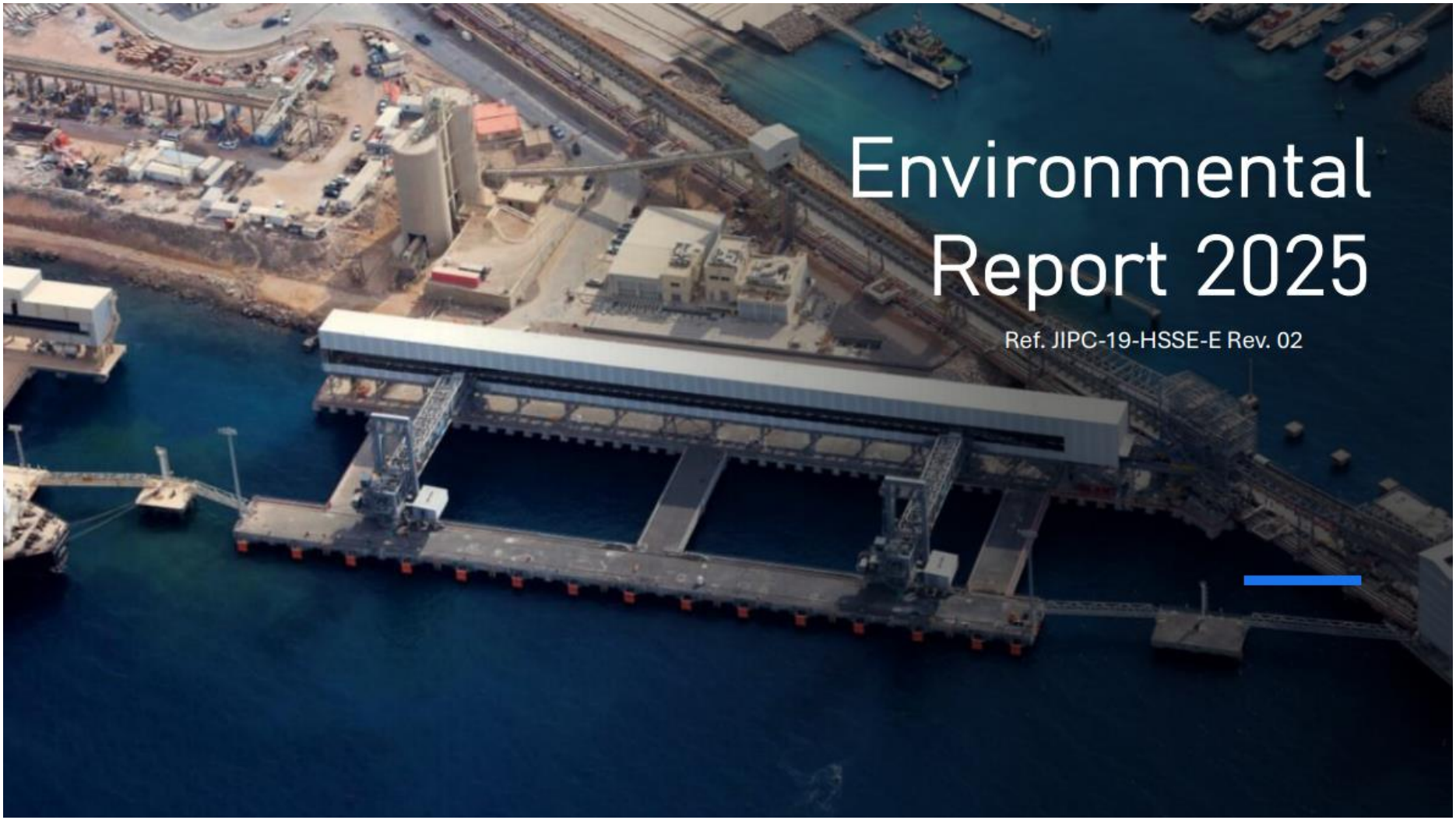

Environmental
Report 2025
Ref. JIPC-19-HSSE-E Rev. 02

1. Introduction:

Jordan Industrial Ports Company (JIPC), Jordan's premier gateway for international fertilizer commerce. Established in 2009, JIPC is strategically located in Aqaba, 22 km south of downtown Aqaba. The port spans 68,770 square meters of land and features three cargo jetties, making it an integrated center for both sea and land connectivity.

2. Role and Commitment

As a vital contributor to Jordan's economy, JIPC provides exceptional service to our customers and stakeholders. Our commitment to excellence is demonstrated through our industry-leading facilities, high safety standards, and environmental awareness. With an infrastructure investment exceeding 135 million JOD, we continually enhance our efficiency and productivity.

