#### **Chapter: 2001 Ministry of Energy and Mineral Resources**

#### Creation:

The Ministry of Energy and Mineral Resources was established lately in 1984 and entrusted with administering and organizing the energy sector under Ministry of Energy and Mineral Resources Organization and Administration Bylaw No.(26) for the year 1985 in a way that achieves the national objectives and responsible for the comprehensive planning of the sector in terms of organizing ,and setting the public policies and ensuring their implementation in a way that achieves to provide the energy needed for comprehensive sustainable development with the lowest possible cost and the best appropriate standards through the development and implementation of policies, legislation and programs.

Under government departments and institutions restructuring Bylaw No.(17) for the year (2014) clause c/1. The Natural Resources Authority has elapsed that it established under Natural Resources Affairs Organization Law No.(12) for the year 1968 ,the Authority's rights and assets passed to the Ministry of Energy and Mineral Resources except organizational tasks.

After the issuance of Energy and Minerals Regulatory Commission Law No.(8) of 2017 the Commission took functions and authorities concerning the granting of licenses and permits to persons working in the sector and some of the tasks related to that moved from the Ministry of Energy and Mineral Resources to the Commission to implement their.

Vision: Achieving of a secure sustainable supply of energy and optimal utilization of natural resources

Mission: Setting and developing the appropriate policies and legislations to achieve a secure sustainable supply of energy and the optimum utilization of natural resources according to the best

international practices.

Legal Framework: Provisions of Ministry Organization and Administration Bylaw No. (26) 1985

#### Tasks of the Ministry / Department:

Setting and developing the appropriate policies and legislations complies with international best practices to achieve a secure sustainable supply of energy and the optimum utilization of natural resources.

#### Ministry/Department Contribution to the Achievement of the National Objectives:

- Achieve the sustained growth rates to ensure a good standard of living for all citizens
- Create an attractive investment environment capable of attracting the foreign capital and encourage local investment.
- Maintain the financial and monetary stability, controlling the budget deficit and building an efficient and low-risk financial system.
- \_ Improve the level of services provided to the citizens and justice in the distribution.
- Reduce levels of poverty and unemployment and build an effective social protection system.
- Achieve the developmental balance between the governorates in light of applying the decentralization approach.
- \_ Build a generation able to creativity and innovation with high productivity.

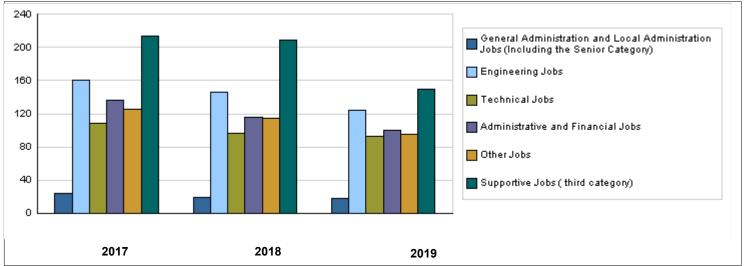
#### Major Issues and Challenges which face the Ministry / Department:

- \_ Lack of domestic commercial sources of energy and reliance on imports.
- \_ The annual high cost of importing energy
- \_ High growth rates in demand of energy due to population increase
- \_ The magnitude of the necessary investment size in energy industry and its facilities
- \_ Lack of investment size in the mining sector

# **CHAPTER: 2001 Ministry of Energy and Mineral Resources**

Strate	gio	Objectives and Performa	nce Ir	dicato	rs of th	e Minis	stry / De	partme	nt	
Strategic Objective		Doubourous la disease	Base	Value	Actual Value	Target Value	Preliminary Self Evaluation	Ta	arget Valu	е
Strategic Objective		Performance Indicator	year		2017	2018	2018	2019	2020	2021
1 - To maintain a secure	1	Percentage of securing supply of	2015	%100	%100	%100	%100	%100	%100	%100
supply of oil derivatives		petroleum products		0/ / 00	0/ / 00	0/ / 00	0,100		0/ 100	0/ / 00
2 - To maintain a secure supply of electricity power	1	Percentage of a secure supply of electricity energy	2015	%100	%100	%100	%100	%100	%100	%100
3 - To increase the contribution of natural gas in the total energy	1	Percentage of natural gas contribution to total energy mixture	2015	%22	%35	%36	%36	%36	%36	%36
mix	2	Percentage of natural gas contribution in Electricity generation	2015	%85	%87	%85	%85	%85	%85	%85
4 - To increase the contribution of renewable energy in the total energy	1	<u> </u>	2015	%2	%6	%8	%8	%8	%9	%10
mix	2	Percentage of renewable energy contribution in Electricity generation	2015	%1	%7	%11	%11	%15	%20	%20
5 - To rationalize the consumption of energy and improve its efficiency in all sectors by 20% by 2020	1	Percentage of energy rationalization and its efficiency improvement by referring to consumption of 2007	2015	%7.1	%10	%15	%15	%12	%13	%14
6 - To increase the investment in the mining sector	1	Number of implemnted excavation projects in the mining sector.	2015	2	5	7	7	8	9	10
7 - To observe and	1		2015	1	4	2	2	8	9	10
analysis of the Earthquake information	2	Number of stations updated with information transfer mean	2015	13	17	19	19	20	21	23
8 - To enhance the relations and international cooperation	1	Number of signed memorandums of understanding and cooperation protocols	2015	7	14	15	15	20	21	23
9 - To promote the efficiency of institutional performance	1	satisfaction	2015	%83	%88	%93	%93	%93	%94	%95
10 - To develop, motivate and build the capacities of human resources	1	Percentage of employees' satisfaction	2015	%73	%82	%81	%81	%83	%84	%85
11 - To achieve the efficient financial performance	1	budget performance of current expenditures	2015	%96	%93	%96	%96	%96	%96	%96
	2	Preserve the percentage of budget performance of capital expenditures	2015	%95	%80	%85	%85	%85	%85	%85

	Number of Staff	of the	Ministr	y / Dep	artme	nt				
Group	Job		2017			2018		Pr	Preliminary 2019	
		Male	Female	Total	Male	Female	Total	Male	Female	Total
General Administration and Local Administration Jobs (Including the Senior Category)	Supervisory and Leadership jobs	18	6	24	15	4	19	14	4	18
Engineering Jobs	Engineer	105	56	161	96	50	146	89	35	124
Technical Jobs	Technical jobs (Programmer, Researcher,)	80	29	109	75	22	97	71	22	93
Administrative and Financial Jobs	Administrative and Financial jobs	92	44	136	88	28	116	80	20	100
Other Jobs	Other jobs	95	30	125	89	25	114	81	14	95
Supportive Jobs ( third category)	Supportive employee (Driver, Office Boy,)	189	25	214	186	23	209	130	20	150
	Total	579	190	769	549	152	701	465	115	580
	Total Cost of Salaries	3532886	1159323	4692209	3618231	1001769	4620000	3762491	930509	4693000



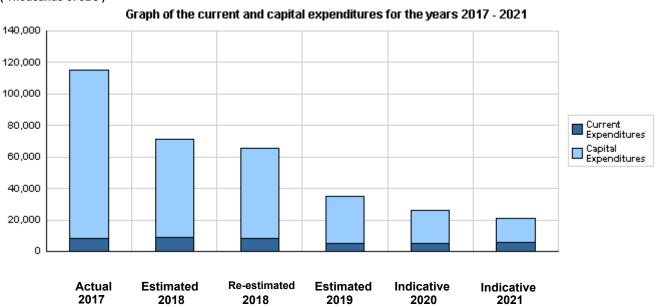
	Key Information of the Ministry / Department											
No.	Description	2015	2016	2017	2018	2019						
1	Number of oil companies working in the oil sector	6	12	12	12	12						
2	Contribution of wind energy to the energy mix/ a percentage	1.125	5	5	5	5						
3	Number of cumulative programs in energy conservation and improving efficiency	3	8	10	10	10						
4	Increased spread of solar water heaters for domestic purposes/ a percentage	12	12.5	15	15	15						

# Overall Summary of Expenditures for Chapter 2001- Ministry of Energy and Mineral Resources for the Years 2017 - 2021

(In JDs)

		Actual	Estimated	Re-estimated	Estimated	Indi	icative
	Description	2017	2018	2018	2019	2020	2021
Group		Current E	xpenditures		1	1	
2111	Salaries, Wages and Allowances	4,249,519	4,500,000	4,180,000	4,247,000	4,300,000	4,354,000
2121	Social Security Contributions	442,690	440,000	440,000	446,000	456,000	466,000
2211	Use of Goods and Services	401,718	450,000	405,000	527,000	568,000	568,000
2631	Support to General Government Units	3,293,000	3,375,000	3,024,000	0	0	0
2821	Other Current Expenditures	13,261	20,000	18,000	18,000	18,000	18,000
	Total current expenditures	8,400,188	8,785,000	8,067,000	5,238,000	5,342,000	5,406,000
		Capital E	xpenditures				
2111	Salaries, Wages and Allowances	12,480	0	0	0	0	0
2211	Use of Goods and Services	979,356	1,797,000	1,012,000	1,125,000	1,125,000	1,125,000
2511	Subsidies to Public Corporations	235,968	300,000	0	50,000	50,000	50,000
2632	Subsidy to General Government Units/ Capital	7,155,000	3,600,000	3,054,000	0	0	0
2822	Other Capital Expenditures	12,430,711	12,960,000	12,230,000	8,290,000	3,370,000	2,370,000
3111	Buildings and Constructions	25,626,925	8,360,000	7,960,000	6,130,000	5,330,000	830,000
3112	Devices, Machinery and Equipment	58,927,403	32,503,000	31,698,000	10,895,000	4,585,000	2,585,000
3122	Inventories	44,657	60,000	50,000	60,000	60,000	60,000
3141	Lands	1,242,308	3,150,000	1,400,000	3,250,000	5,930,000	8,430,000
	Total capital expenditures	106,654,808	62,730,000	57,404,000	29,800,000	20,450,000	15,450,000
	Treasury	106,654,808	62,730,000	57,404,000	29,800,000	20,450,000	15,450,000
	Total current and capital expenditures	115,054,996	71,515,000	65,471,000	35,038,000	25,792,000	20,856,000

