

## Chapter : 2003 Jordan Atomic Energy Commission

**Creation :** 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 other nuclear applications.

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

**Mission :** Creating and developing a catalytic technological, scientific and investment environment for nuclear projects to enhance energy security and contribute to Jordan's economic and social development.

**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 2026 - 2028 :**

**First Priority :**

- Developing the infrastructure and services of the Commission in accordance with domestic and international standards and introducing peaceful uses of nuclear energy in the fields of water and energy.

**Key procedures to achieve the first priority :**

- Preparing specialized studies and researches on the economic feasibility of nuclear energy uses in the areas of desalination, water pumping and electricity generation, and concluding agreements and memorandums of understanding with the relevant authorities (locally and abroad).
- Conducting specialized workshops on peaceful uses of nuclear energy and working to increase local awareness-raising campaigns to promote societal acceptance of the multiple uses of nuclear energy.
- Raising the quality of services provided by applying the highest standards of quality and performance in line with national standards (King Abdullah II Award for Excellence, National Cyber Security Center).
- Strengthening the national nuclear security and safety system, safeguards and non-proliferation system, as well as strengthening the national and Arab system in radiation prevention and response to radiological and nuclear emergencies.
- Marketing and increasing the number of beneficiaries of the Commission's scientific services in all areas.
- Supporting scientific research and innovation and providing a stimulating environment that supports creativity and excellence.
- Work to increase the efficiency of individual and institutional performance and develop and improve employees' capabilities.

**First Priority Outcomes :**

- Incorporating the nuclear option into national plans in the areas of desalination, water pumping and electricity generation.
- Increasing the number of beneficiaries of Commission's services.
- Conducting numerous studies, specialized research and economic feasibility studies of the uses of nuclear energy in the fields of water and energy in Jordan.
- Promoting societal acceptance of Jordan's peaceful nuclear energy uses at the formal and public levels.
- Raising the efficiency of individual and institutional performance and developing workers' abilities.

**First priority-related program :**

- Administration and Support Services

## **Second Priority :**

- Sustaining the operation of Jordan's nuclear reactor for research and training while expanding the delivery of its local and regional services within the optimal use of its applications.

## **Key procedures to achieve the second priority :**

- Ensuring the application of the highest standards of nuclear safety and security, which have been adopted in the design and operation of the reactor.
- Promoting reactor applications by introducing new technologies (neutron stitching technology for industrial purposes and neutron beam applications for neutron imaging and material science research).
- Updating the reactor's business plans and procedures to cover all activities and ensuring that all periodic checks and measurements relating to the safe operation of the reactor are carried out.
- Expanding the production of certified medical and industrial isotopes according to national and international specifications and standards.
- Including applying technical inspection to all pharmaceutical and industrial radioactive products of isotopes and their conformity with locally and globally approved standards and specifications.
- Producing radioactive iridium isotope used for industrial imaging purposes and ensuring that it meets the requirements of ISO 9978 and 2919.

## **Second Priority Outcomes :**

- Introduction of new technologies (neutron stitching technology to produce high-quality semiconductors and neutron beam applications for neutron imaging and material science research).
- Adopting the reactor's business plans and procedures to cover all activities and ensuring that all periodic checks and measurements relating to the safe operation of the reactor are carried out.
- Producing other medical and industrial isotopes certified according to national and international standards.

## **Second priority-related program :**

- Nuclear research/former nuclear reactors.

## **Third Priority :**

- Expanding the exploration and exploitation of nuclear materials in Jordan, most notably uranium, through the Jordan Uranium Mining Company.

## **Key procedures to achieve the third priority :**

- Completing the technical and economic studies required to complete the detailed economic feasibility study for the uranium project in the central Jordan region.
- Studies of the extraction of uranium-accompanying elements and uranium production from industrial groupings of phosphoric acid.
- Studying environmental impact assessment.
- Completing the supply of automated analysis laboratories, mining studies laboratory with advanced devices and equipment.
- Engaging employees in internal and external training courses to raise the productivity rate and develop the Company's scientific competence.
- Continued cooperation with the International Atomic Energy Agency (IAEA) through the technical cooperation programme to build the technical capacity of human resources and procure the necessary equipment and equipment for the project in partnership with the Agency.
- Increasing the number of trainees from outside the company to provide the labour market with trained industrial expertise.
- Providing technical and logistical services in exploration for other mining projects in the Kingdom.
- Cooperating with government institutions, universities, scientific centres and the private sector.
- Establishing strategic international partnerships in the field of uranium extraction and mining.

### **Third Priority Outcomes :**

- Detailed economic feasibility study of the uranium project in the central Jordan region (2025-2027).
- Expansion of uranium exploration for promising areas in the Kingdom.
- Producing additional quantities of yellow cake by raising the production capacity of the pilot factory.
- Technical studies of uranium-accompanying elements in the central Jordan region.
- Technical studies on the production of uranium from the industrial groupings of phosphoric acid in the Kingdom.
- Environmental impact assessment study of the project.
- Providing the company with advanced hardware and equipment.
- Increasing the number of agreements with government institutions and scientific centres in addition to private sector companies.
- Trained technical competencies in uranium exploration and mining.
- Signing international agreements and establishing new partnerships for uranium exploration and mining.

### **Third priority-related program :**

- Administration and Support Services
- Nuclear research/former nuclear reactors.

### **Tasks of the Ministry / Department :**

- Conducting and supporting research and studies in the theoretical and applied fields of energy, nuclear science and radiation technology, documenting and disseminating information and providing scientific and technical advice.
- Establishment, development and placement of scientific research facilities and laboratories for radiation technology and nuclear materials in the service of institutions, scientists and researchers.
- Developing technical bases for the extraction of domestic nuclear materials such as uranium, thorium, zirconium and funadium elements, heavy water manufacturing, and establishing installations and facilities for the individual extraction and mining of these elements or in partnership with the public or private sectors.
- Treatment and manufacture of nuclear material at all stages of the nuclear fuel cycle and its management.
- Processing, disposal and management of radioactive wastes.
- Establishment of investment projects, including the establishment and management of companies in the field of nuclear energy applications such as power plants, desalination of water, the establishment of nuclear reactors and accelerators for various peaceful purposes and radiation technology on a commercial basis individually or jointly with the public or private sectors.
- Liaising with institutions and bodies involved in nuclear and radiological science and technology in Arab and foreign States to benefit from scientific expertise, research and aid in the development and implementation of peaceful uses of nuclear energy and radiation technology.
- Following up on global developments in the field of power generation using fissile and merger nuclear sources and cooperation with relevant Arab, regional and international organizations and bodies.
- Participating in Arab, regional and international nuclear energy projects, whether related to expertise, production or research, with the approval of the Cabinet.
- Regulating the relationship between Jordanian agencies and institutions concerned with science, technology, nuclear applications and ionizing radiation and between them and relevant international, regional and Arab organizations and bodies.
- Inventory and control of all nuclear material subject to comprehensive safeguards that are included in the Commission's projects.