3. Port Capabilities

JIPC boasts three fully serviced berths capable of handling dry and liquid bulk up to 10 million tons per year. The port has a maximum draft of 21 meters, accommodating vessels up to 100,000 Deadweight Tons (DWT).

4. Strategic Importance

Founded as a standalone legal entity in alignment with the Aqaba Development Company's vision, JIPC is equally shared between the Arab Potash Company (APC) and the Jordan Phosphate Mines Company (JPMC). Our strategic location in Aqaba offers unparalleled land and sea connectivity, playing a crucial role in facilitating the import and export of bulk materials.

5. Performance and Accreditations

Our operations are accredited with ISO 9001, 45001, 14001, 50001, and Eco Ports certifications, reflecting our commitment to quality, safety, and environmental stewardship.

6. Services and Specializations

Specializing in port operations and material handling, JIPC manages a wide range of products including fertilizers, sulfur, phosphoric acid, and liquid ammonia. We also offer comprehensive vessel support services.

7. Workforce and Diversity

Nearly 80% of our employees are between the ages of 18-39, and 10% of our workforce are women, one of the highest ratios in the industrial sector. Over 96% of our employees are Jordanians, underscoring our dedication to national employment and youth empowerment.

8. Key customers

- Arab Potash Company (APC)
- Jordan Phosphate Mines Co. (JPMC)
- Indo-Jordan Chemicals Company (IJC)

- Jordan India Fertilizer Co. (JIFCO)
- Nippon Jordan Fertilizer Company W.L.L. (NJFC)