#### (Thousands of JDs)

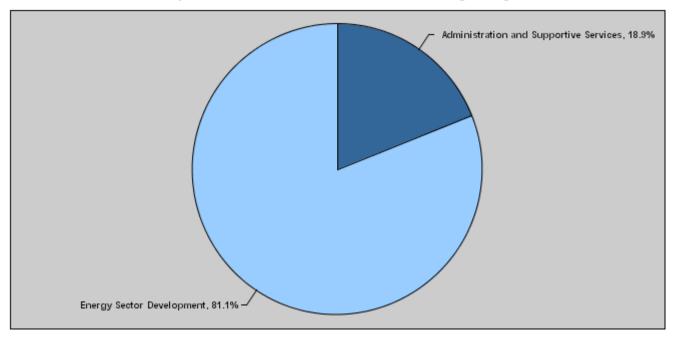


# Budget of Chapter 2001 - Ministry of Energy and Mineral Resources For the Year 2019 Distributed According to Program

(In JDs)

Prog.	Description	Current Expenditures	Capital Expenditures	Total Expenditures
3501	Administration and Supportive Services	5,238,000	1,400,000	6,638,000
3505	Energy Sector Development	0	28,400,000	28,400,000
	Total	5,238,000	29,800,000	35,038,000

#### Total Expenditures for the Year 2019 Distributed According to Programs



Estimated Allocations for Females distributed according to Programs for the Years 2017 - 2021

	Program	2017	2018	2019	2020	2021
3501	Administration and Supportive Services	1276797	1109460	1047600	1068400	1081200
3505	Energy Sector Development	823250	756000	0	0	0
	Total	2100047	1865460	1047600	1068400	1081200

#### 3501 Administration and Supportive Services Program

#### Objective of the program:

- Improve the administrative capacities of all administrative units in the Ministry.
- Improve the management of the programs and projects implemented by Ministry.

#### The strategic objective related to the program :

- 1- Enhance the international relations and cooperation.
- 2- Promote the efficiency of institutional performance.
- 3- Develop, motivate and build the capacities of human resources.
- 4- Achieve the efficient financial performance.

#### Directorates associated with the program:

- #- Planning and International Cooperation Directorate
- Financial Affairs Directorate
- Human Resources Directorate
- Internal Control Unit
- Public Relations Unit
- Information Technology Directorate
- Legal Affairs Unit
- Administrative Services Directorate
- Follow-up Unit
- Institutional Work Development Unit
- Projects Management Unit
- Statistics and Information Unit

#### Services provided by the program:

- Provide the various activities support of the Ministry.
- Provide the administrative infrastructure such as the computerization of the Ministry's works.
- Provide transport means for employees and projects.
- Provide different equipment and furniture.
- Allocate financial appropriations for all the Ministry projects.
- Archive the works of the Ministry.
- Follow up the mail of the Ministry and receive the official delegates.
- Provide required legal services and consultations.

#### Staff working in the program:

The program is implemented through a functional staff in 2018 estimated with ( 343 ) staff, including ( 225 ) males and ( 118 ) females .

	Performance M	easur	ement Ir	ndicators	for Progr	am			
	Performance Measurement Indicator	Base	Value	Actual value	Target Value	Preliminary Self Evaluation	•	Target Va	lue
		Year		2017	2018	2018	2019	2020	2021
1	Percentage of service recipients' satisfaction	2015	%83	%88	%93	%93	%93	%94	%95
2	Percentage of partners' satisfaction	2015	%81	%83	%83	%83	%86	%87	%88
3	Keeping the percentage of budget performance of current expenditures	2015	%96	%93	%96	%96	%96	%96	%96
4	Keeping the percentage of budget performance of capital expenditures	2015	%95	%80	%85	%85	%85	%85	%85
5	Number of electronic services	2015	1	9	12	12	12	14	16
6	Percentage of staff satisfaction	2015	%73	%82	%81	%81	%83	%84	%85
7	Average of number of training hours per employee	2015	16	24	28	28	28	30	32

	Appropriations Of Administ	ration and Supp	portive Services	s Program as P	er Activities an	ia Projects.	(111 303 )
		Actual	Estimated	Re-estimated	Estimated	Indic	cative
	Activities and Projects	2017	2018	2018	2019	2020	2021
Current	Expenditures	5,107,188	5,410,000	5,043,000	5,238,000	5,342,000	5,406,000
601	Administrative and Support Services	5,107,188	5,410,000	5,043,000	5,238,000	5,342,000	5,406,000
Capital I	Expenditures	1,017,650	2,225,000	1,290,000	1,400,000	1,400,000	1,400,000
001	Institutional Capacities Enhancement Project	1,017,650	2,125,000	1,240,000	1,400,000	1,400,000	1,400,000
002	E-Government/ Smart Project	0	100,000	50,000	0	0	0
	Program / Treasury	1,017,650	2,225,000	1,290,000	1,400,000	1,400,000	1,400,000
	Total Program	6,124,838	7,635,000	6,333,000	6,638,000	6,742,000	6,806,000

Appropriations Of Administration and Supportive Services Program, as Per Activities and Projects

#### 3505 Energy Sector Development Program

#### Objective of the program:

- Achieve a secure sustainable supply of energy.
- Study the economic and investment feasibility of projects.
- Expropriate lands, purchase equipment for the required projects to achieve the strategic objectives of the Ministry.

#### The strategic objective related to the program:

- 1- Maintain a secure supply of oil derivations.
- 2- Maintain a secure supply of electricity power.
- 3- Increase the contribution of natural gas in the total energy mix.
- 4- Increase the contribution of renewable energy in the total energy mix.
- 5- Rationalize the consumption of energy and improve its efficiency in all sectors by 20 percent by 2020.
- 6- Increase the investment in the mining sector.
- 7- Observe and analysis the earthquake information.

#### Directorates associated with the program:

- Rural Electricity Directorate
- Petroleum and Derivatives Directorate
- Renewable Energy Directorate
- Natural Gas Directorate
- Petroleum and Oil Shale Directorate
- Laboratories and Quality Control Directorate
- Geology Directorate
- Renewable Energy and Energy Efficiency Promotion Fund
- Projects Management Unit
- Electricity Directorate

#### Services provided by the program:

- Achieve the security of energy supply.
- Diversify energy sources and forms.
- Liberalize energy markets.
- Develop and exploit the traditional and renewable local energy sources, oil shale and uranium.
- Create opportunities for the private sector and encourage it to invest in the infrastructure projects.
- Enhance regional linkage projects for energy and rationalize consumption.

#### Staff working in the program:

The program is implemented through a functional staff in 2018 estimated with ( 358 ) staff, including ( 324 ) males and ( 34 ) females .

	Performance M	easur	ement Ir	dicators	for Progr	am			
	Performance Measurement Indicator	Base	Value	Actual value	Target Value	Preliminary Self Evaluation	•	Target Va	lue
		Year		2017	2018	2018	2019	2020	2021
1	Percentage of a secure supply of petroleum products	2015	%100	%100	%100	%100	%100	%100	%100
2	Percentage of a secure supply of electricity energy	2015	%100	%100	%100	%100	%100	%100	%100
3	Percentage of natural gas contribution to total energy mix	2015	%22	%35	%36	%36	%36	%36	%36
4	Percentage of natural gas contribution in Electricity generation	2015	%85	%87	%85	%85	%85	%85	%85
5	Percentage of renewable energy contribution to total energy mixture	2015	%2	%6	%8	%8	%8	%9	%10
6	Percentage of renewable energy contribution in Electricity generation	2015	%1	%7	%11	%11	%15	%20	%20
7	Percentage of energy rationalization and its efficiency improvement by referring to consumption of 2007	2015	%7.1	%10	%15	%15	%12	%13	%14
8	Number of implemented excavation projects in mining sector	2015	2	5	7	7	8	9	10
9	Number of new stations	2015	1	4	2	2	8	9	10
10	Numbers of stations updated with information transfer mean	2015	13	17	19	19	20	21	23

	Appropriations Of Ene	rgy Sector Dev	elopment Prog	ram as Per Act	ivities and Proj	ects.	(In JDs)
		Actual	Estimated	Re-estimated	Estimated	Indi	cative
	Activities and Projects	2017	2018	2018	2019	2020	2021
Current	Expenditures	3,293,000	3,375,000	3,024,000	0	0	0
601	Energy sector management	3,293,000	3,375,000	3,024,000	0	0	0
Capital E	Expenditures	105,637,158	60,505,000	56,114,000	28,400,000	19,050,000	14,050,000
002	Encouraging the establishment Natural Gas Distribution Network in many cities in the Kingdom/ Expropriation	242,942	1,000,000	500,000	400,000	1,000,000	1,000,000
800	Establishing Energy Efficiency Fund	235,968	300,000	0	50,000	50,000	50,000
010	Supporting the Atomic Energy Commission projects	7,155,000	3,600,000	3,054,000	0	0	0
014	Exploiting wind energy for electricity generation (Fajij)	999,366	1,250,000	800,000	200,000	0	0
021	Thermal solar energy to generate electricity (CSP) / European grant	0	0	0	100,000	0	0