### **The National objectives that the Ministry / Department contributes to achieving :**

- Jordan's development as a center for industries in the region by supplying fast-growing exports with premium and high-value products (high-value industries).
- Improving the use and sustainability of Jordan's natural resources to launch inclusive sectoral growth and improve the quality of life (sustainable resources).

**The most important issues and challenges facing 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.**
- **Poor societal awareness of the importance and benefits of Jordan's nuclear program and its implications for the Jordanian economy.**
- **Negative geopolitical impact of some countries on the development of Jordan's nuclear program for peaceful use in Jordan.**
- **Bureaucracy in administrative and financial procedures and its depletion of time, effort and delay of work.**

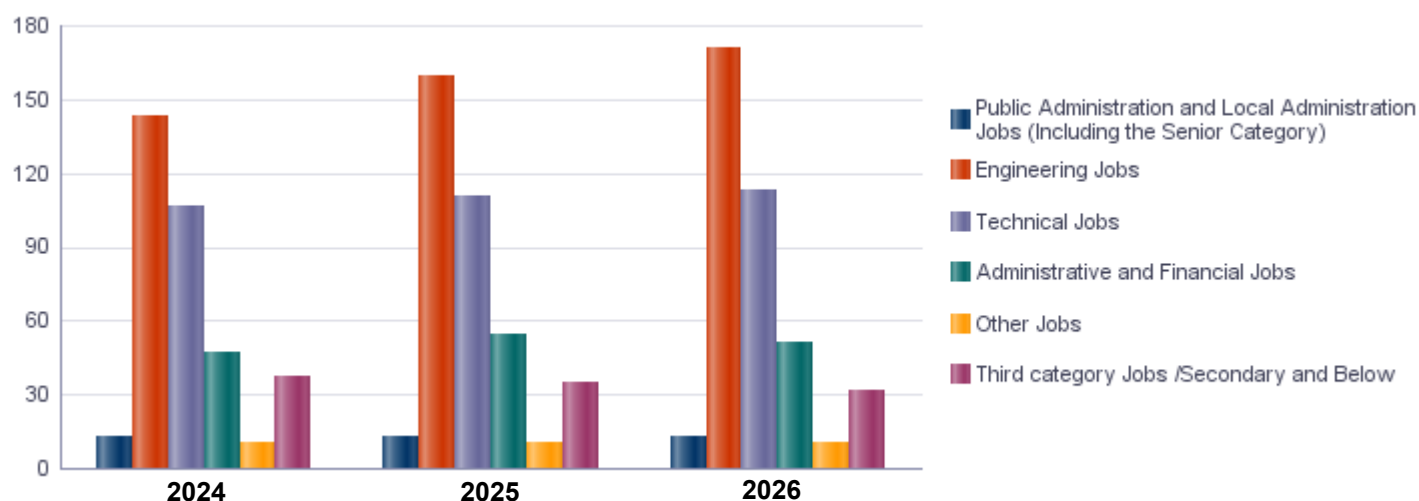
## Chapter : 2003 Jordan Atomic Energy Commission

### Strategic goals 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			
				2024	2025	2025	2026	2027	2028	
				1 - Promoting the peaceful uses of atomic energy in the fields of water and energy	1	Number of conventions and memorandums of understanding (cumulative).	2023	19	23	22
	2	Number of visits and awareness leaflets for all community groups	2023	49	96	30	63	35	40	42
2 - Infrastructure development, institutional development, quality of services and expansion of its field in accordance with local and international standards.	1	Number of beneficiaries of the Commission's services.	2022	300	391	350	338	400	450	450
	2	Percentage of governance standards application.	2019	20%	65%	70%	70%	90%	100%	-
	3	Percentage of services automation (cumulative).	2025	0	0	40%	0%	80%	100%	-
3 - Sustaining the operation of Jordan's nuclear reactor for research and training, ensuring optimal use of its applications and expanding the production of radioisotopes to cover the needs of the local and regional market.	1	Number of radioisotopes produced.	2023	4	5	5	5	6	6	6
	2	Number of studies and research.	2023	4	19	11	8	12	13	15
4 - Expansion of the exploration and exploitation of nuclear materials in Jordan, most notably uranium.	1	Percentage of uranium quantities and accompanying elements in the Central Jordan project	2023	80%	80%	85%	80%	90%	93%	95%
	2	Percentage of area surveyed areas across the Kingdom.	2023	30%	30%	35%	33%	40%	43%	45%
	3	Percentage of environmental impact assessment study for the Central Jordan Project.	2023	10%	20%	30%	25%	70%	80%	85%
5 - Supporting scientific research, innovation, creativity and excellence.	1	Number of researchers.	2023	38	40	45	37	50	51	52
6 - Strengthening the cooperation system within the framework of domestic and international institutions and the private sector.	1	Number of technical cooperation projects implemented at the national level and bilateral cooperation agreements.	2023	25	41	39	35	40	41	43
7 - Developing the Jordanian capabilities and human cadres necessary to implement the Jordanian nuclear program.	1	Number of posts for which the functional skills framework has been prepared.	2025	-	-	30	40	50	70	90
	2	Number of staff participating in technical conferences and meetings.	2020	85	298	150	97	155	160	170

### Number of Staff in the Ministry/ Department/ Unit

Group	Job	2024			2025			Preliminary 2026		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
		Public Administration and Local Administration Jobs (Including the Senior Category)	Supervisory and Leadership	10	3	13	10	3	13	10
Engineering Jobs	Engineer	118	25	143	131	28	159	140	30	170
Technical Jobs	Technical Jobs	85	21	106	88	22	110	90	23	113
Administrative and Financial Jobs	Financial Administration Jobs	29	18	47	35	19	54	31	20	51
Other Jobs	Other jobs	8	3	11	8	3	11	8	3	11
Third category Jobs /Secondary and Below	Support Employee ( Driver,	35	2	37	33	2	35	30	2	32
<b>Total</b>		<b>285</b>	<b>72</b>	<b>357</b>	<b>305</b>	<b>77</b>	<b>382</b>	<b>309</b>	<b>81</b>	<b>390</b>
<b>Total Cost of Salaries</b>		<b>3857597</b>	<b>968514</b>	<b>4826111</b>	<b>4345408</b>	<b>1095592</b>	<b>5441000</b>	<b>4612294</b>	<b>1167706</b>	<b>5780000</b>



**Most notable information about the Ministry/Department/Unit**

<b>No.</b>	<b>Description</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>
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.	26	27	27	28	28
3	Number of companies benefiting from gamma ray sterilization services provided by the Commission.	31	31	31	32	32
4	Number of Jordanian universities benefiting from the technical facilities of the Commission including scientific researches.	13	13	13	14	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 dose.	126	128	128	129	129
6	Number of institutions/ hospitals / medical centers using medical radioisotopes produced by the Jordanian nuclear reactor for training and researches.	12	12	12	13	13

## Chapter : 2003 Jordan Atomic Energy Commission

( In JDs )

