

Chapter : 2003 Jordan Atomic Energy Commission

Establishment : Jordan Atomic Energy Commission was established early in 2008 as a legal successor for Jordan Nuclear Energy Commission pursuant to Nuclear Energy Law No. (42) of 2007 to implement the National Nuclear Energy Strategy, in order to transfer, promote development and management uses of the peaceful nuclear energy and radiation technology to the Kingdom, in addition to establishing investment projects to service the Jordanian economy in those areas, and their use in electricity generation or desalination and in fields of agricultural, industrial, medical and others nuclear applications

Vision : Pioneering in nuclear technology transfer and the nuclear and radiation applications and holding nuclear and radiation projects in the Kingdom in a peaceful, safe and sustainable way.

Mission : Contribute to social and economic development through the usage of nuclear reactors in electricity generation and water desalination and any other peaceful purposes and transforming from direct dependence on fossil fuel sources to alternative energy sources.

Legal Framework: Atomic Energy Law No.(42) for the year 2007 and amendments thereto.

Priorities and targeted results within the determined ceilings for the years 2023 - 2025 :

First Priority :

- _ Expanding in the peaceful uses of the nuclear energy in the medical and industrial fields

First Priority Outcomes :

- _ Produce a series of radioactive isotopes through the research reactor

Second Priority :

- _ Expand in exploring and exploit nuclear materials in Jordan

Second Priority Outcomes :

- _ Transferring from the pioneering factory for Uranium mining to commercial production

Tasks of the Ministry / Department :

- _ Implement the vision and integrated strategy for the Jordanian nuclear program for peaceful purposes.
- _ Build and develop the required human staffs and capacities to implement the Jordanian nuclear program
- _ Enhance cooperation with IAEA and similar institutions and with friendly and expertise countries in the field of atomic energy and radiation technology

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

- _ Create an attractive investment environment capable of attracting foreign capitals and encouraging local investments
- _ Preserve financial and monetary stability, budget deficit control and build efficient and low risk financial system

Major Issues and Challenges which face the Ministry / Department :

- _ Lack of sufficient financial resources necessary for implementing the Jordanian nuclear program.
- _ Braindrain of qualified Jordanian competencies in the nuclear field to work in the nuclear projects outside Jordan
- _ Not dealing substantially with the Jordanian nuclear program by some, and distorting realities and benefits of the program and portraying it as a major economic and social problem.

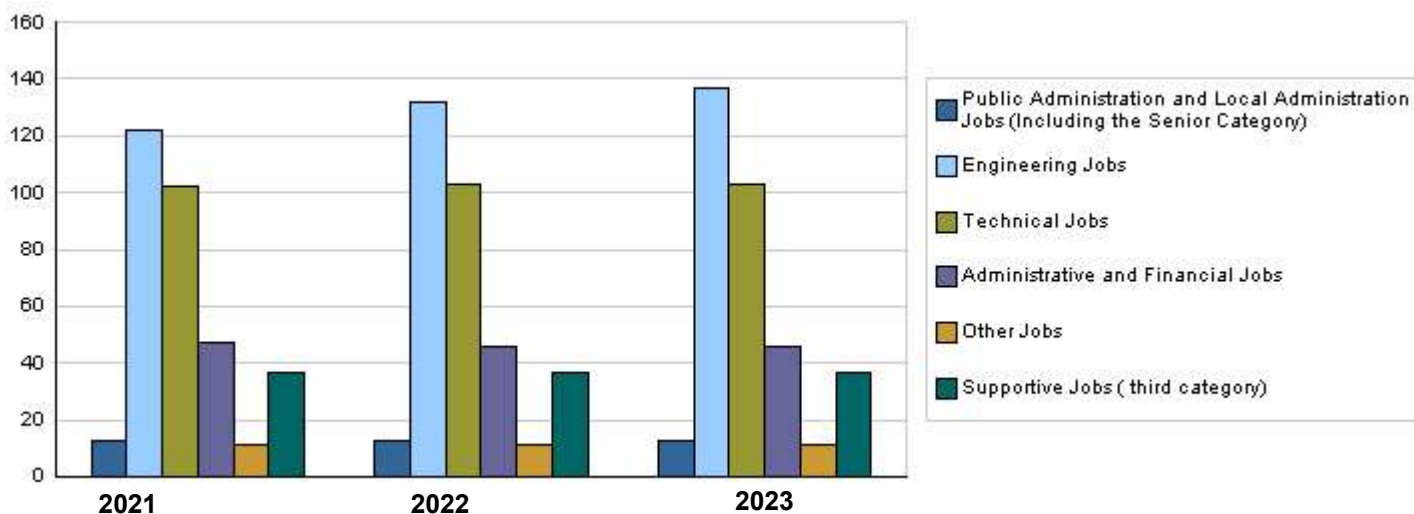
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Strategic objectives of the Ministry/ Department/ Unit and Performance Measurement Indicators