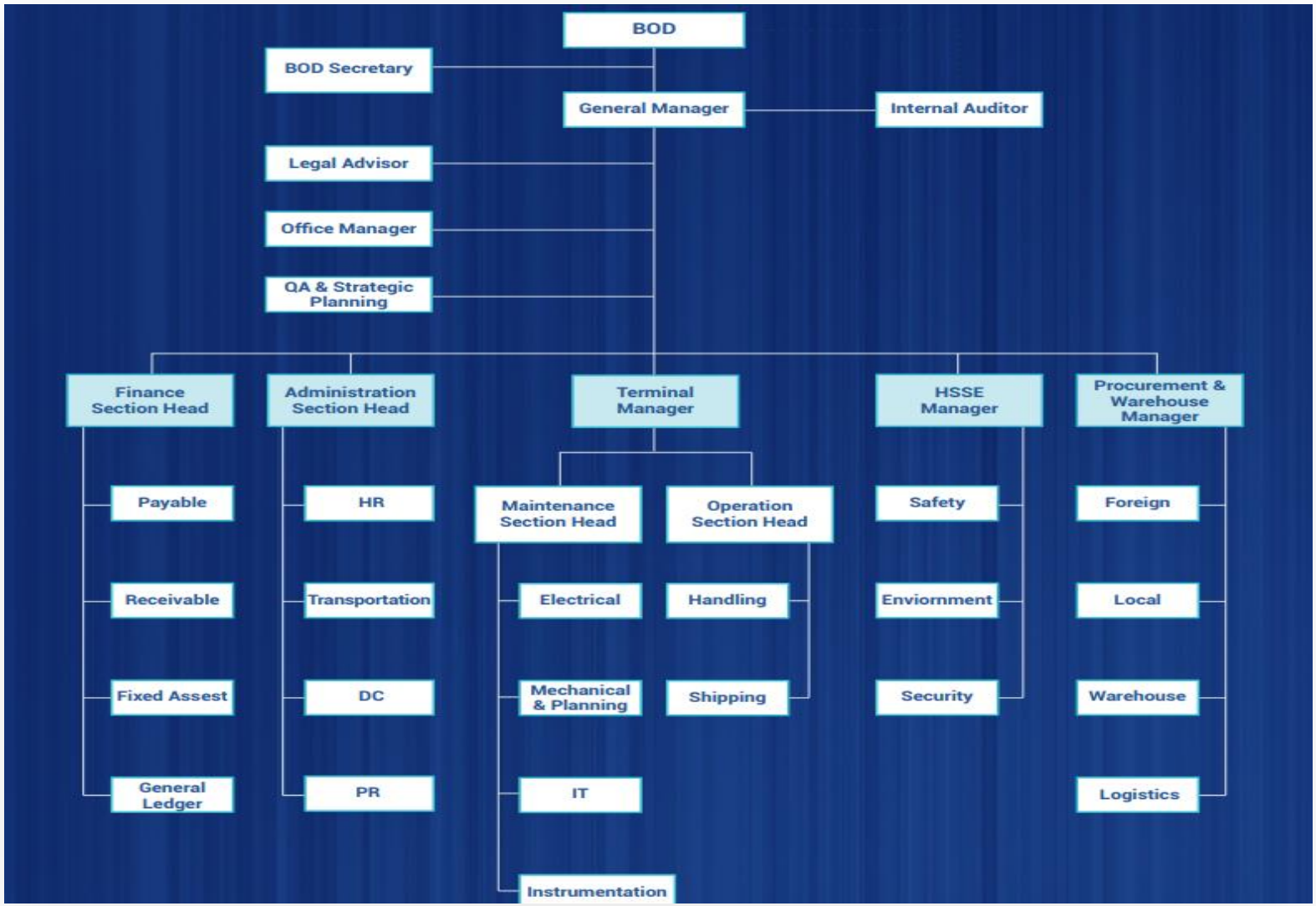
9. Key products

- Muriate of Potash (MOP) in three grades (Fine, Granular, Standard) and two colors (White, Red)
- Diammonium Phosphate (DAP)
- Phosphoric Acid (PA)
- Ammonia
- Sulphur (S)
- Monoammonium Phosphate (MAP)
- Nitrogen and Phosphorus (NP)
- Nitrogen, Phosphorus, and Potassium (NPK)

10. Future Commitment

At JIPC, we take great pride in our role as a fundamental pillar of Jordan's industrial sector. Our operations and initiatives are designed not only to drive substantial economic growth but also to contribute to the sustainable development of the region. By leveraging advanced technologies and adhering to strict environmental standards, we ensure that our impact on the local and global markets is both significant and responsible. Our commitment extends beyond mere economic contributions; we are dedicated to fostering a sustainable future, supporting local community, and enhancing the overall industrial landscape of Jordan.

11. Organizational structure


BOD
BOD Secretary
General Manager
Internal Auditor
Legal Advisor
Office Manager
QA & Strategic Planning
Finance Section Head
Administration Section Head
Terminal Manager
HSSE Manager
Procurement & Warehouse Manager
Payable
Receivable
Fixed Assest
General Ledger
HR
Transportation
DC
PR
Maintenance Section Head
Operation Section Head
Electrical
Mechanical & Planning
IT
Instrumentation
Handling
Shipping
Safety
Enviornment
Security
Foreign
Local
Warehouse
Logistics

12. Environmental policy statement and goals

Jordan Industrial Ports Company
شركة الموانئ الصناعية الأردنية

Ref.: JIPC-18-HSSE- E
HSSE Department

Date: Aug 25,2025
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Environmental Policy Statement

Title:	Author:	Authorized:	Dated:	Revision:
Environmental Policy Statement	Eng. Alaa Hwaitat	Eng. Ahmad Riziq	Aug -25-2025	02

Jordan Industrial Ports Company
شركة الموانئ الصناعية الأردنية

Ref.: JIPC-18-HSSE- E
HSSE Department

Date: Aug 25,2025
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1- Environmental Policy Statement

1. To commit to meeting the needs and expectations of interested parties, complying with all applicable environmental laws, international legislation, and ISO 14001:2015 standards, and integrating environmental protection into commercial and management practices.

2. To Ensure Compliance with the National Port Environmental Guidelines, the environmental Guidelines From IMO, the environmental guidelines from the world Trade Organization.

3. To provide continuous environmental education, training, and awareness programs to employees, contractors, and stakeholders to ensure responsible, innovative, and sustainable practices in all activities

4. To encourage appropriate relation with the public and private sector of the port community, include consultations with local Communities, authorities, and other Relevant Stakeholders in terms of environmental issues, to promote community participation, co-create a friendly port city-environment.

5. To publish every 2 years the port's Environmental Performance on the Port's website.

6. To continual analyze the results and establishment of actions aimed at the continues improvement of the organization and other relevant Stakeholders and to contribute to it.

7. To support research, innovation, and technology adoption for cleaner, safer, and more sustainable port operations, including renewable energy integration, digital monitoring, and automation.

8. To commit to climate action by reducing greenhouse gas emissions, enhancing energy efficiency, promoting renewable energy use, and contributing to national and international climate goals

2- Environmental Policy Goals

1. Conduct regular reviews and updates of the Environmental Policy and Environmental Management System (EMS), aligned with ISO 14001:2015 requirements and emerging global best practices.

2. Maintain and test emergency and response plans for all possible incidents in the port area to minimize negative impacts on the marine, coastal, and urban environment.

3. Ensure compliance with all local, national, and international environmental obligations, supported by internal audits and external verification.