**Budget Chapter 2001 - Ministry of Energy and Mineral Resources Distributed According to the Program** 

	Appropriations Of Ene	rgy Sector De	velopment Prog	ram as Per Act	ivities and Pro	ojects.	( In J
		Actual	Estimated	Re-estimated	Estimated	Ind	licative
	Activities and Projects	2017	2018	2018	2019	2020	2021
nital F	Expenditures	105,637,158	60,505,000	56,114,000	28,400,000	19,050,000	14,050,000
022	Promoting the use of solar heaters	50,000	0	0	50,000	50,000	50,000
	in cooperation with the National Center for Research and Development / European grant	50,000			50,000	50,000	50,000
023	Establishing Customer Service Office/ European grant	24,576	50,000	50,000	50,000	50,000	50,000
024	Rationalize energy use in cooperation with the National Center for Research and Development/ European grant	0	30,000	0	50,000	50,000	50,000
025	Building and equipping Liquefied Natural Gas Terminal/ Agaba	363	230,000	180,000	1,200,000	0	0
027	Jordanian nuclear power planet	9,125,000	5,000,000	5,000,000	2,800,000	0	0
029	Facilities for storing petroleum derivatives	15,343,163	11,230,000	11,230,000	7,500,000	7,500,000	0
031	Jordanian- Iraqi Oil Pipeline	0	100,000	100,000	300,000	2,000,000	2,500,000
033	Evaluate the direct tenders of renewable energy projects/ European grant.		1,070,000	900,000	600,000	1,000,000	1,000,000
035	Renewable energy projects for electricity generation- wind energy/ Maan	23,547,710	20,000	20,000	0	0	0
036	Renewable energy projects for electricity generation - solar energy/ Aqaba	44,477,758	30,430,000	30,430,000	6,600,000	0	0
037	Implementing energy auditing studies for institutions / European grant	0	200,000	200,000	200,000	200,000	200,000
039	Expanding electricity generation project using the solar cells in Azraq	0	490,000	100,000	2,000,000	1,500,000	1,500,000
046	Modernizing Jordan Seismological Observatory	64,134	100,000	100,000	100,000	100,000	100,000
047	Oil Shale Exploration	180,460	10,000	10,000	20,000	0	0
048	Exploration for minerals resources	0	200,000	50,000	100,000	100,000	100,000
049	Petroleum Exploration through marketing explorative areas	0	500,000	200,000	200,000	200,000	200,000
050	Solar cells for homes/ European grant	63,675	375,000	200,000	500,000	500,000	500,000
051	Solar heaters for homes/ European	573,313	1,500,000	1,200,000	800,000	850,000	850,000
052	Seismic and geological surveys	0	300,000	100,000	100,000	100,000	100,000
054	Executing the National Plan for Energy Efficiency / European grant	0	20,000	0	50,000	50,000	50,000
055 057	Executing the natural gas line / Sheikh Hussein Crossing Building a solar energy planet to	0	900,000	100,000	2,500,000	3,230,000	5,230,000
057	Synchrotron Light accelerator with size (6) Megawatts / Europe grant	3,360,000	1,000,000	1,000,000	510,000	0	0
058	Houses roofs insulation / European	0	10,000	0	0	0	0
059	Solar cells of mosques / European grant	0	570,000	570,000	500,000	500,000	500,000
060	Geo-chemical and Geo-physical studies	0	20,000	20,000	20,000	20,000	20,000
061	The extenstion of electricity generation project using the solar cells in Azraq / with (1) megawatt capacity	0	0	0	900,000	0	0
	Program / Treasury	105,637,158	60,505,000	56,114,000	28,400,000	19,050,000	14,050,000
	Total Program	108,930,158	63,880,000	59,138,000	28,400,000	19,050,000	14,050,000

# **Chapter: 2001 Ministry of Energy and Mineral Resources**

Curre	nt Act	ivities Appropriations According to Pro	gram				,	,
			Actual	Estimated	Re-estimated	Estimated	Indicative	Indicative
Prog.		Activites	2017	2018	2018	2019	2020	2021
3505	601	Energy sector management	3293000	3375000	3024000	0	0	0
		Total of Program	3293000	3375000	3024000	0	0	0
3501	601	Administrative and Support Services	5107188	5410000	5043000	5238000	5342000	5406000
		Total of Program	5107188	5410000	5043000	5238000	5342000	5406000
		Total	8400188	8785000	8067000	5238000	5342000	5406000

			Total	8400188	8785000	8067000	5238000	5342000	5406000
Projects   Projects   2017   2018   2018   2019   2020   2021   3805   002   Encouraging the establishment Natural Gas   24242   1000000   500000   400000   1000000   1000000   1000000   000000   000000   000000   000000	Capita	al Pro	jects Appropriations According to Prog	ram					
1000			· · · ·	Actual	Estimated	Re-estimated	Estimated	Indicative	Indicative
Distribution Network in many cities in the Kingdom/ Expropriation   008   Establishing Energy Efficiency Fund   235968   300000   300000   50000   50000   50000   50000   010   0	Prog.		Projects	2017	2018	2018	2019	2020	2021
008	3505	002	Distribution Network in many cities in the Kingdom/	242942	1000000	500000	400000	1000000	1000000
14		800		235968	300000	0	50000	50000	50000
(Fajij)	·	010	Supporting the Atomic Energy Commission projects	7155000	3600000	3054000	0	0	0
European grant			(Fajij)		1250000	800000		0	0
0.22   Promoting the use of solar heaters in cooperation with the National Centre for Research and Development / European grant   24576   500000   50000   50000   500000   50000   50000   50000   50000   50000   50000   50000   50000		021		0	0	0	100000	0	0
023   Establishing Customer Service Office/ European grant   024   Rationalize energy use in cooperation with the National Center for Research and Development/ European grant   025   Building and equipping Liquefied Natural Gas   120000   120000   120000   0   0   0   0   0   0   0   0		022	Promoting the use of solar heaters in cooperation with the National Center for Research and	50000	0	0	50000	50000	50000
024   Rationalize energy use in cooperation with the National Center for Research and Development/ European grant   025   Suiding and equipping Liquefied Natural Gas Torminal/ Aqaba   027   Jordanian nuclear power planet   9125000   5000000   5000000   0   0   0   0		023	Establishing Customer Service Office/ European	24576	50000	50000	50000	50000	50000
National Center for Research and Development/ European grant		004		^	20000	0	E0000	E0000	E0000
Terminal Aqaba		024	National Center for Research and Development/	U	30000	U	50000	50000	50000
123   123000   123000   750000   750000   750000   0   0   0   0   0   0   0   0			Terminal/ Aqaba						
031   Jordanian- Iraqi Oii Pipeline   0   100000   100000   300000   2000000   2500000   2500000   033   Evaluate the direct tenders of renewable energy   193730   1070000   900000   600000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000	-								
033									ľ
Description				_					
Separation-wind energy/ Maan			projects/ European grant.						
036		035		2354//10	20000	20000	U	0	O
Institutions / European grant   Sexpanding electricity generation project using the solar cells in Azraq   O46   Modernizing Jordan Seismological Observatory   S4134   100000   100000   100000   100000   100000   100000   000000		036	Renewable energy projects for electricity generation - solar energy/ Aqaba	44477758	30430000	30430000	6600000	0	0
Solar cells in Azraq   O46   Modernizing Jordan Seismological Observatory   64134   100000   100000   100000   100000   100000   047   Oil Shale Exploration   180460   10000   100000   20000   0   0   0   0   0   0			institutions / European grant						
O47   Oil Shale Exploration   180460   10000   10000   20000   0   0			solar cells in Azraq						
048									
049   Petroleum Exploration through marketing explorative areas   050   Solar cells for homes/ European grant   63675   375000   200000   5000000   500000   500000   5000000   500000   500000   500000   500000000		047	1	180460					
explorative areas		048	Exploration for minerals resources	0	200000				
051   Solar heaters for homes/ European grant   573313   1500000   1200000   800000   850000   850000		049	explorative areas						
052   Seismic and geological surveys   0   300000   100000   100000   100000   100000   100000   054   Executing the National Plan for Energy Efficiency / 0   20000   0   50000   50000   50000   50000   European grant   0   50000   50000   50000   50000   500000									
054 Executing the National Plan for Energy Efficiency / European grant 055 Executing the natural gas line / Sheikh Hussein 056 Crossing 057 Building a solar energy planet to generate electricity 3360000 100000 510000 0 0 0 0 0 0 0 0 0 0 0			' '						
European grant  055 Executing the natural gas line / Sheikh Hussein 0 900000 100000 2500000 3230000 5230000  Crossing  057 Building a solar energy planet to generate electricity 3360000 1000000 1000000 510000 0 0  for the Synchrotron Light accelerator with size (6) Megawatts / Europe grant  058 Houses roofs insulation / European grant 0 10000 0 0 0 0  059 Solar cells of mosques / European grant 0 570000 570000 500000 500000 500000  060 Geo-chemical and Geo-physical studies 0 20000 20000 20000 20000 20000  061 The extenstion of electricity generation project using the solar cells in Azraq / with (1) megawatt capacity			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Crossing  057 Building a solar energy planet to generate electricity 3360000 1000000 510000 0 0 0 0 for the Synchrotron Light accelerator with size (6) Megawatts / Europe grant  058 Houses roofs insulation / European grant 0 10000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			European grant						
for the Synchrotron Light accelerator with size (6) Megawatts / Europe grant  058 Houses roofs insulation / European grant  0 570000 0 0 0 0  059 Solar cells of mosques / European grant  0 570000 570000 500000 500000  060 Geo-chemical and Geo-physical studies  0 20000 20000 20000 20000 20000  061 The extenstion of electricity generation project using the solar cells in Azraq / with (1) megawatt capacity			Crossing						
O59 Solar cells of mosques / European grant 0 570000 570000 500000 500000 500000  Geo-chemical and Geo-physical studies 0 20000 20000 20000 20000 20000  The extenstion of electricity generation project using the solar cells in Azraq / with (1) megawatt capacity			for the Synchrotron Light accelerator with size (6) Megawatts / Europe grant						
060 Geo-chemical and Geo-physical studies 0 20000 20000 20000 20000 20000  061 The extenstion of electricity generation project using the solar cells in Azraq / with (1) megawatt capacity 0 0 900000 0 0		058	, ,	0		•		-	
061 The extenstion of electricity generation project 0 using the solar cells in Azraq / with (1) megawatt capacity		059	Solar cells of mosques / European grant	0	570000	570000	500000	500000	500000
using the solar cells in Azraq / with (1) megawatt capacity		060	Geo-chemical and Geo-physical studies	0	20000	20000	20000	20000	20000
		061	using the solar cells in Azraq / with (1) megawatt	0	0	0	900000	0	0
				105637158	60505000	56114000	28400000	19050000	14050000