Current Activities Appropriations According to Program								
Prog.	Activites		Actual	Estimated	Re-estimated	Estimated	Indicative	Indicative
			2024	2025	2025	2026	2027	2028
6181	601	Administrative and Support Services	4292210	4463000	4258000	4503000	4476000	4500000
	Total of Program		4292210	4463000	4258000	4503000	4476000	4500000
6184	601	Nuclear researches	2597886	3206000	3096000	3606000	3657000	3710000
	Total of Program		2597886	3206000	3096000	3606000	3657000	3710000
Total			6890096	7669000	7354000	8109000	8133000	8210000

Capital Projects Appropriations According to Program								
Prog.	Projects		Actual	Estimated	Re-estimated	Estimated	Indicative	Indicative
			2024	2025	2025	2026	2027	2028
6181	001	Administration and Support Services Program Administration Project	371732	375000	340000	360000	375000	400000
	002	Supporting energy projects.	1680000	2230000	2230000	2480000	2530000	2580000
	Total of Program		2051732	2605000	2570000	2840000	2905000	2980000
6184	003	Establishing and operating the research nuclear reactor	3337074	3570000	3570000	3370000	3500000	3520000
	006	Neutron insertion systems for silicon crystals in the Jordanian nuclear reactor for research and training	0	0	0	1000000	3000000	3000000
	Total of Program		3337074	3570000	3570000	4370000	6500000	6520000
Total			5388806	6175000	6140000	7210000	9405000	9500000

**Overall Summary of Expenditures for Chapter 2003- Jordan Atomic Energy Commission  
for the Years 2024 - 2028**

( In JDs )

Description	Actual	Estimated	Re-estimated	Estimated	Difference between estimated 2026 and re- estimated 2025	Indicative	
	2024	2025	2025	2026		2027	2028
Current Expenditure	6,890,096	7,669,000	7,354,000	8,109,000	755,000	8,133,000	8,210,000
Capital Expenditure	5,388,806	6,175,000	6,140,000	7,210,000	1,070,000	9,405,000	9,500,000
<b>Total current and capital expenditure</b>	<b>12,278,902</b>	<b>13,844,000</b>	<b>13,494,000</b>	<b>15,319,000</b>	<b>1,825,000</b>	<b>17,538,000</b>	<b>17,710,000</b>

**Most notable differences between estimated appropriations for 2026 and re-estimated for 2025**

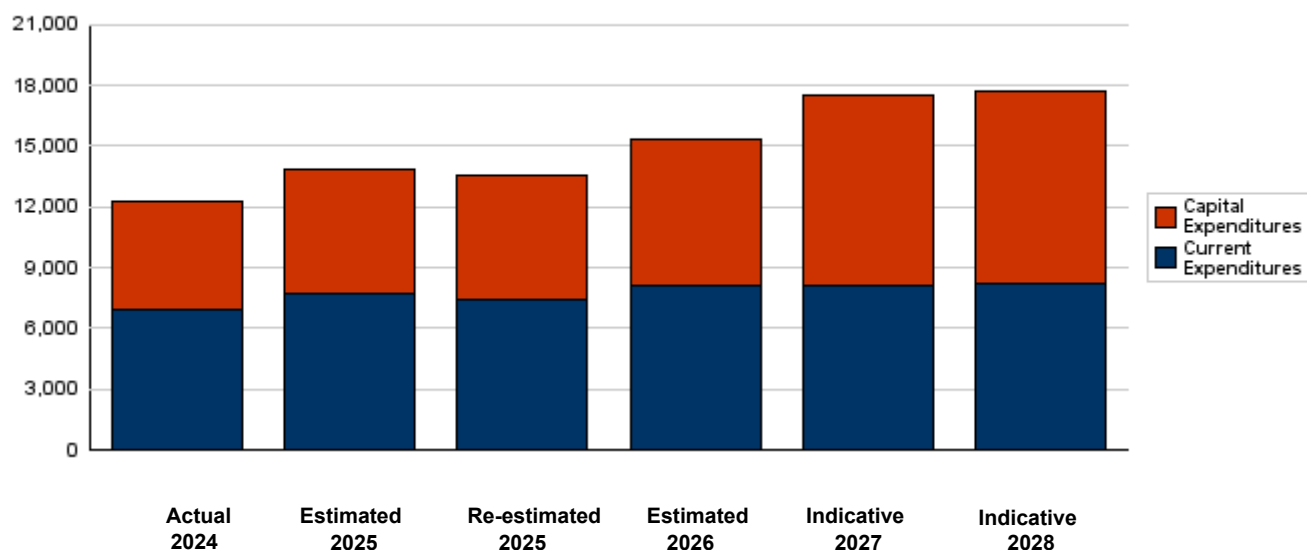
**Current expenditure :**

- Compensation of employees group increased by (613) thousand JDs. This increase was the result of the natural increase in salaries as well as vacancies and new jobs to be recruited in 2026.
- Operating expenses allocations increased by (92) thousand JDs. This increase came as a result of the increase in the items of electricity , service, security, guarding, cleaning and supplies contracts - including cleaning, water and fuel contracts.
- Allocations for other expenditures increased by (50) thousand JDs.

**Capital expenditure :**

- Capital expenditures increased by about (1.07) million JDs, and this increase was concentrated as a result of allocating an amount of (1) million JDs for a project for neutron implantation systems for silicon crystals in the Jordanian nuclear reactor for research and training.

( Thousands of JDs )      Graph of the current and capital expenditures for the years 2024 - 2028



## Overall Summary of Current Expenditures for the Years 2024 - 2028

Chapter : 2003 Jordan Atomic Energy Commission

( In JDs )