4. Empower employees through training, resources, and innovation tools to adopt a proactive role in environmental protection and sustainability.
5. Improve air quality through advanced monitoring, emission reduction programs, and cleaner energy alternatives.

6. Reduce waste by implementing a circular economy approach, enhancing waste segregation, recycling, and promoting zero-waste initiatives

7. Develop and implement sustainable port development strategies that integrate environmental protection with smart city and community development initiatives.

8. Strengthen relationships with local communities through open communication, partnerships, and corporate social responsibility initiatives.

9. Achieve measurable climate action targets, including a pathway towards carbon neutrality by 2050.

10. Increase renewable energy use to ensure access to affordable, reliable, sustainable, and modern energy by 2030

Title:	Author:	Authorized:	Dated:	Revision:
Environmental Policy Statement	Eng. Alaa Hwaitat	Eng. Ahmad Riziq	Aug -25-2025	02

13. Action plan

In alignment with national legislation, international conventions, and the Jordan Industrial Ports Company's (JIPC) environmental policy, a structured Policy Action Plan has been developed to address significant environmental aspects arising from port activities. This plan outlines the key impacts, corresponding policies, and actions implemented to mitigate risks and enhance sustainability performance. It further assigns clear responsibilities, measurable KPIs, and concrete targets to ensure that progress is systematically monitored and achieved. The table below provides a comprehensive overview of JIPC's environmental initiatives and achievements for 2023 and 2024, serving as a roadmap for continuous improvement and the advancement of sustainable port operations.

Nr	Significant Env. Aspect	Env. Impact / Issue	Port Policy	Actions Taken	Responsible Actor	KPI	Concrete Measurable Targets	2023	2024
1	Air emissions from port operations	Air pollution, GHG emissions	Commitment to improve air quality and mitigate climate change impacts	Conducted third-party air quality monitoring twice a year	HSE Dept. / Env. Section	Concentrations of SO_2, NO_2, NH_3, H_2S, CO, TSP, PM_{10}, $PM_{2.5}$ ($\mu g/m^3$)	Compliance with Jordanian Standard JS 1140:2024 (Ambient Air Quality)	Results did not exceed allowable limits as per JS 1140:2024	Results did not exceed allowable limits as per JS 1140:2024
2	Energy consumption	High carbon footprint, operational costs	Increase renewable energy use, energy efficiency	Replaced conventional lighting with LED (20W instead of 36W / 58W)	Electrical section/Energy team	Monthly electricity consumption (MWh) and cost savings (JD)	Reduce consumption rate and cost by minimum (5%)	Achieved	Achieved
3	Waste management	Land & marine pollution,	Circular economy,	Waste segregation bins,	HSSE Dep/Env. Section	Segregation and recycling	Reduce quantities of domestic waste	Achieved	Achieved

Nr	Significant Env. Aspect	Env. Impact / Issue	Port Policy	Actions Taken	Responsible Actor	KPI	Concrete Measurable Targets	2023	2024
		non-compliance	zero-waste initiatives	hazardous waste Disposal		rate of domestic and hazardous waste			
4	Emergency preparedness	Oil spill, hazardous materials release	Maintain emergency & response plans	Conducted spill response drill	Emergency Response Unit	# of drills conducted/ year	1 annually	1 drill completed	1 drill completed
5	Treated Water used for irrigation	Potential soil/plant contamination, risk of non-compliance	Ensure safe reuse of treated water in compliance with national environmental standards	Regular water quality testing (quarterly)	Marine Operations	4 tests per year	Compliance with accepted limits for treated water used in irrigation of crops (Category C: field crops, industrial crops, forest stands)	Results met the standard	Results met the standard
6	Community & stakeholder engagement	Lack of trust, social risks	Strengthen relationships with local communities	Held quarterly stakeholder meetings	Executive management	# of stakeholder engagements/year	At least 2stakeholder meetings/year	2 meetings conducted	3 meetings conducted

Nr	Significant Env. Aspect	Env. Impact / Issue	Port Policy	Actions Taken	Responsible Actor	KPI	Concrete Measurable Targets	2023	2024
7	Training & awareness	Low staff engagement	Provide continuous environmental education	Monthly toolbox talks & workshops	HR / HSSE Dept.	% of staff trained annually	Train 100% of staff by 2025	60% trained	80% trained
8	Sustainable port development	Long-term environmental footprint	Integrate sustainability in port projects	Environmental Impact Assessments (EIA) for projects	Planning Dept./Env. section	% of new projects with EIAs	100% EIAs for new projects	100% compliance	100% compliance

14. Environmental regulations

To ensure sustainable environmental management and compliance, a set of national laws, local regulations, and international conventions govern activities related to environmental protection, pollution prevention, and resource conservation. These regulations define the responsibilities of authorities, establish enforcement mechanisms, and set the framework for safeguarding human health and the natural environment. The following table summarizes the most relevant environmental laws and conventions applicable to port operations, highlighting their objectives, references, and responsible enforcement agencies.