Capital Projects Appropriations According to Program											
			Actual	Estimated	Re-estimated	Estimated	Indicative	Indicative			
Prog.		Projects	2017	2018	2018	2019	2020	2021			
3501	001	Institutional Capacities Enhancement Project	1017650	2125000	1240000	1400000	1400000	1400000			
	002	E-Government/ Smart Project	0	100000	50000	0	0	0			
		Total of Program	1017650	2225000	1290000	1400000	1400000	1400000			
		Total	106654808	62730000	57404000	29800000	20450000	15450000			

# Overall Summary of Current Expenditures for the Years 2017 - 2021

Chapter: 2001 Ministry of Energy and Mineral Resources

		2001 Ministry of Energy and						( In JD
Group	Item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
21		Compensations of Employees						
2111		Salaries, Wages and Allowances						
	101	Classified Employees	250868	240000	230000	210000	205000	200000
	102	Unclassified Employees	1087263	1 1 1 1 1	970000	956000	971000	987000
	103	Comprehensive Contract Employees	68220		72000	75000	77000	80000
	105	Personal Cost of Living Allowance	822618		825000	831000	843000	856000
	106	Family Cost of Living Allowance	89925		82000	85000	87000	89000
	110	Overtime Allowance	118217		120000	140000	140000	140000
	111	Additional Allowance	1044646		1000000	981000	996000	1006000
	113	Transportation Allowance	164731		160000	170000	175000	180000
	114	Transport Allowance	55136		50000	56000	57000	58000
	115	Field Visit Allowance	23721		21000	25000	26000	27000
		Employees' Bonuses	477264		550000	555000	555000	555000
	116	Contract Employees						
	120	, ,	46910		100000	163000	168000	176000
		Total	4249519	4500000	4180000	4247000	4300000	4354000
121		Social Security Contributions						
	301	Social Security	442690	440000	440000	446000	456000	466000
		Total	442690	440000	440000	446000	456000	466000
22		Use of Goods and Services						
211								
211		Use of Goods and Services						
	201	Rents	560		0	0	0	0
	202	Telecommunications Services	13358	19000	16000	12000	15000	15000
	203	Water	3885	1 1 1 1	8000	8000	6000	6000
	204	Electricity	75345		68000	70000	70000	70000
	205	Fuels	78500	86000	71000	71000	71000	71000
	206	Maintenance of Machines, furniture and accessories	9974		7000	7000	7000	7000
		Maintenance of vehicles, equipment and accessories	29816		25000	25000	25000	25000
	208	Repair and maintenance of buildings and accessories	8161	5000	5000	7000	7000	7000
	209	Stationery, Publications and Office Supplies	10997	20000	17000	10000	15000	15000
	210	Substances and raw materials (medicines, clothes, food, films, etc)	2958	3000	3000	0	0	0
	211	Cleaning services and supplies including cleaning contracts	38394	40000	40000	98000	98000	98000
	212	Insurance	33588	40000	40000	40000	40000	40000
	213	Official Travel Missions	66187	75000	75000	70000	65000	65000
	214	Goods and services expenses	29995	30000	30000	109000	149000	149000
		Total	401718	450000	405000	527000	568000	568000
26		Subsidy / Grants						
631		Support to General Government Units		1				
	313	Support to general government units/curren	3303000	3375000	3024000	0	0	0
	313	·· · · · · · · · · · · · · · · · · · ·					-	
			3293000	3375000	3024000	0	0	0
28		Other Expenditures						
		Other Current Expenditures						
2821			4276	7000	7000	7000	7000	7000
2821	302	Contributions	4210					
821	302 303	Contributions  Scientific scholarships and training courses			8000	8000	8000	8000
821				8000	8000 3000	8000 3000	8000 3000	8000 3000
2821	303	Scientific scholarships and training courses Non-Employees' Bonuses	6185	8000 5000				

### Current Expenditures According to Program and Activities for the Years 2017 - 2021

Chapter : 2001 - Ministry of Energy and Mineral Resources

		3501 - Administration and Suppor						
Activi	ty :		ort Servic	_	1 =			
Group	Item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicativ 2021
21		Compensations of Employees						
2111		Salaries, Wages and Allowances						
	101		250868	240000	230000	210000	205000	200000
	102	Unclassified Employees	1087263				971000	987000
	103	Comprehensive Contract Employees	68220				77000	80000
	105	Personal Cost of Living Allowance	822618			831000	843000	856000
	106	Family Cost of Living Allowance	89925			85000	87000	89000
	110	Overtime Allowance	118217	150000	120000	140000	140000	140000
	111	Additional Allowance	1044646		1000000	981000	996000	1006000
	113	Transportation Allowance	164731	195000	160000	170000	175000	180000
	114	Transport Allowance	55136	60000		56000	57000	58000
	115	Field Visit Allowance	23721	30000	21000	25000	26000	27000
	116		477264				555000	555000
	120	Contract Employees	46910	120000	100000	163000	168000	176000
		Total	4249519	4500000	4180000	4247000	4300000	4354000
2121		Social Security Contributions						
	301	Social Security	442690	440000	440000	446000	456000	466000
		Total	442690	440000	440000	446000	456000	466000
22		Use of Goods and Services						
2211		Use of Goods and Services						
	201	Rents	560	0	0	0	0	0
	202	Telecommunications Services	13358	19000	16000	12000	15000	15000
	203	Water	3885	10000	8000	8000	6000	6000
	204	-	75345				70000	70000
	205		78500				71000	71000
			20000	20000	19000	19000	19000	19000
		002 Saloon vehicles	20000	20000	17000	17000	17000	17000
		003 Transport vehicles and heavy equipment	38500	46000	35000	35000	35000	35000
		Maintenance of Machines, furniture and accessories	9974		7000	7000	7000	7000
		Maintenance of vehicles, equipment and accessories	29816				25000	25000
	208	accessories	8161	5000	5000	7000	7000	7000
	209	Stationery, Publications and Office Supplies	\$10997			10000	15000	15000
	210		2958	3000	3000	0	0	0
	211	clothes, food, films, etc) Cleaning services and supplies including cleaning contracts	38394	40000	40000	98000	98000	98000
	212	Insurance	33588	40000	40000	40000	40000	40000
	213	Official Travel Missions	66187			70000	65000	65000
	214		29995	30000	30000	109000	149000	149000
		000 Goods and services expenses	29995	30000	30000	0	0	0
		001 Events and hospitality	0	0	0	10000	15000	15000
		013 Services, security and guarding contracts	0	0	0	99000	134000	134000
		Total	401718	450000	405000	527000	568000	568000
28		Other Expenditures						
2821		Other Current Expenditures						
	302	Contributions	4276	7000	7000	7000	7000	7000
	303	Scientific scholarships and training course					8000	8000
	305	Non-Employees' Bonuses	2800		3000		3000	3000
		Total	13261	20000		18000	18000	18000
		Total of Activity	5107188	5410000	5043000	5238000	5342000	5406000
		Total of Program	5107188	5410000	5043000	5238000	5342000	5406000

### Current Expenditures According to Program and Activities for the Years 2017 - 2021

Chapter : 2001 - Ministry of Energy and Mineral Resources (In JDs)

•			, ,,						(111 003)
Progra	am :	350	5 - Energy Sector Developme	nt					,
Activi	ty :		601 - Energy sector manager	nent					
Group	Item		Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
26		Sub	sidy / Grants						
2631	Support to General Government Units  Support to general government units/current								
			3293000	3375000	3024000	0	0	0	
		017	Atomic Energy Commission	3293000	3375000	3024000	0	0	0
			Total	3293000	3375000	3024000	0	0	0
			Total of Activity	3293000	3375000	3024000	0	0	0
			Total of Program	3293000	3375000	3024000	0	0	0
			Total of Chapter	8400188	8785000	8067000	5238000	5342000	5406000