Strategic Objective	Performance Indicator	Base year	Value	Actual Value	Target Value	Preliminary Self Evaluation	Target Value		
				2021	2022	2022	2023	2024	2025
1 - To develop and upgrade the institutional capacities of the Commission	1 Percentage of Commission's stakeholders satisfaction	2020	%97	%97	%98	%97	%98	%98	%99
	2 Number of specialists and qualified technicians working on the Jordanian Nuclear program projects	2020	306	320	330	322	330	335	340
2 - To transfer, localize, develop and sustain the nuclear energy and radiology technology	1 Number of signed nuclear cooperation agreements with interested countries	2020	8	8	10	9	10	11	12
	2 Number of national and regional projects implemented with The International Atomic Energy Agency (IAEA) and Arab Atomic Energy Agency (AAEA)	2020	22	23	26	24	25	26	27
3 - To establish investment projects to serve the national economy in the field of radiology technology and nuclear energy and to use them in generating electric power and water desalination in addition to other fields	1 Percentage of Uranium to total number of explored sites	2020	%63	%64	%67	%65	%66	%67	%68
	2 Kinds of medical radioisotopes produced using the Jordanian nuclear reactor for research and training	2020	4	4	6	5	6	7	8

Number of Staff in the Ministry/ Department/ Unit

Group	Job	2021			2022			Preliminary 2023		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Public Administration and Local Administration Jobs	Supervisory and Leadership	10	3	13	10	3	13	10	3	13
Engineering Jobs	Engineer	97	25	122	107	25	132	111	26	137
Technical Jobs	Technical Jobs	81	21	102	82	21	103	82	21	103
Administrative and Financial Jobs	Financial Administration Jobs	29	18	47	28	18	46	28	18	46
Other Jobs	Other jobs	8	3	11	8	3	11	8	3	11
Supportive Jobs (third category)	Support Employee (Driver,	35	2	37	35	2	37	35	2	37
Total		260	72	332	270	72	342	274	73	347
Total Cost of Salaries		3171389	847081	4018470	3459530	947470	4407000	3740129	1017871	4758000



Most notable information about the Ministry/Department/Unit

No.	Description	2019	2020	2021	2022	2023
1	Number of companies/ institutions specialized in nuclear and radiology technology and energy dealing with the Commission	3	3	3	3	3
2	Number of companies/institutions benefiting from radiant wastes storage and transport services provided by the Commission	22	24	26	27	28
3	Number of companies benefiting from gamma ray sterilization provided by the Commission	30	30	31	31	32
4	Number of Jordanian universities benefiting from the technical facilities of the Commission including scientific research	12	13	13	13	14
5	Number of institutions / companies benefiting from lab testing to discover radiology pollutants and measurements services and radiology calibration in the Commission and measure personal radiology dos	122	124	126	128	130
6	Number of institutions/ hospitals / medical centers using medical radioisotopes produced by the Jordanian nuclear reactor for training and research	12	12	12	12	13

Chapter : 2003 Jordan Atomic Energy Commission

(In JDs)

Current Activities Appropriations According to Program								
Prog.	Activites		Actual	Estimated	Re-estimated	Estimated	Indicative	Indicative
			2021	2022	2022	2023	2024	2025
6181	601	Administrative and Support Services	3148635	3312000	3217000	4281000	4127000	4161000
	Total of Program		3148635	3312000	3217000	4281000	4127000	4161000
6184	601	Nuclear researches	1905330	2703000	2622000	2599000	2614000	2589000
	Total of Program		1905330	2703000	2622000	2599000	2614000	2589000
Total			5053965	6015000	5839000	6880000	6741000	6750000

Capital Projects Appropriations According to Program								
Prog.	Projects		Actual	Estimated	Re-estimated	Estimated	Indicative	Indicative
			2021	2022	2022	2023	2024	2025
6181	001	Administration and Support Services Program Administration Project	161062	205000	205000	390000	325000	325000
	002	Supporting energy projects	411617	479000	479000	1180000	1880000	1880000
	Total of Program		572679	684000	684000	1570000	2205000	2205000
6184	003	Establishing and operating the research nuclear reactor	333783	259000	259000	2400000	2240000	1240000
	Total of Program		333783	259000	259000	2400000	2240000	1240000
Total			906462	943000	943000	3970000	4445000	3445000

**Overall Summary of Expenditures for Chapter 2003- Jordan Atomic Energy Commission
for the Years 2021 - 2025**

(In JDs)

Description	Actual	Estimated	Re-estimated	Estimated	Difference between estimated 2023 and re- estimated 2022	Indicative	
	2021	2022	2022	2023		2024	2025
Current Expenditure	5,053,965	6,015,000	5,839,000	6,880,000	1,041,000	6,741,000	6,750,000
Capital Expenditure	906,462	943,000	943,000	3,970,000	3,027,000	4,445,000	3,445,000
Total current and capital expenditure	5,960,427	6,958,000	6,782,000	10,850,000	4,068,000	11,186,000	10,195,000

Most notable differences between estimated appropriations for 2023 and re-estimated for 2022