Group	Item	Description	Actual 2024	Estimated 2025	Re-estimated 2025	Estimated 2026	Indicative 2027	Indicative 2028
<b>21</b>		<b>Compensations of Employees</b>						
<b>2111</b>		<b>Salaries, Wages and Allowances</b>						
	102	Unclassified Employees	262309	264000	257000	255000	250000	245000
	103	Comprehensive Contract Employees	454253	539000	459000	240000	240000	240000
	105	Personal Cost of Living Allowance	460770	486000	462000	460000	455000	450000
	106	Family Cost of Living Allowance	42160	45000	43000	42000	41000	40000
	110	Overtime Allowance	21707	15000	15000	40000	40000	40000
	111	Additional Allowance	1402636	1511000	1464000	1459000	1454000	1449000
	112	Other Allowances	143671	123000	117000	117000	116000	115000
	113	Transportation Allowance	104840	115000	115000	135000	137000	139000
	114	Transport Allowance	19827	25000	25000	25000	26000	27000
	115	Field Visit Allowance	0	5000	5000	35000	35000	35000
	116	Employees' Bonuses	993437	1115000	1115000	1190000	1190000	1190000
	120	Contract Employees	434523	471000	460000	479000	486000	493000
	121	Fixed-term Contract Employees	0	167000	105000	713000	780000	848000
		<b>Total</b>	<b>4340133</b>	<b>4881000</b>	<b>4642000</b>	<b>5190000</b>	<b>5250000</b>	<b>5311000</b>
<b>2121</b>		<b>Social Security Contributions</b>						
	301	Social Security	485978	560000	525000	590000	600000	612000
		<b>Total</b>	<b>485978</b>	<b>560000</b>	<b>525000</b>	<b>590000</b>	<b>600000</b>	<b>612000</b>
<b>22</b>		<b>Use of Goods and Services</b>						
<b>2211</b>		<b>Use of Goods and Services</b>						
	201	Rents	9850	10000	10000	10000	10000	10000
	202	Telecommunications Services	18581	20000	19000	20000	20000	20000
	203	Water	68068	85000	75000	80000	82000	84000
	204	Electricity	433965	560000	540000	560000	565000	570000
	205	Fuels	58454	60000	60000	65000	67000	69000
	206	Maintenance of Machines, furniture and acce	9875	10000	10000	10000	10000	10000
	207	Maintenance of vehicles, equipment and acce	15513	15000	15000	17000	17000	17000
	208	Repair and maintenance of buildings and acc	18942	15000	15000	20000	20000	20000
	209	Stationery, Publications and Office Supplies	20973	20000	20000	22000	22000	22000
	210	Substances and raw materials (medicines, cl	8930	10000	10000	10000	10000	10000
	211	Cleaning services and supplies including cle	107605	115000	115000	130000	130000	130000
	212	Insurance	46969	50000	48000	50000	50000	50000
	213	Official Travel Missions	33121	30000	30000	35000	35000	35000
	214	Goods and services expenses	776322	778000	770000	800000	795000	790000
		<b>Total</b>	<b>1627168</b>	<b>1778000</b>	<b>1737000</b>	<b>1829000</b>	<b>1833000</b>	<b>1837000</b>
<b>28</b>		<b>Other Expenditures</b>						
<b>2821</b>		<b>Other Current Expenditures</b>						
	302	Contributions	229910	255000	255000	255000	255000	255000
	303	Scientific scholarships and training courses	48544	50000	50000	75000	25000	25000
	305	Non-Employees' Bonuses	158363	145000	145000	170000	170000	170000
		<b>Total</b>	<b>436817</b>	<b>450000</b>	<b>450000</b>	<b>500000</b>	<b>450000</b>	<b>450000</b>
		<b>Total of Chapter</b>	<b>6890096</b>	<b>7669000</b>	<b>7354000</b>	<b>8109000</b>	<b>8133000</b>	<b>8210000</b>

# Overall Summary of Capital Expenditures for the Years 2024 - 2028

Chapter : 2003 Jordan Atomic Energy Commission

( In JDs )

Group	Item	Description	Actual 2024	Estimated 2025	Re-estimated 2025	Estimated 2026	Indicative 2027	Indicative 2028
		<b>Expenditures</b>						
21		Compensations of Employees						
2111		Salaries, Wages and Allowances						
	502	Wages	0	20000	20000	20000	20000	20000
<b>Total</b>			<b>0</b>	<b>20000</b>	<b>20000</b>	<b>20000</b>	<b>20000</b>	<b>20000</b>
22		Use of Goods and Services						
2211		Use of Goods and Services						
	512	Operating and Sustaining Expenditures	2973766	3275000	3275000	4075000	6255000	6300000
<b>Total</b>			<b>2973766</b>	<b>3275000</b>	<b>3275000</b>	<b>4075000</b>	<b>6255000</b>	<b>6300000</b>
25		Subsidies						
2511		Subsidies to Public Corporations						
	520	Subsidies to non-financial public corporations/capital	1680000	2230000	2230000	2480000	2530000	2580000
<b>Total</b>			<b>1680000</b>	<b>2230000</b>	<b>2230000</b>	<b>2480000</b>	<b>2530000</b>	<b>2580000</b>
28		Other Expenditures						
2822		Other Capital Expenditures						
	504	Studies, Research and Consultations	179221	145000	145000	145000	145000	145000
<b>Total</b>			<b>179221</b>	<b>145000</b>	<b>145000</b>	<b>145000</b>	<b>145000</b>	<b>145000</b>
		<b>Fixed Assets</b>						
31		Non-financial Assets						
3111		Buildings and Constructions						
	508	Works and Constructions	58602	50000	50000	100000	75000	50000
<b>Total</b>			<b>58602</b>	<b>50000</b>	<b>50000</b>	<b>100000</b>	<b>75000</b>	<b>50000</b>
3112		Devices, Machinery and Equipment						
	505	Equipment, Machines and Devices	239741	250000	220000	180000	155000	155000
	506	Vehicles and Equipment	85600	0	0	0	0	0
<b>Total</b>			<b>325341</b>	<b>250000</b>	<b>220000</b>	<b>180000</b>	<b>155000</b>	<b>155000</b>
3122		Inventories						
	503	Materials and supplies	171876	205000	200000	210000	225000	250000
<b>Total</b>			<b>171876</b>	<b>205000</b>	<b>200000</b>	<b>210000</b>	<b>225000</b>	<b>250000</b>
<b>Total of Chapter</b>			<b>5388806</b>	<b>6175000</b>	<b>6140000</b>	<b>7210000</b>	<b>9405000</b>	<b>9500000</b>

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

( In JDs )

<b>Description</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>
<b>Females</b>	<b>968,514</b>	<b>1,095,592</b>	<b>1,167,706</b>	<b>1,182,072</b>	<b>1,197,054</b>
<b>Child</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Appropriations distributed according to population index</b>					
<b>Females</b>	<b>3,502,812</b>	<b>3,949,410</b>	<b>4,483,330</b>	<b>5,493,360</b>	<b>5,539,890</b>
<b>Child</b>	<b>2,683,005</b>	<b>3,025,080</b>	<b>3,434,040</b>	<b>4,207,680</b>	<b>4,243,320</b>
<b>Total appropriations directed for females</b>	<b>4,471,326</b>	<b>5,045,002</b>	<b>5,651,036</b>	<b>6,675,432</b>	<b>6,736,944</b>
<b>Total appropriations directed for Child</b>	<b>2,683,005</b>	<b>3,025,080</b>	<b>3,434,040</b>	<b>4,207,680</b>	<b>4,243,320</b>

**6181 Program Administration and Support Services**

**Objective of the program :**

- 1- Including the nuclear option in national plans to enhance energy and water security.
- 2- Improving and expanding the scope of the Commission's scientific services (sample analysis, irradiation to sterilization, treatment of natural or industrial-origin radioactive wastes, radiological monitoring of workers).
- 3- Preparation of technical and economic studies for the development of the uranium exploration and production project.
- 4- Moving to process and produce larger quantities of uranium ores, improving and increasing the scientific efficiency of the company's cadres.
- 5- Provision of community support and rehabilitation services.

