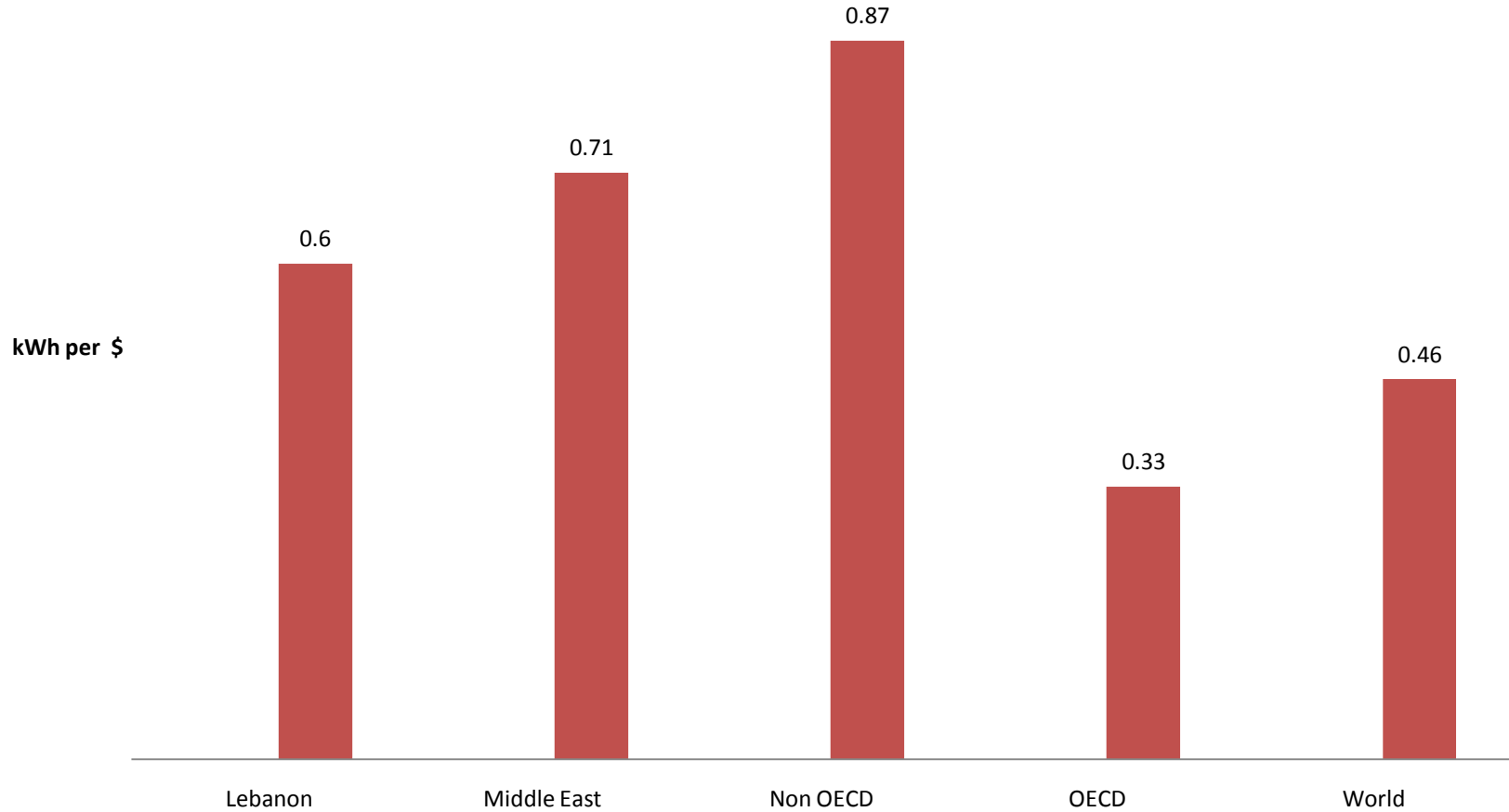


Tarifs de l'électricité BT			
Consommation	Tarif		Tarif
	kWh/mois	LL / kWh	
<100		35	0.026
101-300		55	0.041
301-400		80	0.060
401-500		120	0.090
>500		200	0.150
Petite industrie		115	0.086
Agriculture		115	0.086
Public		140	0.105
Tarifs de l'électricité MT			
Industrie	320	pointe	0.240
Hotellerie	112	normal	0.084
		80	nuit