# Overall Summary of Capital Expenditures for the Years 2017 - 2021

Group	Item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
		Expenditures						
21		Compensations of Employees						
2111		Salaries, Wages and Allowances						
	501	Salaries	10363	0	0	0	0	0
	502	Wages	2117	0	0	0	0	0
		Total	12480	D	0	0	0	0
22		Use of Goods and Services						
2211		Use of Goods and Services						
	510	Buildings and facilities repair and maintenance	0	500000	30000	0	0	0
	512	Operating and Sustaining Expenditures	979356	1297000	982000	1125000	1125000	1125000
		Total	979356	1797000	1012000	1125000	1125000	1125000
25		Subsidies						
2511		Subsidies to Public Corporations						
	520	Subsidies to non-financial public corporations/	235968	300000	0	50000	50000	50000
		capital Total	235968	300000	0	50000	50000	50000
00		Subsidy / Grants	233300	500000	0	50000	50000	50000
26 2632		Subsidy to General Government Units/ Capital						
2032	500	'	74 55000	200000	2054000	0	•	•
	509	, , , , , , , , , , , , , , , , , , , ,	7155000	3600000	3054000	0	0	0
			7155000	3600000	3054000	0	0	0
28		Other Expenditures						
2822		Other Capital Expenditures						
	504		12430711	12960000	12230000	8290000	3370000	2370000
		Total	12430711	12960000	12230000	8290000	3370000	2370000
		Fixed Assets						
31		Non-financial Assets						
3111		Buildings and Constructions						
	508	Works and Constructions	25626925	8360000	7960000	6130000	5330000	830000
		Total	25626925	8360000	7960000	6130000	5330000	830000
3112		Devices, Machinery and Equipment						
	505	Equipment, Machines and Devices	58927403	32503000	31698000	10895000	4585000	2585000
		Total	58927403	32503000	31698000	10895000	4585000	2585000
3122		Inventories						
	503	Materials and supplies	44657	60000	50000	60000	60000	60000
		Total	44657	60000	50000	60000	60000	60000
3141		Lands						
	507		1242308	3150000	1400000	3250000	5930000	8430000
			1242308	3150000	1400000	3250000	5930000	8430000

Chapter: 2001 Ministry of Energy and Mineral Resources

	•	: 2001 Ministry of Energy and Mine ■ 3501 Administration and Support		irces				( In JDs
	oject		ent Project					
Fund	Sourc	ce102001 Capital (Treasury)						
Group	item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
21		Compensations of Employees						
2111		Salaries, Wages and Allowances						
	501	Salaries					_	
	001	Salaries	10363		0	0		0
		Total of Item	10363	0	0	0	0	0
	502	Wages						
	001	Wages	2117	0	0	0	0	0
		Total of Item	2117	0	0	0	0	0
22		Use of Goods and Services						
2211		Use of Goods and Services						
	510	Buildings and facilities repair and maintenance						
	800	Buildings and facilities maintenance	0	500000	30000	0	0	0
		Total of Item	0	500000	30000	0	0	0
	512	Operating and Sustaining Expenditures						
	800	Qualifying and training expenses	65655	85000	60000	80000	80000	80000
	012	Subscriptions, insurances	19751	20000	20000	20000	20000	20000
	015	Operating systems and software	18106	20000	15000	15000	15000	15000
	017	Promotion, advertising and awareness	14954	20000	20000	30000	30000	30000
-	021	Printing house	86531	95000	95000	100000	100000	100000
	035	Technical and administrative support	649397	700000	600000	600000	600000	600000
	108	Allowance for services of organizing oil	80295	90000	70000	90000	90000	90000
	132	derivatives distribution sector  Services charges on examinations of chemical,	0	150000	35000	145000	145000	145000
		physical, environmental and digital maps						
		Total of Item	934689	1180000	915000	1080000	1080000	1080000
31		Non-financial Assets						
3111		Buildings and Constructions						
	508	Works and Constructions	-					
	013	Buildings construction	0	10000	10000	10000	10000	10000
		Total of Item	0	10000	10000	10000	10000	10000
3112		Devices, Machinery and Equipment						
	505	Equipment, Machines and Devices						
	001	Computers and accessories	3142		30000	30000		30000
	003	Office supplies and equipment	0	10000	10000	10000		10000
	006	Public safety devices and equipment	8912	25000	15000	15000		15000
	009	Laboratories and Measurement Devices	3770		150000	150000		150000
	045	Geological devices	10000	25000	20000	20000		20000
	068	Solar cells generating the electric energy	0	60000	10000	25000	25000	25000
		Total of Item	25824	375000	235000	250000	250000	250000
3122		Inventories						
	503	Materials and supplies						
	006	Laboratories supplies and materials	28086	30000	30000	35000	35000	35000
	019	Spare parts supplies	16571	30000	20000	25000	25000	25000
		Total of Item	44657	60000	50000	60000	60000	60000
		Total of Project / Treasury	1017650	2125000	1240000	1400000	1400000	1400000

**Chapter: 2001 Ministry of Energy and Mineral Resources** 

(In JDs)
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Pro	Program 3501 Administration and Support Services										
Pr	oject	002 E-Go	vernment/ Smart Project								
Fund :	Sourc	e102001	Capital (Treasury)								
Group	item		Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021		
22		Use of Goods	and Services								
2211		Use of Goods	and Services								
	512	Operating and	Sustaining Expenditures								
	015	Operating sys	tems and software	0	100000	50000	0	0	0		
			Total of Item	0	100000	50000	0	0	0		
		-	Total of Project / Treasury	0	100000	50000	0	0	0		
	Total of Program 1017650 2225000 1290000 1400000 1400000 1400000										

Chapter: 2001 Ministry of Energy and Mineral Resources (In JDs) **Program 3505 Energy Sector Development** 002 Encouraging the establishment Natural Gas Distribution Network in many cities in the Kingdom/ Project Expropriation Fund Source 102001 Capital (Treasury) Estimated Re-estimated Estimated Indicative Description Indicative Actual Group 2018 2019 2020 2021 item Non-financial Assets 31 3141 Lands 507 Lands 001 Lands expropriation and purchase 242942 1000000 500000 400000 1000000 1000000 242942 1000000 500000 400000 1000000 1000000 Total of Item 242942 1000000 500000 400000 1000000 1000000 Total of Project / Treasury 800 **Establishing Energy Efficiency Fund Project** Fund Source 102001 Capital (Treasury) Description Actual Estimated Re-estimated Estimated Indicative Indicative Group item 2018 2020 2017 2018 2019 2021 25 Subsidies Subsidies to Public Corporations 2511 520 Subsidies to non-financial public corporations/ capital 015 **Energy Efficiency Fund** 235968 300000 50000 50000 50000 Total of Item 235968 300000 50000 50000 50000 0 300000 50000 50000 50000 Total of Project / Treasury 235968 **Supporting the Atomic Energy Commission projects Project** Fund Source 102001 Capital (Treasury) Estimated Re-estimated Estimated Indicative Indicative Description **Actual** Group item 2017 2018 2018 2019 2020 2021 Subsidy / Grants 26 Subsidy to General Government Units/ Capital 2632 509 Subsidy to general government units/capital 055 **Atomic Energy Commission** 3600000 3054000 7155000 0 0 0 7155000 3600000 3054000 Total of Item 0 0 7155000 3600000 3054000 0 Total of Project / Treasury 0 Exploiting wind energy for electricity generation (Fajij) 014 **Project** Fund Source 102001 Capital (Treasury) Estimated Re-estimated Estimated Indicative Description Actual Indicative Group item 2018 2017 2018 2019 2020 2021 31 Non-financial Assets 3141 Lands 507 001 Lands expropriation and purchase 999366 1250000 800000 200000 0 Total of Item 999366 1250000 800000 200000 0 200000 Total of Project / Treasury 999366 1250000 800000 0 n Thermal solar energy to generate electricity (CSP) / European grant 021 **Project** Fund Source 102001 Capital (Treasury) Estimated Re-estimated Estimated Indicative Indicative Description Actual Group item 2017 2018 2018 2019 2020 2021 Other Expenditures 28 Other Capital Expenditures 2822 504 Studies, Research and Consultations 014 Studies, research and design 100000 0

0

100000

100000

0

Total of Item

Total of Project / Treasury

0

Chapter: 2001 Ministry of Energy and Mineral Resources (In JDs)