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

- 1- Promoting the peaceful uses of atomic energy in the fields of water and energy
- 2- Infrastructure development, institutional development, quality of services and expansion of its field in accordance with local and international standards.
- 3- Strengthening the cooperation system within the framework of domestic and international institutions and the private sector.
- 4- Supporting scientific research, innovation, creativity and excellence.
- 5- Developing the Jordanian capabilities and human cadres necessary to implement the Jordanian nuclear program

**Directorates associated with the program :**

- President's Office
- Directorate of Research and Information Laboratories
- Directorate of Irradiation
- Directorate of Radiation and Emergency Protection
- Directorate of Scientific Research and Nuclear Applications
- Quality Directorate
- Directorate of Chemical and Physical Analysis
- Directorate of Safeguards and Nuclear Security
- Directorate of Transport and Radioactive Waste Management
- Directorate of Nuclear Project Development
- Directorate of Advanced Energy Systems
- Directorate of International Cooperation
- Directorate of Information Technology and Cybersecurity
- Directorate of Human Resources & Institutional Development
- Directorate of Finance Affairs
- Directorate of Administrative Affairs
- Internal Control Unit
- Legal Affairs Unit.
- Data and Communications Unit

**Services provided by the program :**

- Providing the following services to the highest quality standards: sample analysis, irradiation to sterilization, management and treatment of radioactive waste, preparedness and response to nuclear and radiological emergencies.
- Provision of specialized consultations and implementation of technical and economic studies and economic feasibility studies for nuclear energy uses in the areas of desalination, water pumping and electricity generation.
- Training and resettlement of Jordanian human resources to work in Jordan's nuclear programme and to explore and mine uranium through their participation in international and regional training programmes and conferences and to inform them of the latest relevant technological developments;
- Providing a stimulating environment for creativity and conducting specialized scientific research.
- Implementation of the economic feasibility study of the uranium project in the central Jordan region.
- Development of uranium and nuclear material surveys and exploration.
- Development of extraction technology according to the latest international standards and production of yellow cake and nuclear material up to commercial production.

**Program's main outputs and results during the years (2026 -2028):**

- National plans that include peaceful uses of nuclear energy in the areas of desalination, water pumping and electricity generation in Jordan based on studies and technical and economic recommendations implemented by the Commission.
- Developing a national strategy that includes the integration of nuclear and renewable energy into Jordan's energy mix to contribute to mitigating climate change.
- Fruitful international cooperation and relations agreements with IAEA and other specialized international organizations.

**The Program's challenges :**

- Migration of technically and scientifically qualified national cadres working in the nuclear programme out of Jordan;
- Regional instability and political tensions, which undermine the opportunity to implement nuclear projects and the negative geopolitical impact of some States on the development of Jordan's nuclear programme for peaceful uses in Jordan.
- Difficulty in developing, transferring and localizing nuclear technology according to the latest international standards, requiring support and investment in research and development.
- Lack of adequate financial resources for the development of Jordan's nuclear programme.
- Poor societal awareness of the importance and benefits of Jordan's nuclear programme and its implications for the Jordanian economy.

**Actions to address challenges and improve services provided:**

- Developing an integrated national strategy that integrates nuclear and renewable energy into the energy mix, with a view to achieving diversity and sustainability in energy supply.
- Stimulating investment in the nuclear energy sector through partnerships with the private sector and international investors, thereby enhancing the economic viability of nuclear projects.
- Focusing on new technologies, such as small and medium-sized nuclear reactors, with lower cost and higher operational flexibility, thus

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### 6181 Program Administration and Support Services

enhancing their competitiveness with other energy sources.

- Investing in continuous training of technical personnel to ensure the development of their skills and keep abreast of the latest technologies.
- Inclusion of small nuclear reactors in desalination and water pumping.
- Approval and activation of the system of the Authority's research system to reduce the migration of cadres.

#### Staff working in the program :

The program is implemented through a functional staff in 2025 estimated with ( 216 ) staff, including ( 174 ) males and ( 42 ) females .

#### Appropriations directed for females and child

(In JDs)

Description	2024	2025	2026	2027	2028
Females	581,468	611,917	604,333	609,000	613,861
Child	0	0	0	0	0
<b>Appropriations directed according to population index</b>					
Females	1,576,162	1,842,870	1,990,450	1,997,030	2,031,810
Child	1,207,273	1,411,560	1,524,600	1,529,640	1,556,280
<b>Total appropriations directed for females</b>	<b>2,157,630</b>	<b>2,454,787</b>	<b>2,594,783</b>	<b>2,606,030</b>	<b>2,645,671</b>
<b>Total appropriations directed for Child</b>	<b>1,207,273</b>	<b>1,411,560</b>	<b>1,524,600</b>	<b>1,529,640</b>	<b>1,556,280</b>

#### Key Performance indicators for Program

Performance Measurement Indicator		Base Year	Value	Actual value	Target value	Preliminary Self Evaluation	Target Value		
				2024	2025		2025	2026	2027
1	Percentage of development of laboratory-level engineering operations to extract uranium and elements associated with the Central Jordan project.	2023	60%	60%	75%	70%	80%	85%	90%
2	Percentage of completion of the design, installation and operation of the pilot factory.	2023	70%	70%	85%	80%	90%	92%	95%
3	Percentage of progress to complete the detailed economic feasibility study of the Central Jordan project.	2023	5%	5%	30%	20%	65%	100%	-
4	Percentage of preliminary economic feasibility study for the production of yellow cake from industrial phosphoric acid assemblies	2025	0	0	20%	12%	60%	70%	80%
5	Number of research published in scientific journals.	2023	19	19	23	17	25	30	30

#### Appropriations 6181 Program Administration and Support Services Per Activities and Projects

(In JDs)

Activities and Projects		Actual 2024	Estimated 2025	Re-estimated 2025	Estimated 2026	Indicative	
						2027	2028
<b>Current Expenditures</b>		<b>4,292,210</b>	<b>4,463,000</b>	<b>4,258,000</b>	<b>4,503,000</b>	<b>4,476,000</b>	<b>4,500,000</b>
601	Administrative and Support Services	4,292,210	4,463,000	4,258,000	4,503,000	4,476,000	4,500,000
<b>Capital Expenditures</b>		<b>2,051,732</b>	<b>2,605,000</b>	<b>2,570,000</b>	<b>2,840,000</b>	<b>2,905,000</b>	<b>2,980,000</b>
001	Administration and Support Services Program Administration Project	371,732	375,000	340,000	360,000	375,000	400,000
002	Supporting energy projects.	1,680,000	2,230,000	2,230,000	2,480,000	2,530,000	2,580,000
<b>Program / Treasury</b>		<b>2,051,732</b>	<b>2,605,000</b>	<b>2,570,000</b>	<b>2,840,000</b>	<b>2,905,000</b>	<b>2,980,000</b>
<b>Total Program</b>		<b>6,343,942</b>	<b>7,068,000</b>	<b>6,828,000</b>	<b>7,343,000</b>	<b>7,381,000</b>	<b>7,480,000</b>

## Current Expenditures According to Program and Activities for the Years 2024 - 2028

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(In JDs)