Current expenditure :

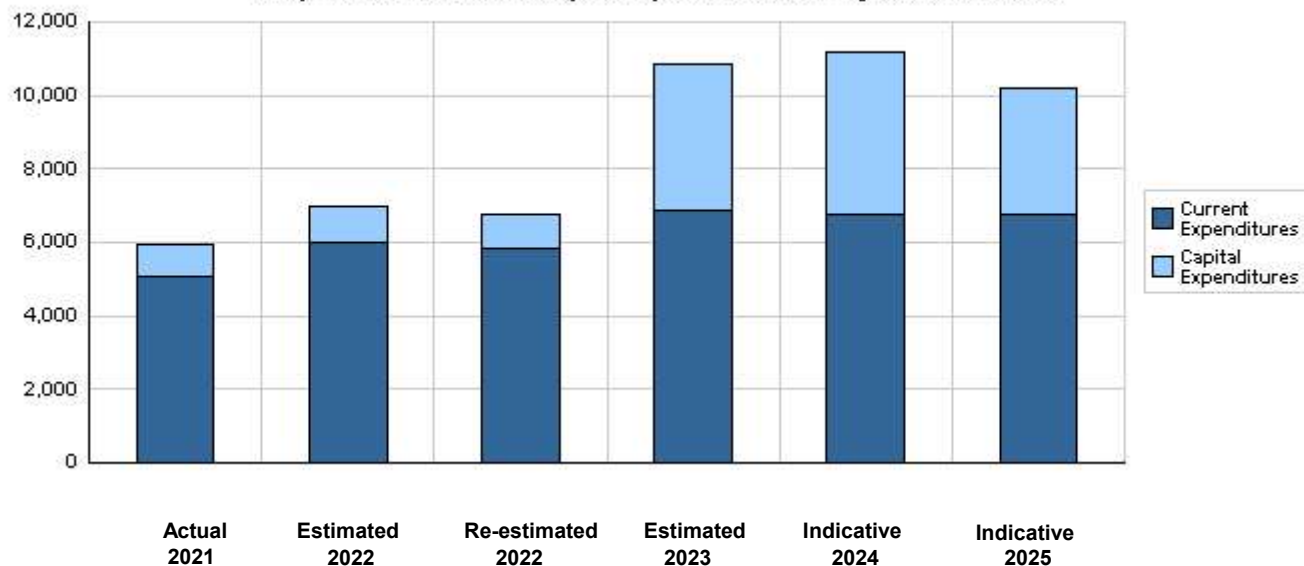
- Compensations of Employees group increased by approximately (454) thousand JDs due to the natural increase in salaries in addition to vacancies and new jobs to be appointed in 2023.
- Operational expenditures appropriations increased by (614) thousand JDs, concentrated in security services contracts item
- Other expenditure reduced by (27) thousand JDs, concentrated in the scientific delegates and cultural exchange item

Capital expenditure :

- Capital expenditures increased by approximately (3.027) million JDs as a result of the increase in the allocations of ongoing projects. The most prominent of these projects is the project to support energy projects by (701) thousand JDs, the project to establish and operate the research nuclear reactor by (2.141) million JDs and the project to manage the administration and support services programme by (185 thousand JDs).

(Thousands of JDs)

Graph of the current and capital expenditures for the years 2021 - 2025



Overall Summary of Current Expenditures for the Years 2021 - 2025

Chapter : 2003 Jordan Atomic Energy Commission

(In JDs)

Group	Item	Description	Actual 2021	Estimated 2022	Re-estimated 2022	Estimated 2023	Indicative 2024	Indicative 2025
21		Compensations of Employees						
2111		Salaries, Wages and Allowances						
	102	Unclassified Employees	283083	282000	280000	277000	281000	285000
	103	Comprehensive Contract Employees	458765	483000	414000	509000	516000	524000
	105	Personal Cost of Living Allowance	399017	439000	431000	465000	472000	479000
	106	Family Cost of Living Allowance	38625	47000	40000	42000	43000	44000
	110	Overtime Allowance	0	25000	25000	50000	50000	50000
	111	Additional Allowance	1099000	1228000	1228000	1305000	1326000	1346000
	112	Other Allowances	164000	155000	155000	160000	162000	164000
	113	Transportation Allowance	79000	83000	83000	120000	121000	123000
	114	Transport Allowance	21285	29000	27000	25000	26000	27000
	116	Employees' Bonuses	750000	800000	800000	900000	900000	900000
	120	Contract Employees	305000	367000	361000	405000	411000	417000
		Total	3597775	3938000	3844000	4258000	4308000	4359000
2121		Social Security Contributions						
	301	Social Security	420695	469000	460000	500000	509000	516000
		Total	420695	469000	460000	500000	509000	516000
22		Use of Goods and Services						
2211		Use of Goods and Services						
	201	Rents	9850	10000	10000	10000	10000	10000
	202	Telecommunications Services	12720	25000	20000	20000	20000	20000
	203	Water	34947	98000	96000	75000	75000	75000
	204	Electricity	295588	692000	650000	460000	450000	400000
	205	Fuels	58079	60000	60000	70000	72000	73000
	206	Maintenance of Machines, furniture and acces	2964	5000	5000	10000	10000	10000
	207	Maintenance of vehicles, equipment and acce	8310	12000	10000	15000	15000	15000
	208	Repair and maintenance of buildings and acco	12441	12000	12000	15000	15000	15000
	209	Stationery,Publications and Office Supplies	13728	15000	15000	25000	25000	25000
	210	Substances and raw materials (medicines, clo	8711	9000	7000	9000	9000	9000
	211	Cleaning services and supplies including clea	73656	90000	90000	100000	100000	100000
	212	Insurance	40000	51000	51000	55000	55000	55000
	213	Official Travel Missions	9970	20000	20000	30000	30000	30000
	214	Goods and services expenses	122024	132900	132000	800000	750000	750000
		Total	702988	1231900	1178000	1694000	1636000	1587000
28		Other Expenditures						
2821		Other Current Expenditures						
	302	Contributions	121645	150000	150000	230000	140000	140000
	303	Scientific scholarships and training courses	141863	122000	114000	70000	20000	20000
	305	Non-Employees' Bonuses	68999	104100	93000	128000	128000	128000
		Total	332507	376100	357000	428000	288000	288000
		Total of Chapter	5053965	6015000	5839000	6880000	6741000	6750000