FIC	aram	2505 End		•					
			ergy Sector Developmen						
Pr	oject	022 Pror	noting the use of solar heaters	in cooperat	ion with the N	lational Cen	ter for Resea	rch and Dev	elopment /
Fund :	Sourc	e102001	Capital (Treasury)						
			Description	Actual	Estimated	Re-estimated	Estimated	Indicative	Indicative
Group	item		20001111011	2017	2018	2018	2019	2020	2021
28		Other Expend	ditures						
2822		Other Capital	·						
	504	Studies, Rese	earch and Consultations						
	027	Purchasing c	onsultation services	50000	0	0	50000		50000
			Total of Item	50000	0	0	50000	50000	50000
			Total of Project / Treasury	50000	0	0	50000	50000	50000
Pr	oject	023 Esta	blishing Customer Service Off	ice/ Europea	ın grant	·		·	
Fund :	Sourc	e102001	Capital (Treasury)						
Group	item		Description	Actual 2017	Estimated 2018	Re-estimated	Estimated 2019	Indicative 2020	Indicative 2021
22		Use of Goods	s and Services						
2211		Use of Goods							
	512	Operating and	d Sustaining Expenditures	1					
	035	Technical and	d administrative support	24576	0	0	0	0	0
			Total of Item	24576	0	0	0	0	0
31		Non-financia							
3112		Devices, Mach	hinery and Equipment						
	505	Equipment, M	lachines and Devices						
	069		and developing devices and	0	50000	50000	50000	50000	50000
	equipment Total of Item				50000	50000	50000	50000	50000
	Total of Project / Treasury								
			Total of Drojoct / Troacury	24576	50000	50000	50000	50000	50000
	! 4	1	•	24576	50000	50000 tor for Boson	50000		50000
Pr	oject	1	Total of Project / Treasury onalize energy use in cooperat						
	_	024 Ratio	•						
	_	024 Ratio	onalize energy use in cooperat	ion with the	National Cen	ter for Resea		relopment/ E	
Fund	_	024 Ration of the property of	Capital (Treasury)  Description	ion with the	National Cen	ter for Resea	arch and Dev	relopment/ E	uropean
Fund	Sourc	grant ee102001	Capital (Treasury)  Description	ion with the	National Cen	ter for Resea	erch and Dev	relopment/ E	uropean
Fund	Sourc	grant e 102001  Non-financial Devices, Macl	Capital (Treasury) Description  Assets hinery and Equipment	ion with the	National Cen	ter for Resea	erch and Dev	relopment/ E	uropean
Fund	Source item	o24 Ration grant set 102001  Non-financial Devices, Macle Equipment, Macle 102001	Capital (Treasury)  Description  Assets hinery and Equipment lachines and Devices	ion with the	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
Fund	Sourc	o24 Ration grant set 102001  Non-financial Devices, Macle Equipment, Macle 102001	Capital (Treasury) Description  Assets hinery and Equipment	ion with the	National Cen	ter for Resea	Estimated 2019	Indicative 2020	uropean
Fund	Source item	non-financial Devices, Macl Equipment, Modernizing a	Capital (Treasury)  Description  Assets hinery and Equipment lachines and Devices	ion with the	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
Fund	Source item	Non-financial Devices, Macl Equipment, M Modernizing a equipment	Capital (Treasury)  Description  Assets  Ininery and Equipment  lachines and Devices  and developing devices and	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019 50000	Indicative 2020 50000	Indicative 2021 50000
Group 31 3112	item  505 069	Non-financial Devices, Macl Equipment, Modernizing a	Capital (Treasury)  Description  Assets  Ininery and Equipment  Jachines and Devices  and developing devices and  Total of Item	Actual 2017	Estimated 2018  30000 30000	Re-estimated 2018	Estimated 2019 50000	Indicative 2020 50000	Indicative 2021 50000
Group 31 3112	item  505 069	Non-financial Devices, Macl Equipment, Modernizing a	Capital (Treasury)  Description  Assets Ininery and Equipment Iachines and Devices Indicated the Company of the	Actual 2017	Estimated 2018  30000 30000	Re-estimated 2018	Estimated 2019 50000	Indicative 2020 50000	Indicative 2021 50000
Group 31 3112	item  505 069	Non-financial Devices, Macl Equipment, M Modernizing a equipment	Capital (Treasury)  Description  I Assets hinery and Equipment lachines and Devices and developing devices and  Total of Item  Total of Project / Treasury ding and equipping Liquefied I  Capital (Treasury)	Actual 2017  0 0 0 Natural Gas	Estimated 2018  30000 30000 Germinal/ Aqa	Re-estimated 2018	Estimated 2019 50000 50000	Indicative 2020 50000 50000	Indicative 2021 50000 50000
Group 31 3112	item  505 069	Non-financial Devices, Macl Equipment, M Modernizing a equipment	Capital (Treasury)  Description  Assets Ininery and Equipment Iachines and Devices Indicated the Company of the	Actual 2017	Estimated 2018  30000 30000 Germinal/ Aqa	Re-estimated 2018	Estimated 2019 50000	Indicative 2020 50000 50000	Indicative 2021 50000
Group 31 3112  Pr Fund	item  505 069  roject	Non-financial Devices, Macl Equipment, M Modernizing a equipment	Capital (Treasury)  Description  I Assets Ininery and Equipment Eachines and Devices and developing devices and  Total of Item  Total of Project / Treasury ding and equipping Liquefied I  Capital (Treasury)  Description	Actual 2017  0 0 Natural Gas	Estimated 2018  30000 30000 Germinal/ Aqa	Re-estimated 2018  0 0 0 Re-estimated Re-estimated	Estimated 2019 50000 50000 Estimated	Indicative 2020 50000 50000 Indicative	Indicative 2021 50000 50000 Indicative
Group 31 3112  Pr Fund Group	item  505 069  roject Source item	Non-financial Devices, Macl Equipment, M Modernizing a equipment  025 Build e 102001  Other Expend Other Capital	Capital (Treasury)  Description  Assets Ininery and Equipment Iachines and Devices Indicated of Project / Treasury Iding and equipping Liquefied If Indicated of Capital (Treasury)  Description  Capital Expenditures	Actual 2017  0 0 Natural Gas	Estimated 2018  30000 30000 Germinal/ Aqa	Re-estimated 2018  0 0 0 Re-estimated Re-estimated	Estimated 2019 50000 50000 Estimated	Indicative 2020 50000 50000 Indicative	Indicative 2021 50000 50000 Indicative
Fund 3 Group 31 3112 Pr Fund 3 Group 28	item  505 069  Coject Source item	Non-financial Devices, Macl Equipment, M Modernizing a equipment  025 Build Ee 102001  Other Expend Other Capital Studies, Rese	Capital (Treasury)  Description  I Assets Ininery and Equipment Iachines and Devices Ininery and Equipment Iachines and Ininery and Ininery and Iachines and Ininery and Iachines Ininery and Iachines Iachines Ininery In	Actual 2017  0 0 Natural Gas	Estimated 2018  30000 30000 Germinal/ Aqa  Estimated 2018	Re-estimated 2018  Re-estimated 2018  Re-estimated 2018	Estimated 2019  50000  50000  Estimated 2019	Indicative 2020 50000 50000 Indicative	Indicative 2021 50000 50000 Indicative
Fund 3 Group 31 3112 Pr Fund 3 Group 28	item  505 069  roject Source item	Non-financial Devices, Macl Equipment, M Modernizing a equipment  025 Build Ee 102001  Other Expend Other Capital Studies, Rese	Capital (Treasury)  Description  I Assets Ininery and Equipment Ilachines and Devices Ininery and Equipment Ilachines and Devices and  Total of Item  Total of Project / Treasury Iding and equipping Liquefied Item  Capital (Treasury)  Description  Cittures  Expenditures  Expenditures  Expenditures  Expenditures  Earch and Consultations  Earch and design	Actual 2017  O O O O O O O O O O O O O O O O O O O	Estimated 2018  30000 30000 30000 Ferminal/ Aqa  Estimated 2018	Re-estimated 2018  Re-estimated 2018  Re-estimated 2018	Estimated 2019  50000  50000  Estimated 2019	Indicative 2020  50000  50000  Indicative 2020	Indicative 2021 50000 50000 Indicative
Fund 3 Group 31 3112 Pr Fund 3 Group 28	item  505 069  Coject Source item	Non-financial Devices, Macl Equipment, M Modernizing a equipment  025 Build Ee 102001  Other Expend Other Capital Studies, Rese	Capital (Treasury)  Description  I Assets Ininery and Equipment Iachines and Devices Ininery and Equipment Iachines and Ininery and Ininery and Iachines and Ininery and Iachines Ininery and Iachines Iachines Ininery In	Actual 2017  O O O Natural Gas Table 2017	Estimated 2018  30000 30000 Ferminal/ Aqa  Estimated 2018	Re-estimated 2018  Re-estimated 2018  Re-estimated 2018	Estimated 2019  50000  50000  Estimated 2019	Indicative 2020 50000 50000 Indicative 2020	Indicative 2021  50000  50000  Indicative 2021
Fund 3 31 3112  Pr Fund 3 Group 28 2822	item  505 069  Coject Source item	Non-financial Devices, Macl Equipment, M Modernizing a equipment  Other Expend Other Capital Studies, Rese Studies, resea	Capital (Treasury)  Description  I Assets  Ininery and Equipment  Iachines and Devices  Ininery and Equipment  I Capital (Treasury)  Description  I Capital (Treasury)  Description  Ininery and Equipment  I Capital (Treasury)	Actual 2017  O O O O O O O O O O O O O O O O O O O	Estimated 2018  30000 30000 30000 Ferminal/ Aqa  Estimated 2018	Re-estimated 2018  Re-estimated 2018  Re-estimated 2018	Estimated 2019  50000  50000  Estimated 2019	Indicative 2020  50000  50000  Indicative 2020	Indicative 2021  50000  50000  Indicative 2021
Fund 3 31 3112  Pr Fund 3 Group 28 2822	item  505 069  Coject Source item  504 014	Non-financial Devices, Macl Equipment, M Modernizing a equipment  Other Expend Other Capital Studies, Rese Studies, resea	Capital (Treasury)  Description  I Assets Ininery and Equipment Iachines and Devices Ininery and Equipment I Assets I I Assets I I Assets I I I I I I I I I I I I I I I I I I I	Actual 2017  O O O O O O O O O O O O O O O O O O O	Estimated 2018  30000 30000 30000 Ferminal/ Aqa  Estimated 2018	Re-estimated 2018  Re-estimated 2018  Re-estimated 2018	Estimated 2019  50000  50000  Estimated 2019	Indicative 2020  50000  50000  Indicative 2020	Indicative 2021  50000  50000  Indicative 2021
Fund 3 31 3112  Pr Fund 3 Group 28 2822	item  505 069  Coject Source item  504 014	Non-financial Devices, Macl Equipment, M Modernizing a equipment  025 Build e 102001  Other Expend Other Capital Studies, Rese Studies, research Non-financial Buildings and Works and Co	Capital (Treasury)  Description  I Assets Ininery and Equipment Iachines and Devices Ininery and Equipment Iachines and Devices and  Total of Item  Total of Project / Treasury Iding and equipping Liquefied Iterity  Capital (Treasury)  Description  I Capital (Treasury)  Description  I Capital (Treasury)  I Capital (Treasury)  Capital (Treasury)  Capital (Treasury)  Description  I Assets  Constructions  I Assets  Constructions	Actual 2017  O O O O O O O O O O O O O O O O O O O	Estimated 2018  30000 30000 30000 Ferminal/ Aqa  Estimated 2018  50000	Re-estimated 2018  Re-estimated 2018  Re-estimated 2018	Estimated 2019  50000  50000  Estimated 2019  600000  600000	Indicative 2020  50000  50000  Indicative 2020  0	Indicative 2021  50000  50000  Indicative 2021  0
Fund 3 31 3112  Pr Fund 3 Group 28 2822	item  505 069  Coject Source item  504 014	Non-financial Devices, Macl Equipment, M Modernizing a equipment  Other Expend Other Capital Studies, Rese Studies, resea	Capital (Treasury)  Description  I Assets Ininery and Equipment Iachines and Devices Index of Item I Total of Item I Capital (Treasury)	Actual 2017  O O O O O O O O O O O O O O O O O O O	Estimated 2018   30000   30000   30000   Terminal/ Aqa	Re-estimated 2018  Re-estimated 2018  Re-estimated 2018  Re-estimated 2018	Estimated 2019  50000  50000  Estimated 2019  600000  600000	Indicative 2020  50000  50000  Indicative 2020  0	Indicative 2021  50000  50000  Indicative 2021
Fund 3 31 3112  Pr Fund 3 Group 28 2822	item  505 069  Coject Source item  504 014	Non-financial Devices, Macl Equipment, M Modernizing a equipment  Other Expend Other Capital Studies, Rese Studies, resea	Capital (Treasury)  Description  I Assets Ininery and Equipment Iachines and Devices Ininery and Equipment Iachines and Devices and  Total of Item  Total of Project / Treasury Iding and equipping Liquefied Iterity  Capital (Treasury)  Description  I Capital (Treasury)  Description  I Capital (Treasury)  I Capital (Treasury)  Capital (Treasury)  Capital (Treasury)  Description  I Assets  Constructions  I Assets  Constructions	Actual 2017  O O O O O O O O O O O O O O O O O O O	Estimated 2018  30000 30000 30000 Ferminal/ Aqa  Estimated 2018  50000  180000 180000	Re-estimated 2018  Re-estimated 2018  Re-estimated 2018	Estimated 2019  50000  50000  Estimated 2019  600000  600000	Indicative 2020  50000  50000  Indicative 2020  0	Indicative 2021  50000  50000  Indicative 2021  0