Program : 6181 - Administration and Support Services								
Activity : 601 - Administrative and Support Services								
Group	Item	Description	Actual 2024	Estimated 2025	Re-estimated 2025	Estimated 2026	Indicative 2027	Indicative 2028
<b>21</b>		<b>Compensations of Employees</b>						
<b>2111</b>		Salaries, Wages and Allowances						
	102	Unclassified Employees	236309	220000	215000	214000	210000	206000
	103	Comprehensive Contract Employees	387893	470000	390000	198000	198000	198000
	105	Personal Cost of Living Allowance	282771	270000	246000	245000	242000	239000
	106	Family Cost of Living Allowance	25160	23000	23000	22000	21000	20000
	110	Overtime Allowance	9272	10000	10000	20000	20000	20000
	111	Additional Allowance	822867	846000	804000	801000	798000	795000
	112	Other Allowances	134000	110000	110000	110000	109000	108000
	113	Transportation Allowance	70840	67000	67000	78000	79000	80000
	114	Transport Allowance	11580	16000	16000	16000	17000	18000
	116	Employees' Bonuses	499624	540000	540000	580000	580000	580000
	120	Contract Employees	181542	211000	202000	211000	215000	219000
	121	Fixed-term Contract Employees	0	67000	45000	30000	325000	350000
		<b>Total</b>	<b>2661858</b>	<b>2850000</b>	<b>2668000</b>	<b>2795000</b>	<b>2814000</b>	<b>2833000</b>
<b>2121</b>		Social Security Contributions						
	301	Social Security	328548	297000	287000	313000	318000	324000
		<b>Total</b>	<b>328548</b>	<b>297000</b>	<b>287000</b>	<b>313000</b>	<b>318000</b>	<b>324000</b>
<b>22</b>		<b>Use of Goods and Services</b>						
<b>2211</b>		Use of Goods and Services						
	201	Rents	9850	10000	10000	10000	10000	10000
	202	Telecommunications Services	13713	14000	13000	14000	14000	14000
	203	Water	8068	15000	13000	15000	16000	17000
	204	Electricity	4880	5000	5000	5000	5000	5000
	205	Fuels	58454	60000	60000	65000	67000	69000
	001	Heating	12436	15000	15000	16000	16000	16000
	002	Saloon vehicles	33272	30000	30000	33000	34000	35000
	003	Transport vehicles and heavy equipment	12746	15000	15000	16000	17000	18000
	206	Maintenance of Machines, furniture and accessories	8000	8000	8000	8000	8000	8000
	207	Maintenance of vehicles, equipment and accessories	15513	15000	15000	17000	17000	17000
	208	Repair and maintenance of buildings and accessories	15000	11000	11000	16000	16000	16000
	209	Stationery, Publications and Office Supplies	11052	10000	10000	11000	11000	11000
	210	Substances and raw materials (medicines, clothes, food, films, etc..)	5000	5000	5000	5000	5000	5000
	211	Cleaning services and supplies including cleaning contracts	54613	55000	55000	65000	65000	65000
	212	Insurance	6970	15000	13000	15000	15000	15000
	213	Official Travel Missions	23666	20000	20000	25000	25000	25000
	214	Goods and services expenses	736978	733000	725000	754000	750000	746000
	001	Events and hospitality	55000	48000	45000	49000	45000	41000
	008	Advertisements and subscriptions	16824	20000	15000	20000	20000	20000
	013	Services, security and guarding contracts	637000	630000	630000	650000	650000	650000
	014	Shipment and clearance fees	18154	25000	25000	25000	25000	25000
	084	Fees and licenses	10000	10000	10000	10000	10000	10000
		<b>Total</b>	<b>971757</b>	<b>976000</b>	<b>963000</b>	<b>1025000</b>	<b>1024000</b>	<b>1023000</b>
<b>28</b>		<b>Other Expenditures</b>						
<b>2821</b>		Other Current Expenditures						
	302	Contributions	218913	242000	242000	242000	242000	242000
	014	Saving Fund contribution	28914	32000	32000	32000	32000	32000
	018	International Agency for Atomic Energy and Arab Commission	189999	210000	210000	210000	210000	210000
	303	Scientific scholarships and training courses	48544	50000	50000	75000	25000	25000
	000	Scientific missions and training courses	19794	20000	20000	25000	25000	25000
	003	Scientific Scholarships and Cultural Exchange	28750	0	0	0	0	0
	011	Scholarships	0	30000	30000	50000	0	0
	305	Non-Employees' Bonuses	62590	48000	48000	53000	53000	53000
		<b>Total</b>	<b>330047</b>	<b>340000</b>	<b>340000</b>	<b>370000</b>	<b>320000</b>	<b>320000</b>
		<b>Total of Activity</b>	<b>4292210</b>	<b>4463000</b>	<b>4258000</b>	<b>4503000</b>	<b>4476000</b>	<b>4500000</b>
		<b>Total of Program</b>	<b>4292210</b>	<b>4463000</b>	<b>4258000</b>	<b>4503000</b>	<b>4476000</b>	<b>4500000</b>

# Capital Expenditures According to Program and Projects for the Years 2024 - 2028

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( 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 2024	Estimated 2025	Re-estimated 2025	Estimated 2026	Indicative 2027	Indicative 2028
22		Use of Goods and Services						
2211		Use of Goods and Services						
	512	Operating and Sustaining Expenditures						
	015	Operating systems and software	17943	5000	5000	20000	20000	20000
	035	Technical and administrative support	45000	20000	20000	50000	50000	50000
		<b>Total of Item</b>	<b>62943</b>	<b>25000</b>	<b>25000</b>	<b>70000</b>	<b>70000</b>	<b>70000</b>
28		Other Expenditures						
2822		Other Capital Expenditures						
	504	Studies, Research and Consultations						
	027	Purchasing consultation services	84711	75000	75000	75000	75000	75000
		<b>Total of Item</b>	<b>84711</b>	<b>75000</b>	<b>75000</b>	<b>75000</b>	<b>75000</b>	<b>75000</b>
31		Non-financial Assets						
3112		Devices, Machinery and Equipment						
	505	Equipment, Machines and Devices						
	001	Computers and accessories	49681	40000	40000	25000	25000	25000
	069	Modernizing and developing devices and equipment	99469	130000	100000	80000	80000	80000
		<b>Total of Item</b>	<b>149150</b>	<b>170000</b>	<b>140000</b>	<b>105000</b>	<b>105000</b>	<b>105000</b>
3122		Inventories						
	503	Materials and supplies						
	006	Laboratories supplies and materials	74928	105000	100000	110000	125000	150000
		<b>Total of Item</b>	<b>74928</b>	<b>105000</b>	<b>100000</b>	<b>110000</b>	<b>125000</b>	<b>150000</b>
		<b>Total of Project / Treasury</b>	<b>371732</b>	<b>375000</b>	<b>340000</b>	<b>360000</b>	<b>375000</b>	<b>400000</b>
Project		002 Supporting energy projects.						
Fund Source		102001 Capital (Treasury)						
Group	item	Description	Actual 2024	Estimated 2025	Re-estimated 2025	Estimated 2026	Indicative 2027	Indicative 2028
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	370000	470000	470000	470000	470000	470000
	034	Jordanian company for mining	1300000	1750000	1750000	2000000	2050000	2100000
		<b>Total of Item</b>	<b>1680000</b>	<b>2230000</b>	<b>2230000</b>	<b>2480000</b>	<b>2530000</b>	<b>2580000</b>
		<b>Total of Project / Treasury</b>	<b>1680000</b>	<b>2230000</b>	<b>2230000</b>	<b>2480000</b>	<b>2530000</b>	<b>2580000</b>
		<b>Total of Program</b>	<b>2051732</b>	<b>2605000</b>	<b>2570000</b>	<b>2840000</b>	<b>2905000</b>	<b>2980000</b>

**6184 Program Nuclear Research/ Nuclear Reactors formerly**

**Objective of the program :**

- Maintaining the safe operation of Jordan's nuclear reactor for research and training for specialized research, expanding the production of radioisotopes and providing a platform for specialized training at the local and regional levels.