Overall Summary of Capital Expenditures for the Years 2021 - 2025

Chapter : 2003 Jordan Atomic Energy Commission

(In JDs)

Group	Item	Description	Actual 2021	Estimated 2022	Re-estimated 2022	Estimated 2023	Indicative 2024	Indicative 2025
		Expenditures						
22		Use of Goods and Services						
2211		Use of Goods and Services						
	512	Operating and Sustaining Expenditures	48707	27500	27500	2085000	2085000	1085000
		Total	48707	27500	27500	2085000	2085000	1085000
25		Subsidies						
2511		Subsidies to Public Corporations						
	520	Subsidies to non-financial public corporations/capital	411617	479000	479000	1180000	1880000	1880000
		Total	411617	479000	479000	1180000	1880000	1880000
28		Other Expenditures						
2822		Other Capital Expenditures						
	504	Studies, Research and Consultations	64652	189000	189000	210000	85000	85000
		Total	64652	189000	189000	210000	85000	85000
		Fixed Assets						
31		Non-financial Assets						
3111		Buildings and Constructions						
	508	Works and Constructions	0	15000	15000	100000	0	0
		Total	0	15000	15000	100000	0	0
3112		Devices, Machinery and Equipment						
	505	Equipment, Machines and Devices	176819	80500	80500	220000	220000	220000
		Total	176819	80500	80500	220000	220000	220000
3122		Inventories						
	503	Materials and supplies	204667	152000	152000	175000	175000	175000
		Total	204667	152000	152000	175000	175000	175000
		Total of Chapter	906462	943000	943000	3970000	4445000	3445000

Appropriations directed for females and child according to chapter : 2003 Jordan Atomic Energy Commission

(In JDs)

Description	2021	2022	2023	2024	2025
Females	847,081	947,470	1,017,871	1,030,782	1,043,520
Child	0	0	0	0	0
Appropriations directed according to population index					
Females	912,720	1,198,970	2,863,240	2,993,430	2,500,400
Child	699,105	918,360	2,193,120	2,292,840	1,915,200
Total appropriations directed for females	1,759,801	2,146,440	3,881,111	4,024,212	3,543,920
Total appropriations directed for Child	699,105	918,360	2,193,120	2,292,840	1,915,200

6181 Administration and Support Services Program

Objective of the program :

- 1- Transfer, indigenize, develop and sustain the uses of nuclear energy and radiation technology.
- 2- Establish investment enterprise to serve the national economy in the field of radiation technology and nuclear energy.
- 3- Use the nuclear reactors of different capacities for electrical power generation and water desalination.
- 4- Explore and mine Uranium and rare land minerals and produce the Uranium Concentrate (yellowcake) to enhance the local energy sources.
- 5- Provide work environment and logistic services for units and directorates.
- 6- Develop the capacities of the Commission's directorates and units.
- 7- Improve the management of programs and projects implemented by the Commission.

