

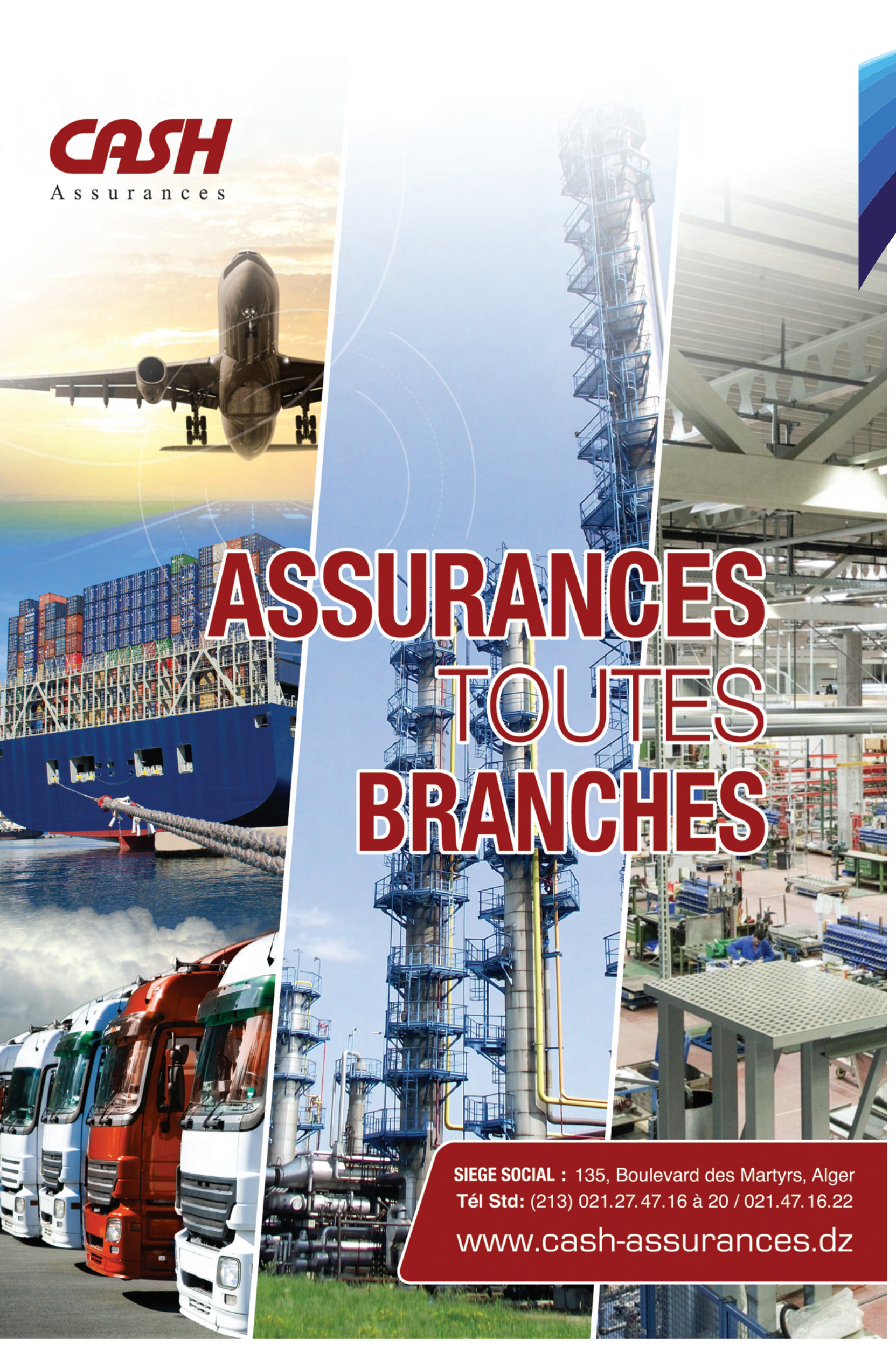
People's Democratic Republic of Algeria
Ministry of Energy

Review

of Achievements of the
Energy and **Mining** sector

Year **2013**





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Preface

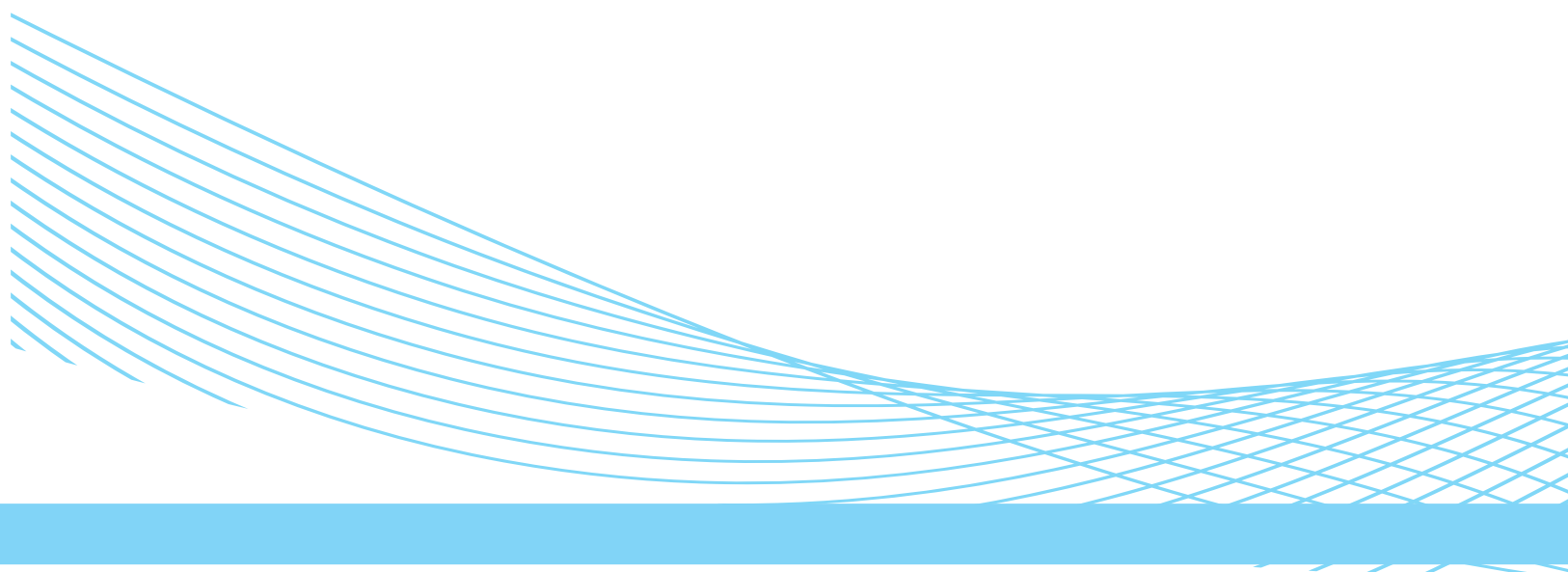
During 2013 this sector continued to develop its activities in the three branches. It has pushed toward the amendment of the two main laws of hydrocarbons and mines with view to introducing particular provisions on the exploration and production of non-conventional hydrocarbons and reinvigorating the mining research activity.

As for the physical accomplishments, exploration efforts in the Oil industry have increased with growth in drilling leading to the discovery of 32 field. However, the production of hydrocarbons has decreased compared to 2012 achievements.

In terms of hydrocarbons upgrading, it should be pointed out the rehabilitation works of the refining system were carried out, and also the reception, in 2013, of two (02) new petrochemical plants (Sorfert and AOA) and a LNG train in Skikda as well as well as the several transportation facilities.

Concerning activity, the volume of exports decreased by 7% compared to 2012 achievements, leading the overall value to US \$ 63.5 billion.

Domestic consumption of oil products continued to increase, driven by diesel and gasoline growing demand. This demand was partly met by the import of 5.0 million tons of refined products.



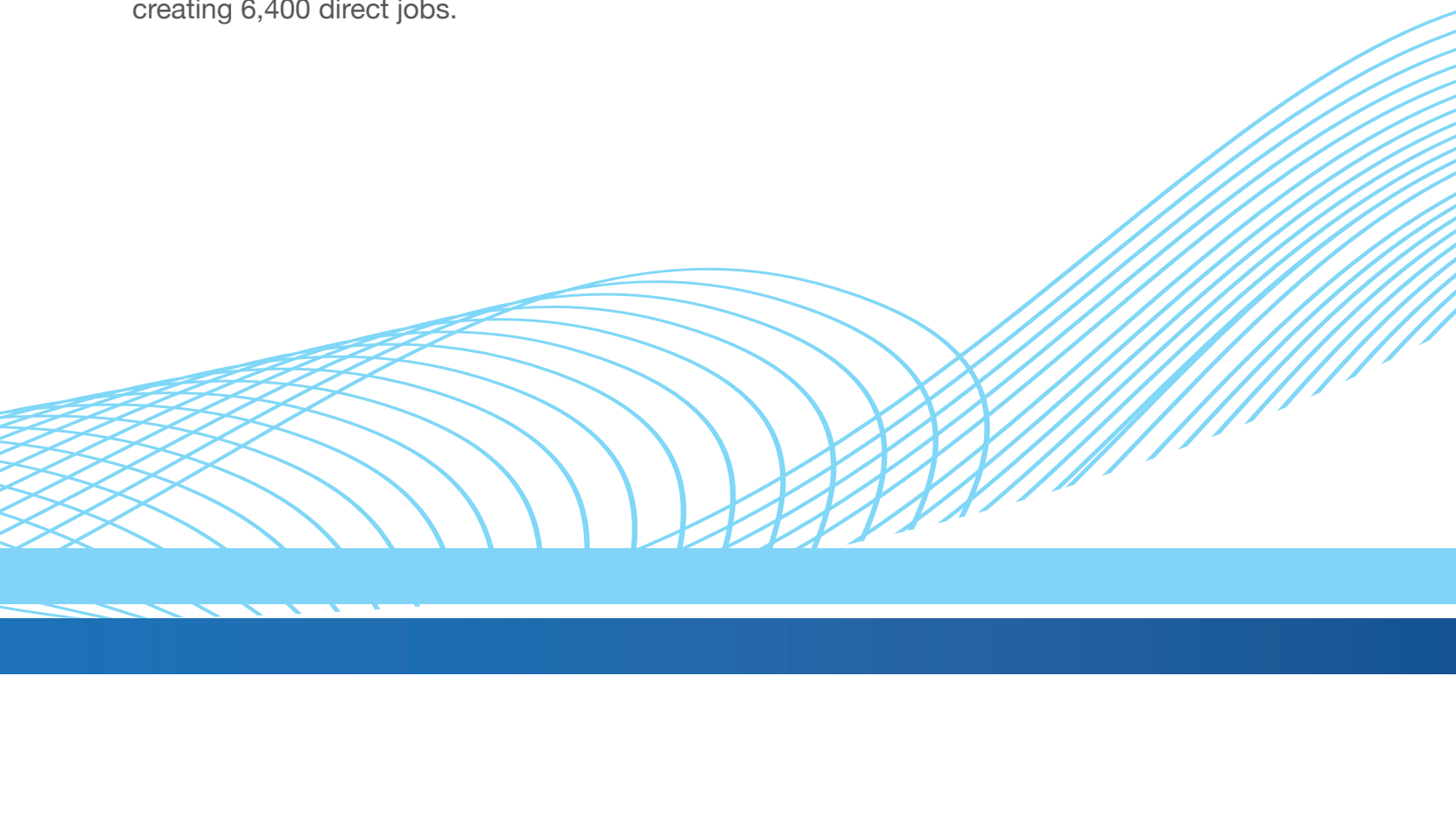


The energy branch was marked by a strong growth in electricity demand, which was mainly driven by domestic consumption. Measures have been taken by the sector, particularly the increase of production capacity and the enhancement of the transportation and distribution system of electricity and gas. The year of 2013 witnessed the reception of several power plants with the carrying out of renewable energy development such as Adrar's wind-farm and Ghardaia's photovoltaic power plant.

In terms of electrification and gas connection, the sector recorded substantial levels of electrification with almost a total electrification of the country and the gas connection of nearly 52% of the households.

In the mining branch, the sector has attributed 394 mining titles, generating 5.5 billion dinars of revenues for the public treasury. In terms of physical achievement, 2013 saw a decline in iron, phosphate, precious metals and aggregates production contrasted by an increase in production of feldspar, pozzolan and limestone.

Finally, the working staff of the energy and mining sector grew by 2% to 274 000, creating 6,400 direct jobs.





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Missions ►►►

Entreprise pionnière dans la construction et la pose de canalisations de transport d'hydrocarbures liquides et gazeux, l'ENAC dispose d'un capital expérience riche de plusieurs années dans les travaux de pose de pipe-lines. Elle assure les missions suivantes :

- » La réalisation en EPC des ouvrages destinés aux transports des hydrocarbures liquides et gazeux,
- » La réalisation des installations de surfaces et des collecteurs des puits producteurs d'hydrocarbures,
- » La réfection et la réhabilitation des canalisations et des collecteurs en service, tous diamètres confondus
- » Le suivi et la supervision des travaux,
- » Le contrôle Qualité des :
 - Tubes, vannes, raccorderie, etc.
 - Appareils Gaz et vapeur (APG, APV)
- » Le Contrôle non destructif (CND) des soudures.



» **Hydrocarbon branch**

- I - Upstream Activity**
- II - Downstream Activity**
- III- Hydrocarbon Exchange**
- IV- Refined products distribution**
- V - Economic Indicators**



Introduction

The oil industry was marked in 2013 by a growth in the geophysics activity , with a sharp rise of the 3D seismic surveys.

Thus, this growth has resulted in the drilling of 93 exploration wells (achieved wells) with the completion of thirty-two (32) discoveries.

The marketing production of hydrocarbons has reached 149 Mtoe in 2013 against 156 Mtoe in 2012, with a 4% of decrease.

In the downstream activity, the sector has carried out the rehabilitation process of the refining system. The year 2013 witnessed the completion of the rehabilitation process of the refinery of Arzew and Skikda while the rehabiltion of Algiers' rafinery is underway .

Gas liquefaction was marked by the start-up of Skikda LNG train and the quasi-finalization (99%) of that of Arzew. The reception of these two units will inhance the LNG export capacity to more than 35 billion m3 per year.

In marketing, volumes of oil exports fell by 7.2%, due to the reduction of the demand of Sonatrach's natural gas customers, particularly those in Europe.

In figures, exports reached US \$ 63.5 billion, with a decline of 10% compared to the previous year, because of the slight declines in oil price levelling \$ 109 / bbl.

As for domestic consumption of oil products it increased by almost 5% in 2013, reaching 17.5 million tons, driven by a strong growth in gasoline and diesel demand.

The marketing of natural gas in the domestic market has slightly increased (+ 1.9%) attaining 33.3 billion m3 boosted, in particular, by the increase in the an-use of the LNG plant(+ 2.2%) and the households consumption (+ 11%).

Finally, an overall investment of nearly US \$ 11.0 billion was allocated, during this fiscal year, for the development of the various activities of the oil industry.



I- Upstream Activity

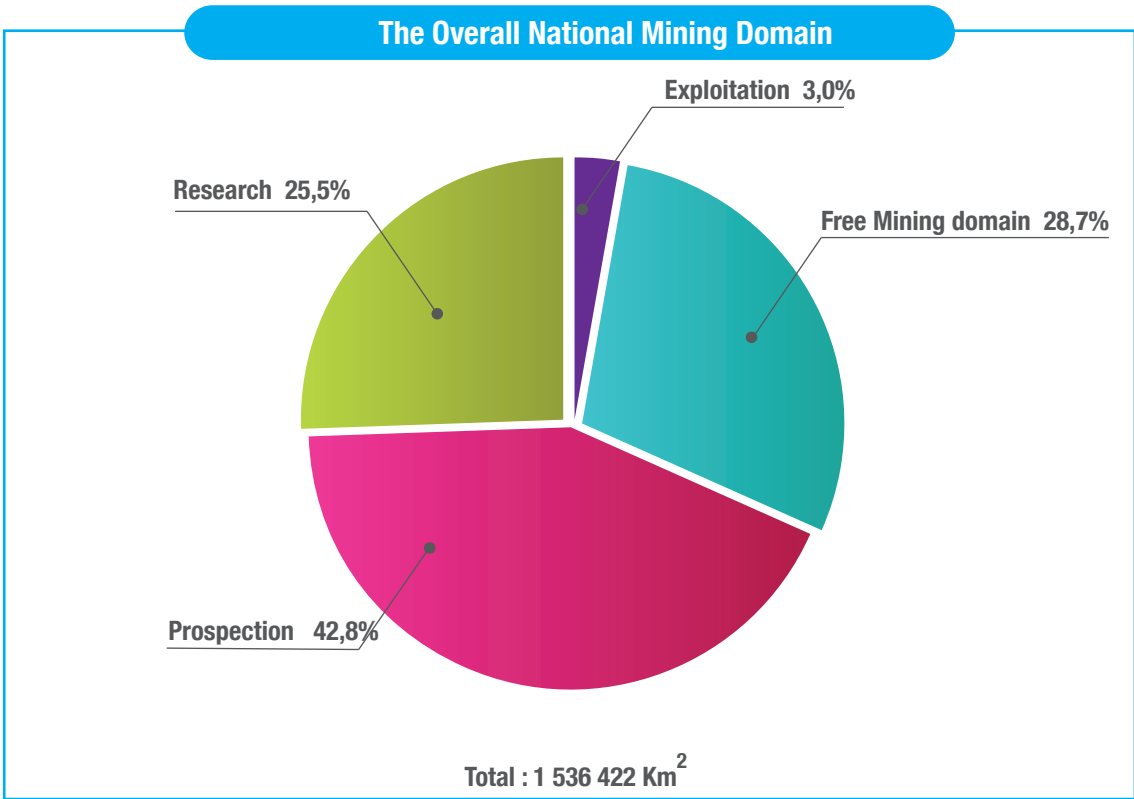
1- Exploration Activity :

1.1- State situation of the mining domain of hydrocarbons :

The surface area of the national mining domain of hydrocarbon at the end of 2013 was 1,096,066 km², 71% of the overall mining domain, as detailed in the table below :

The situation of the hydrocarbons and mining domain in 2012

Sonatrach and Associates	The occupeid Mining Domain (71.3%)	Free Mining Domain (28.7%)	The Overall National Mining Domain
	1 096 066 Km ² , including :	440 376 km ²	1 536 442 km ²
Prospection	657 668		
Research	392 398		
Exploitation	46 000		



The occupied surface area, in 2013, increased by nearly 23% to 1,096,066 km²; highlighting the intensive effort exherthed by the sector in terms of prospection and research.

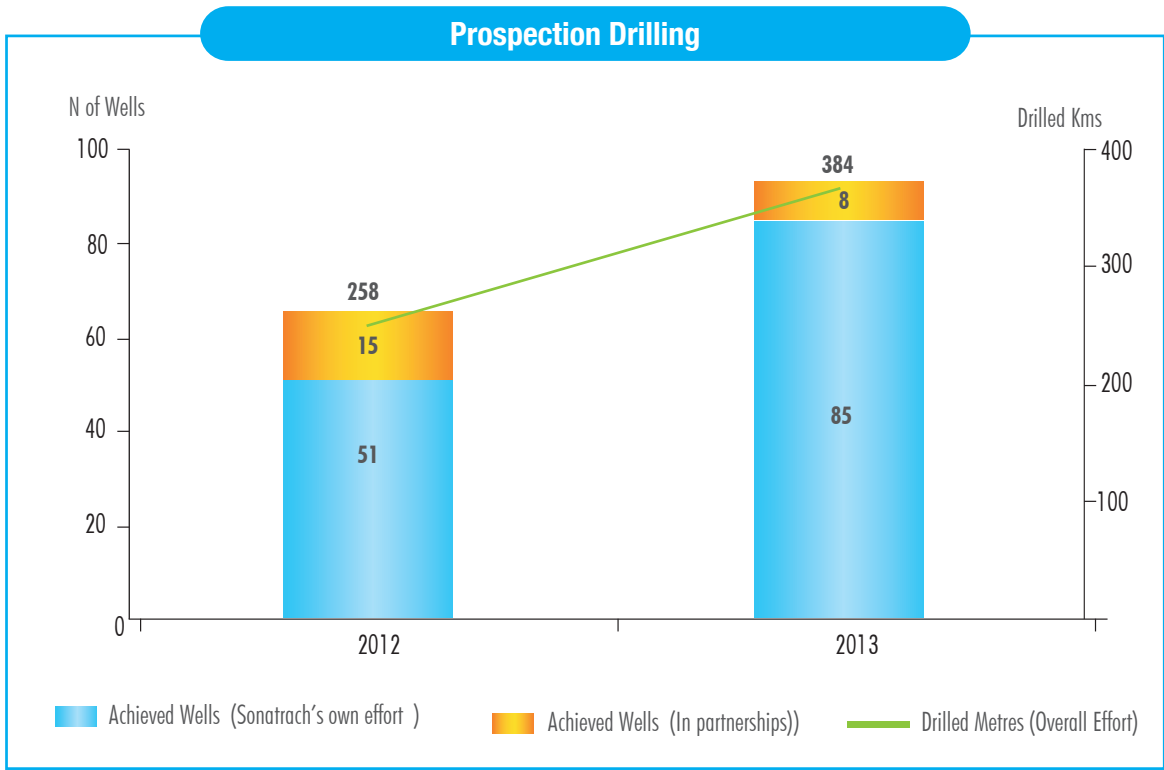


1.3- Exploration drilling activity :

During 2013, the exploration drilling activity has known a sharp growth (+49%), reaching 384 330 drilled metres against 258 146 metres in 2012.