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	·p·o·	2001 Ministry of Energy and Minis	,, u. 110000					( 020 )
Pro	gram	3505 Energy Sector Development	t					
Pr	oject	027 Jordanian nuclear power planet						
		e102001 Capital (Treasury)						
		Description	Actual	Estimated	Re-estimated	Estimated	Indicative	Indicative
Group	item		2017	2018	2018	2019	2020	2021
28		Other Expenditures						
2822	504	Other Capital Expenditures  Studies, Research and Consultations						
	027	Purchasing consultation services	7425000	1500000	1500000	800000	0	0
	035	Site studies	7125000 2000000				-	0
	000	Total of Item	9125000	500000		2800000	n	b
			9125000	5000000	5000000		0	0
		Total of Project / Treasury  029 Facilities for storing petroleum der		500000	500000	200000	U	
	oject		ivatives					
rund (	Sourc	e102001 Capital (Treasury)		T=	D	I <b>-</b>		
Group	item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
28	110111	Other Expenditures	2017	2010	2010	2010	2020	2021
2822		Other Capital Expenditures						
	504	Studies, Research and Consultations						
	014	Studies, research and design	1967202	730000	730000	1000000	1000000	0
		Total of Item	1967202	730000	730000	1000000	1000000	0
31		Non-financial Assets						
3111		Buildings and Constructions						
	508	Works and Constructions						
	040	Constructions	9605037	7500000	7500000	4500000	4500000	0
		Total of Item	9605037	7500000	7500000	4500000	4500000	0
3112		Devices, Machinery and Equipment						
	505	Equipment, Machines and Devices						
	055	Technical devices	3770924		3000000		2000000	0
		Total of Item	3770924	3000000	3000000	2000000	2000000	0
		Total of Project / Treasury	15343163	11230000	11230000	7500000	7500000	0
Pr	oject	031 Jordanian- Iraqi Oil Pipeline		·				
Fund 9	Sourc	e102001 Capital (Treasury)						
Group	item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
28		Other Expenditures						
2822		Other Capital Expenditures						
	504	Studies, Research and Consultations						
	014	Studies, research and design	0					300000
		Total of Item	0	100000	100000	150000	300000	300000
31		Non-financial Assets						
3141	E07	Lands						
	507	Lands				450000	4700000	222222
	001	Lands expropriation and purchase	0	0	0			2200000
		Total of Item	0	0				2200000
		Total of Project / Treasury	U	100000	100000	300000	2000000	2500000

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Pro	gram	3505 Energy Sector Development	t					
Pr	oject	033 Evaluate the direct tenders of renew	wable energy	y projects/ Eu	ıropean grar	nt.		
Fund 9	Sourc	e102001 Capital (Treasury)						
Group	item	Description	Actual 2017	Estimated 2018	Re-estimated	Estimated 2019	Indicative 2020	Indicative 2021
28		Other Expenditures						
2822		Other Capital Expenditures						
	504	Studies, Research and Consultations						
	014	Studies, research and design	193730	1070000	900000	600000	1000000	1000000
		Total of Item	193730	1070000	900000	600000	1000000	1000000
		Total of Project / Treasury	193730	1070000	900000	600000	1000000	1000000
Pr	oject	035 Renewable energy projects for elec	tricity gener	ration- wind e	nergy/ Maar	1	l	
		e102001 Capital (Treasury)						
		Description	Actual			Estimated		Indicative
Group	item		2017	2018	2018	2019	2020	2021
28		Other Expenditures						
2822	F0.1	Other Capital Expenditures						
	504	Studies, Research and Consultations	00.000	2222	2000			
	014	Studies, research and design	395336	20000	20000	0	0	0
		Total of Item	395336	20000	20000	0	0	0
31		Non-financial Assets						
3111		Buildings and Constructions						
	508	Works and Constructions		-				
	040	Constructions	8520122	0	0	0	0	0
		Total of Item	8520122	0	0	0	0	0
3112		Devices, Machinery and Equipment						
	505	Equipment, Machines and Devices						
	047	Fans	14632252	0	0	0	0	0
		Total of Item	14632252	0	0	0	0	0
		Total of Project / Treasury	23547710	20000	20000	0	0	0
Pr	oject	036 Renewable energy projects for elec	tricity gener	ration - solar	energy/ Aqa	ba		
Fund 9	Sourc	e 102001 Capital (Treasury)						
_		Description	Actual			Estimated		Indicative
Group	item		2017	2018	2018	2019	2020	2021
28		Other Expenditures						
2822	504	Other Capital Expenditures  Studies, Research and Consultations						
	014	Studies, Research and Consultations  Studies, research and design	E40000	E200000	E200000	2200000	0	
	V 14	, g	518620	5200000	5200000	2200000	0	0
24		Total of Item Non-financial Assets	518620	5200000	5200000	2200000	U	٢
31								
3111	508	Buildings and Constructions  Works and Constructions						
	040	Constructions	7483214	0	0	0	0	0
	V-1U	Total of Item	7483214	0	D	0	0	b
2440			1403214	J		U	U	٧
3112	505	Devices, Machinery and Equipment  Equipment, Machines and Devices						
	062	Solar cells systems and equipment	3647E024	25220000	25230000	4400000	0	0
	002	, , ,	36475924 36475924	25230000 25230000	25230000 25230000	4400000	0	b
		Total of Residual / Transport						*
		Total of Project / Treasury	44477758	30430000	30430000	6600000	0	0