The strategic objective related to the program :

- 1- To develop and upgrade the institutional capacities of the Commission.
- 2- To transfer, localize, develop and sustain the nuclear energy and radiology technology

Directorates associated with the program :

- 1- Technical Services Directorates:
 - Research and Information Labs Directorate
 - Uranium Labs Directorate
 - Gama Radiology Directorate
 - Radiation and Emergency Protection Directorate
 - Ionizing Radiation Directorate
 - Quality Assurance Directorate
 - Physical and Chemical Analysis Directorate
 - Transport and Radioactive Waste Management Directorate
 - Nuclear Projects Development Directorate
 - Advanced Energy Systems Directorate
 - International Cooperation Directorate.
- 2- Administrative and Financial Services Directorates:
 - Information Technology and Security Directorate
 - Human Resources Directorate
 - Financial Affairs Directorate
 - Administrative Affairs Directorate
 - Audit and Internal Control Unit
 - Institutional Development Unit
 - Office of the Chairman and bureau

Services provided by the program :

- Providing laboratory checkups and tests that serve the uranium exploration and extraction project
- Providing checkup and testing service for consumer and food samples to determine their content of radioactive and harmful substances in public health
- Providing sterilization services for medical supplies
- Providing quality assurance services for the various projects and work of the commission in line with international standards and foundations
- Coordination and cooperation with international organizations related to the commission's work and following up the implementation of national and regional projects for nuclear applications with international organizations
- Follow up agreements and memorandum of understanding on the international level and on the scope of bilateral cooperation
- Follow up students sent by the authority to international universities
- Treatment, transportation, storage and protection of radioactive waste at the Kingdom level and protection
- Participate in the nuclear and radiological emergency team at the Kingdom level and provide aid and field assistance
- Achieve the security of existing or transferred nuclear and radiological materials, the security of electronic digital documents and information, and protect the computer networks of the commission and its various facilities
- Auditing transactions, agreements, administrative and financial decisions to ensure their consistency with the legislation
- Provide training opportunities for specialists and technicians to operate and sustain nuclear reactors and different scientific facilities.
- Implement the Commission's decisions and recommendations of financial and administrative impact.
- Prepare the Commission's annual budget draft.

Staff working in the program :

The program is implemented through a functional staff in 2022 estimated with (224) staff, including (185) males and (39) females .

Chapter 2003 - Jordan Atomic Energy Commission

6181 Administration and Support Services Program

Appropriations directed for females and child

(In JDs)

Description	2021	2022	2023	2024	2025
Females	456,453	470,089	515,879	521,799	527,545
Child	0	0	0	0	0
Appropriations directed according to population index					
Females	516,828	609,120	1,357,360	1,567,450	1,567,920
Child	395,869	466,560	1,039,680	1,200,600	1,200,960
Total appropriations directed for females	973,281	1,079,209	1,873,239	2,089,249	2,095,465
Total appropriations directed for Child	395,869	466,560	1,039,680	1,200,600	1,200,960

Key Performance Indicators for Program

Performance Measurement Indicator	Base Year	Value	Actual value	Target Value	Preliminary Self Evaluation	Target Value		
			2021	2022		2022	2023	2024
1 Satisfaction Percentage of the Commission's stakeholders	2020	%97	%97	%98	%97	%98	%98	%99
2 Number of nuclear cooperation agreements signed with specialized countries	2020	8	8	10	9	10	11	12
3 Number of specialized qualification courses in commission's area of work	2020	%80	%82	%90	%86	%88	%90	%92
4 Number of national and regional projects implemented by the IAEA and AAEA	2020	22	23	26	24	25	26	27
5 Percentage of Uranium presence to total number of explored sites	2020	%63	%64	%67	%65	%66	%67	%68

Appropriations Of Administration and Support Services Program as Per Activities and Projects.

(In JDs)

Activities and Projects	Actual	Estimated	Re-estimated	Estimated	Indicative	
	2021	2022	2022	2023	2024	2025
Current Expenditures	3,148,635	3,312,000	3,217,000	4,281,000	4,127,000	4,161,000
601 Administrative and Support Services	3,148,635	3,312,000	3,217,000	4,281,000	4,127,000	4,161,000
Capital Expenditures	572,679	684,000	684,000	1,570,000	2,205,000	2,205,000
001 Administration and Support Services Program Administration Project	161,062	205,000	205,000	390,000	325,000	325,000
002 Supporting energy projects	411,617	479,000	479,000	1,180,000	1,880,000	1,880,000
Program / Treasury	572,679	684,000	684,000	1,570,000	2,205,000	2,205,000
Total Program	3,721,314	3,996,000	3,901,000	5,851,000	6,332,000	6,366,000

Current Expenditures According to Program and Activities for the Years 2021 - 2025

Chapter : 2003 - Jordan Atomic Energy Commission

(In JDs)