Similarly, the number of finished wells has increased by 41% moving from 66 wells in 2012 to 93 wells in 2013 from wich 91% in own effort

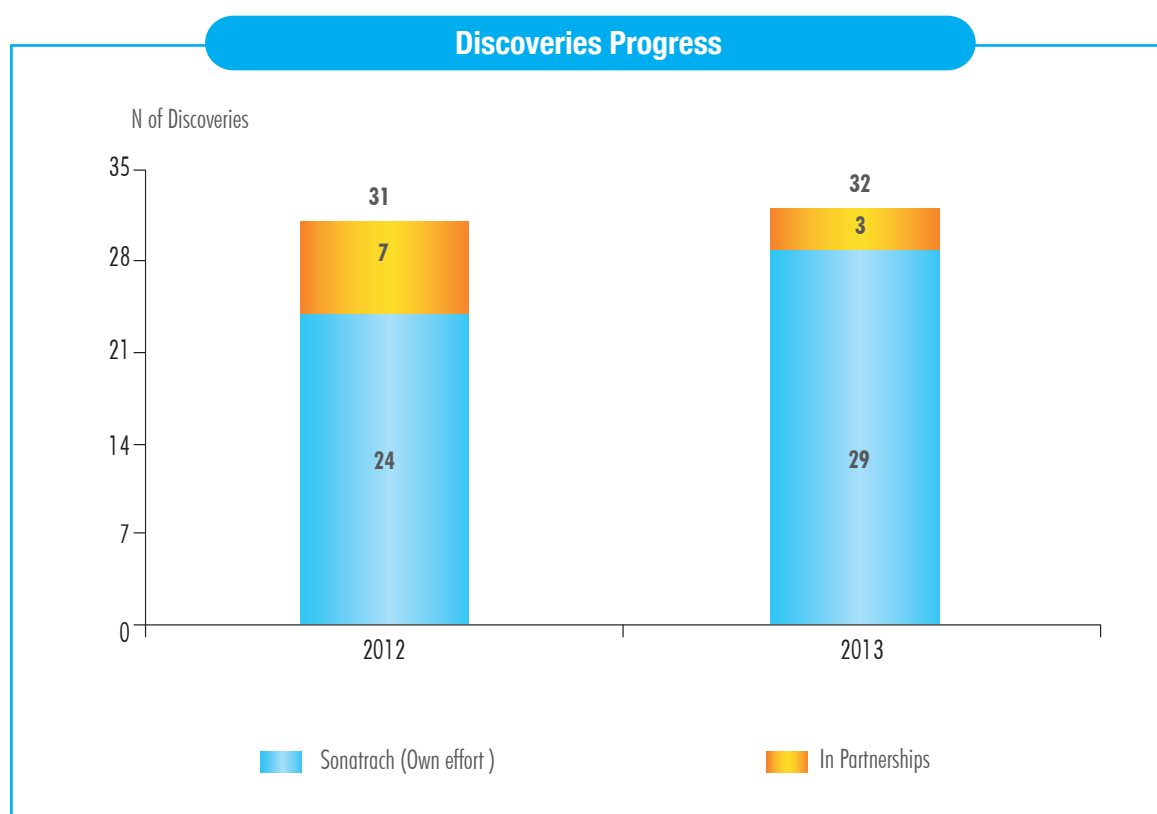
Year 2013	Achieved Wells	Drilled Metres
SONATRACH own effort	85	365 424
With Partnerships	8	18 906
Overall Effort	93	384 330



The overall effort of exploration activity has been driven by Sonatrach’s own effort, which offset the decline in the partnership effort.

a- Discoveries :

Sonatrach and its partener’s made 32 hydrocarbon discoveries in 2013, of which 29 done by Sonatrach’s alone. Of the 32 discoveries, twelve (12) were oil discoveries, five (5) gas, eleven (11) gas condensate and four (4) other oil and gas condensate discoveries.

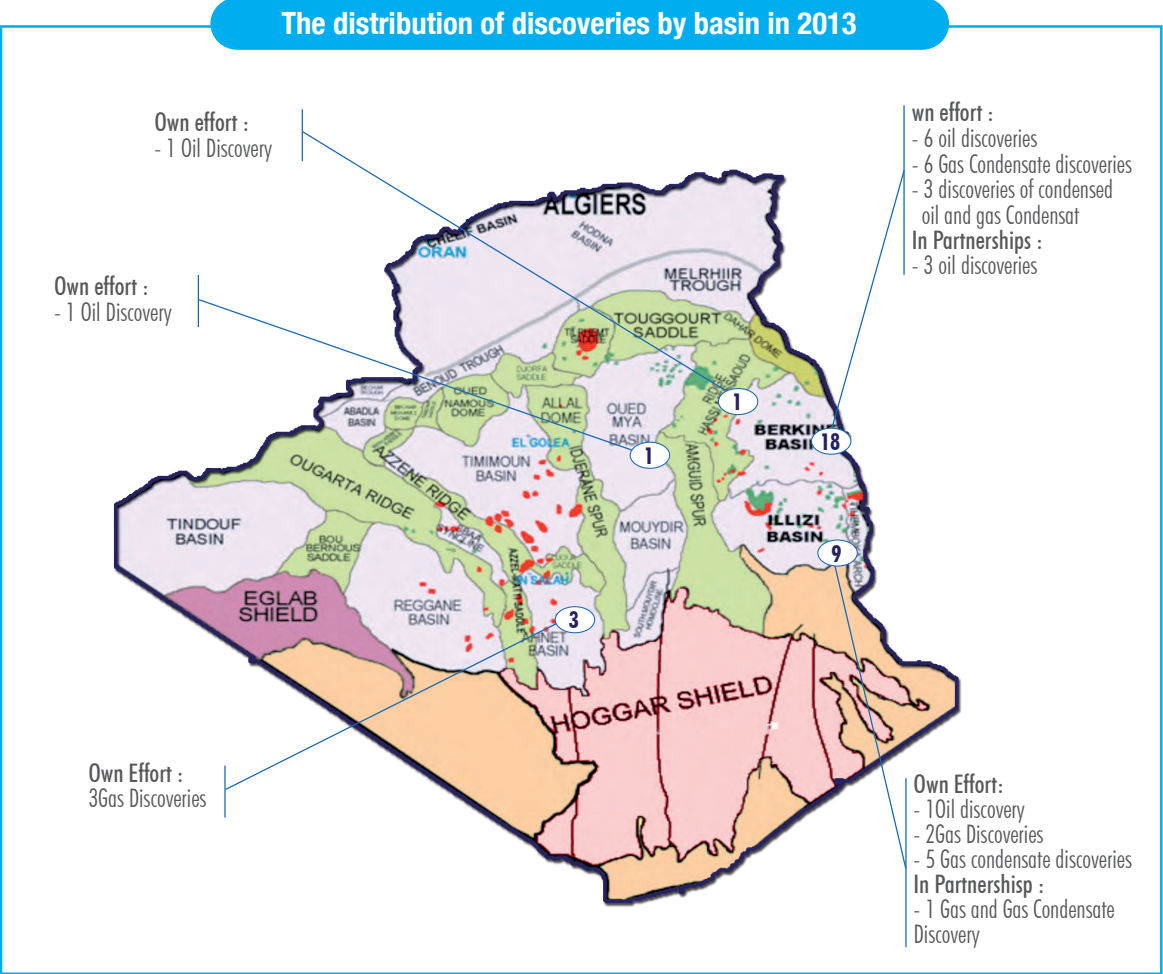


Discoveries by Basins :

The breakdown of discoveries, by basin, shows that 56% of these discoveries are concentrated in the Berkiné basin.

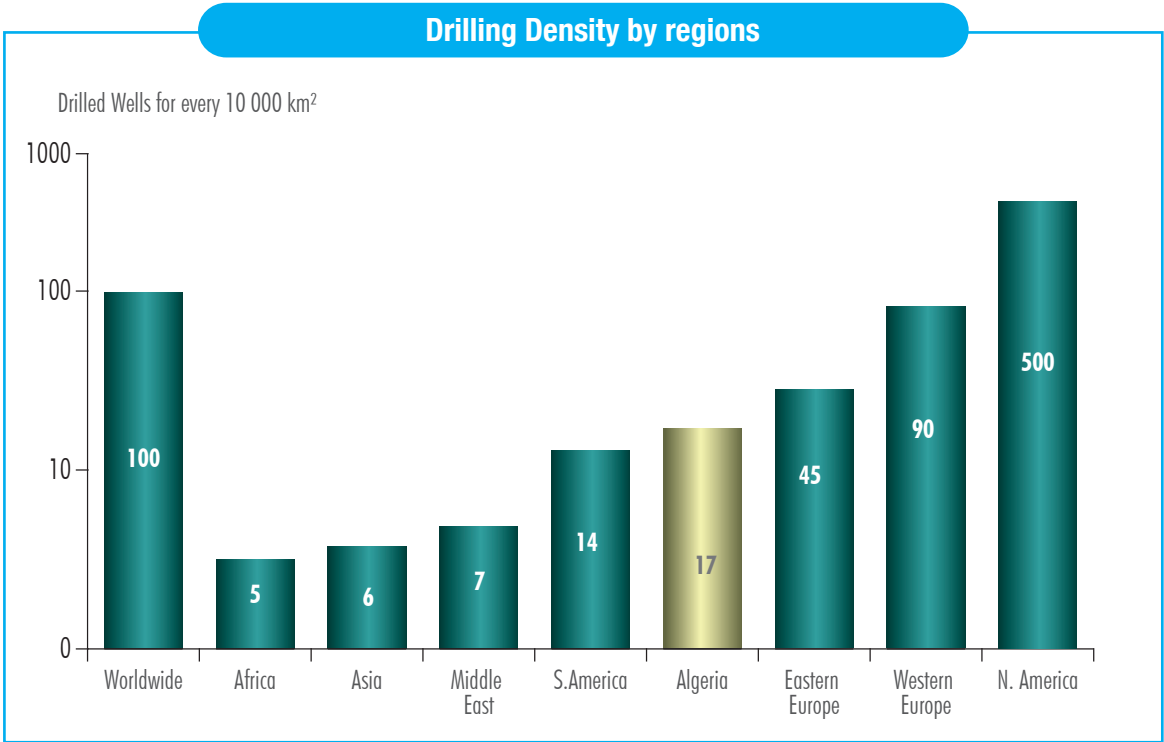
The table and map below, details and distribution of discoveries in 2013 :

Basins	Berkine	Illizi	Oued Mya	Ahnet	Hassi Messaoud	Global
SONATRACH	15	9	1	3	1	29
Partnerships	3	-	-	-	-	3
Total	18	9	1	3	1	32



b- Drilling density :

The average of drilling in Algeria is around 17 wells by 10 000 km , while the world average is around 100 wells by 10 000 km .





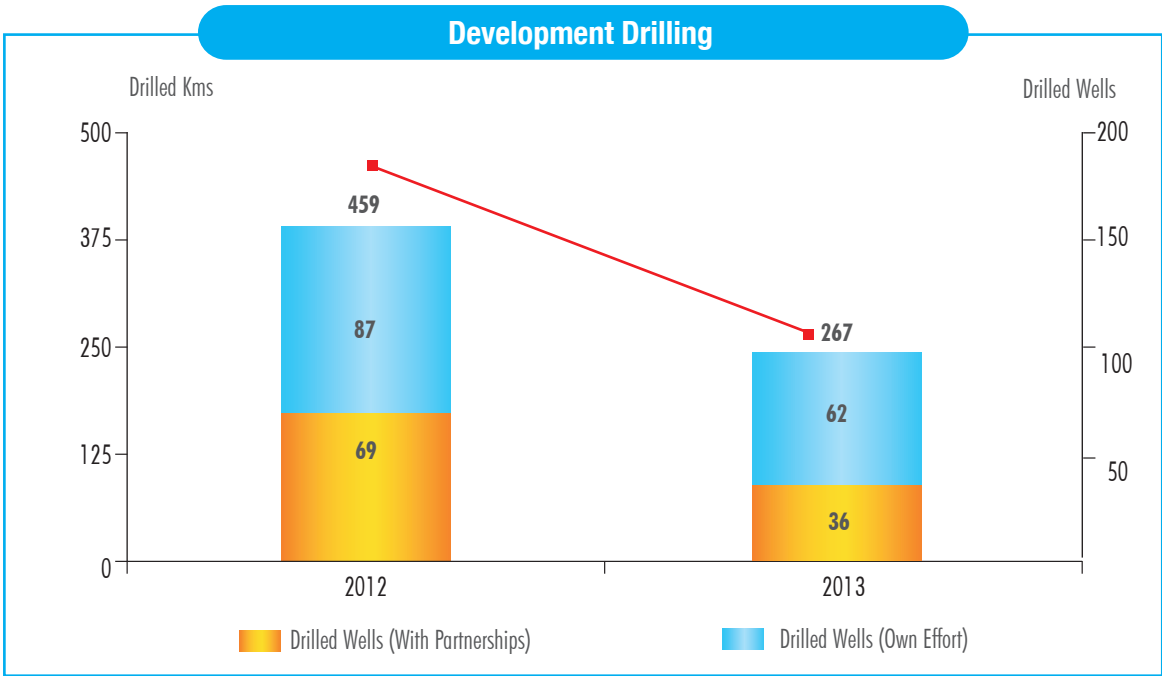
2- Development drilling :

The overall effort in terms of the development of oil fields allowed the completion of 98 wells, compared to 2012 records; with a decrease of 37%.

Development Drilling

	Achieved Wells	Drilled Metres
SONATRACH	62	177 293
Partners	36	90 170
Overall Effort	98	267 463

In terms of drilled meters a decrease of 42% was observed ebbing from 459 422 meters in 2012 to 267 463 meters in 2013.



3- Primary production :

The primary marketing hydrocarbon production reached 149 million TOE in 2013, against 156 million TOE in 2012, reflecting a decline of 4.3%, as detailed below :

Production commerciale d'hydrocarbures par produits

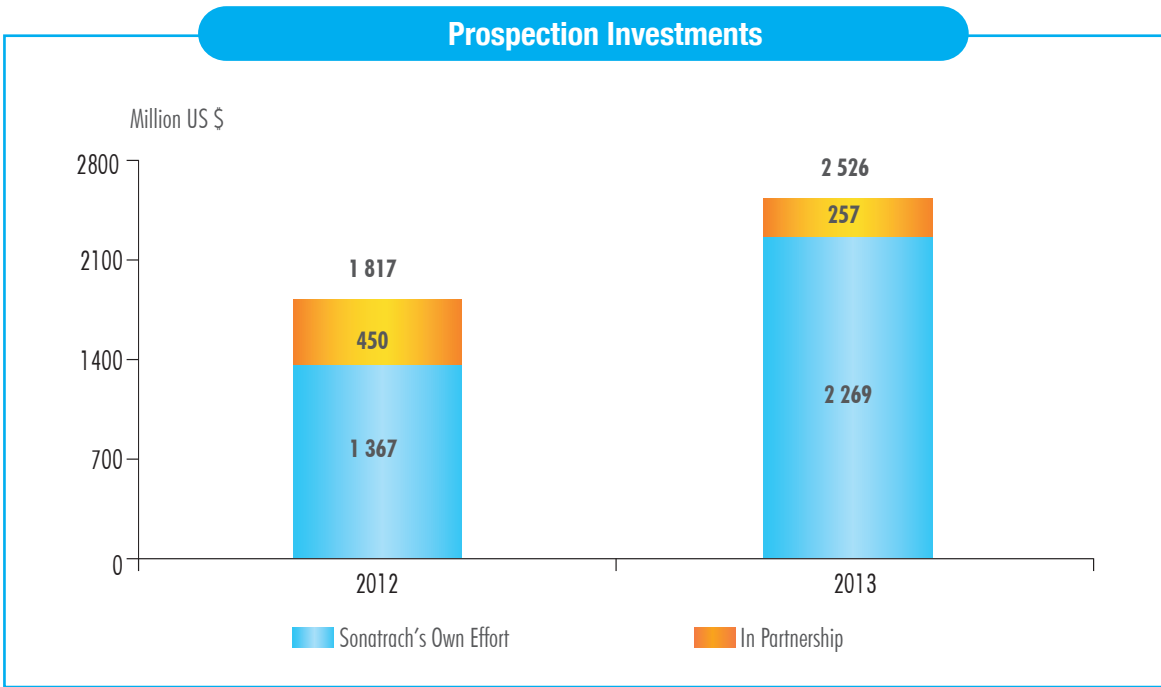
	Units	2012	2013	Evolution	
				Quantity	(%)
Crude Oil	Millions of tonnes	51,1	49,6	-1,5	-2,9
Natural Gas	Biliards of m³	86,1	81,5	-4,6	-5,3
Condensate	Millions of tonnes	9,3	8,6	-0,7	-7,7
LPG in Fields	Millions of tonnes	6,6	6,6	-	-
Total	Millions of TOE	155,5	148,7	-6,7	-4,3



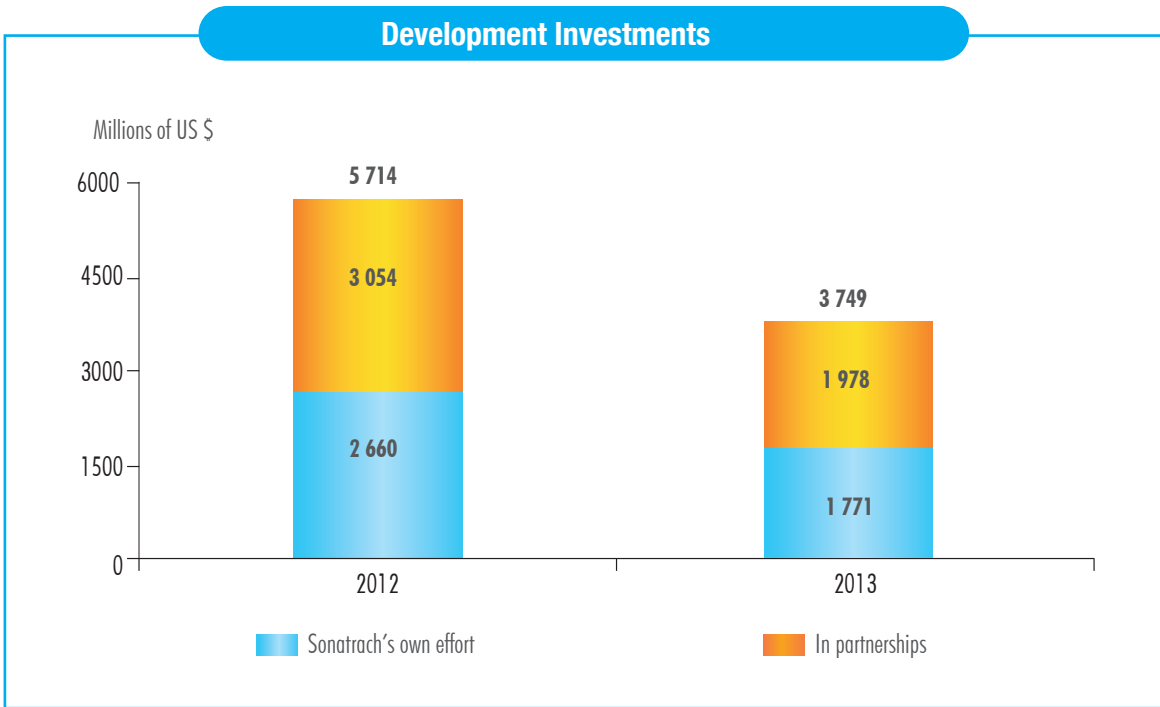
4- Upstream Investments :

During the year 2013, an amount of US \$ 6.3 billion was invested in the upstream activity (prospection / hydrocarbon production), ie ; a 17% decrease compared to 2012.

Investment in prospection during the financial year 2013 saw a sharp increase (+ 39%) to US \$ 2.5 billion, boosted by the significant contribution of Sonatrach’s own effort.



In the «Fields Development and exploitation» segment, an investment of US \$ 3.7 billion was mobilized in 2013 by Sonatrach and its partners, against US \$ 5.7 billion in 2012, a 34% decrease.