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

- Sustaining the operation of Jordan's nuclear reactor for research and training, ensuring optimal use of its applications and expanding the production of radioisotopes to cover the needs of the local and regional market.
- Expansion of the exploration and exploitation of nuclear materials in Jordan, most notably uranium.

**Directorates associated with the program :**

- Operations and Operational Management
- Directorate of Nuclear Security
- Radioisotope Production Directorate
- Directorate of Nuclear Safety and Licensing
- Reactor Operating Directorate
- Maintenance Directorate
- Directorate of Radiation Protection and Occupational Safety
- Directorate of Administration and Logistics Services
- Directorate of Compliance and Security
- Directorate of Uses

**Services provided by the program :**

- Specialized training in nuclear science and technology for students of nuclear engineering and other nuclear sciences and engineers and technicians for the operation, maintenance and development of nuclear reactors, whether from Jordan or the States of the region.
- Providing a specialized platform for scientific research and studies for students of science, nuclear engineering or researchers.
- Provision of radioisotopes for medical and industrial uses.
- Management of radioactive wastes resulting from the reactor's uses in accordance with international principles and standards.
- Analysis using neutron activation technique.
- Provision of technical consultations specializing in the field of nuclear and radiation.
- Analysis using liquid flash counting device.

**Program's main outputs and results during the years (2026 -2028):**

- Specialized Jordanian professional cadres capable of operating and managing nuclear reactors according to the highest standards of security and nuclear safety.
- Providing Jordan's needs and exporting surplus production of radioisotopes, such as iodine (I-131) and molybdenum (Mo-99), and producing synthetic isotopes such as (Ir-192).
- Applications of neutron beams including neutron dispersion, neutron diffraction and materials science research.
- Neutron stitches.
- Pilot regional research and training centre in cooperation and coordination with IAEA.

**The Program's challenges :**

- Lack of adequate and necessary financial resources for the implementation of the above-mentioned scientific and industrial projects.
- The migration of Jordan's competencies in the nuclear field to work in nuclear projects outside Jordan.
- The difficulty of sustaining and securing the nuclear fuel manufactured to reactor due to prevailing regional and international conditions.

**Actions to address challenges and improve services provided:**

- Diversification and openness to sources of fuel supply from several international entities.
- Rotation the financial resources derived from the reactor's activities as the primary source for the establishment of the above-mentioned scientific nuclear facilities.
- Approval and activation of the system of the Authority's research system to reduce the migration of cadres.

**Staff working in the program :**

The program is implemented through a functional staff in 2025 estimated with ( 166 ) staff, including ( 131 ) males and ( 35 ) females .

**Appropriations directed for females and child**

(In JDs)

Description	2024	2025	2026	2027	2028
<b>Females</b>	<b>387,046</b>	<b>483,675</b>	<b>563,373</b>	<b>573,072</b>	<b>583,193</b>
<b>Child</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Appropriations directed according to population index</b>					
<b>Females</b>	<b>1,926,650</b>	<b>2,106,540</b>	<b>2,492,880</b>	<b>3,496,330</b>	<b>3,508,080</b>
<b>Child</b>	<b>1,475,732</b>	<b>1,613,520</b>	<b>1,909,440</b>	<b>2,678,040</b>	<b>2,687,040</b>
<b>Total appropriations directed for females</b>	<b>2,313,696</b>	<b>2,590,215</b>	<b>3,056,253</b>	<b>4,069,402</b>	<b>4,091,273</b>
<b>Total appropriations directed for Child</b>	<b>1,475,732</b>	<b>1,613,520</b>	<b>1,909,440</b>	<b>2,678,040</b>	<b>2,687,040</b>

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**6184 Program Nuclear Research/ Nuclear Reactors formerly**

Key Performance indicators for Program									
Performance Measurement Indicator		Base Year	Value	Actual value	Target value	PreliminarySelf Evaluation	Target Value		
				2024	2025		2025	2026	2027
1	Number of produced radioisotopes.	2023	4	4	5	5	6	6	6
2	Percentage of customer satisfaction of reactor services.	2019	94%	96%	97%	97%	98%	98%	98%
Appropriations 6184 Program Nuclear Research/ Nuclear Reactors formerly Per Activities and Projects (In JDs)									
Activities and Projects		Actual 2024	Estimated 2025	Re-estimated 2025	Estimated 2026	Indicative 2027		Indicative 2028	
<b>Current Expenditures</b>		<b>2,597,886</b>	<b>3,206,000</b>	<b>3,096,000</b>	<b>3,606,000</b>	<b>3,657,000</b>	<b>3,710,000</b>		
601	Nuclear researches	2,597,886	3,206,000	3,096,000	3,606,000	3,657,000	3,710,000		
<b>Capital Expenditures</b>		<b>3,337,074</b>	<b>3,570,000</b>	<b>3,570,000</b>	<b>4,370,000</b>	<b>6,500,000</b>	<b>6,520,000</b>		
003	Establishing and operating the research nuclear reactor	3,337,074	3,570,000	3,570,000	3,370,000	3,500,000	3,520,000		
006	Neutron insertion systems for silicon crystals in the Jordanian nuclear reactor for research and training	0	0	0	1,000,000	3,000,000	3,000,000		
<b>Program / Treasury</b>		<b>3,337,074</b>	<b>3,570,000</b>	<b>3,570,000</b>	<b>4,370,000</b>	<b>6,500,000</b>	<b>6,520,000</b>		
<b>Total Program</b>		<b>5,934,960</b>	<b>6,776,000</b>	<b>6,666,000</b>	<b>7,976,000</b>	<b>10,157,000</b>	<b>10,230,000</b>		

**Current Expenditures According to Program and Activities for the Years 2024 - 2028**

Chapter : 2003 - Jordan Atomic Energy Commission

(In JDs)