Regulation / Instruction / Law	Reference	Aim of the Law	National Authority	Local Enforcement Agency
Protection of Environment	Law No. 52/2006	Achieve environmental protection goals and improve environmental elements sustainably in cooperation with competent parties.	Ministry of Environment	Ministry of Environment / ASEZA
Marine Environment and Coastal Protection	Regulation No. 51/1999	Protect and improve the marine environment, conserve marine resources, prevent pollution damages, maintain ecological balance, safeguard human health, and promote sustainable development.	Ministry of Environment	ASEZA
Air Protection	Regulation No. (16)/2005	Protect air quality against pollution.	Ministry of Environment	ASEZA
Reduction and Prevention of Noise	Instructions No. (43)/2006	Provide statutory controls to restrict and reduce nuisance caused by environmental noise.	Ministry of Environment	ASEZA
Jordan Maritime Authority Law	Law No. (47)/2002	Regulate, supervise, and develop the maritime sector; enhance private sector role; encourage competition; protect marine environment; boost maritime safety.	Jordan Maritime Authority	Jordan Maritime Authority
Environmental Protection in ASEZ	Regulation No. 21/2001	Regulate environmental protection policies, EIA, and resources in ASEZ, defining rights and obligations of organizations.	Ministry of Environment	ASEZA
Public Health Law	Law No. 47/2008	Protect people from health threats, prevent disease, and promote population health.	Ministry of Health	Ministry of Health
MARPOL Convention	International Convention (73/78, amended)	Prevent and minimize pollution from ships (oil, sewage, garbage, air emissions, etc.).	International Maritime Organization (IMO)	Jordan Maritime Authority / ASEZA

Regulation / Instruction / Law	Reference	Aim of the Law	National Authority	Local Enforcement Agency
Basel Convention	1989 International Convention	Protect human health and environment from adverse effects of hazardous waste mismanagement.	United Nations Environment Programme (UNEP)	Ministry of Environment / Jordan Maritime Authority
ISO Standards (QMS, EMS, OHSMS)	ISO 9001 / 14001 / 45001	Ensure quality, safety, efficiency, and environmental/occupational compliance.	International Organization for Standardization (ISO)	Certification Bodies (e.g., SGS, Bureau Veritas)
Solid Waste Management	Regulation No. 27/2005	Provide hygienic, efficient, and economic waste storage, collection, transportation, treatment, and disposal without environmental pollution.	Ministry of Environment	ASEZA / Jordan Maritime Authority

15. Environmental Aspect register

To ensure compliance with national and international environmental regulations, and to adopt effective environmental management practices, JIPC has developed an Environmental Aspect Register. This register outlines the key activities conducted within the port area, the associated environmental aspects, and their potential impacts on the environment. Each activity is systematically assessed in terms of likelihood, severity, and significance to determine the level of risk and the necessary control measures. Relevant legislation is referenced to guarantee legal compliance, and revised ratings are assigned following the implementation of mitigation and control actions. The Environmental Aspect Register serves as a vital tool for JIPC to monitor, manage, and continually enhance environmental performance, while minimizing risks to human health, natural resources, and the surrounding ecosystem.

Ref. Nr.	(sub) department, tenant, operators	Impact on	Responsible person / organization	Applicable Legislation	Legal Requirements	Control Measures
EN 1	Port Operations - Sulphur Discharging	Air, Water, Land (Dust, Spills, Fire Risk)	Port Operations Department	Law No. 52/2005, Regulation No. 51/1999	Tenants must comply with environmental laws; breaches result in penalties.	Qualified operator, follow SOPs, gas detector tested, no smoking, firefighting system pressurized, humidification system, evacuation plan, eye wash, continuous cleaning
EN 2	Port Operations - Dry Bulk Loading	Air, Water, Land (Dust, Spills, Emissions)	Port Operations Department	Law No. 52/2005, Regulation No. 51/1999	Contracts clearly indicate environmental compliance requirements.	Qualified operator, follow SOPs, dedusting system, humidification, firefighting readiness, no smoking,