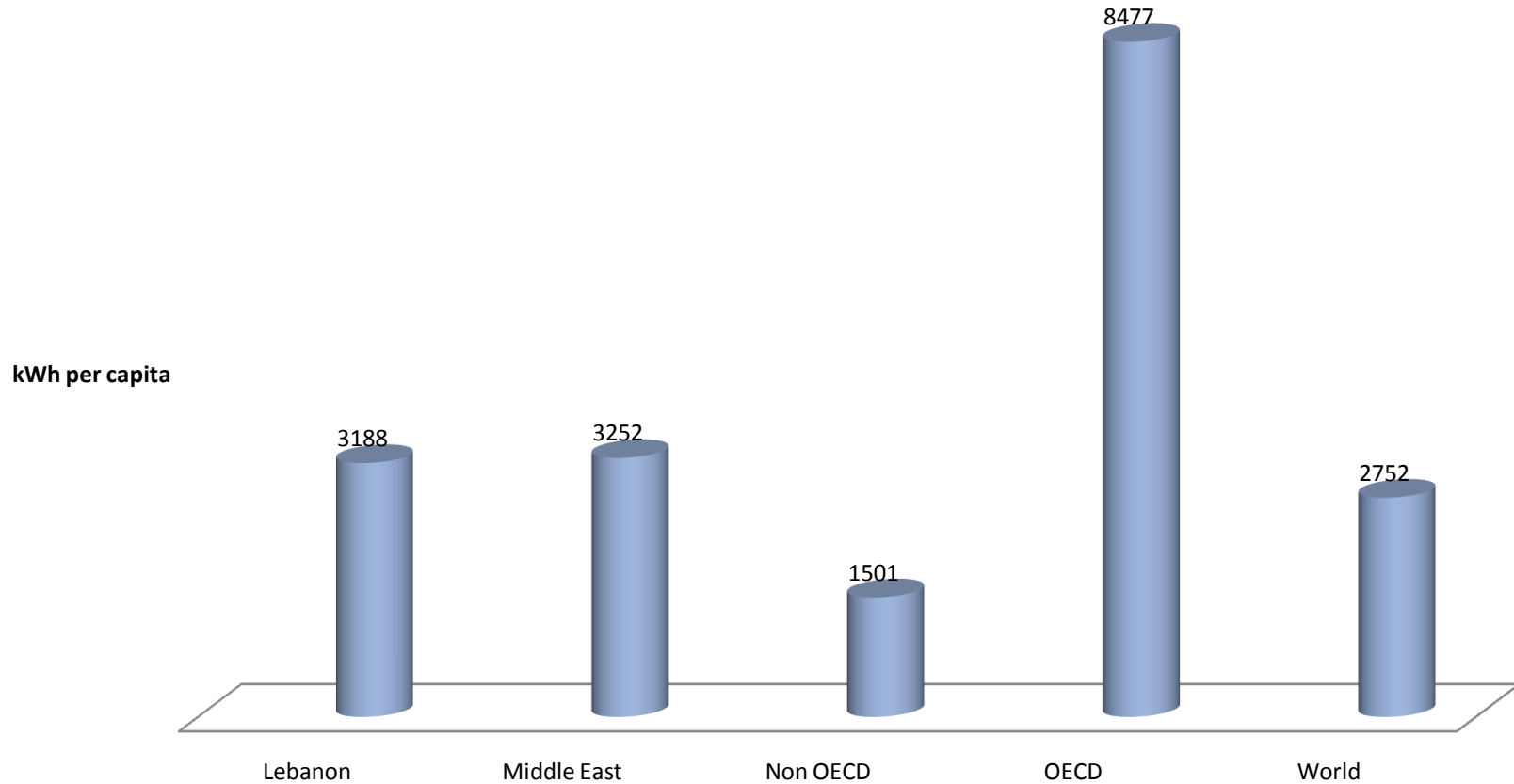
## VENTILATION DE LA CONSOMMATION ELECTRIQUE