Program : 6184 - Nuclear Research/ Nuclear Reactors formerly								
Activity : 601 - Nuclear researches								
Group	Item	Description	Actual 2024	Estimated 2025	Re-estimated 2025	Estimated 2026	Indicative 2027	Indicative 2028
<b>21</b>		<b>Compensations of Employees</b>						
<b>2111</b>		Salaries, Wages and Allowances						
	102	Unclassified Employees	26000	44000	42000	41000	40000	39000
	103	Comprehensive Contract Employees	66360	69000	69000	42000	42000	42000
	105	Personal Cost of Living Allowance	177999	216000	216000	215000	213000	211000
	106	Family Cost of Living Allowance	17000	22000	20000	20000	20000	20000
	110	Overtime Allowance	12435	5000	5000	20000	20000	20000
	111	Additional Allowance	579769	665000	660000	658000	656000	654000
	112	Other Allowances	9671	13000	7000	7000	7000	7000
	113	Transportation Allowance	34000	48000	48000	57000	58000	59000
	114	Transport Allowance	8247	9000	9000	9000	9000	9000
	115	Field Visit Allowance	0	5000	5000	35000	35000	35000
	116	Employees' Bonuses	493813	575000	575000	610000	610000	610000
	120	Contract Employees	252981	260000	258000	268000	271000	274000
	121	Fixed-term Contract Employees	0	100000	60000	413000	455000	498000
		<b>Total</b>	<b>1678275</b>	<b>2031000</b>	<b>1974000</b>	<b>2395000</b>	<b>2436000</b>	<b>2478000</b>
<b>2121</b>		Social Security Contributions						
	301	Social Security	157430	263000	238000	277000	282000	288000
		<b>Total</b>	<b>157430</b>	<b>263000</b>	<b>238000</b>	<b>277000</b>	<b>282000</b>	<b>288000</b>
<b>22</b>		<b>Use of Goods and Services</b>						
<b>2211</b>		Use of Goods and Services						
	202	Telecommunications Services	4868	6000	6000	6000	6000	6000
	203	Water	60000	70000	62000	65000	66000	67000
	204	Electricity	429085	555000	535000	555000	560000	565000
	206	Maintenance of Machines, furniture and accessories	1875	2000	2000	2000	2000	2000
	208	Repair and maintenance of buildings and accessories	3942	4000	4000	4000	4000	4000
	209	Stationery, Publications and Office Supplies	9921	10000	10000	11000	11000	11000
	210	Substances and raw materials (medicines, clothes, food, films, etc..)	3930	5000	5000	5000	5000	5000
	211	Cleaning services and supplies including cleaning contracts	52992	60000	60000	65000	65000	65000
	212	Insurance	39999	35000	35000	35000	35000	35000
	213	Official Travel Missions	9455	10000	10000	10000	10000	10000
	214	Goods and services expenses	39344	45000	45000	46000	45000	44000
	001	Events and hospitality	9999	10000	10000	11000	10000	9000
	014	Shipment and clearance fees	9402	15000	15000	15000	15000	15000
	084	Fees and licenses	19943	20000	20000	20000	20000	20000
		<b>Total</b>	<b>655411</b>	<b>802000</b>	<b>774000</b>	<b>804000</b>	<b>809000</b>	<b>814000</b>
<b>28</b>		<b>Other Expenditures</b>						
<b>2821</b>		Other Current Expenditures						
	302	Contributions	10997	13000	13000	13000	13000	13000
	014	Saving Fund contribution	10997	13000	13000	13000	13000	13000
	305	Non-Employees' Bonuses	95773	97000	97000	117000	117000	117000
	000	Non-employees' bonuses	48789	52000	52000	57000	57000	57000
	012	Bonuses of engineers and geologists	46984	45000	45000	60000	60000	60000
		<b>Total</b>	<b>106770</b>	<b>110000</b>	<b>110000</b>	<b>130000</b>	<b>130000</b>	<b>130000</b>
		<b>Total of Activity</b>	<b>2597886</b>	<b>3206000</b>	<b>3096000</b>	<b>3606000</b>	<b>3657000</b>	<b>3710000</b>
		<b>Total of Program</b>	<b>2597886</b>	<b>3206000</b>	<b>3096000</b>	<b>3606000</b>	<b>3657000</b>	<b>3710000</b>
		<b>Total of Chapter</b>	<b>6890096</b>	<b>7669000</b>	<b>7354000</b>	<b>8109000</b>	<b>8133000</b>	<b>8210000</b>

# Capital Expenditures According to Program and Projects for the Years 2024 - 2028

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 2024	Estimated 2025	Re-estimated 2025	Estimated 2026	Indicative 2027	Indicative 2028
<b>21</b>		<b>Compensations of Employees</b>						
<b>2111</b>		Salaries, Wages and Allowances						
	502	Wages						
	001	Wages	0	20000	20000	20000	20000	20000
		<b>Total of Item</b>	0	20000	20000	20000	20000	20000
<b>22</b>		<b>Use of Goods and Services</b>						
<b>2211</b>		Use of Goods and Services						
	512	Operating and Sustaining Expenditures						
	015	Operating systems and software	44619	50000	50000	50000	50000	50000
	023	Operation contracts	2866204	3200000	3200000	2955000	3135000	3180000
		<b>Total of Item</b>	2910823	3250000	3250000	3005000	3185000	3230000
<b>28</b>		<b>Other Expenditures</b>						
<b>2822</b>		Other Capital Expenditures						
	504	Studies, Research and Consultations						
	014	Studies, researches and design	42605	20000	20000	20000	20000	20000
	027	Purchasing consultation services	51905	50000	50000	50000	50000	50000
		<b>Total of Item</b>	94510	70000	70000	70000	70000	70000
<b>31</b>		<b>Non-financial Assets</b>						
<b>3111</b>		Buildings and Constructions						
	508	Works and Constructions						
	040	Constructions	58602	50000	50000	100000	75000	50000
		<b>Total of Item</b>	58602	50000	50000	100000	75000	50000
<b>3112</b>		Devices, Machinery and Equipment						
	505	Equipment, Machines and Devices						
	012	Air Conditioners	0	22000	22000	0	0	0
	055	Technical devices	90591	58000	58000	75000	50000	50000
		<b>Total of Item</b>	90591	80000	80000	75000	50000	50000
	506	Vehicles and Equipment						
	003	Pick-up vehicles	29600	0	0	0	0	0
	005	Medium-size passenger buses	56000	0	0	0	0	0
		<b>Total of Item</b>	85600	0	0	0	0	0
<b>3122</b>		Inventories						
	503	Materials and supplies						
	006	Laboratories supplies and materials	96948	100000	100000	100000	100000	100000
		<b>Total of Item</b>	96948	100000	100000	100000	100000	100000
		<b>Total of Project / Treasury</b>	3337074	3570000	3570000	3370000	3500000	3520000
Project		006 Neutron insertion systems for silicon crystals in the Jordanian nuclear reactor for research and training						
Fund Source		102001 Capital (Treasury)						
Group	item	Description	Actual 2024	Estimated 2025	Re-estimated 2025	Estimated 2026	Indicative 2027	Indicative 2028
<b>22</b>		<b>Use of Goods and Services</b>						
<b>2211</b>		Use of Goods and Services						
	512	Operating and Sustaining Expenditures						
	023	Operation contracts	0	0	0	1000000	3000000	3000000
		<b>Total of Item</b>	0	0	0	1000000	3000000	3000000
		<b>Total of Project / Treasury</b>	0	0	0	1000000	3000000	3000000
		<b>Total of Program</b>	3337074	3570000	3570000	4370000	6500000	6520000
		<b>Total of Chapter</b>	5388806	6175000	6140000	7210000	9405000	9500000