Ref. Nr.	(sub) department, tenant, operators	Impact on	Responsible person / organization	Applicable Legislation	Legal Requirements	Control Measures
						evacuation plan, eye wash
EN 3	Port Operations - Ammonia Discharging	Air, Water, Community (Gas Emissions, Leakage)	Port Operations Department	Law No. 52/2005, Regulation No. 51/1999	Operators must follow hazardous gas handling legislation.	Competent personnel, P&ID compliance, liaise with JPMC, toolbox talk, pressure test, portable gas detector, PPE (mask & filter)
EN 4	Port Operations - Phosphoric Acid Loading	Water (Leakage to sea/floor)	Port Operations Department	Law No. 52/2005, Regulation No. 51/1999	Safe handling procedures required by law.	Permit to work, eye wash/safety shower, drip trays, safe access, competent personnel, toolbox talk, pressure test

Ref. Nr.	(sub) department, tenant, operators	Impact on	Responsible person / organization	Applicable Legislation	Legal Requirements	Control Measures
EN 5	Vehicles (Port Operations)	Air, Noise, Land (Emissions, Fuel, Noise, Spillages)	Transport & Logistics Department	Law No. 52/2005, Air Protection 2005, Regulation No. 21/2001, No. 74/2008	Tenants and port operators must minimize vehicle emissions and noise.	Walkways, regular maintenance, driver training, seat belts, monthly checklist
EN 6	Maintenance Activities	Air, Land, Noise (Oil/Grease, Spillages, Emissions)	Maintenance Department	Law No. 52/2005, Regulation No. 51/1999, Air Protection 2005, Regulation No. 21/2001, No. 74/2008	Work permits, PPE, and hazardous waste procedures must be applied.	Pre-use equipment checks, permits, PPE, first aid, gas detector, alarms, firefighting readiness, method statements, risk assessments
EN 7	Solid Waste Management	Land (Waste accumulation, contamination)	Environmental Department	Law No. 52/2005, Regulation No. 51/1999, Air Protection 2005, Regulation No.	Contract with licensed disposal and recycling operators.	Regular disposal, recycling bins, awareness sessions, hazardous waste

Ref. Nr.	(sub) department, tenant, operators	Impact on	Responsible person / organization	Applicable Legislation	Legal Requirements	Control Measures
				21/2001, No. 74/2008		segregation & certified disposal
EN 8	Conveyer Belts Operation	Air, Noise, Energy (Dust, Noise, Power Use)	Port Operations Department	Law No. 52/2005, Regulation No. 51/1999, Air Protection 2005, Regulation No. 21/2001, No. 74/2008, ISO Standards, Noise Reduction 2006	Port operations must follow ISO and noise reduction standards.	Qualified operators, firefighting readiness, humidification, preventive maintenance, housekeeping
EN 9	Medical Trauma Clinic	Land, Health (Medical Waste)	Health & Safety Department	Regulation No. 21/2001, No. 74/2008	Medical waste must be safely collected and disposed of by certified companies.	Dedicated bins, disinfection, PPE, disposal via certified company

15.1 Environmental Aspect Register Risk Assessment Table

The following Environmental Aspect Register and Risk Assessment Table identifies the main activities carried out within the port area, their associated environmental aspects, and the potential impacts on the environment. Each activity is evaluated based on the likelihood and severity of its impacts, resulting in a significance rating that reflects its environmental risk. The table also outlines the control measures implemented to mitigate these impacts and references the applicable national and international legislation. This register serves as a fundamental tool to ensure compliance, manage risks, and continuously improve the port's environmental performance.

Activity	Environment Aspect	Environment Impact	Likelihood	Severity	Significance rating	Control Measures	Legislation	Revised Rating
Sulphur Discharging	Consumption of electricity, spills in the sea, spills on the floor, Dust and Fire risk	Depletion in energy resources, air pollution, water pollution, land contamination in addition to the non-aesthetic view.	Likely	Medium	Medium	1-The person who performs this task is a qualified and trained person 2-Follow the manufacturer's instructions 3-Make sure the inlet feeder is unlocked from the support platform 4-A clear view from	law No. 52/2005 (protection Of environment), Regulation No.51/1999 (Marine (Environmental protection in the Aqaba Special Economic Zone) ,	Low

Activity	Environment Aspect	Environment Impact	Likelihood	Severity	Significance rating	Control Measures	Legislation	Revised Rating
						the operator's cabin 5-Alarm system tested and ready 6-No smoking 7-Ensure that the gas detector is working properly and tested 8-Executing the evacuation plan 9-Ensure that the humidification system is working properly to reduce dust 10-eye wash to be installed at work area 11-Ensure		