Program : 6181 - Administration and Support Services								
Activity : 601 - Administrative and Support Services								
Group	Item	Description	Actual 2021	Estimated 2022	Re-estimated 2022	Estimated 2023	Indicative 2024	Indicative 2025
21		Compensations of Employees						
2111		Salaries, Wages and Allowances						
	102	Unclassified Employees	211000	210000	210000	250000	253000	256000
	103	Comprehensive Contract Employees	370000	391000	329000	399000	403000	407000
	105	Personal Cost of Living Allowance	260000	265000	265000	286000	290000	294000
	106	Family Cost of Living Allowance	26110	32000	25000	27000	28000	29000
	110	Overtime Allowance	0	15000	15000	25000	25000	25000
	111	Additional Allowance	692000	718000	718000	765000	776000	786000
	112	Other Allowances	146000	138000	138000	142000	143000	144000
	113	Transportation Allowance	53000	54000	54000	86000	87000	89000
	114	Transport Allowance	13810	15000	15000	16000	17000	18000
	116	Employees' Bonuses	450000	435000	435000	485000	485000	485000
	120	Contract Employees	95000	107000	107000	142000	145000	148000
		Total	2316920	2380000	2311000	2623000	2652000	2681000
2121		Social Security Contributions						
	301	Social Security	304759	320000	315000	340000	345000	349000
		Total	304759	320000	315000	340000	345000	349000
22		Use of Goods and Services						
2211		Use of Goods and Services						
	201	Rents	9850	10000	10000	10000	10000	10000
	202	Telecommunications Services	12720	19000	14000	14000	14000	14000
	203	Water	15000	15000	15000	15000	15000	15000
	204	Electricity	4265	7000	2000	5000	5000	5000
	205	Fuels	58079	60000	60000	70000	72000	73000
		001 Heating	8555	10000	10000	15000	15000	15000
		002 Saloon vehicles	29831	30000	30000	35000	36000	37000
		003 Transport vehicles and heavy equipment	19693	20000	20000	20000	21000	21000
	206	Maintenance of Machines, furniture and accessories	2000	3000	3000	8000	8000	8000
	207	Maintenance of vehicles, equipment and accessories	8310	12000	10000	15000	15000	15000
	208	Repair and maintenance of buildings and accessories	8493	8000	8000	11000	11000	11000
	209	Stationery, Publications and Office Supplies	8738	10000	10000	15000	15000	15000
	210	Substances and raw materials (medicines, clothes, food, films, etc..)	4981	5000	5000	5000	5000	5000
	211	Cleaning services and supplies including cleaning contracts	32000	45000	45000	50000	50000	50000
	212	Insurance	7000	15000	15000	15000	15000	15000
	213	Official Travel Missions	4971	15000	15000	20000	20000	20000
	214	Goods and services expenses	68042	97900	97000	740000	690000	690000
		001 Events and hospitality	3563	5000	5000	55000	5000	5000
		008 Advertisements and subscriptions	1000	10000	10000	15000	15000	15000
		013 Services, security and guarding contracts	48480	50000	50000	630000	630000	630000
		014 Shipment and clearance fees	4999	25000	25000	25000	25000	25000
		084 Fees and licenses	10000	7900	7000	15000	15000	15000
		Total	244449	321900	309000	993000	945000	946000
28		Other Expenditures						
2821		Other Current Expenditures						
	302	Contributions	113645	139000	139000	219000	129000	129000
		014 Saving Fund contribution	24929	29000	29000	29000	29000	29000
		018 International Agency for Atomic Energy and Arab Commission	88716	110000	110000	190000	100000	100000
	303	Scientific scholarships and training courses	141863	122000	114000	70000	20000	20000
		000 Scientific scholarships and training courses	0	10000	10000	20000	20000	20000
		003 Scientific Scholarships and Cultural Exchange	141863	112000	104000	50000	0	0
	305	Non-Employees' Bonuses	26999	29100	29000	36000	36000	36000
		Total	282507	290100	282000	325000	185000	185000
		Total of Activity	3148635	3312000	3217000	4281000	4127000	4161000
		Total of Program	3148635	3312000	3217000	4281000	4127000	4161000

Capital Expenditures According to Program and Projects for the Years 2021 - 2025

Chapter : 2003 Jordan Atomic Energy Commission

(In JDs)

Program 6181 Administration and Support Services								
Project 001 Administration and Support Services Program Administration Project								
Fund Source 102001 Capital (Treasury)								
Group	item	Description	Actual 2021	Estimated 2022	Re-estimated 2022	Estimated 2023	Indicative 2024	Indicative 2025
22		Use of Goods and Services						
2211		Use of Goods and Services						
	512	Operating and Sustaining Expenditures						
	015	Operating systems and software	15000	2500	2500	35000	35000	35000
		Total of Item	15000	2500	2500	35000	35000	35000
28		Other Expenditures						
2822		Other Capital Expenditures						
	504	Studies, Research and Consultations						
	027	Purchasing consultation services	0	87000	87000	150000	85000	85000
		Total of Item	0	87000	87000	150000	85000	85000
31		Non-financial Assets						
3112		Devices, Machinery and Equipment						
	505	Equipment, Machines and Devices						
	001	Computers and accessories	8159	500	500	30000	30000	30000
	069	Modernizing and developing devices and equipment	78235	50000	50000	100000	100000	100000
		Total of Item	86394	50500	50500	130000	130000	130000
3122		Inventories						
	503	Materials and supplies						
	001	Computer supplies and accessories	9722	0	0	0	0	0
	006	Laboratories supplies and materials	49946	65000	65000	75000	75000	75000
		Total of Item	59668	65000	65000	75000	75000	75000
		Total of Project / Treasury	161062	205000	205000	390000	325000	325000
Project 002 Supporting energy projects								
Fund Source 102001 Capital (Treasury)								
Group	item	Description	Actual 2021	Estimated 2022	Re-estimated 2022	Estimated 2023	Indicative 2024	Indicative 2025
25		Subsidies						
2511		Subsidies to Public Corporations						
	520	Subsidies to non-financial public corporations/capital						
	031	National Committee for synchrotron	10000	10000	10000	10000	10000	10000
	033	International Committee for synchrotron	368172	369000	369000	370000	370000	370000
	034	Jordanian company for mining	33445	100000	100000	800000	1500000	1500000
		Total of Item	411617	479000	479000	1180000	1880000	1880000
		Total of Project / Treasury	411617	479000	479000	1180000	1880000	1880000
		Total of Program	572679	684000	684000	1570000	2205000	2205000