4.1- - Upstream activity development projects :

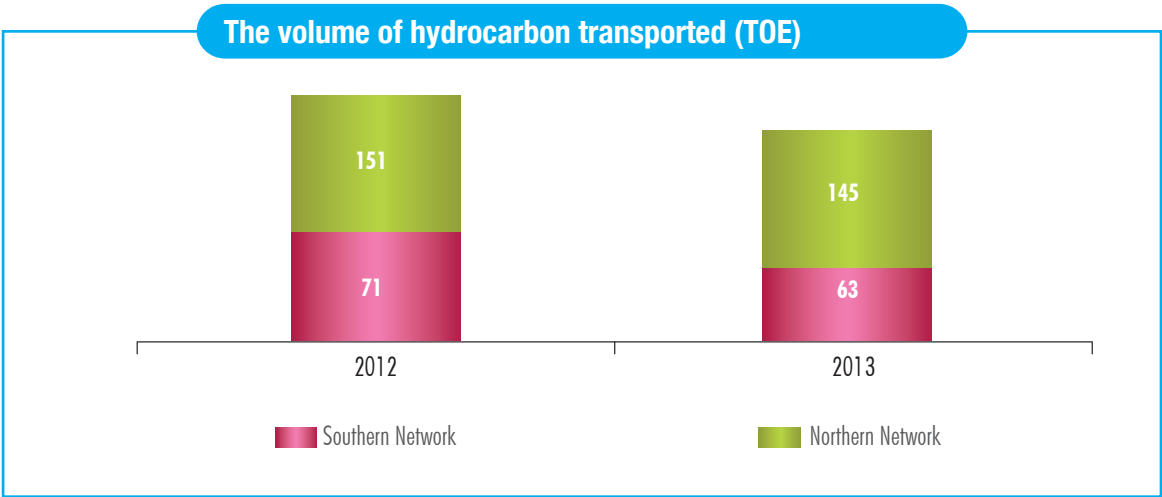
Major and ongoing projects *

Project	Progress (%)	Overall Cost (Millions US\$)	Set Date for entry into service or Realization
Gas Fields Development MLE (SH/FCP-Eni)	100	2 326	January 2013
Trains Rehabilitation LPG100 & 300 Rhourde Nouss	100	21	August 2013
LPG ZKINA & LDHP Hassi Messaoud	100	1 737	September 2013
Gas field development Gassi Touil	100	1 451	December 2013
Heavy OilDeposits Development El Merk (SH/Anadarko)	100	3 876	Provisional Reception 1st quarter 2014
Gas Deposit Development Rhourde Nouss (Quartzite Hamra)	96	1 059	1st quarter 2014
Recovery of associated gases Haoud Berkaoui	93	231	1st quarter 2014
Heavy Oil Deposit Development Bir Sbaa (SH/PVEP/PTTEP)	70	545	1st quarter 2014
Heavy Oil Deposit Development Bir M'Sana (SH/Hess/ Petronas)	68	220	January 2015
Gas Compression In Amenas (SH/BP/Statoil)	78	257	Janvier 2015
Gas Deposit Development South In Salah MLE (SH/BP/Statoil)	71	1 692	Fabruary 2015

*-Until end of 2013

5- Pipeline Transportation: :

The volumes of hydrocarbon transported in 2013 on the northern network, declined by 4.0% compared to 2012 achievements, as shown below :





5.1- Development projects in pipeline transportation activity :

In 2013, Sonatrach has carried out its expansion program of the transportation pipeline network. The main projects in this program are given in the following table :

Achieved and ongoing major projects *

Project	Capacity	Progress (%)	Overall Cost (Millions US\$)	Set Date for entry into service or Realization
Six (06) storage tanks Haoud El- Hamra	307 200 m ³	100	54	November 2013
Gaz pipeline GR4 48' :			830 :	December
R.Nouss – HRM	9,4 Billions m ³ /year	90	658	2013
Hassi R'mel Facility			172	2017
Expansion Oil pipeline LPG :			334 :	Receval of the the sec-
LR1 Phase II				tion of priority in Au-
HMD - HRM	4,5 millions of tons/year	95	232	gust 2013 & the entry
- Haoud El Hamra Facility		14	102	into service of 90% the
				length of the project at
				the end of 2013
				2015
GZ3-42" Replacement (Nador-kenanda)	-	78	125	2014
Adding a 3rd TC to the Booster Compression Station (GR1/GR2)	-	61	40	2014
Rehabilitation PC5/GZ4	-	19	8	2015
Gas pipeline GR5- 48" Reggane – Hassi R'mel			1 379 :	
- Reggane-Krechba & Krechba- Hassi R'Mel	8.6 Billion M ³ /yea	27	1 143	2015
- Hassi R'Mel Facility			236	2016

**-At the end of 2013*

6- Sonatrach's development abroad :

Sonatrach's 2013 record of international activities revealed the following

Mauritania :

- The signing, in June, of amendment N°. 1 of the production sharing of the perimeter referred to as Ta1; ;
- The signing, in July, of a contract for the 2D seismic survey acquisition with SINOPEC with an amount of US \$ 14 million;
- The beginning, in December, of the 2D seismic works ;
- A US \$ 1.9 million expenditure during the fiscal year as well as US \$ 7.8 million of cumulative achievements at the end of 2013;

Tunisia : The three areas allocated to SYPEX NUMHYD are in the exploration stage, as detailed below :

- **Kaboudia License :**
- A one-year second extension granted and notified by the Ministry of hydrocarbons ;
- A US \$ 1.3 million expenditure during the fiscal year as well as US \$ 21.2 million of cumulative achievements at the end of 2013;
- **Hamra license :**
- Entry into force of the third and final phase of the perimeter over a period of two years;
- The completion of a2D seismic of 380 km;
- US \$ 2.8 million expenditure during the fiscal year as well as US \$ 18.4 million of cumulative achievements at the end of 2013;
- **Northern chotts license :**
- An agreement reached concerning the first renewal of the license in March 2015;
- US \$ 0.02 million of expenditure during the fiscal year as well as US \$ 1.7 million of cumulative achievements at the end of 2013;

Libya :

- **Block 065 :**
- A second one-year extension granted by the Libyan company NOC for the finalization of the development report;
- The completion by BEICIP of a study on the discovery development plan
- US \$ 2.4 million of expenditure during the fiscal year as well as a US \$ 108.9 million of cumulative achievements at the end of 2013
- **Block 95/96 :**
- A second one-year extension was granted by the Libyan company NOC for the drilling Of five exploration wells ;
- The drilling of four exploration wells. Three (03) wells have been discovered;
- US \$ 34.6 million of expenditure during the fiscal year as well as a US \$ 55.9 million cumulative achievements at the end of 2013;

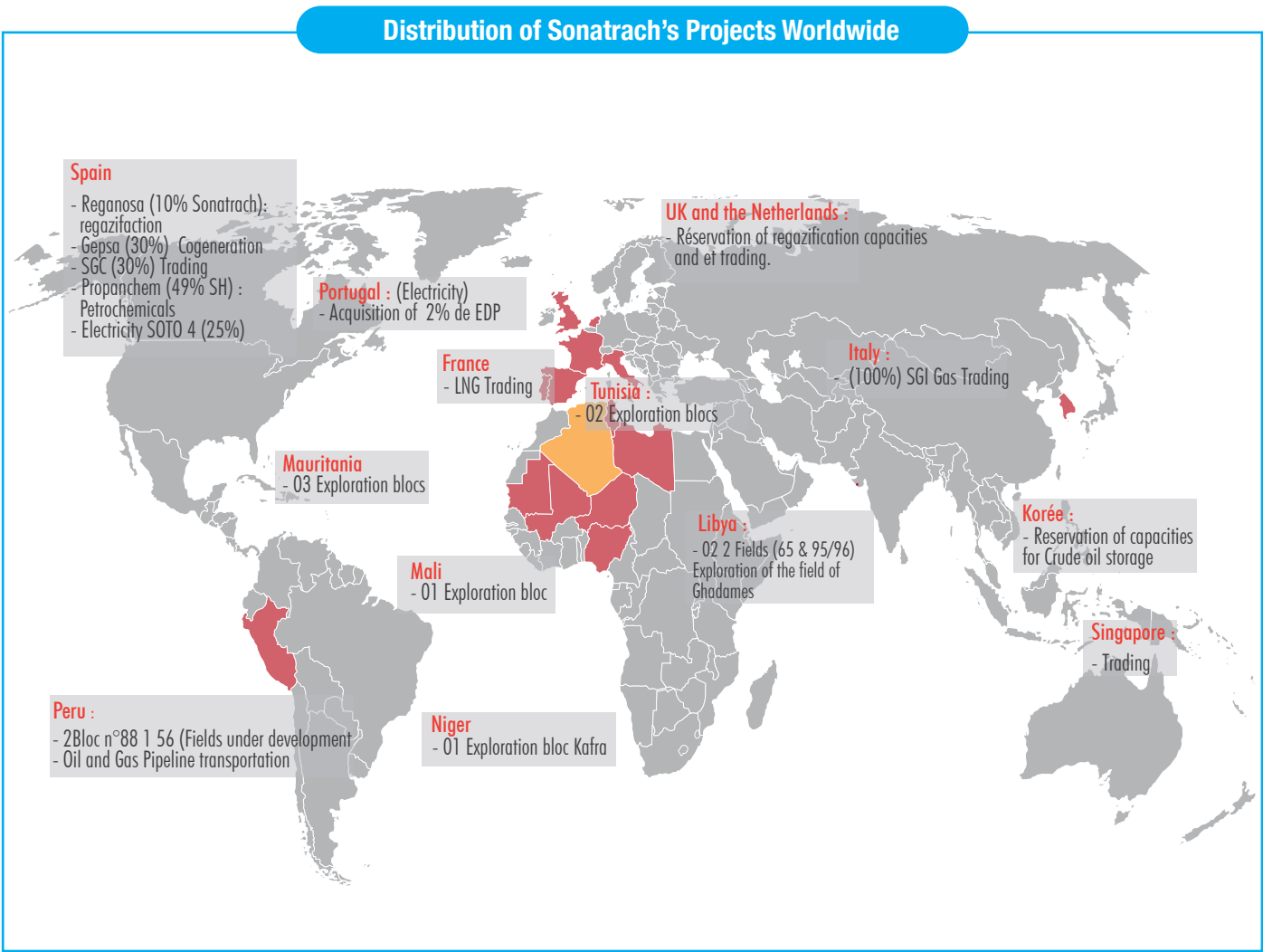
Mali :

- **Block 20:**
- The suspension of operations in March 2012 due to the events that arouse in that country ;
- US \$ 0.06 million of expenditure during the fiscal year as well as a US \$ 38.3 million of cumulative achievements at the end of 2013.



- Niger :**
- The finalization of specifications for Kafra drilling operations ;
 - US \$ 0.8 million of expenditure during the fiscal year as well as US \$ 22.5 million of cumulative achievements at the end of 2013.

The distribution of Sonatrach’s projects internationally is shown in the map below :



Agence Nationale pour la Valorisation des Ressources en Hydrocarbures



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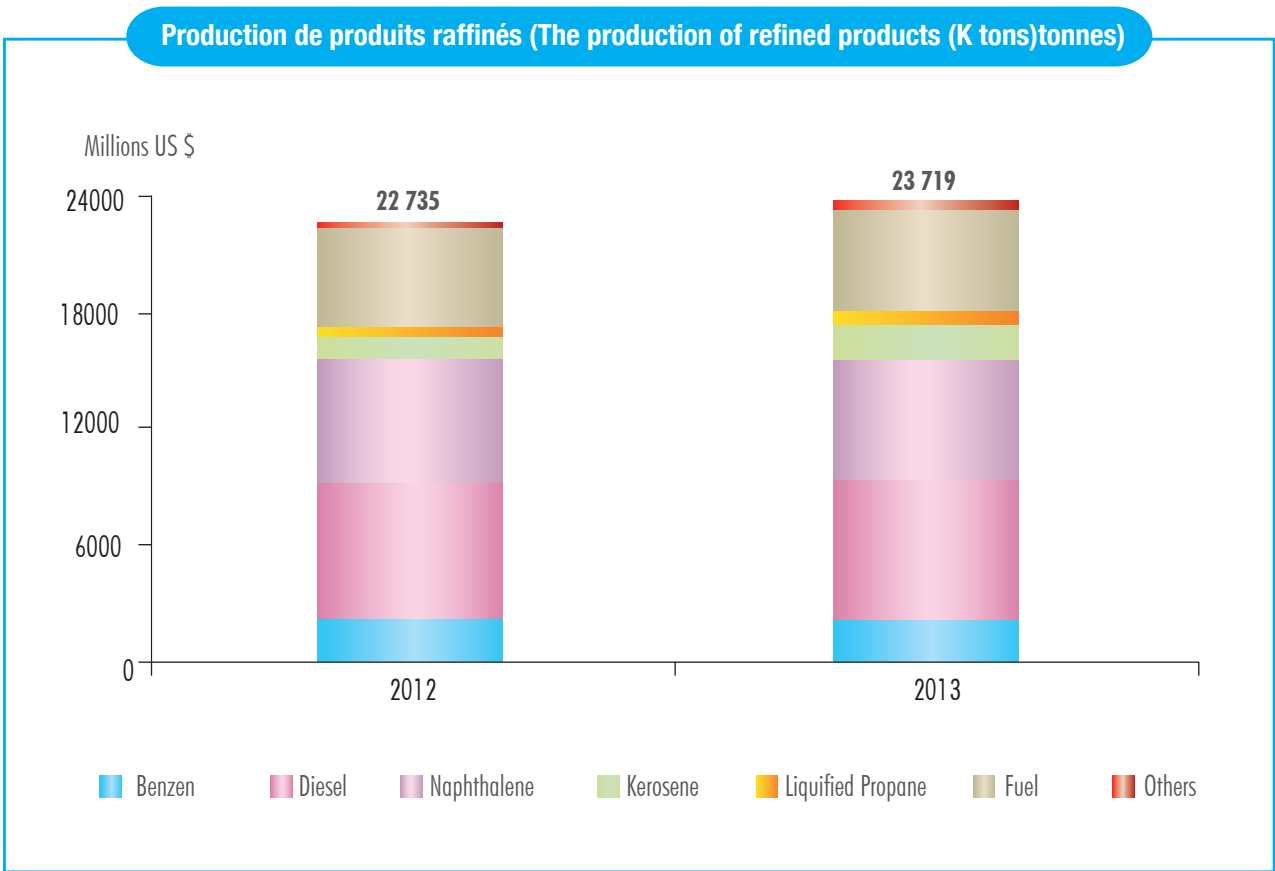
II- Downstream Activity

1- Refining :

The quantity of crude oil and condensate processed during 2013, have reached 24.3 million tons, with a 2.6% increase compar'd to 2012 record, thanks to the boost in capacity production of both Skikda and Arzew unit .

The processing of imported crude oil in 2013 has reached 172 thousand tons, recording a 40% decline compared to the previous year.

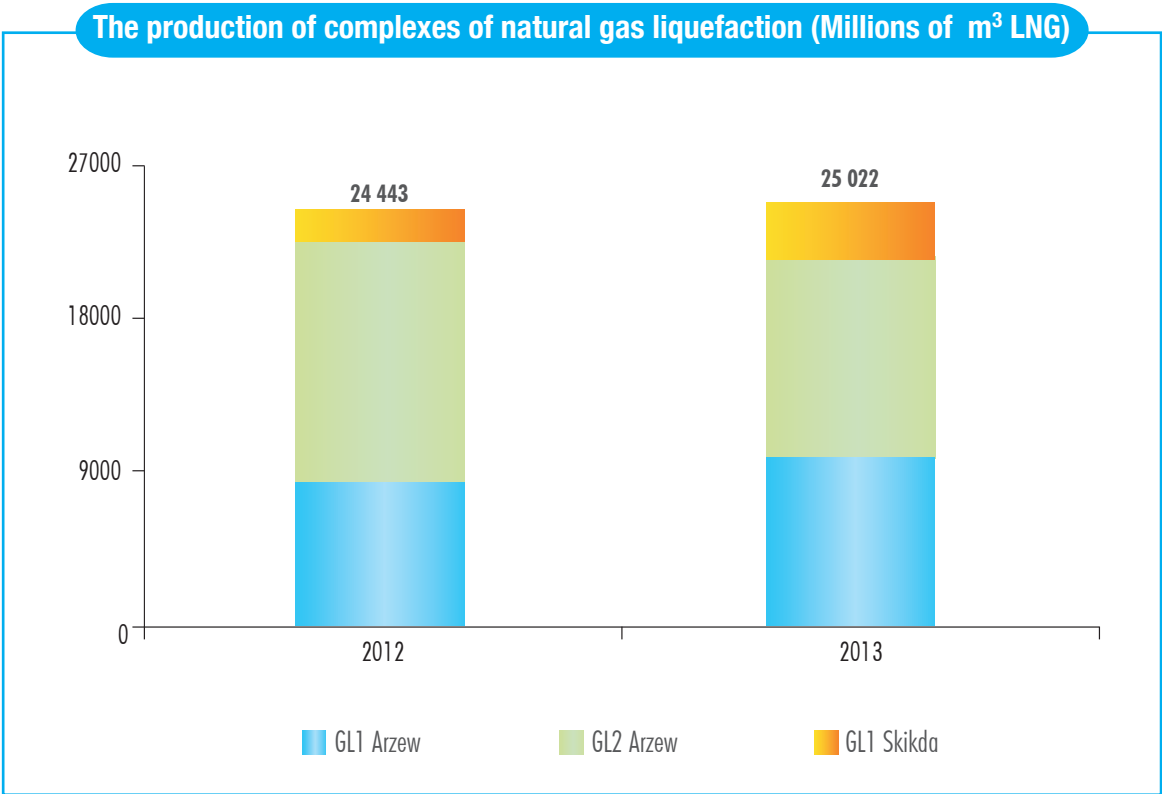
The production of refined products has reached 23.7 million tons in 2013, with a 4.3% increase compared to 2012 achievements.



2- LNG Production :

The production of complexes of natural gas liquefaction has reached 25.0 million m³ of LNG during 2013, ie; a +2.4% increase compared to 2012.

¹ - Reduced crude oil imported to meet the needs of bitumen production.



3- Production of LPG :

The quantities of Liquefied Petroleum Gas treated in separation units during 2013 have witnessed a 4.5% decreased bing to 6.3 million tons.

Similarly, LPG quantities produced by the liquefaction untis have ebbed by23,5% and leveled up at 0.3 million tons in 2013 against 0.4 million tons during the previous year.

LPG quantities produced by the refining process have however been positively increased (+27%) to reach 0.6 million tons in 2013.

Overall , LPG national production (including the volumes produced in refining) have reached 7.2 million tons in 2013 against 7.4 million tons in 2012; a decline of about 3% , as detailed below:

National Production of LPG (millions of tons)

	2012	2013	Evolution	
			Quantity	(%)
Refining	0,5	0,6	+0,13	+27,0
Separation Unit	6,6	6,3	-0,30	-4,5
LNG Complexes	0,4	0,3	-0,08	-23,5
Overall LPG	7,4	7,2	-0,26	-2,7



4- Petrochemicals :

Petrochemical production has experienced a drop of 16% in 2013, to 1.2 million tons against 1.5 million tons in 2012, which is mainly due to the decrease in the production of ammonia and methanol.

Thousands of tons	2012	2013	Evolution	
			Quantity	(%)
Ammonia	859	621	-238	-28
Methanol	112	78	-34	-30
Helium	85	78	-7	-8
NPK	108	115	+7	+6
Others*	292	326	+34	+12
Total	1 456	1 217	-238	-16

Other *: Nitrates, Nitrogen, HDPE, Caustic Soda, PVC, Hypochlorite, Hcl, UAN + TSP and SSP

5- Ongoing development projects :

The progress of the project of hydrocarbon transformation has recorded significant rates at the end of 2013, as shown below :

Projets réalisés et/ou en cours de réalisation de l'activité aval

Projet	Capacity (Millions of tons/year)	Company	Progress (%)	Set Date for entry into ser- vice or Realization 2013
Ammonia & Urea com- plexe Arzew I «SOR- FERT» in partnership with the Orascom	Ammoniac:1,45 Urée : 1,14	UHDE Germany/ OCIA Algeria	100	2013
Ammonia & Urea com- plexe Arzew II « AOA » in partnership with SBGH	Ammoniac:1,32 Urée : 2,31	MHI(Japan)/ DAEWOO&C (Korea)	100	2013
LNGTrain Skikda	4,5	KBR	100	Fabruary 2014
LNGTrain Arzew	4,7	SNAMPROGETTI/ CHYODA/SAIPEM	99	March 2014
Rehabilitation of the Arzew refinery	Boost the capacity from 2,5 to 3,75	HYUNDAI Eng/ DAEWOO LTD/ HAWHA Eng	100	2014
Rehabilitation of the Skikda	Boost the capacity from 15 to 16,5	SAMSUNG Eng	99	2014
Rehabilitation of Algiers refinery	Boost the capacity from 2,7 to 3,6	TECHNIP	61	2016

المؤسسة الوطنية للأشغال في الآبار



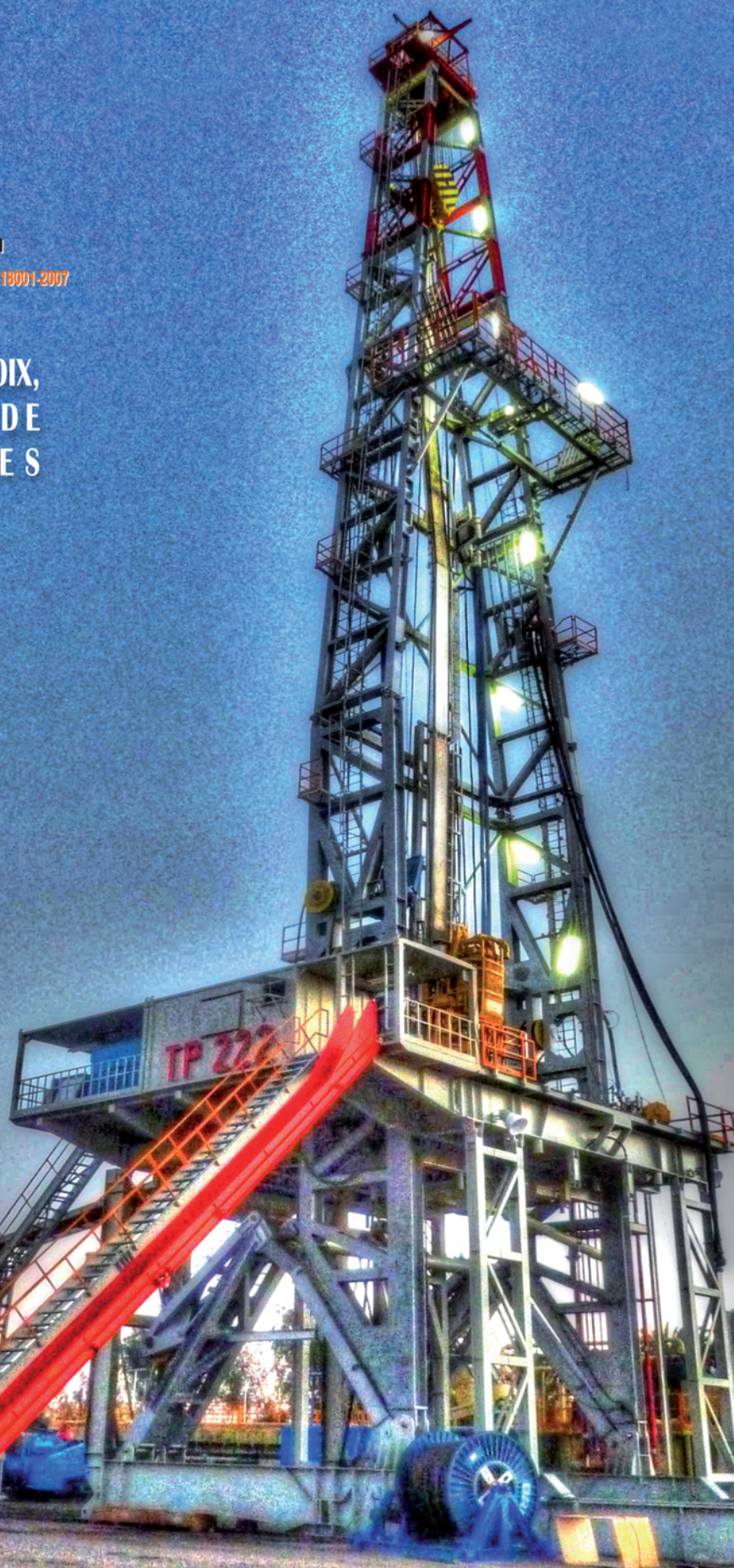
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III- Exchange of hydrocarbons