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	•	3505 Energy Sector Developmen		/ (0000					( 020
				s for instit	utions / Furo	nean grant			
	oject				ations / Euro	pouri grunt			
Funa	Sourc	ce102001 Capital (Treasury)	_		1=		1		
Group	item	Description		Actual 2017	Estimated 2018	2018	Estimated 2019	Indicative 2020	Indicative 2021
28		Other Expenditures							
2822		Other Capital Expenditures							
	504	Studies, Research and Consultations							
	014	Studies, research and design	0		50000	50000	100000	100000	100000
		Total of Item	0		50000	50000	100000	100000	100000
31		Non-financial Assets							
3112		Devices, Machinery and Equipment							
	505	Equipment, Machines and Devices							
	055	Technical devices	0		150000	150000	100000	100000	100000
		Total of Item	0		150000	150000	100000	100000	100000
		Total of Project / Treasury	0		200000	200000	200000	200000	200000
		ce 102001 Capital (Treasury)  Description	Τ	Actual			Estimated		
Group	item			2017	2018	2018	2019	2020	2021
28		Other Expenditures							
2822		Other Capital Expenditures							
	504	Studies, Research and Consultations	0						
	014	Studies, research and design			190000	100000	500000	750000	750000
		Total of Item	0		190000	100000	500000	750000	750000
31		Non-financial Assets							
3111		Buildings and Constructions							
	508	Works and Constructions							
	040	Constructions	0		150000			500000	500000
		Total of Item	0		150000	0	500000	500000	500000
3112		Devices, Machinery and Equipment							
	505	Equipment, Machines and Devices							
	055	Technical devices	0		150000	0		250000	250000
		Total of Item	0		150000	0	1000000	250000	250000
		Total of Project / Treasury	0		490000	100000	2000000	1500000	1500000

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Pro	gram	3505 Ene	ergy Sector Development	t					
Pr	oject	046 Mod	ernizing Jordan Seismological	Observator	у				
		e102001	Capital (Treasury)						
Group	item		Description	Actual 2017	Estimated 2018	Re-estimated	Estimated 2019	Indicative 2020	Indicative 2021
22		Use of Goods	and Services						
2211		Use of Goods	and Services						
	512	Operating and	d Sustaining Expenditures						
-	006	Devices, tools	and equipment maintenance	91	0	0	0	0	0
-	012	Subscriptions	s, insurances	20000	17000	17000	20000	20000	20000
-	015	Operating sys	stems and software	0	0	0	25000	25000	25000
	Total of Item			20091	17000	17000	45000	45000	45000
31		Non-financial	Assets						
3111		Buildings and	Constructions						
	508	Works and Co	onstructions						
	040	Constructions	5	18552	20000	20000	20000	20000	20000
			Total of Item	18552	20000	20000	20000	20000	20000
3112		Devices, Mach	ninery and Equipment						
	505	Equipment, M	achines and Devices						
-	044	Earthquakes s	seismograph devices	25491	63000	63000	35000	35000	35000
			Total of Item	25491	63000	63000	35000	35000	35000
			Total of Project / Treasury	64134	100000	100000	100000	100000	100000
Pr	oject	047 Oil S	Shale Exploration	_					
Fund S	Sourc	e102001	Capital (Treasury)						
Group	item		Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
28		Other Expend	ditures						
2822		Other Capital	Expenditures						
	504	Studies, Research and Consultations							
-	014	Studies, research and design		180460	10000	10000	20000	0	0
			Total of Item	180460	10000	10000	20000	0	0
		•	Total of Project / Treasury	180460	10000	10000	20000	0	0
Pr	oject	048 Expl	oration for minerals resources	3					
Fund S	Sourc	e102001	Capital (Treasury)						
Group	item		Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
31		Non-financial Assets							
3111		Buildings and	Constructions						
	508	Works and Constructions		1					
	016	Excavations a	and wells construction	0	200000	50000	100000	100000	100000
	1	I		1	1	1			
			Total of Item	0	200000	50000	100000	100000	100000

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Pro	gram	3505 Energy Sector Developmen	nt					
	oject		arketing expl	orative areas				
Fund	Sourc	e102001 Capital (Treasury)						
Group	item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
28		Other Expenditures						
2822		Other Capital Expenditures						
	504	Studies, Research and Consultations	-					
	014	Studies, research and design	0	200000	0	0	0	0
		Total of Item	0	200000	D	0	0	0
31		Non-financial Assets						
3111	508	Buildings and Constructions  Works and Constructions						
	040	Constructions	0	200000	200000	200000	200000	200000
	040		0	300000 300000	200000	200000	200000 200000	200000
		Total of Item	0		200000	200000	200000	200000
		Total of Project / Treasury	0	500000	200000	200000	200000	200000
	oject		rant					
Fund	Sourc	e102001 Capital (Treasury)						
Craun	itama	Description	Actual			Estimated		
Group 31	item	Non-financial Assets	2017	2018	2018	2019	2020	2021
3112		Devices, Machinery and Equipment						
3112	505	Equipment, Machines and Devices	_					
	069	Modernizing and developing devices and	63675	375000	200000	500000	500000	500000
		equipment						
		Total of Item	63675	375000	200000		500000	500000
		Total of Project / Treasury	63675	375000	200000	500000	500000	500000
	oject		n grant					
Fund :	Sourc	e102001 Capital (Treasury)						
Group	item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
31		Non-financial Assets						
3112		Devices, Machinery and Equipment						
	505	Equipment, Machines and Devices						
	069	Modernizing and developing devices and equipment	573313	1500000	1200000	800000	850000	850000
		Total of Item	573313	1500000	1200000	800000	850000	850000
		Total of Project / Treasury	573313	1500000	1200000	800000	850000	850000
Pr	oject	052 Seismic and geological surveys						
	•	e102001 Capital (Treasury)						
Group	item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
28		Other Expenditures						
2822		Other Capital Expenditures						
	504	Studies, Research and Consultations						
	014	Studies, research and design	0	300000	100000	100000	100000	100000
		Total of Item	0	300000	100000	100000	100000	100000
		Total of Project / Treasury	0	300000	100000	100000	100000	100000

Chapter: 2001 Ministry of Energy and Mineral Resources (In JDs) Program 3505 Energy Sector Development Executing the National Plan for Energy Efficiency / European grant 054 **Proiect** Fund Source 102001 Capital (Treasury) Estimated Re-estimated Estimated Indicative Indicative Description Actual Group item 2017 2018 2018 2019 2020 2021 Other Expenditures 28 2822 Other Capital Expenditures 504 Studies, Research and Consultations 014 Studies, research and design 50000 50000 50000 20000 Total of Item 20000 50000 50000 50000 20000 50000 50000 50000 Total of Project / Treasury Executing the natural gas line / Sheikh Hussein Crossing 055 **Project** Fund Source 102001 Capital (Treasury) Estimated Re-estimated Estimated Indicative Indicative Description Actual Group item 2017 2018 2018 2019 2020 2021 Non-financial Assets 31 3141 Lands 507 Lands Lands expropriation and purchase 001 100000 2500000 3230000 5230000 900000 **Total of Item** 900000 100000 2500000 3230000 5230000 2500000 3230000 5230000 900000 100000 Total of Project / Treasury Building a solar energy planet to generate electricity for the Synchrotron Light accelerator with size (6) 057 **Project** Megawatts / Europe grant Fund Source 102001 Capital (Treasury) Description Estimated Re-estimated Estimated Indicative Indicative **Actual** Group item 2017 2018 2018 2019 2020 2021 31 Non-financial Assets 3112 Devices, Machinery and Equipment 505 **Equipment, Machines and Devices** 062 Solar cells systems and equipment 3360000 1000000 510000 1000000 0 0 3360000 1000000 1000000 510000 Total of Item 3360000 1000000 1000000 510000 0 0 Total of Project / Treasury Houses roofs insulation / European grant 058 **Project** Fund Source 102001 Capital (Treasury) Description Actual Estimated Re-estimated Estimated Indicative Indicative Group item 2018 2017 2018 2020 2021 2019 31 Non-financial Assets Devices, Machinery and Equipment 3112 505 Equipment, Machines and Devices 069 Modernizing and developing devices and 10000 b 0 0 0 equipment Total of Item 10000 0 0 Total of Project / Treasury 10000 Solar cells of mosques / European grant **Project** Fund Source 102001 Capital (Treasury) Estimated Re-estimated Estimated Indicative Indicative Description Actual Group item 2017 2018 2018 2019 2020 2021 31 Non-financial Assets 3112 Devices, Machinery and Equipment **Equipment, Machines and Devices** 505 069 Modernizing and developing devices and 500000 500000 500000 570000 570000 equipment 570000 570000 500000 500000 500000 Total of Item Total of Project / Treasury 570000 570000 500000 500000 500000

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Pro	gram	3505 Energy Sector Developmen	t					
Pr	oject	060 Geo-chemical and Geo-physical st	udies					
Fund	Sourc	e102001 Capital (Treasury)						
Group	item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
28		Other Expenditures						
2822		Other Capital Expenditures						
	504	O4 Studies, Research and Consultations						
	014	Studies, research and design	0	20000	20000	20000	20000	20000
		Total of Item	0	20000	20000	20000	20000	20000
		Total of Project / Treasury	0	20000	20000	20000	20000	20000
Pr	oject	061 The extenstion of electricity generation	ation project	using the so	lar cells in A	zraq / with (1	) megawatt	capacity
Fund	Sourc	e102001 Capital (Treasury)						
Group	item	Description	Actual 2017	Estimated 2018	Re-estimated 2018	Estimated 2019	Indicative 2020	Indicative 2021
31		Non-financial Assets						
3111		Buildings and Constructions						
	508	Works and Constructions						
	040	Constructions	0	0	0	200000	0	0
		Total of Item	0	0	0	200000	0	0
3112		Devices, Machinery and Equipment						
	505	Equipment, Machines and Devices						
	055	Technical devices	0	0	0	700000	0	0
		Total of Item	0	0	0	700000	0	0
		Total of Project / Treasury	0	0	0	900000	0	0
		Total of Program	105637158	60505000	56114000	28400000	19050000	14050000
		Total of Chapter	106654808	62730000	57404000	29800000	20450000	15450000