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6184 Nuclear Research/ Nuclear Reactors formerly Program

Objective of the program :

Establish a Jordanian center for nuclear research using a (5) MWe, nuclear reactor which can be increased to (10) MWe, and to put under the disposal of researchers from Jordanian institutes and universities, produce radioisotope especially those used in the nuclear medicine, establish neutron activation analysis labs and train nuclear engineering and other sciences students.

The strategic objective related to the program :

To establish investment projects to serve the national economy in the field of radiology technology and nuclear energy and to use them in generating electric power and water desalination in addition to other fields.

Directorates associated with the program :

- Nuclear Safety, Security and Guarantees Directorate
- Establishment Operations Directorate
- Technical Support and Supportive Services Directorate
- Nuclear Safety and Licenses Directorate
- Reactor Operation Directorate
- Establishment Maintenance Directorate
- Administrative Services Unit
- Quality Control Unit
- Scientific Research Unit

Services provided by the program :

- Education and training to support nuclear engineering programs and nuclear reactors operation.
- Analysis using Neutron activation technique.
- Produce radioisotopes, of the most important those used in nuclear medicine as Iodine, Molybdenum and Iridium and produce industrial radioisotopes in the following phases.
- Neutron rays applications including non-destructive testing, neutron distraction and neutron defraction.
- Neutron transformation doping.
- Radioactive wastes treatment resulting from using reactor as per international standards and foundations.
- Potential usage as a regional research and training center in cooperation and coordination of the IAEA.

Staff working in the program :

The program is implemented through a functional staff in 2022 estimated with (118) staff, including (85) males and (33) females .

Appropriations directed for females and child

(In JDs)

Description	2021	2022	2023	2024	2025
Females	390,628	477,381	501,992	508,983	515,975
Child	0	0	0	0	0
Appropriations directed according to population index					
Females	395,891	589,850	1,505,880	1,425,980	932,480
Child	303,236	451,800	1,153,440	1,092,240	714,240
Total appropriations directed for females	786,519	1,067,231	2,007,872	1,934,963	1,448,455
Total appropriations directed for Child	303,236	451,800	1,153,440	1,092,240	714,240

Key Performance Indicators for Program

Performance Measurement Indicator	Base Year	Value	Actual value	Target Value	Preliminary Self Evaluation	Target Value		
			2021	2022		2023	2024	2025
1	2020	4	4	6	5	6	7	8
2	2020	31	31	33	31	32	33	34
3	2020	9	9	11	10	11	12	13

Appropriations Of Nuclear Research/ Nuclear Reactors formerly Program as Per Activities and Projects.

(In JDs)

Activities and Projects	Actual	Estimated	Re-estimated	Estimated	Indicative	
	2021	2022	2022	2023	2024	2025
Current Expenditures	1,905,330	2,703,000	2,622,000	2,599,000	2,614,000	2,589,000
601 Nuclear researches	1,905,330	2,703,000	2,622,000	2,599,000	2,614,000	2,589,000

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6184 Nuclear Research/ Nuclear Reactors formerly Program

Appropriations Of Nuclear Research/ Nuclear Reactors formerly Program as Per Activities and Projects.

(In JDs)

Activities and Projects	Actual	Estimated	Re-estimated	Estimated	Indicative	
	2021	2022	2022	2023	2024	2025
Capital Expenditures	333,783	259,000	259,000	2,400,000	2,240,000	1,240,000
003 Establishing and operating the research nuclear reactor	333,783	259,000	259,000	2,400,000	2,240,000	1,240,000
Program / Treasury	333,783	259,000	259,000	2,400,000	2,240,000	1,240,000
Total Program	2,239,113	2,962,000	2,881,000	4,999,000	4,854,000	3,829,000

Current Expenditures According to Program and Activities for the Years 2021 - 2025

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(In JDs)