1- Imports :

Hydrocarbon imports reached more than 5 million tons in 2013, an increase of 8% compared to 2012, driven mainly by higher imports of gasoline (+ 35%), as detailed in the table below :

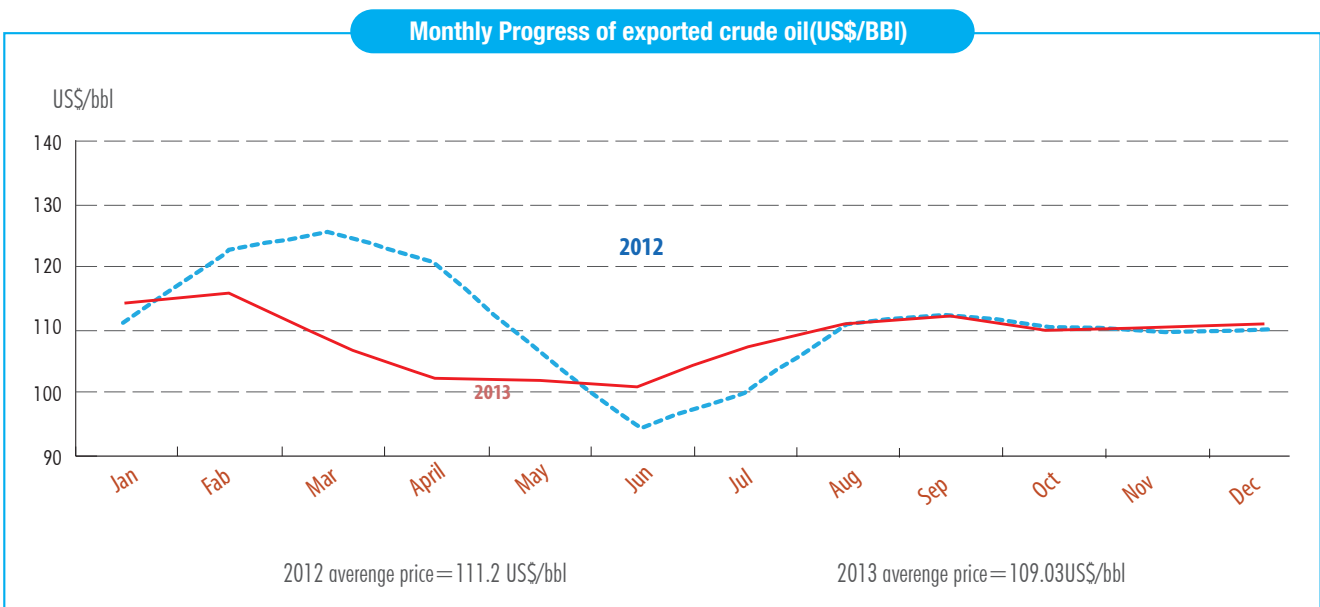
Hydrocarbons' Imports		Quantity		Progress	
		2012	2013	Quantity	(%)
Diesel		2 762	2 728	-34	-1
Gasoline		1 181	1 592	+411	+35
S/T Fuels		3 943	4 320	+377	+9,6
Reduced Crude Oil		295	146	-149	-51
Bunker		201	204	+3	+1
Bitumens		187	281	+94	+50
Others*		19	71	+52	+274
Total	Quantity (10 ³ TM)	4 645	5 022	+377	+8,1
	Values (10 ⁶ \$)	4 363	4 661	+298	+6,8

(*) - *Ethylene, MTBE, AVGAZ

2- Hydrocarbons Exports :

2.1- Petroleum conjuncture :

In 2013, exported oil price has levelled up at 109 \$/bbl, recording a slight decline (-2%) compared to 2012.





The table below shows the evolution of Algerian crude oil pricing (Saharan mix), as well as that of some referential crude oil prices and the mean pricing of OPEC’s basket.

	2012	2013	Progress (%)
Saharan blend (Algeria)	111,2	109,0	-2,0
Brent	111,6	108,6	-2,7
OPEC basket	109,5	105,9	-3,3
WTI	94,1	98,0	+4,1

Source : Organization of petroleum exporting cents Producing Countries (OPEC)

2.2- Exports :

During 2013, the amounts of exported hydrocarbons have recorded a 7.2% decline, ie; 102 millions of TOE.

In value, these exports have reached US\$ 63.5 billion, with a 10% decline as listed below :

Répartition des exportations par produit

		Units	Quantity		Progress	
			2012	2013	Quantity	(%)
Crude Oil		Millions tons	31,9	28,1	-3,8	-11,9
Condensates		Millions tons	5,1	5,4	+0,3	+5,9
Refined Products		Millions tons	12,4	12,8	+0,4	+3,2
LPG		Millions tons	5,5	5,3	-0,2	-3,6
NG		Billions M³	36,8	32,2	-4,6	-12,5
LNG		Billions M³	15,0	15,2	+0,2	+1,3
Total	Quantity	Millions TOE	109,6	101,8	-7,8	-7,1
	Revenu	Millions US \$	70 570	63 536	-7 034	-10,0
	Averenge price	(\$/TOE)	643,9	624,1	-19,8	-3,1



2.3- Balance of trade :

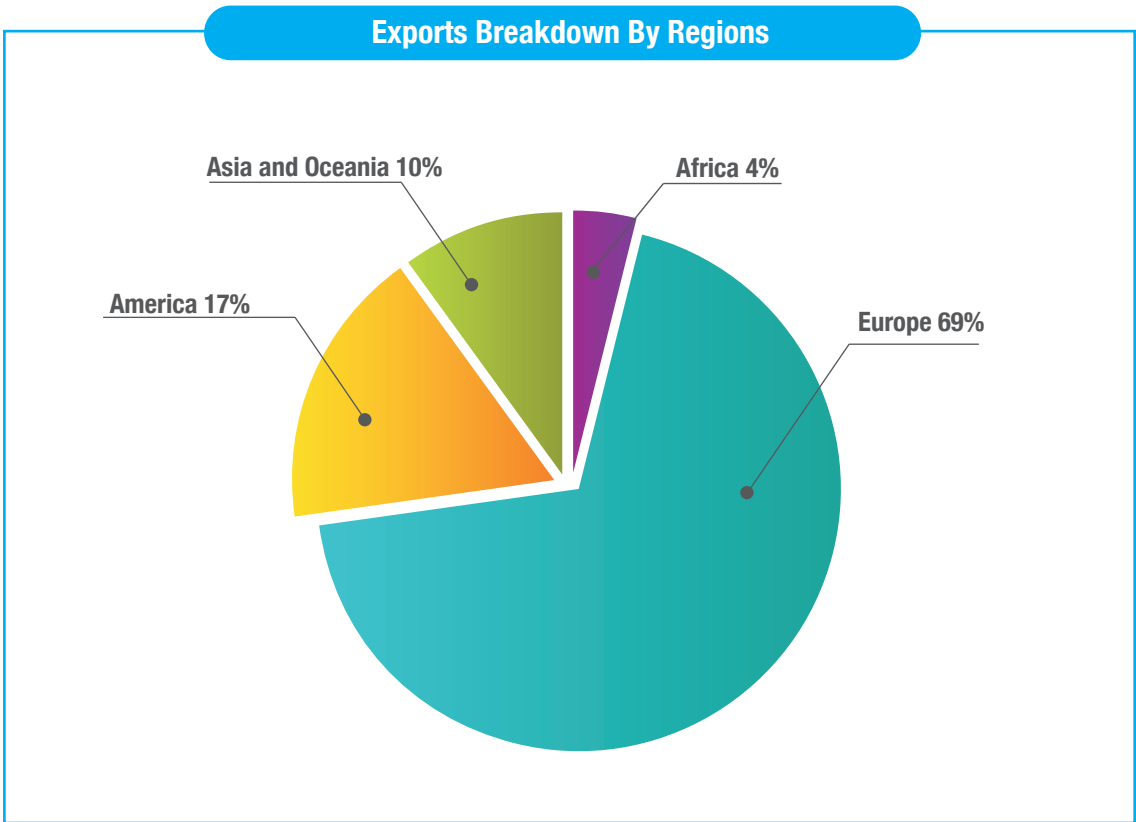
Hydrocarbon’s trade balace in 2013 showed an exporting overall balance of +96.3 Mtoe, which represents a decline from 2012 achievements, because of the increase in imports and the drop in exports, as indicated below.

M tep	2012	2013	Progress	
			Quantity	(%)
Exports	109,6	101,8	- 7,8	-7,1
Imports	5,1	5,5	+0,4	+8,1
Net Exports	104,5	96,3	-8,2	-7,8

2.4- Geographical breakdown of exports :

Europe is the main customer of Algeria (69%), followed by America (17%) and Asia & Oceania (10%). Exports to Africa account for only (4%) and target mainly Tunisia, Morocco and Egypt.

The graph below details the exports by region:





IV- Distribution of petroleum products

1- National Consumption :

Domestic consumption of refined products has reached 17.5 million tons in 2013, against 16.7 million tons in 2012, reflecting a growth of 4.6%.

This increase was driven by consumption of the following products :

- Gasoline: 11.9% ;
- Diesel: + 3.5%;
- Bitumen: + 9.8%.

On the other hand, the consumption of LPG has dropped from 3.1% to 2.0 million tons

National Production of Oil products

Units : 1000 MT	2012	2013	Progress	
			Quantity	(%)
Gasoline	3 416	3 823	+407	+11,9
Diesel	9 450	9 783	+333	+3,5
Jet fuel	506	523	+17	+3,3
Sootage (Diesel+Fuel+Oil)	264	280	+16	+6,0
LPG including :	2 111	2 046	-65	-3,1
Butane	1 568	1 533	-35	-2,3
Propane	200	180	-20	-9,9
GPL/C	343	333	-10	-2,8
S/Total	15 748	16 455	+758	+4,8
Bitumen	809	888	+80	+9,8
Lubricant	160	148	-12	-7,4
Special products	22	20	-3	-11,8
Total	16 739	17 511	+772	+4,6

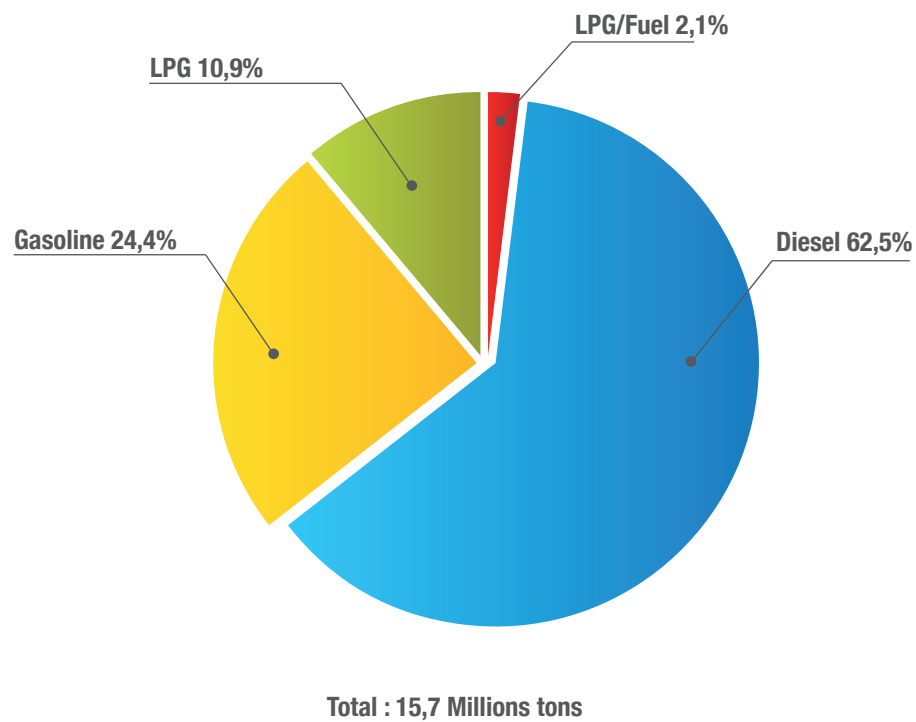
1.1- The distribution of the consumption of fuels & combustibles :

Domestic consumption of fuels accounts for over 89% of the consumption of oil products. It increased from 15.0 million, tons in 2012 to 15.7 tons in 2013; an increase of 4.5%.

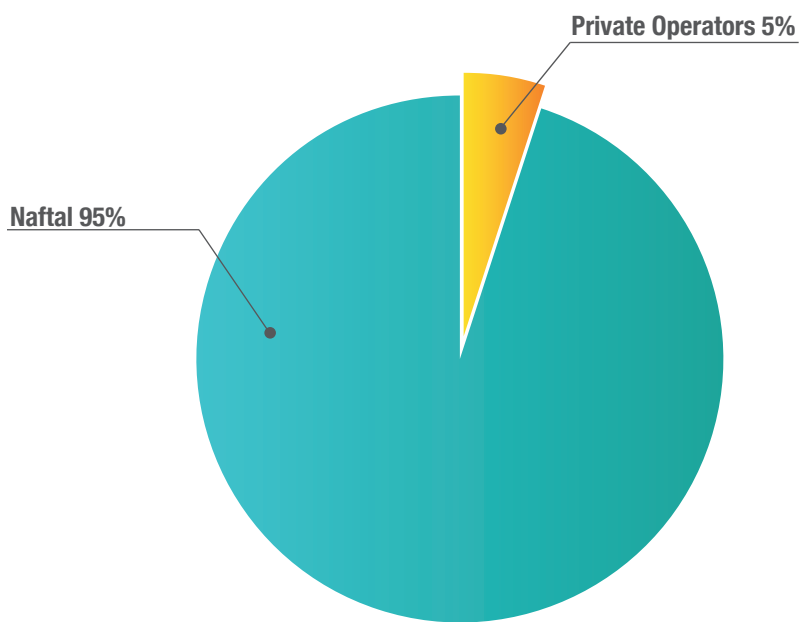
The structure of this consumption is dominated by diesel (62.5%) and gasoline (24.4%). LPG consumption represents 13.1% of which only 2.1% is used as fuel (LPG / C).



Breakdown of the consumption of fuels & combustibles



In terms of operators, sales of fuel during 2013 reached 95% by NAFTAL, the remaining volume was distributed by private operators.





2- Development projects :

The record of granted permits in 2013 for storage activity and distribution of oil products revealed the following :

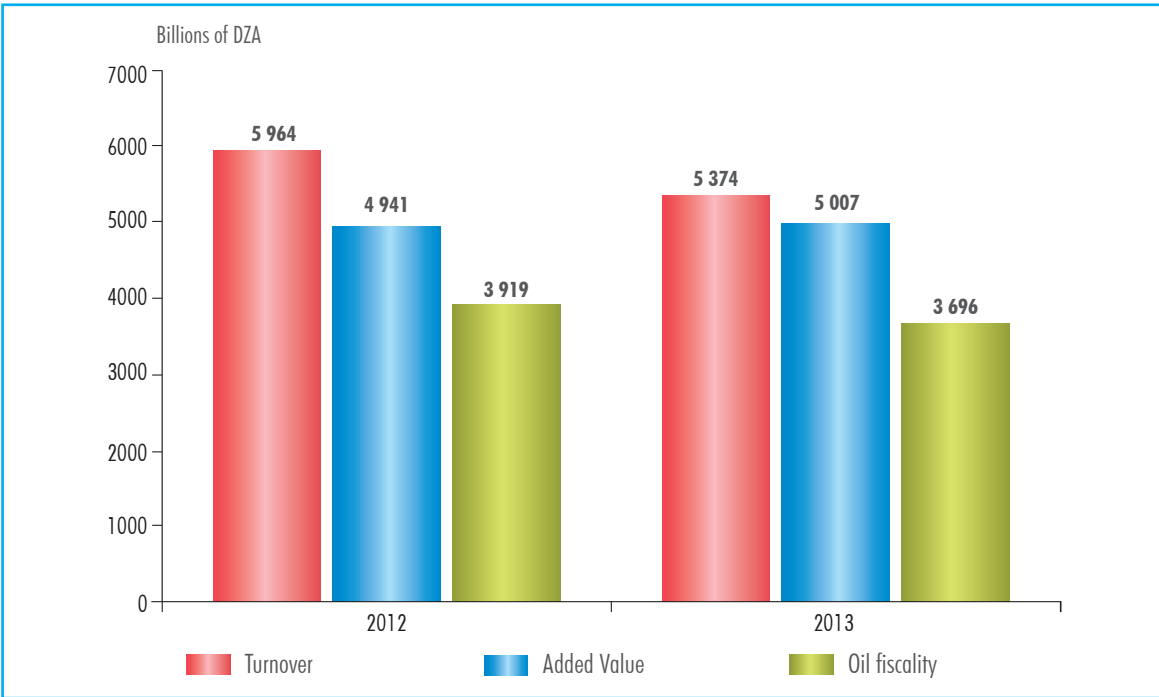
- (144) oil/gas stations;
- (01) Distribution and filling center of LPG;
- (02) Bitumen storage and distribution centers;
- (01) Bitumen formulation and distribution center
- (03) Storage and distribution centers of lubricants;
- (02) Storage and fuel distribution facilities.



V- Economic Indicators

1- Financial Parameters :

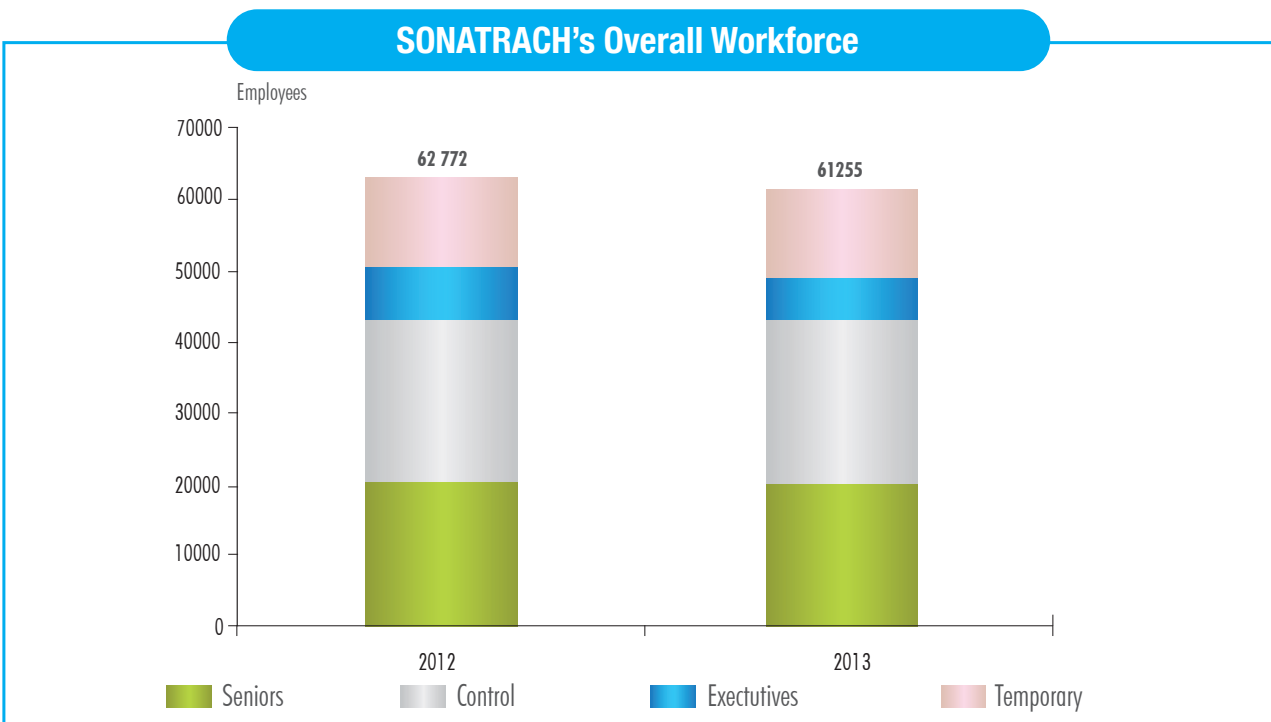
Sonatrach has registered 5 374 billions DZA of turnover with a 10% decrease compared to 2012. However the added value has jumped by 1.3% to reach 5 007 billions DZA in 2013. Oil fiscality has reached 3 696 billions DZA in 2013 against 3 919 billion DZA during the previous year, with a 5.6% decline.



2- Workforce of Sonatrach :

The number of Sonatrach Group employees, including temporary staff, has experienced a small drop (-2.4%) to 61,255 agents.