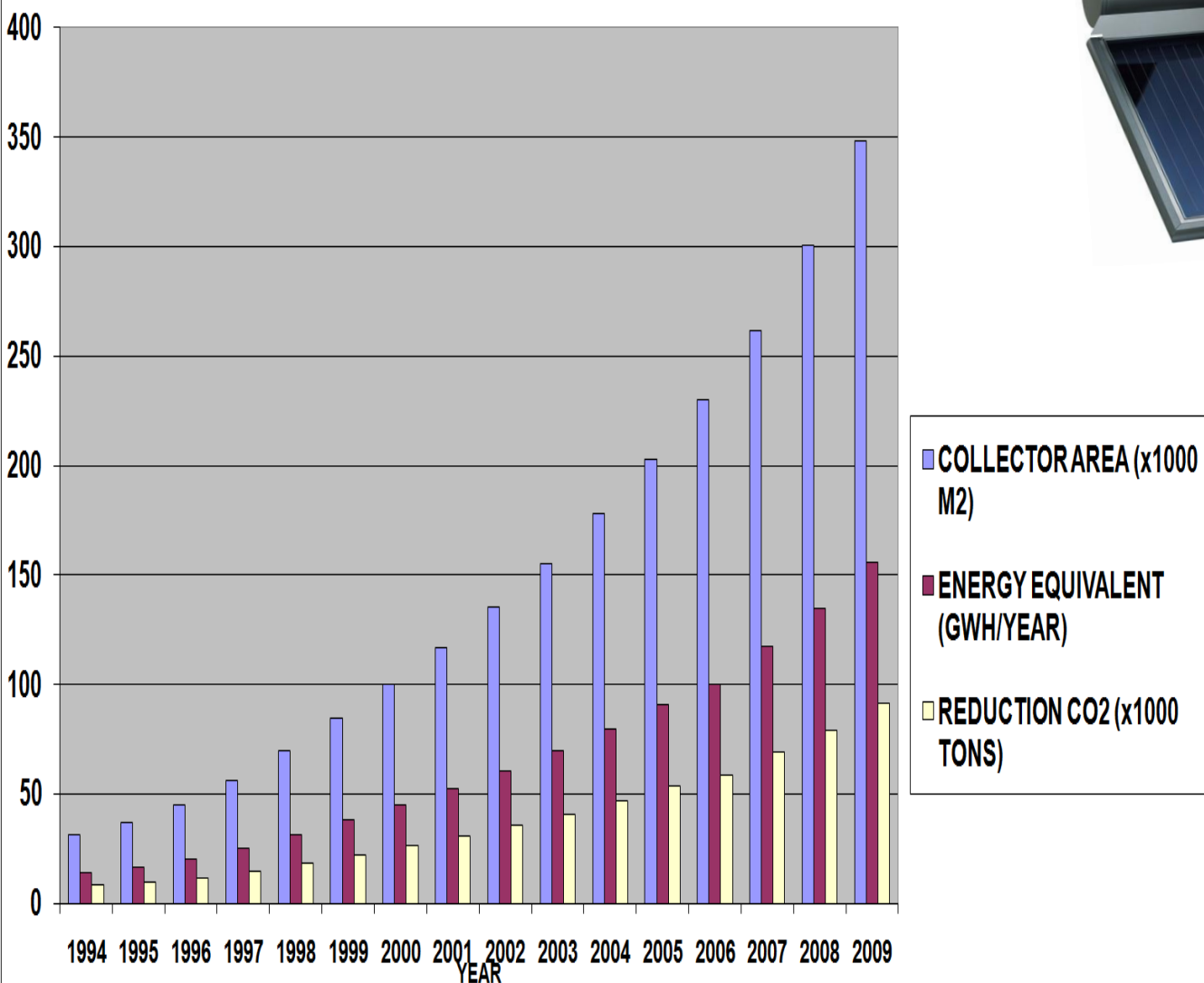
## Consommation Electrique / PIB



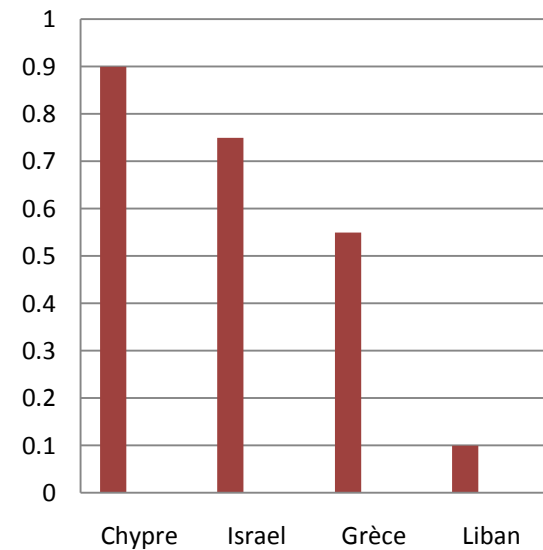
## Consommation Electrique /Habitant



## ENERGY EQUIVALENT & CO2 REDUCTION

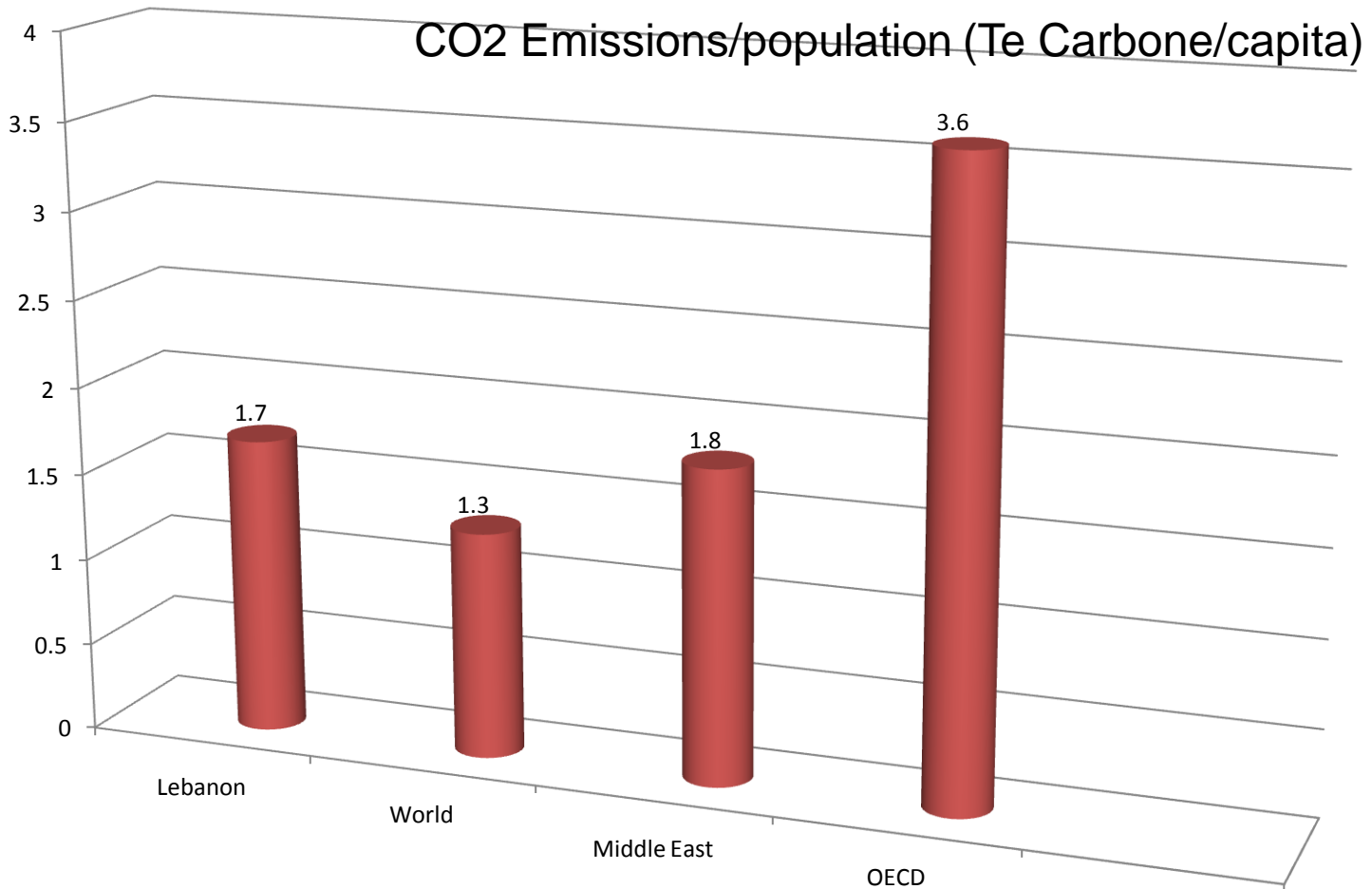


## M2 de Capteur/Habitant









Cette analyse a été effectuée par  
l'ALMEE ([www.almee.org](http://www.almee.org))  
avec le support de l'ADEME  
([www.ademe.fr](http://www.ademe.fr))