Program : 6184 - Nuclear Research/ Nuclear Reactors formerly								
Activity : 601 - Nuclear researches								
Group	Item	Description	Actual 2021	Estimated 2022	Re-estimated 2022	Estimated 2023	Indicative 2024	Indicative 2025
21		Compensations of Employees						
2111		Salaries, Wages and Allowances						
	102	Unclassified Employees	72083	72000	70000	27000	28000	29000
	103	Comprehensive Contract Employees	88765	92000	85000	110000	113000	117000
	105	Personal Cost of Living Allowance	139017	174000	166000	179000	182000	185000
	106	Family Cost of Living Allowance	12515	15000	15000	15000	15000	15000
	110	Overtime Allowance	0	10000	10000	25000	25000	25000
	111	Additional Allowance	407000	510000	510000	540000	550000	560000
	112	Other Allowances	18000	17000	17000	18000	19000	20000
	113	Transportation Allowance	26000	29000	29000	34000	34000	34000
	114	Transport Allowance	7475	14000	12000	9000	9000	9000
	116	Employees' Bonuses	300000	365000	365000	415000	415000	415000
	120	Contract Employees	210000	260000	254000	263000	266000	269000
		Total	1280855	1558000	1533000	1635000	1656000	1678000
2121		Social Security Contributions						
	301	Social Security	115936	149000	145000	160000	164000	167000
		Total	115936	149000	145000	160000	164000	167000
22		Use of Goods and Services						
2211		Use of Goods and Services						
	202	Telecommunications Services	0	6000	6000	6000	6000	6000
	203	Water	19947	83000	81000	60000	60000	60000
	204	Electricity	291323	685000	648000	455000	445000	395000
	206	Maintenance of Machines, furniture and accessories	964	2000	2000	2000	2000	2000
	208	Repair and maintenance of buildings and accessories	3948	4000	4000	4000	4000	4000
	209	Stationery, Publications and Office Supplies	4990	5000	5000	10000	10000	10000
	210	Substances and raw materials (medicines, clothes, food, films, etc..)	3730	4000	2000	4000	4000	4000
	211	Cleaning services and supplies including cleaning contracts	41656	45000	45000	50000	50000	50000
	212	Insurance	33000	36000	36000	40000	40000	40000
	213	Official Travel Missions	4999	5000	5000	10000	10000	10000
	214	Goods and services expenses	53982	35000	35000	60000	60000	60000
	001	Events and hospitality	4120	5000	5000	10000	10000	10000
	014	Shipment and clearance fees	14999	15000	15000	15000	15000	15000
	084	Fees and licenses	34863	15000	15000	35000	35000	35000
		Total	458539	910000	869000	701000	691000	641000
28		Other Expenditures						
2821		Other Current Expenditures						
	302	Contributions	8000	11000	11000	11000	11000	11000
	014	Saving Fund contribution	8000	11000	11000	11000	11000	11000
	305	Non-Employees' Bonuses	42000	75000	64000	92000	92000	92000
	000	Non-employees' bonuses	42000	42000	42000	52000	52000	52000
	012	Bonuses of engineers and geologists	0	33000	22000	40000	40000	40000
		Total	50000	86000	75000	103000	103000	103000
		Total of Activity	1905330	2703000	2622000	2599000	2614000	2589000
		Total of Program	1905330	2703000	2622000	2599000	2614000	2589000
		Total of Chapter	5053965	6015000	5839000	6880000	6741000	6750000

Capital Expenditures According to Program and Projects for the Years 2021 - 2025

Chapter : 2003 Jordan Atomic Energy Commission

(In JDs)

Program 6184 Nuclear Research/ Nuclear Reactors formerly								
Project		003 Establishing and operating the research nuclear reactor						
Fund Source		102001 Capital (Treasury)						
Group	Item	Description	Actual 2021	Estimated 2022	Re-estimated 2022	Estimated 2023	Indicative 2024	Indicative 2025
22		Use of Goods and Services						
2211		Use of Goods and Services						
	512	Operating and Sustaining Expenditures						
	015	Operating systems and software	33707	25000	25000	50000	50000	50000
	023	Operation contracts	0	0	0	2000000	2000000	1000000
		Total of Item	33707	25000	25000	2050000	2050000	1050000
28		Other Expenditures						
2822		Other Capital Expenditures						
	504	Studies, Research and Consultations						
	027	Purchasing consultation services	64652	102000	102000	60000	0	0
		Total of Item	64652	102000	102000	60000	0	0
31		Non-financial Assets						
3111		Buildings and Constructions						
	508	Works and Constructions						
	040	Constructions	0	15000	15000	100000	0	0
		Total of Item	0	15000	15000	100000	0	0
3112		Devices, Machinery and Equipment						
	505	Equipment, Machines and Devices						
	055	Technical devices	90425	30000	30000	90000	90000	90000
		Total of Item	90425	30000	30000	90000	90000	90000
3122		Inventories						
	503	Materials and supplies						
	006	Laboratories supplies and materials	99999	87000	87000	100000	100000	100000
	007	Lighting supplies	45000	0	0	0	0	0
		Total of Item	144999	87000	87000	100000	100000	100000
		Total of Project / Treasury	333783	259000	259000	2400000	2240000	1240000
		Total of Program	333783	259000	259000	2400000	2240000	1240000
		Total of Chapter	906462	943000	943000	3970000	4445000	3445000