The breakdown of this workforce by job category is given below :



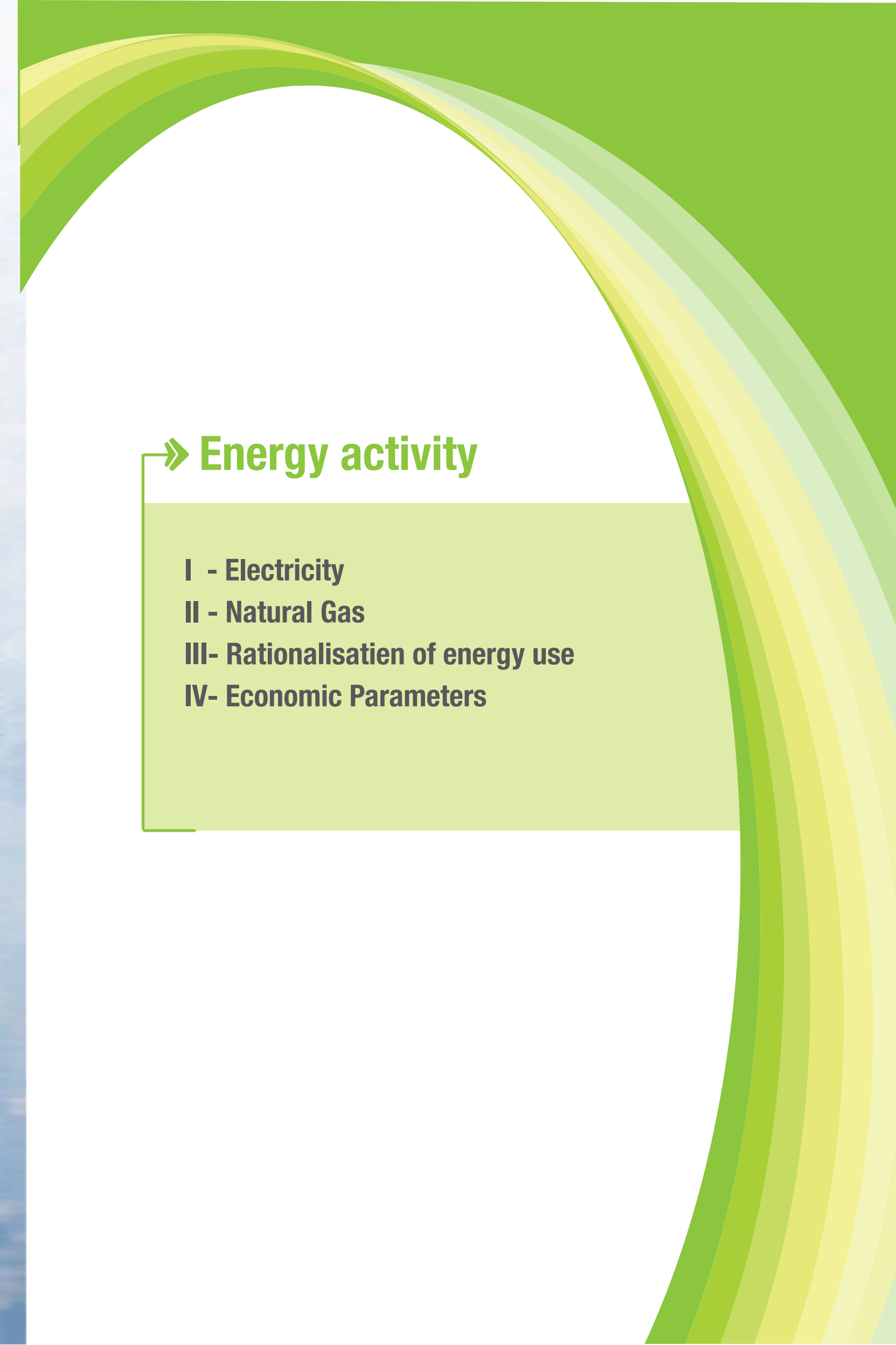


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» Energy activity

I - Electricity

II - Natural Gas

III- Rationalisation of energy use

IV- Economic Parameters



Introduction

On the medium range the sector has adopted a major investment program that will strengthen the production and distribution of electricity to meet the strongly growing demand especially in summer. The year 2013 saw the commissioning of 19 power plants with a total capacity of 1300 MW. Similarly, 25 more plants with a total capacity of 7,500 MW are under construction. The installed capacity of the national park of power generation reached 15,097 MW by the end of 2013 ie; a 16% compared increase compared to 2012.

These achievements are accompanied by a development program of transport networks and distribution of electricity (11000 km) and gas (6000 km).The national production of electricity in 2013 has attained 60 TWh, reflecting a growth of more than 4%.

The national electricity consumption recorded a strong growth, mainly due to the strong increase in household consumption, especially in that of air conditioning.

It is worth pointing out that the effort exerted by the State in 2013 for the electrification and the public distribution of gas, has pushed the electrification rate to 99.9% and the gas penetration rate to roughly 52%.





I- Electricity

1- Development Projects :

The sector continued the development effort of this branch through the building of infrastructures for the production, transmission and distribution of electrical energy to meet the growing demand and enhance the service quality.

1.1- Completed projects :

During 2013, the national power generation has been strengthened by the commissioning of several plants including that of Koudiet Eddraouch in the wilaya of El Tarf with a 1200 MW capacity.

The distribution according to the means of production plants received in 2013, is shown in the following table:

Production	Site (Wilaya)	N of Generators	Capacity (M watts)
Combined Cycle	Koudiet Eddraouch (El Tarf)	3	1 200
Mobile Gas Turbine	Hassi Messaoud (Ouergla)	4	68
Inter-connected network	2 Facilities	-	1 268
diesel plants	Ein Belbal (Adrar)	1	0,5
	Timyawin (Adrar)	2	1
	M'Guiden (Adrar)	3	0,6
	B.Badji Mokhtar (Adrar)	4	3
	Oum L'assal (tindouf)	3	1,5
	Site 1 (Tindouf)	4	2
	Site 2 (Tindouf)	4	2
	Tibelbala (Bechar)	2	1
	Site 3 (Bechar)	2	1
	Tinelkoum (Ilizi)	1	0,5
	Bordj Omar Idriss (Ilizi)	1	0,5
	Debdab (Ilizi)	5	2,5
	Bordj el Houas (Ilizi)	2	0,6
	Tinzaouatine (Tamenrasset)	1	0,5
	Ein Guezzam (Tamenrasset)	2	1
	Idless (Tamenrasset)	1	0,4
	El Goléa (Ghardaia)	1	5
S/Total (réseau isolé) de SKTM	17 plants	-	24
Total	19		1 292

1.2- Projects in progress :

Twenty-five (25) new power plants with a total capacity of 7538 MW are under construction.

The distribution by means of production is as follows :

Production Means	Site (wilaya)	Capacity (MW)	Progress (%)	Entry into service date
Mobile gas Turbines	Fkirina (Oum El Bouaghi)*	240	99	2013
	M'Sila(M'Sila)*	240	99	2013
	Adrar (Adrar)*	34	94	2013
	El Oued (El Oued)*	68	92	2013
	Amizour (Bejaia)*	161	90	2014
	Site Hamma (Algiers)	40	-	2014
	Boufarik III (Blida)	39	-	2014
	Site Béni Mered (Blida)	98	-	2014
	M'Sila (M'Sila)	177	-	2014
	Ouargla (Ouargla)	79	-	2014
	Site Ahmer El Ain (Tipasa)	60	-	2014
	Site Braki	60	-	2014
	N/Total :	1 296	-	-
	Gas turbines	Ain Djasser II (Batna)	264	87
Labreg (Khenchela)		426	73	2014
H. Messaoud (Ouargla)		661	61	2015
Boutlelis (Oran)		546	17	2015
Hassi R'mel (Laghouat)		368	9	2015
Boufarik II (Blida) **		704	1	2014
Tilghemt III (Laghouat) **		591	5	2014
Oumache II (Biskra) **		457	6	2014
N/Total :		4 017	-	-
Combined Cycle	Ain Arnat (Setif)	1 015	23	2016
	Djinet (Boumerdes)	1 131	15	2016
	Total /N	2 146	-	-
Interconnected Northern Network (I.N.N)	Total/N 22	7 459	-	
Gas turbines mobiles	Zaouiet Kounta (Adrar)*	68	60	2014
N/total Isolated Southern Network	1 power Plant	68	-	-
Renewable energies	Kabertene wind farm (Adrar)	10	85	-
	PV Plat-form (Ghardaïa)	1,1	60	-
N/total ENR	2 power Plants	11,1	-	-
Total	25 power Plants	7 538	-	

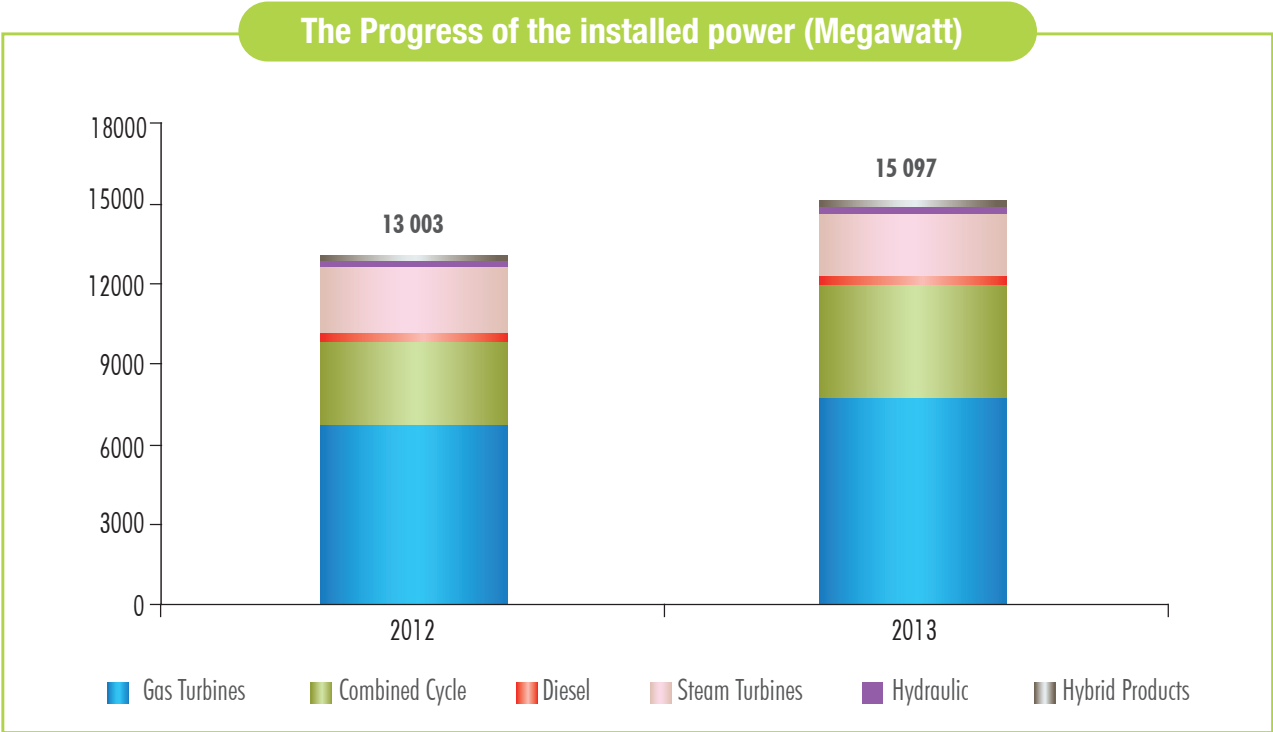
*- Emergency Plan during summer 2013 :

** - Emergency Plan during summer 2014.



2- Progress of the installed power :

The installed power generation capacity15,097 MW luimped from 13 003 MW in 2012 to 2013, an increase of over 16%. The share of Sonelgaz-SPE being 62%, that of independent producers 38%.



3- Electricity generation :

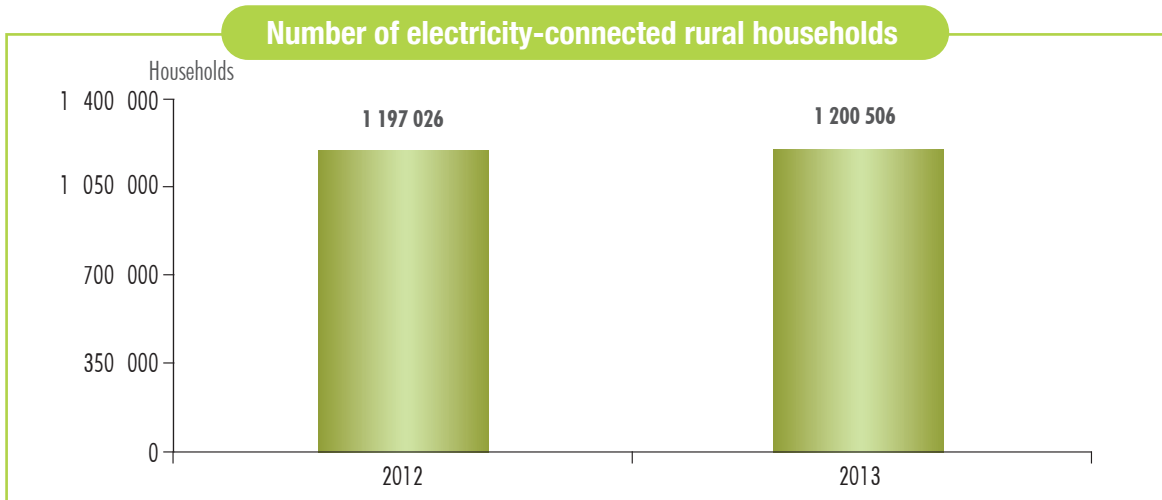
The national electric power reached 59.9 TWh in 2013, against 57.5 TWh in 2012, increasing thereby by 4.2% as indicated in the below table :

Distribution of electricity generation by origin		
TWh	2012	2013
Sonelgaz (SPE+ SKTM)	29,0	23,6
independent producers :	24,0	31,4
including :		
Kahrama	2,6	2,6
SK Skikda	5,4	6,1
SK Bourrouaghia	2,8	1,2
SK Hadjret Ennous	8,6	10,4
SK Terga	4,5	6,8
SK Koudiet Eddraouch	0,1	4,4
SPP1 Hassi R'mel (hybrid-gas)	1,2	1,2
Sonatrach Plants	3,3	3,7
Overall Production	57,5	59,9



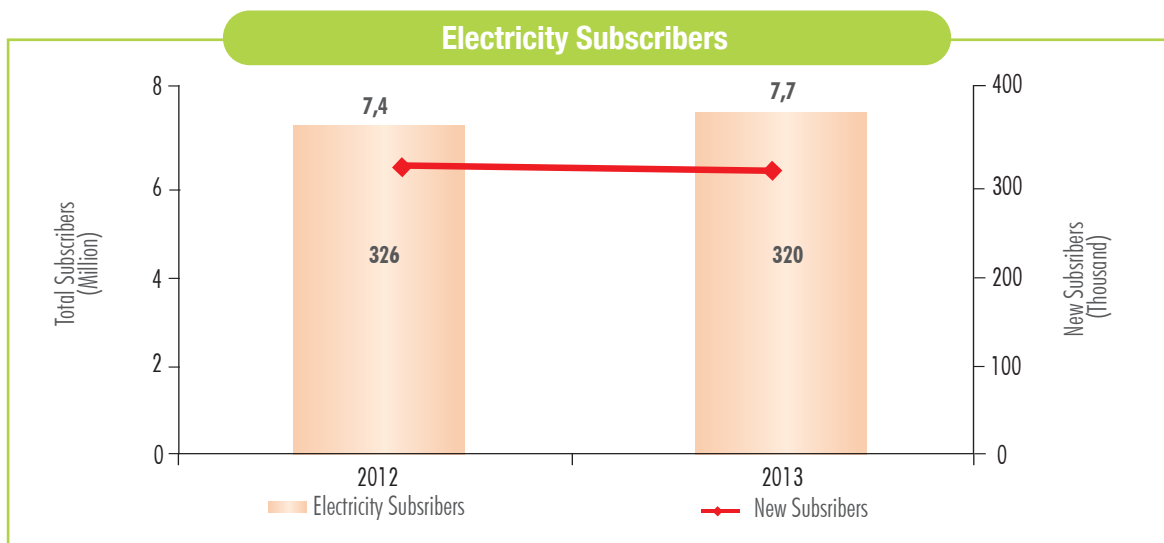
6- Rural Electrification :

The number of plants connected in 2013 reached 134 or 3,480 new households, bringing the cumulative number of connected rural households to 1,200,506.



7- Electricity Subscribers :

The number of new subscribers connected during the year 2013 reached 319,689 subscribers (all customers combined) which reflects a slight decrease (-2.0%) compared to the achievements of 2012. The total number of electricity subscribers reached 7.75 million in late 2013, bringing the rate of national electrification to 99.9%.



The distribution of subscribers according to their voltage level is given below:

Subscribers	2012	2013	Progress	
			Number	(%)
High Voltage	103	105	+2	+1,9
Medium voltage	46 876	48 590	+1 714	+3 ,7
Low voltage	7 381 864	7 699 837	+317 973	+4,3
Overall Number of clients	7 428 843	7 748 532	+319 689	+4,3

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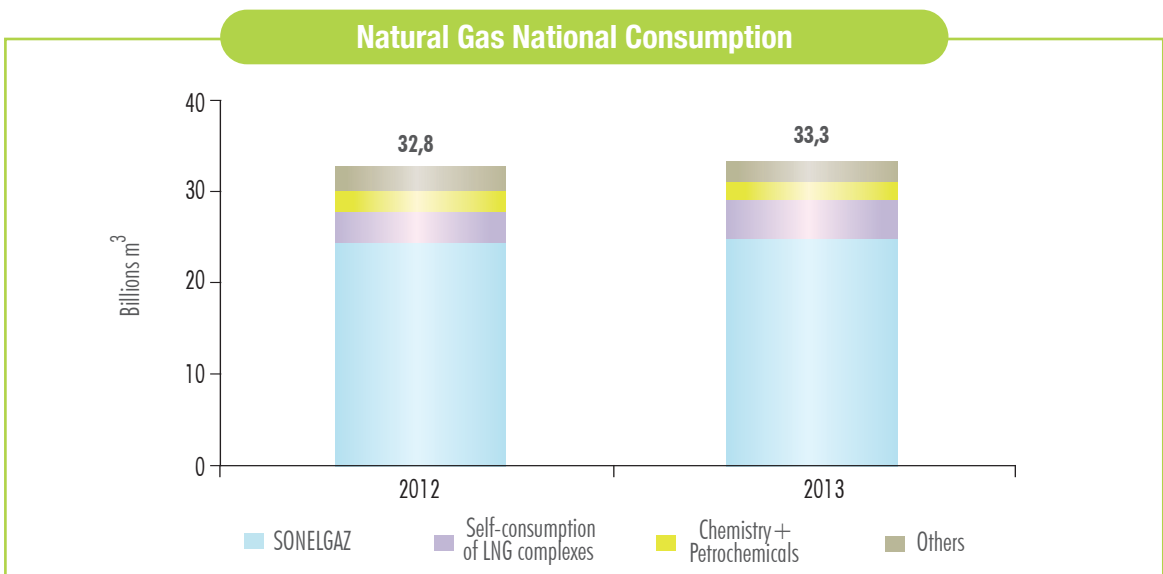
II- Natural Gas

1- Natural gas consumption :

During 2013 the domestic consumption of natural gas recorded a moderate growth of 1.4% compared to 2012, reaching 33.3 billion m³.

The distribution of the progress in domestic natural gas consumption is given below:

- Sonelgaz: 1.6%;
- Self-consumption of LNG complex: + 2.2%;
- Chemicals & Petrochemicals (-10.4%);
- Others (-19.3%).



Sonelgaz offtakes totaled 24.7 billion m³ in 2013, against 24.3 billion m³ in 2012, an increase of 1.6%, as detailed below:

The Breakdown of Sonelgaz offtakes

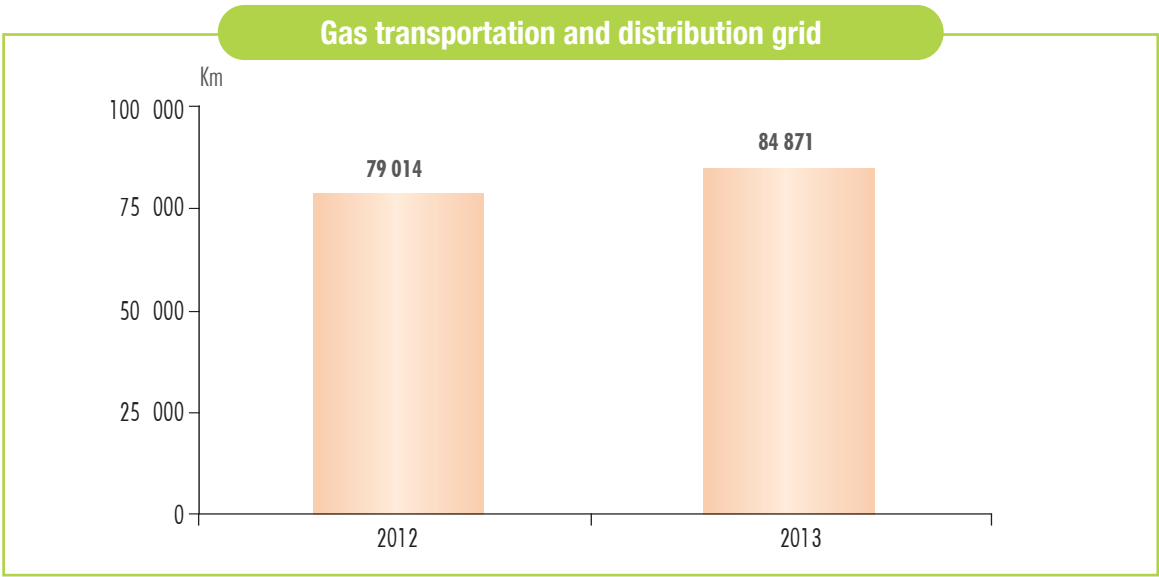
Billions of M ³	2012	2013	Progress	
			Quantity	(%)
Power plants Delivery	14,1	13,6	-0,5	- 3,6
Sales, including :	10,3	11,2	+ 0,9	+ 8,8
- Low pressuce	6,6	7,3	+ 0,7	+11,0
- Medium pressuce	0,8	0,9	+ 0,1	+ 9,1
- High pressuce	2,9	3,0	+ 0,1	+ 3,5
Sonelgaz overall offtakes	24,3	24,7	+ 0,4	+ 1,6

With the improvements in the specific consumption of power plants which dropped from 2.57 th / kWh in 2012 to 2.37 th / kWh in 2013, due to the use of the combined cycle, Sonelgaz’s offtakes of natural gas to meet the needs of power plants have declined (-3.6%).

Sales however rose especially for the low-pressure customers (+ 11.0%) as well as medium pressuce (+ 9.1%).

2- Gas Network :

The length of the natural gas transmission and distribution grid rose from 79 014 km in 2012 to 84 871 km in 2013, an increase of 7.4%.



3- Public distribution of natural gas :

As part of the public distribution program of gas, Sonelgaz connected 39 new sites, bringing the national gas connection rate to 52% at end-2013.

4- Natural gas subscribers :

The number of natural gas subscribers reached 3,967,275 at the end of 2013, reflecting a growth rate of 8.1% compared to the end of 2012.