Activity	Environment Aspect	Environment Impact	Likelihood	Severity	Significance rating	Control Measures	Legislation	Revised Rating
						that firefighting system is pressurized for immediate use 12-Continuous cleaning inside the square and on the public street		
Dry Bulk Loading	Spills in the sea, spills on the floor, emissions, and dust	Depletion in energy resources, air pollution, water pollution, land contamination in addition to the non-aesthetic view.	unlikely	Low	Low	1-The person who performs this task is a qualified and trained person 2-Follow the manufacturer's instructions 3-Make sure the inlet feeder is unlocked	law No. 52/2005 (protection Of environment), Regulation No.51/1999 (Marine (Environmental protection in the Aqaba Special	Low

Activity	Environment Aspect	Environment Impact	Likelihood	Severity	Significance rating	Control Measures	Legislation	Revised Rating
						from the support platform 4-No smoking 5-Alarm system tested and ready 7-Ensure that the dedusting system is working . 8-Executing the evacuation plan 9-Ensure that the humidification system is working properly to reduce dust 10-eye wash to be installed at work area 11-Ensure that	Economic Zone) ,	

Activity	Environment Aspect	Environment Impact	Likelihood	Severity	Significance rating	Control Measures	Legislation	Revised Rating
						firefighting system is pressurized for immediate use		
Ammonia Discharging	Gas emissions, leakage (seawater, floor)	Air pollution, water pollution, and other environmental and community issues	Likely	High	High	1- Competent personnel to connect the MLA 2- Check with P&ID & Follow SOPs 3- Liaise with JPMC to confirm connection procedures. 4- Working position all the time	law No. 52/2005 (protection Of environment), Regulation No.51/1999 (Marine (Environmental protection in the Aqaba Special	Medium

Activity	Environment Aspect	Environment Impact	Likelihood	Severity	Significance rating	Control Measures	Legislation	Revised Rating
						upward wind 5- Toolbox talk. 6- Pressure test to be used after connection. 7- Release the test pressure. 8- Slow manoeuvring in case of connects or disconnect. 9- Ensure that full PPE required including full face mask with Proper filter. 10-Portable gas detection in place	Economic Zone) ,	

Activity	Environment Aspect	Environment Impact	Likelihood	Severity	Significance rating	Control Measures	Legislation	Revised Rating
Phosphoric Acid Loading	Leakage (water, floor)	Water pollution , Killing Sea creatures	Likely	Medium	Medium	1-Permit to work 2-Eye-Wash Stations and Safety Showers 3-Protect the Area from Leakage & Use drip trays 4-Safe Access to the marine loading arms 5- Competent personnel to connect the MLA 6- Check with P&ID Drawings& Follow SOPs 7- Liaise with the users (JIFCO or IJC) to confirm connection procedures. 8- Working	law No. 52/2005 (protection Of environment) ,Regulation No.51/1999 (Marine (Environmental protection in the Aqaba Special Economic Zone) ,	Low

Activity	Environment Aspect	Environment Impact	Likelihood	Severity	Significance rating	Control Measures	Legislation	Revised Rating
						position all the time upward wind 9- Toolbox talk. 10- Pressure test to be used after connection. 11- Release the test pressure.		

Activity	Environment Aspect	Environment Impact	Likelihood	Severity	Significance rating	Control Measures	Legislation	Revised Rating
vehicles	Noise, air Pollution, Fuel consumption	Emissions To air, Health Issues and spillages	unlikely	Low	Low	1-Designated Pedestrian Walkways and Crossings 2-Regular Vehicle Maintenance 3-Driver Training 4-Use of Safety Equipment (seat belts) 5-Monthly checklist on all vehicles	law No. 52/2005 (protection Of environment) , ,Regulations /2005 (Air Protection) ,regulation No. 21/2001 (Environmental protection in the Aqaba Special Economic Zone) , No. 74 /2008 (Public	Low

Activity	Environment Aspect	Environment Impact	Likelihood	Severity	Significance rating	Control Measures	Legislation	Revised Rating
Maintenance	Noise, Oil and Grease Consumption, Spillages, and air pollution	Hazardous Waste, Dust, Emissions	Likely	Low	Low	1-check all equipment's before using them and assure they all tagged green 2-issue work perimt 3-wear all required PPE 4-Assure first aid kits are in the place of work 5-No smoking policy 6-Follow the manufacturer's instructions 7-Ensure that the gas detector is working properly and tested 8-Alarm system	law No. 52/2005 (protection Of environment), Regulation No.51/1999 (Marine Environment and coastal Protection) ,Regulations /2005 (Air Protection) ,regulation No. 21/2001 (Environmental protection in the Aqaba Special Economic Zone) , No. 74 /2008 (Public Health Law	Low