The number of subscribers by pressure level at the end of 2013 is given below:

	2012	2013	Progress	
			Number	(%)
High pressure	206	216	+10	+4,9
Medium pressure	4 727	5 070	+343	+7,3
Low pressure	3 663 903	3 961 989	+298 086	+8,1
Overall Clients	3 668 836	3 967 275	+298 439	+8,1



III- Energy

The achievements of the National Agency for the Promotion of the Rational Use of Energy (APRUE) in 2013 were primarily focused on the continued implementation of the supplementary program adopted in the framework of the APRUE / MEM Convention, including:

1. Capacity building :

Four (4) training sessions were conducted for the following majors:

- Energy auditors in the industry;
- Energy auditors in the construction field;
- Energy agents in the industry;
- Energy agents in the service.

2. Education :

The actions included in this were:

- The state of affairs of building materials manufacturing sector;
- The realization of a diagnosis on urban transport in the city of Algiers and the assessment of the needs in infrastructures and buses in terms of natural gas
- The state of affairs of the national public outdoor lighting system. 90% of the study has already been carried out.

3. Carrying out the program :

The achievements in the last phase focus on the following:

- The thermal insulation of 600 new households and an information campaign for the existing buildings;
- The installation of individual solar water heaters;
- The distribution of Energy-saving Light Bulbs (LBC);
- The substitution of mercury light bulbs with high pressure sodium lights with the installation of power supply cabinets equipped with voltage regulators;
- Decision aids projects (energy audits, feasibility studies) and investment aid programs
- The conversion of passenger vehicles to LPG / f and the carrying out of information campaign;
- The design and installation of an absorption solar system.



Energy Sector

The table below shows the energy saving material gains over the period 2011- 2013 :

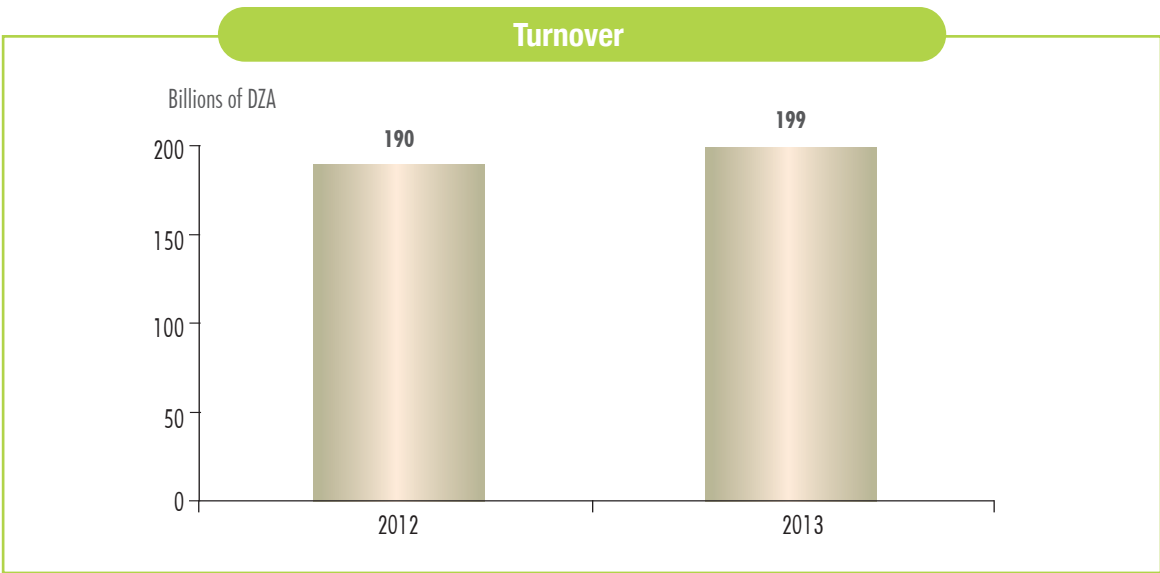
	Substance of the action	Energy saving (PET)	Avoided CO2 equivalent tons
Efficient lighting	3 750 000 lamps	138 500	318 550
CESC (collective solar water heater)	10 000 m²	2 154	4 954
CESI (Individual solar water heater)	12 000 m²	2 871	6 603
HPE (High energy performance)	600 Housing units	80	184
Building renovation	1 500 Housing units	678	1560
Street light	150 000 lamps	24 256	55 788
Building	-	168 539	387 639
Decision Assistance	50 studies	-	-
Investment Assistance	100 projects	133 000	306 000
Industry	-	133 000	306 000
tertiary audit	55	2 000	4 600
industry audit	130	27 000	62 100
Transportation audit	4	300	690
IGCE (Energy major consumer Industry)	-	29 300	67 390
GPL/c fuel private vehicles	50 000	375 000	862 500
GPL/c fuel fleets	5 000	37 500	86 250
Transportation	-	412 500	948 750
Total	-	743 339	1 709 779



IV- Economic parameters

1- Turnover :

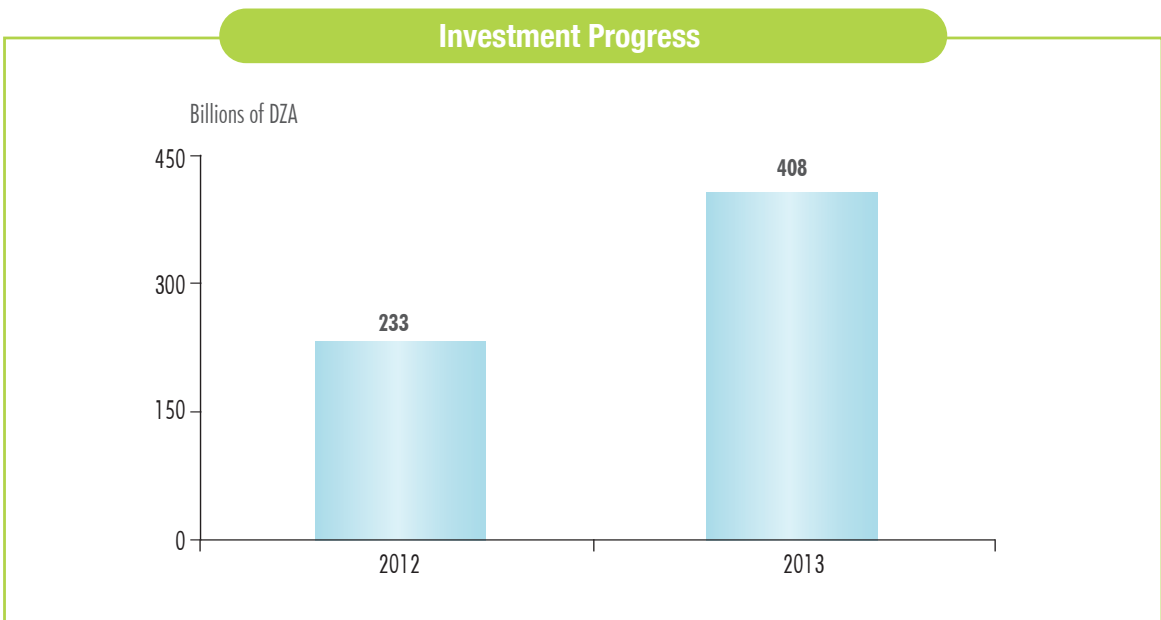
The turnover of Sonelgaz group * grew by 5% in 2013 to US\$199 billion DA.



* Turnover (intra-group transactions, distribution companies, distribution and technology activities and services provision excluded).

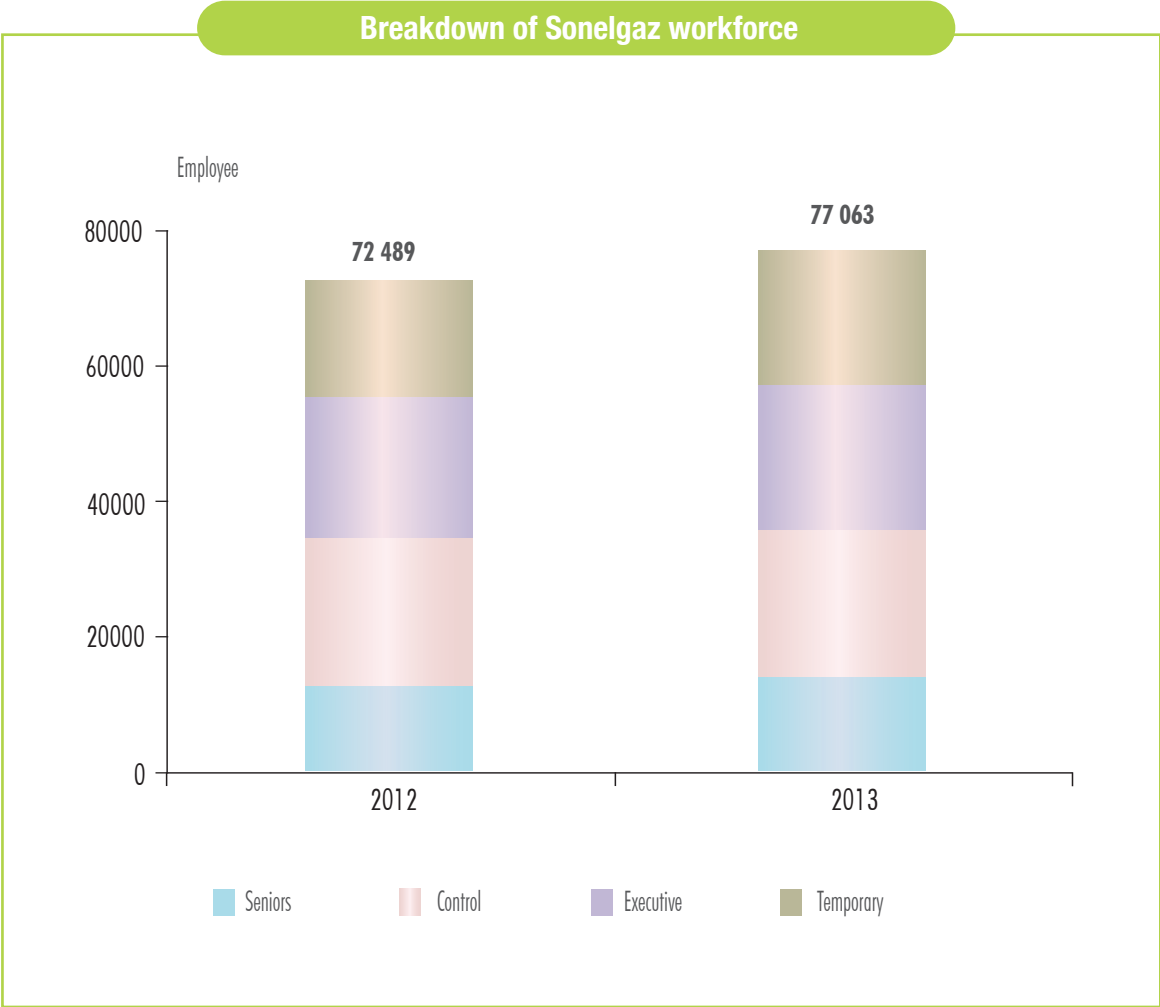
2- Investments :

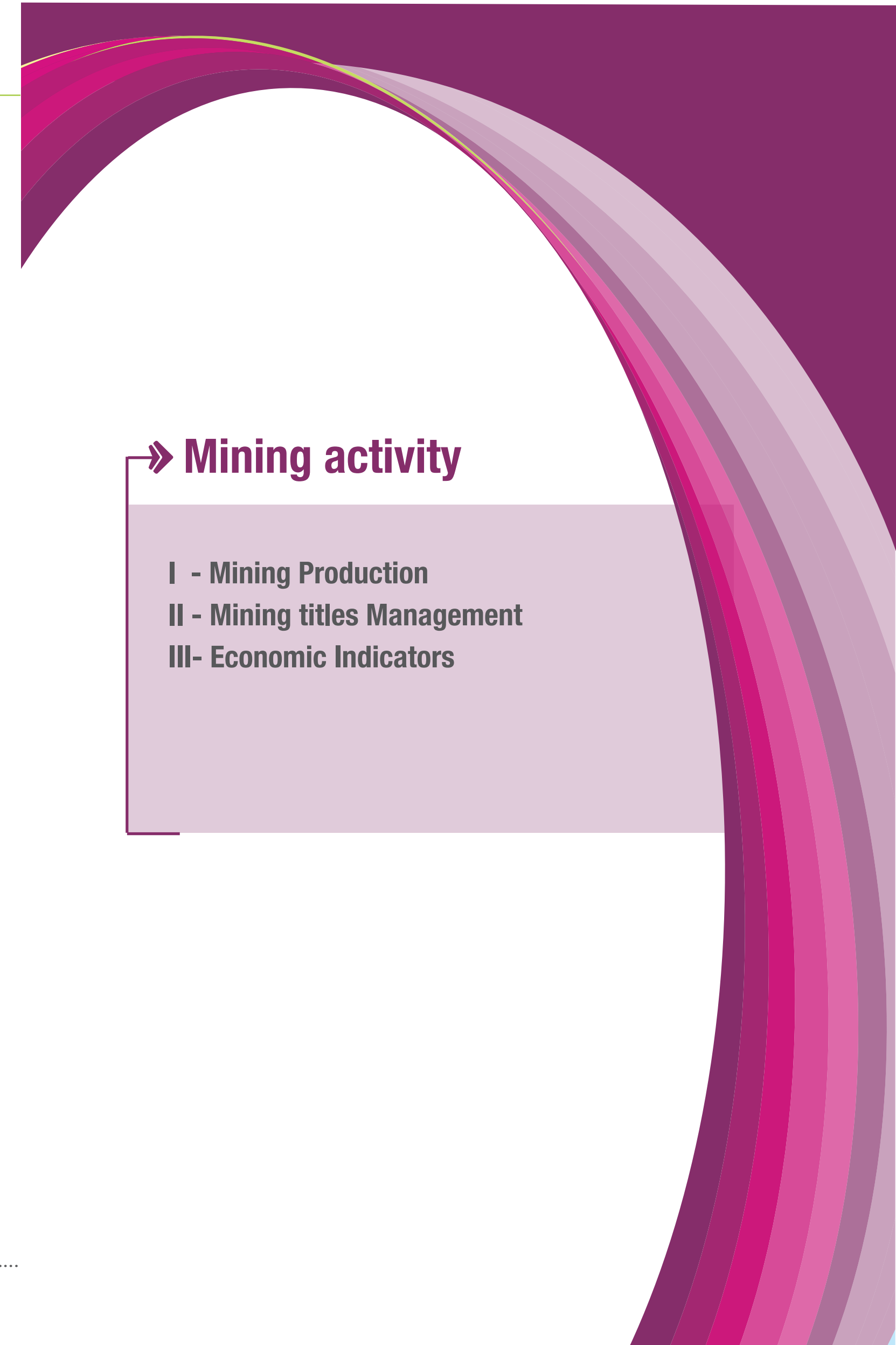
A major investment of 408 billion DA was mobilized by Sonelgaz during 2013, which represents an increase of 75% compared to the year of 2012.



3- Workforce of Sonelgaz group :

The total employees of Sonelgaz group reached 77063 agents (temporary incl.) By the end of 2013 against 72 489 agents in 2012; ie the creation of 4 574 new positions.





» Mining activity

I - Mining Production

II - Mining titles Management

III- Economic Indicators

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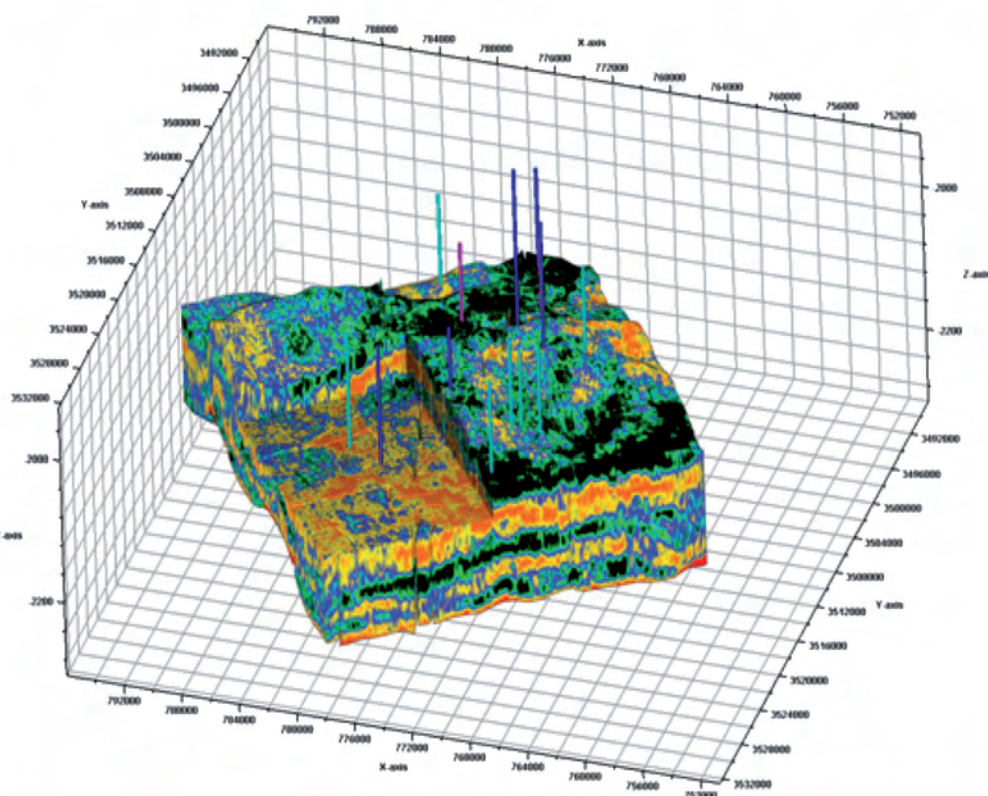
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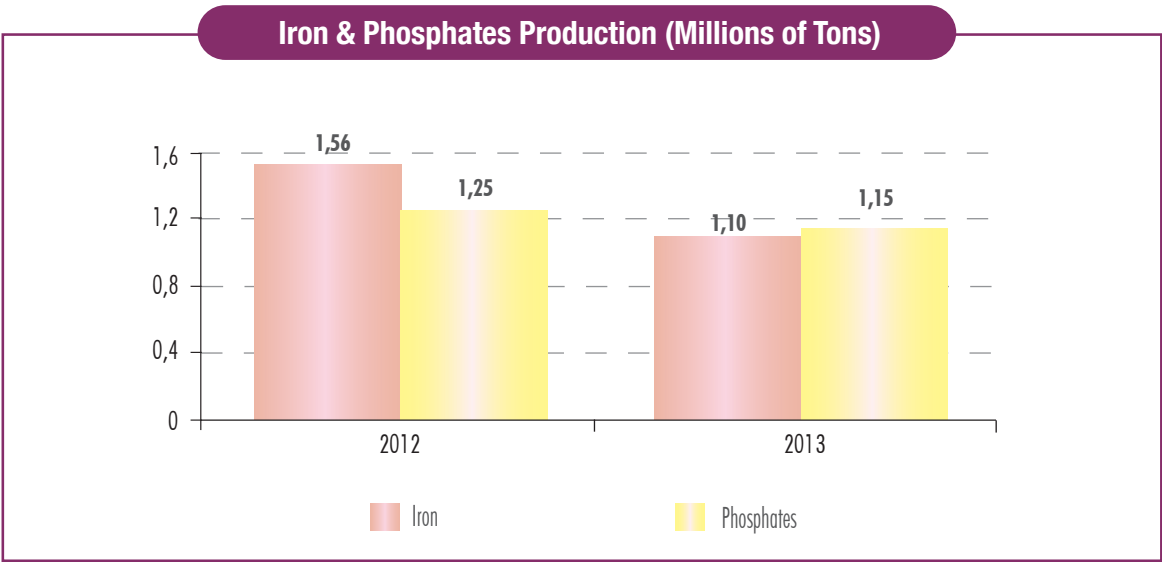
Introduction

The mining Branch witnessed varying levels of development during the year 2013. The production of feldspar and pozzolan increased while the production of iron, phosphate and aggregates decreased.

I- Mine Production

1- Iron and phosphate :

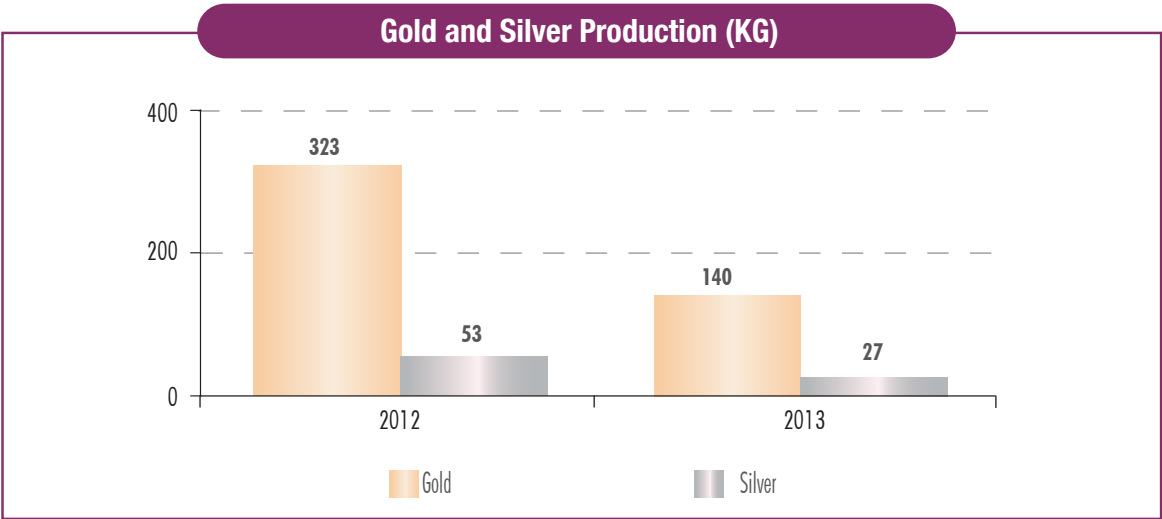
- Iron Production has sharply declined (-29%), reaching 1.1 million tons.
- Phosphate production reached 1.15 million tons in 2013, against 1.25 million tons in 2012, marking a decrease of 8.1%.



2- Gold & Silver :

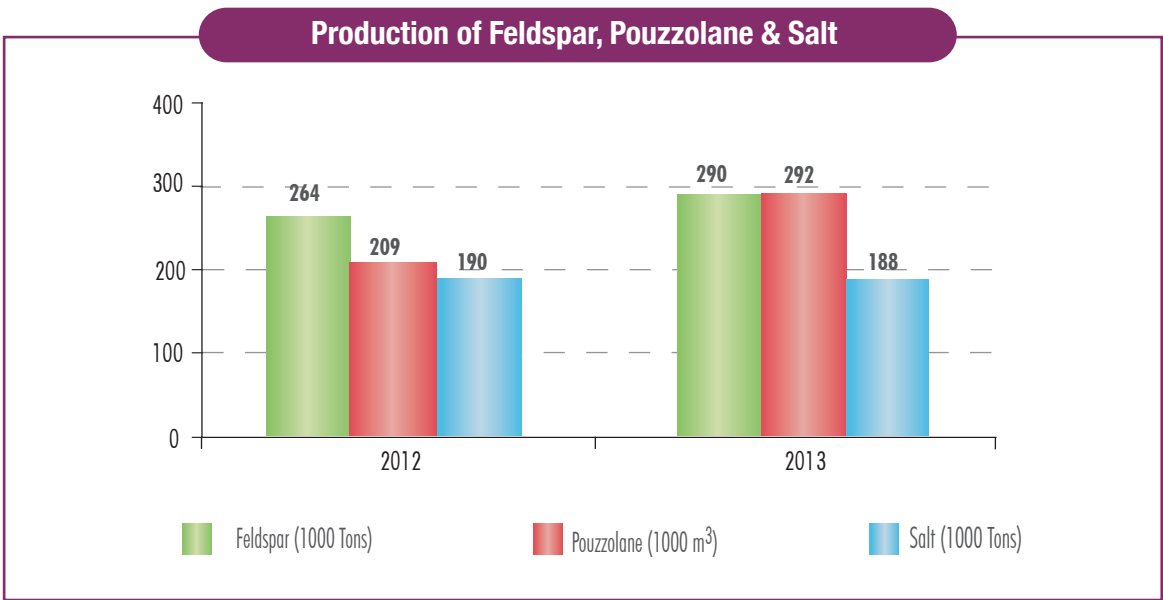
The production of precious metals was marked by a sharp decline in the year 2013, as shown below :

- Gold** : decreased by -57% to reach 140 kg;
Silver : decreased by - 49% to reach 27 kg



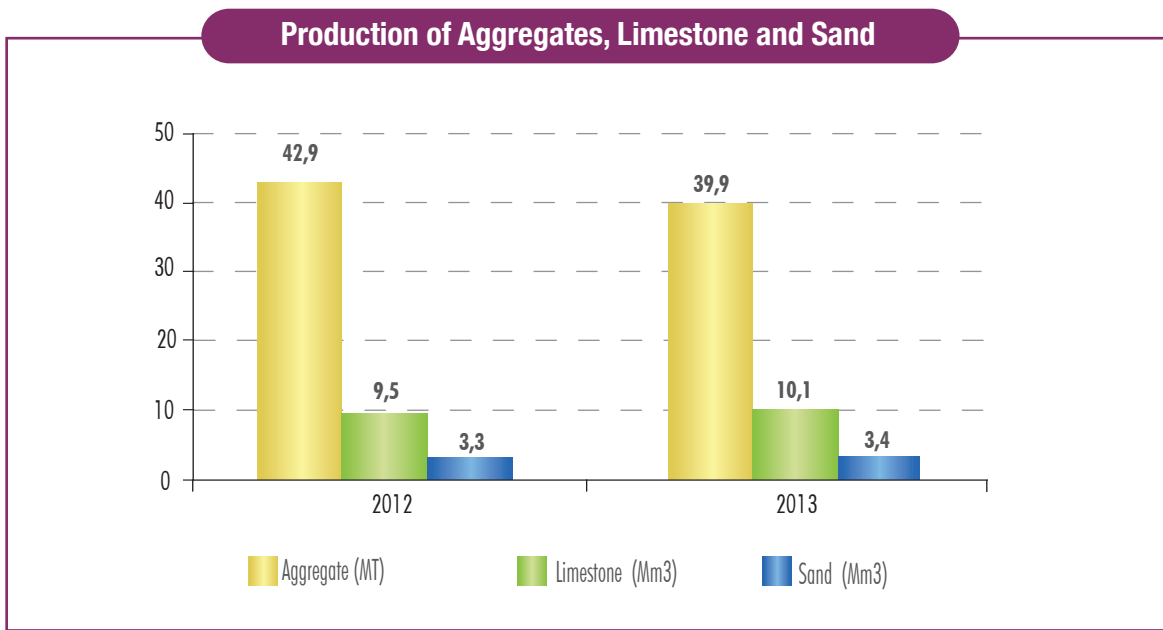
3- Feldspar, Pouzzolane & Salt :

- The production of feldspar increased by 10% to 290 thousand tons in 2013.
- As for pozzolan, the production sharply increased (+ 40%) to 292 thousand m³ in 2013.
- The salt production reached 188 thousand tons, the same level as in 2012.



4- Aggregates, Limestone and Sand :

- Aggregate Production was marked by a decrease (-7.1%), to reach 39.9 million tons in 2013, presenting a decrease of nearly 3 million tons.
- Sand production witnessed a slight increase of 3.3%, to reach 3.4 million m³ in 2013.
- The Limestone production increased by 6% in 2013, to reach 10.1 million m³.





II- Management of mining titles

During 2013, the National Agency of Mining Estate (ANPM) awarded 394 mining titles, as follows:

Mining titles granted in 2013

Type of title	Number	Origin	Total
Artisanal mining	01	Direct (Baryte d'Ichmoul – ENOF)	01
exploitation	168	Renewal	298
	66	Transfer and cession	
	27	Exploration	
	09	Extension	
	09	Relocation	
	08	Assimilation	
	04	Direct application	
	03	Modification	
	02	Fusion of perimeters	
	01	Tender	
	01	Extension of substance	
Mineral Exploration	36	Tender	95
	36	Prorogation	
	14	Direct application	
	04	Transfer	
	02	Extension	
	02	Relocation	
	01	prospecting	
Total			394

Efforts of remediation of inactive mining sites resulted in 2013:

- 05 statements of open area status;
- Liberation of 91 mining titles (43 withdrawals, 30 cancellations, 16 non-renewal decisions and 02 of decisions of ending operating licenses).

The overall achievements of tendering operations for 2013 are as follows :

- Number of tendering operations:	04
- Number of sites proposed for exploration:	52
- Number of sites allocated for exploration	40
Unit: Millions DA	
- Total amount of tendering revenues:	5 532,2
- Total amount of specifications sales:	10,5
Total receipts:	5 542,7

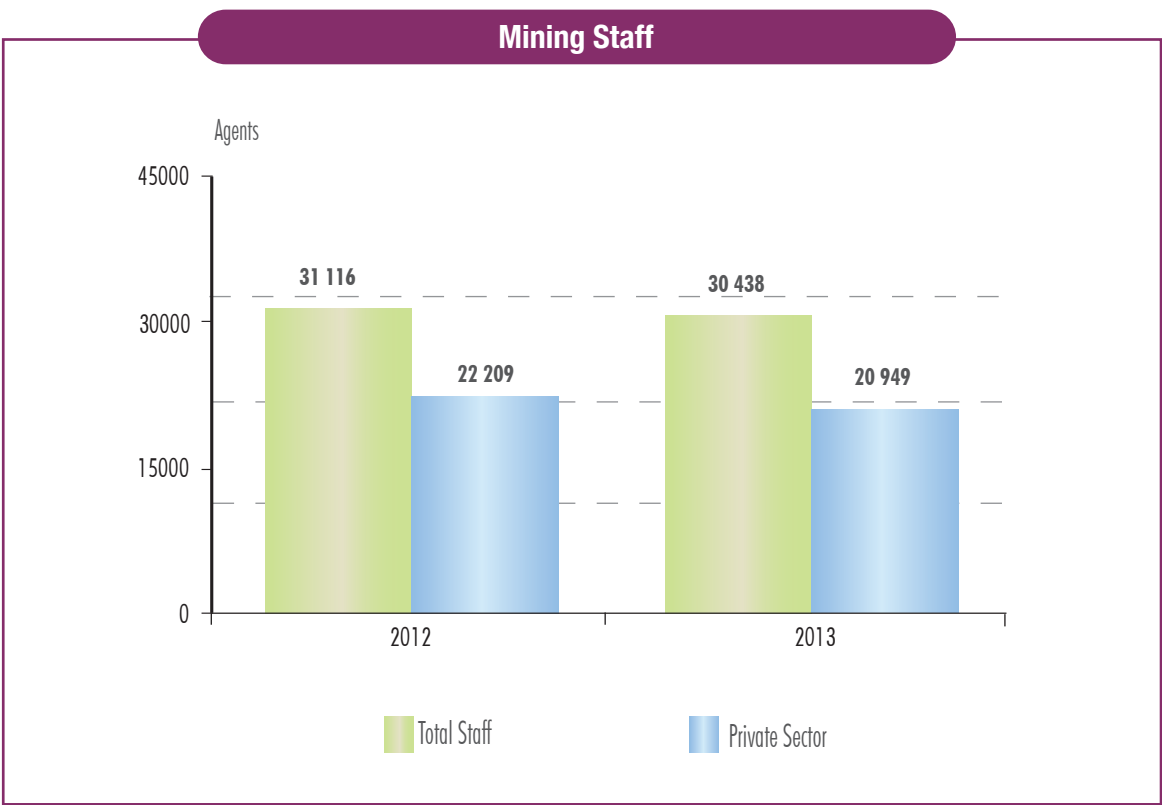
III- Economic Indicators

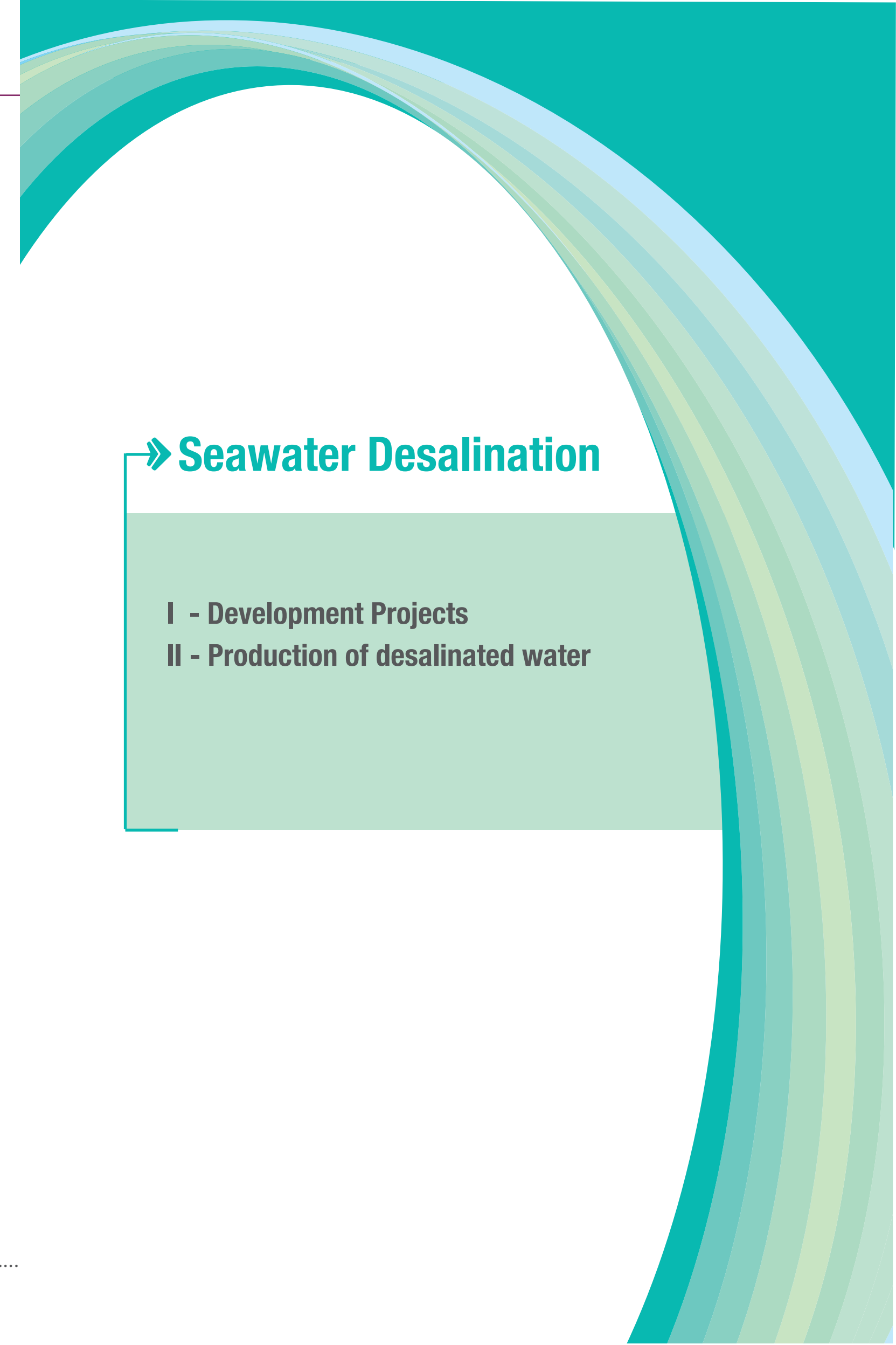
1- Turnover :

The mining branch recorded a turnover of 77 billion DA in 2013, representing an increase of 4% compared to 2012, especially for the company ENAMARBRE (+ 15%) and ENG (+19%).

2- Staff :

The workforce of the mining sector reached 30,438 agents at the end of 2013, namely a decrease by 2% compared to the previous year. This was due to the decrease private sector employees (-6%).





» Seawater Desalination

I - Development Projects

II - Production of desalinated water

1- Development projects :

The national program for seawater desalination comprising 12 units spread over the country, has experienced a noticeable progress with the reception of 9 units and the ongoing construction of two more in Oran and Chlef. The unit of Bejaia is in study phase.

The national program for seawater desalination

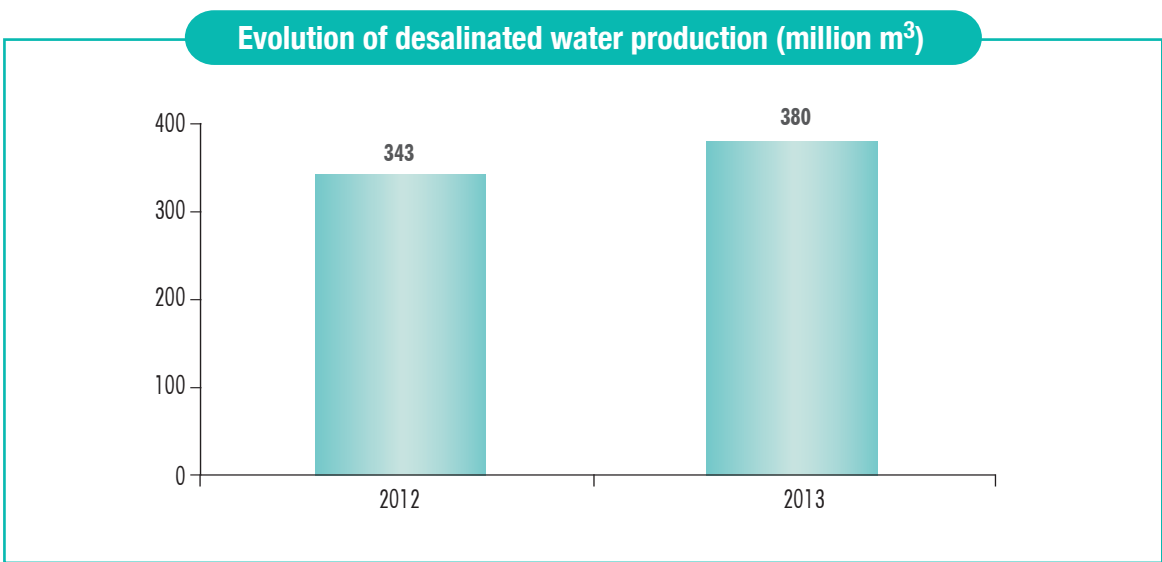
Project Status	Number	Capacity (m³ /d)
Stations in operation	9	1 406 880
Stations under construction	2	700 000
Stations under study	1	100 000
total program	12	2 206 880

By the end of December 2013, the two (02) units under construction reached a considerable progress as detailed below :

Wilaya	Location	Capacity (m³ / d)	Partner	Investment (U.S. \$ 106)	state of progress	Commissioning
Oran	Megtaa	500 000	Hyflux Singapore	492	99%	February 2014
Chlef	Ténès	20 000	BEFESA Spain 262	262	75%	August 2014

2- Production of desalinated water :

Production of desalinated water reached 380 million m³ in 2013, that is an increase of 11% compared to 2012, especially following the commissioning of the new units.





» Health, safety, environment (HSE):

- I - Accidents and incidents record
- II - Assessment of the achievements
in the HSE field:

ENERGY from SYNERGY

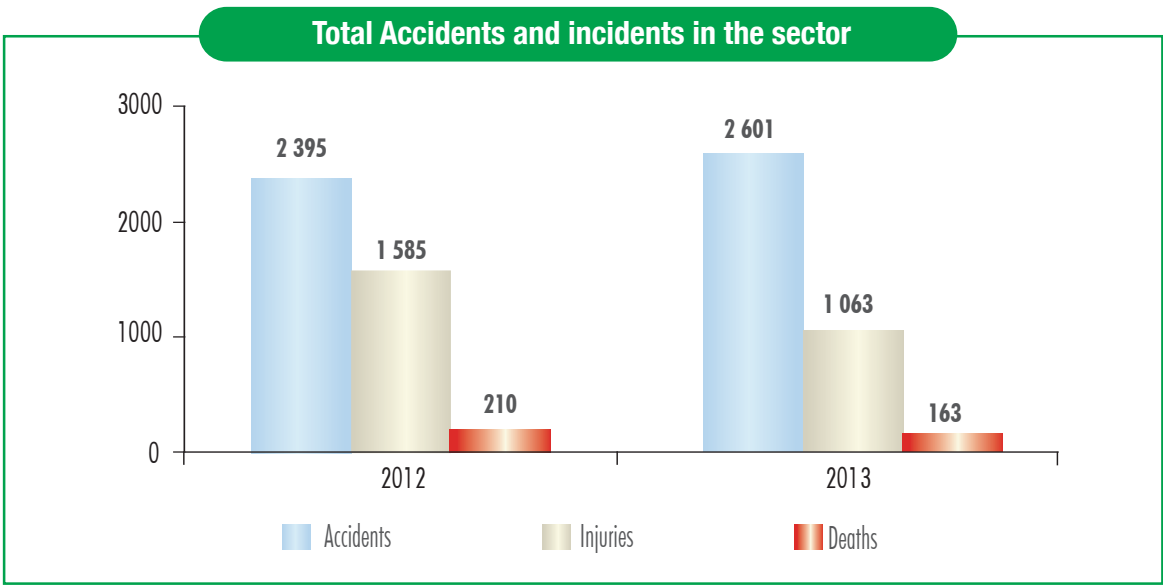
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Algerian Energy Company

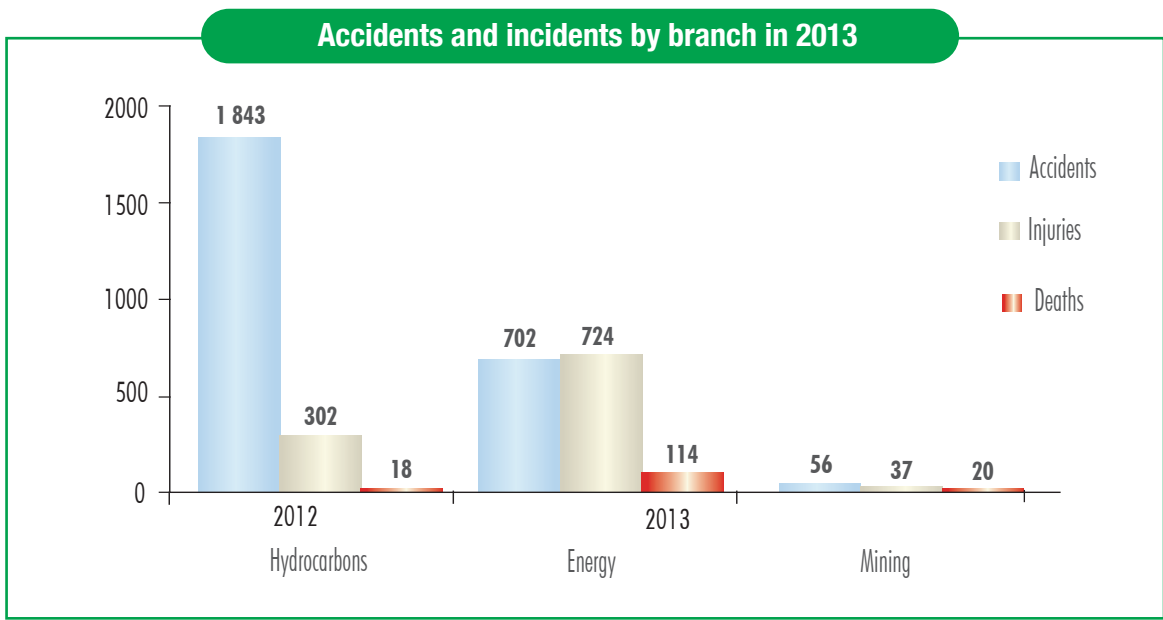


I- Accidents and incidents recorded in the sector

The record of 2013 shows a strong decrease in the number of deaths (33%) and injuries (20%) compared to the previous year, despite the rising number of accidents.



The increase of the number of accidents and incidents recorded during 2013 concerns mainly the hydro-carbon Branch, as shown below :



It is clear from the graph that 75% of all deaths in 2013 are recorded in the energy branch (electricity, gas transport and distribution).

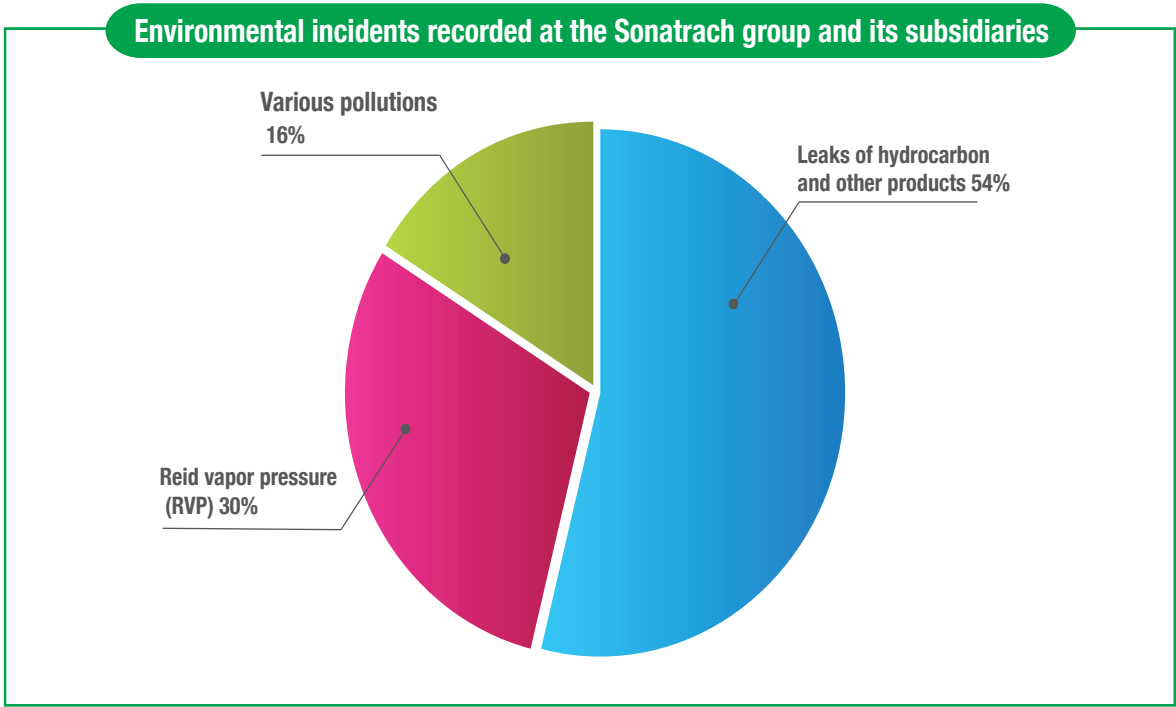
The causes of these accidents remain the same as in previous years and are related firstly to the non-observance of safety rules when working on electrical systems and secondly, the lack of maintenance of domestic heating installations or the use of con form equipment.



II- Assessment of the achievements in the HSE field

In 2013, the activities of the sector have caused numerous cases of leakage and pollution. The causes are usually due to the failure of some corroded equipment or the rupture of the metal of equipment under pressure effect.

The following graph details the environmental incidents recorded at the Sonatrach group and its subsidiaries.



The graph above shows that the age of oil pipelines is one of the main causes of oil pollution of soil and water sources. The rest for almost half is due to TVR² and various pollutions. A series of actions were carried out for the rehabilitation of polluted sites, in particular through:

- Treatment of production drilling mud holes for the Upstream activity;
- Treatment of storage sites of bottom sludge containers for the Transportation activity;
- Treatment of contaminated sites

The main achievements in the field of Health, Safety and Environment (HSE) of the three branches of the sector, are summarized below :

1- Hydrocarbons Branch :

1.1- Sonatrach :

a)- Industrial risks management

Several actions have been launched with the intention of securing installations and structures and reducing the impact of activities on the health of employees and neighboring populations.

² - TVR: a parameter that measures the ability of the fuel to release vapors, causing a pressure increase in a closed chamber



These actions have included :

- Audits and inspections related to HSE;
- Strengthening security organs at all sites;
- Coming into force of the general procedure for road safety;
- Organizing of several training and sensitization activities related to HSE

b)- Emergency and Crisis Management

The year 2013 witnessed the start of implementation of emergency and crisis management system (ICS).

Actions carried out focused particularly on:

- Completion of the audit program at 70 sites;
- Developing plans for internal interventions (IIP);
- Acquisition of new systems for the enhancement of protection and intervention devices (including simulation exercises).

c)- Environmental Management

The main actions, carried out within the framework of the implementation of environmental management policy for Sonatrach group's activities, have included the treatment and recycling of liquid waste; and Management of waste and contaminated sites ;

d)- workplace health

In the field of occupational health, the year 2013 was marked by the implementation of the following projects:

- **Road risk:** implication of the road risk procedure to the structures of the Social Affairs Department (ASL);
- **Waste management :** assessment of medical waste (infectious and toxic) generated by medical facilities related to ASL;
- **ICS :** Simulation exercise at the Bulk LPG center of Sidi Arcine.

2- Energy Branch :

2.1- Measures for reducing the number of domestic accidents :

CREG has taken a series of measures to this purpose, including :

- Continuation of awareness and information actions through the heavy media and other support (CD and booklets);
- Collaboration with consumer protection associations in the various events on raising awareness for the use of household appliances;
- Encouraging operators to ensure the control of equipment compliance

2.2- inspection visits to energy structures :

As part of compliance with regulations, CREG inspected fourteen energy structures in 2013; This inspection covers the following :

- verification of air emissions and discharges of liquid effluents;
- Control of ordinary and hazardous waste;
- compliance with safety standards;
- establishment of firefighting equipment.

The organizational aspect was also reviewed during these inspections, including the structuring of the HSE function.

2.3- Action Plan for the operators :

CREG has also worked with operators for the compliance of their activities with environmental regulations, including through:

- establishing measurement system of air emissions and liquid discharges;
- launching acoustic studies for prevention against noise abatement and their reduction;
- continuing the operations of waste sorting and recycling and disposal of waste oils;
- remediating decommissioned equipment and ensuring the compliance of storage and oil recovery areas..

3- Mining branch :

With the intention of limiting the number of accidents, ANGCM has undertaken several actions, particularly through sanctions as suspension of work and warning notices. It also performed:

- raising awareness among operators in regional meetings;
- Developing a guide on mine safety in open pit mining;
- Organizing continuous training courses for staff working in mines.



» Economic indicators of the sector

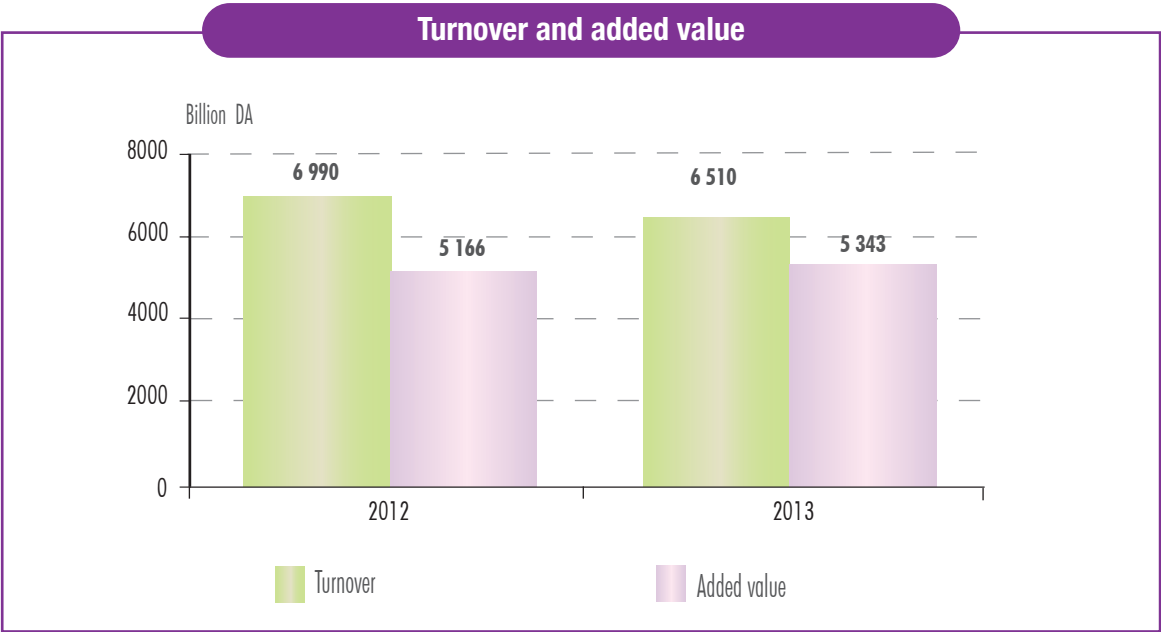
I - Turnover and added value

II - Sector workforce

1-Turnover and added value :

The turnover of the sector reached 6,510 billion dinars in 2013, against 6990 billion dinars in 2012, reflecting a decrease of 7%.

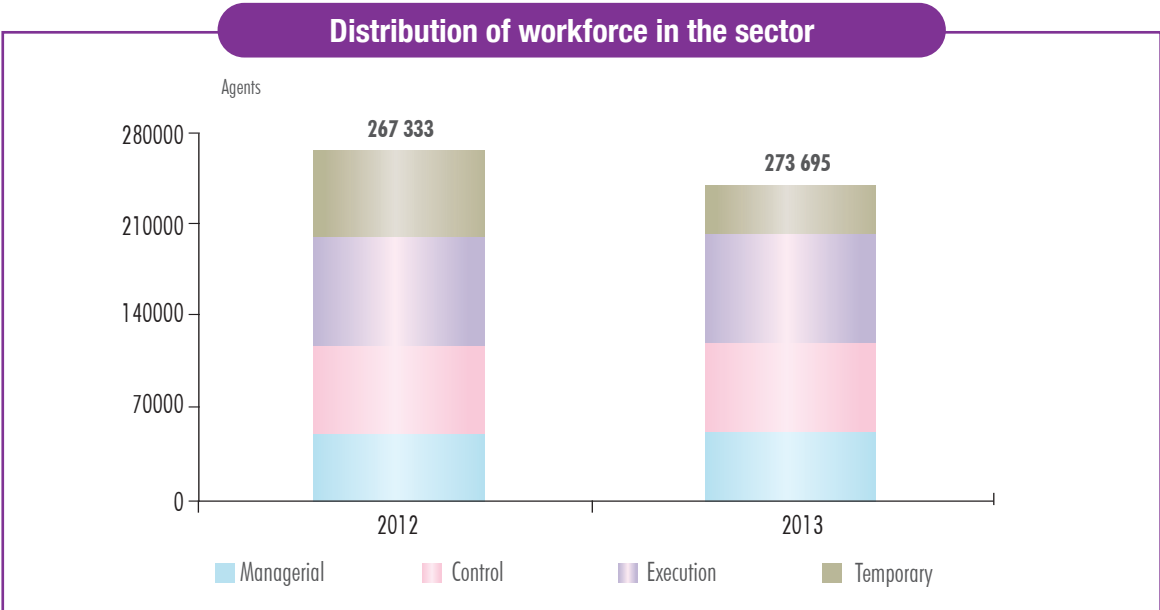
The added value grew by 3.4% over the previous year, to reach 5,343 billion dinars.



2- Sector workforce :

The workforce in the energy and mining sector (incl. Temporary) recorded an increase of 2% to reach 273,695 workers in 2013, i.e. nearly 6,400 new direct jobs have been created.

The distribution, by socio-professional category, of staff in the sector is given below:





» Foreign direct investment flows (FDI)

- I - FDI flows by region
- II - FDI flows by country

Accreditation du CREDEG, Une reconnaissance de la compétence

Activité Etalonnage des compteurs d'énergie électrique sur site client et au niveau des laboratoires du CREDEG



Ce Banc d'étalonnage des compteurs électriques MT/BT de classe de précision 0.02 pour l'étalonnage ces compteurs d'énergie électriques électromécaniques et électroniques, basse tension et moyenne tension, mono et polyphasés. Il peut étalonner dix (10) compteurs à la fois.



Activité Contrôle Non Destructif (CND) : Technique de ressuage (PT)



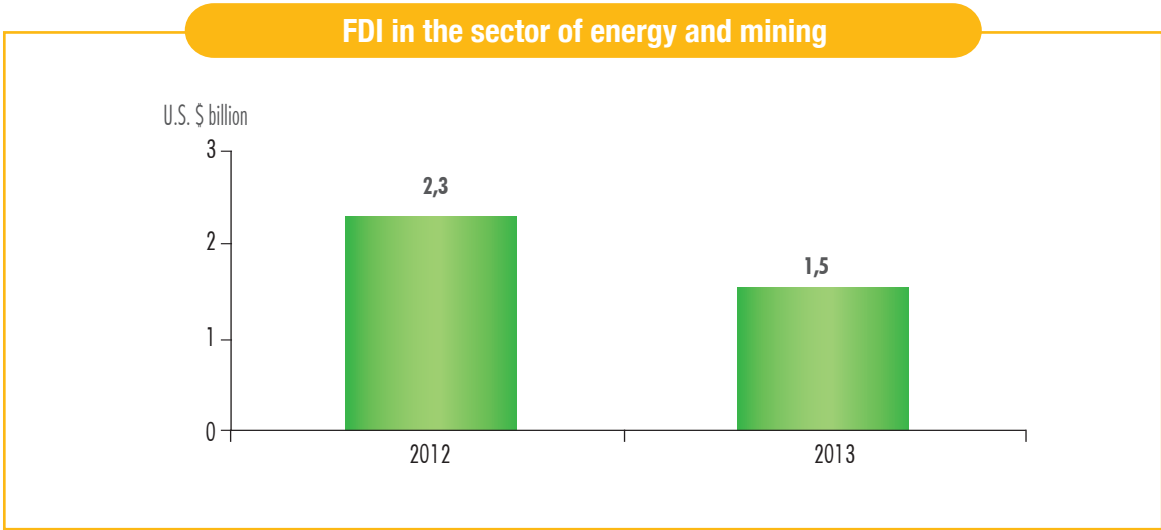
Siège social : Route de Ouled Fayet, RN 36,
Colline des Grands Vents - El Achour - Alger
Tél : LD : 021 38 62 03 - Fax : 021 38 62 11- Standard : 021 38 61 73 -79
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Foreign direct investment Flow (FDI)

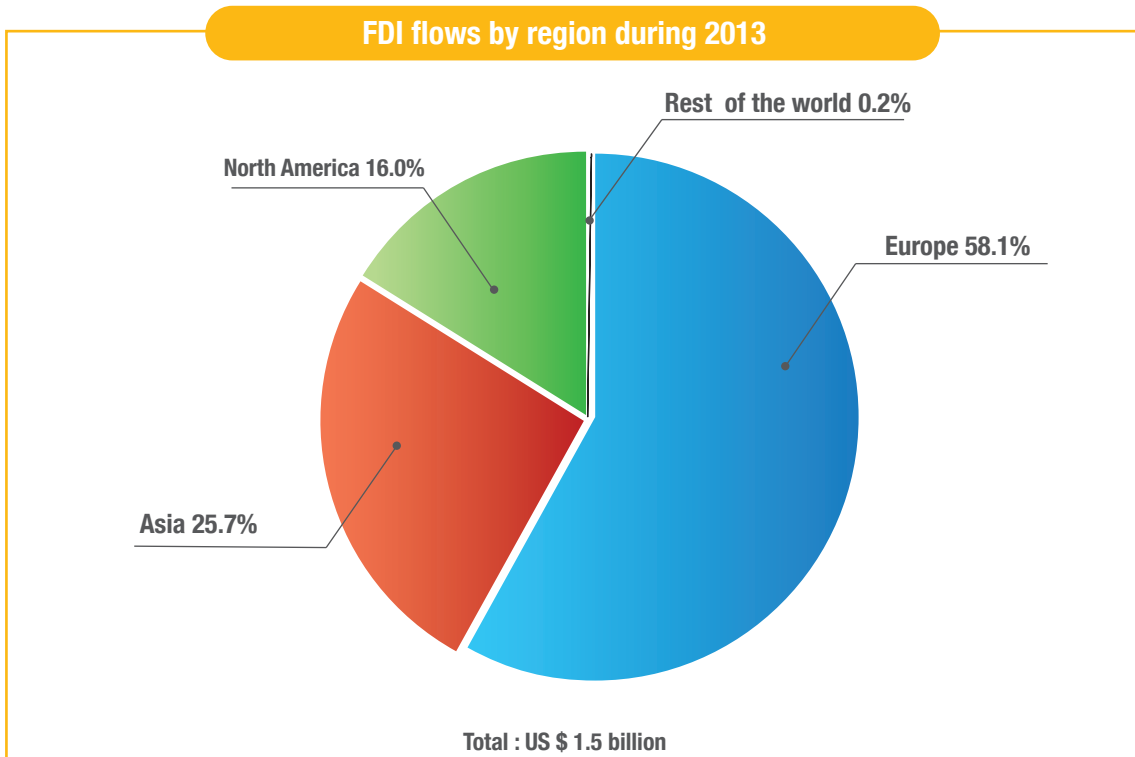
Foreign direct breakdown (FDI) in the sector of energy and mining decreased by 30%, to reach US \$ 1.5 billion in 2013.

This decline, driven by the decrease of FDI for the Upstream segment of the hydrocarbon Branch, has been partly slowed by the increase of FDI in the energy Branch, following the signing of a partnership agreement between Sonelgaz and General Electric for the realization of an industrial complex in Algeria in an aggregate amount of US \$ 560 million.



A -FDI flows by region :

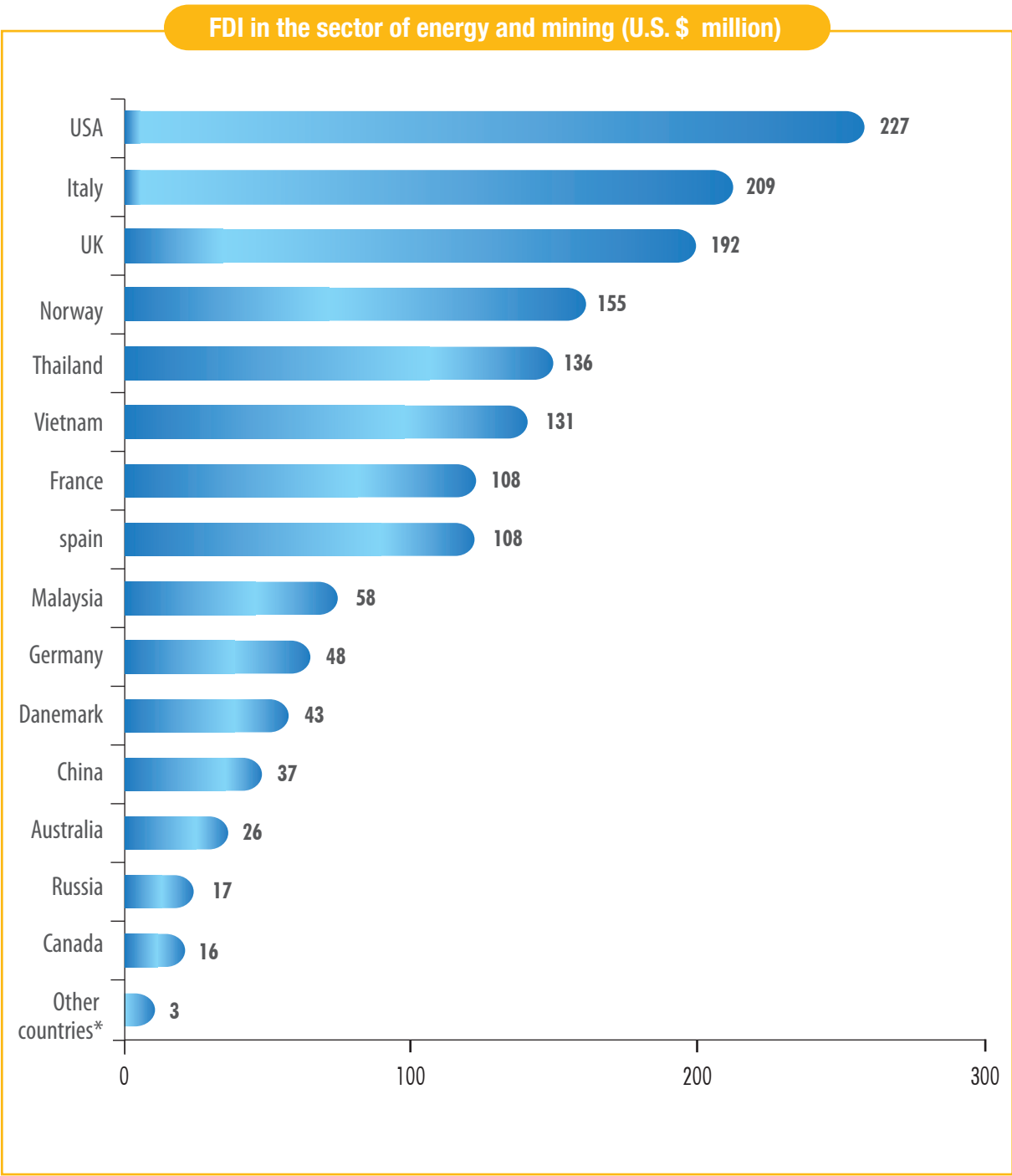
Europe continues to lead foreign investors with nearly 60% of the total FDI, as shown below.



B- FDI flows by country :

The distribution of foreign investment flows by country in 2013 shows that the United States of America is the largest investor with an amount of US \$ 227 million (15%), followed by Italy (14%), Great Britain (13%) and Norway (10%).

These four countries investors represent over 50% of total FDI in 2013. The average FDI per country is \$ 80 million.



Other countries* : (includ. UAE, Belgium, Portugal, Tunisia)



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- Un pionnier mondial dans l'industrie du GNL
- Un développement tourné vers l'international
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