Activity	Environment Aspect	Environment Impact	Likelihood	Severity	Significance rating	Control Measures	Legislation	Revised Rating
						tested and ready 9-The person who performs this task is a qualified and trained person 10-Ensure that firefighting system is pressurized for immediate use 11-issue a method of statement 12-issue risk assessment		

Activity	Environment Aspect	Environment Impact	Likelihood	Severity	Significance rating	Control Measures	Legislation	Revised Rating
Solid Waste Management	Land Pollution	Health Issues, land contamination in addition to the non-aesthetic view	unlikely	Low	Low	1-contract with garbage disposal company (disposal of garbage 3 times a week) 2-recycling of garbage (recycling bins distributed all over the site 3-garbage bins all over the site 4-awareness sessions on all type og garbage and how to be disposed 5-Hazard waste collected in designated place 6-disposal of	law No. 52/2005 (protection Of environment), Regulation No.51/1999 (Marine Environment and coastal Protection), Regulations /2005 (Air Protection) ,regulation No. 21/2001 (Environmental protection in the Aqaba Special Economic Zone) , No. 74 /2008 (Public	Low

Activity	Environment Aspect	Environment Impact	Likelihood	Severity	Significance rating	Control Measures	Legislation	Revised Rating
						hazardous waste (packaging and transferring) with certified company	Health Law)	

Activity	Environment Aspect	Environment Impact	Likelihood	Severity	Significance rating	Control Measures	Legislation	Revised Rating
Conveyer Belts Operating	Noise , electricity consumption	Land Pollution , Health Effect , Noise and Dust	unlikely	Low	Low	1-The person who performs this task is a qualified and trained person 2-Ensure that firefighting system is pressurized for immediate use 3-No smoking 4-Follow the manufacturer's instructions 5-Ensure that the humidification system is working properly to reduce dust 6-periodic preventive maintenance	law No. 52/2005 (protection Of environment) ,Regulation No.51/1999 (Marine Environment and coastal Protection) ,Regulations /2005 (Air Protection) ,regulation No. 21/2001 (Environmental protection in the Aqaba Special Economic Zone) , No. 74 /2008 (Public Health	Low

Activity	Environment Aspect	Environment Impact	Likelihood	Severity	Significance rating	Control Measures	Legislation	Revised Rating
						7-continouse houskeeping	Law) , ISO Standards (14001, 45001 and 9001) and Instructions /2006 (Reduction and Prevention of Noise)	
Medical Trauma Clinic	Medical Waste (Hazard Waste)	Land Pollution, Health Effect (ineffectual disease)	unlikely	Low	Low	1-put all medical waste in a specific bin 2-Disinfection of waste 3-use all required PPE 4-disposal of medical waste with certified company and as appropriate	No. 21/2001 (Environmental protection in the Aqaba Special Economic Zone), No. 74 /2008 (Public Health Law)	Low

The risk assessment has been established based on a matrix that considers both the severity of potential impacts and the likelihood of their occurrence. Risks are categorized into Low, Medium, and High levels. For negligible severity, risks are generally rated as Low, increasing to Medium when the likelihood is high. For unlikely events, the risk remains Low to Medium depending on severity. Likely events are assessed as Medium for low to moderate severity and High for high severity, while events deemed certain are rated as Medium for low to moderate severity and High for high severity. This approach ensures a systematic and consistent evaluation of all potential risks.

		Severity		
		Low	Moderate	High
Likelihood	Negligible	Low	Low	Medium
	unlikely	Low	Low	Medium
	Likely	Medium	Medium	High
	Certain	Medium	Medium	High

criteria	scoring
Likelihood of Impact	1 – Negligible probability of occurrence
	2 – Low probability of occurrence
	3 – Medium probability of occurrence
	4 – High probability of occurrence or continuous emissions
Severity of Impact	1 – No environmental impact exists 2 – Minimal impact, e.g. small spillage of oil resulting in no permanent or long term harm 3 – Medium impact, e.g. localised and short term harm to floor 4 – Major impact, e.g. uncontrolled emissions or discharges of highly toxic chemicals causing long term harm to floor

16. Environmental performance indicators

The port operations involve various activities that have significant impacts on the environment, including air emissions, energy consumption, waste generation, and water use. To systematically manage these impacts, a monitoring and evaluation framework has been established. This framework identifies each environmental issue, its potential impact, and the method of measurement. Concrete policy targets have been defined for improvement, and measurable results are tracked annually to assess progress. The following table summarizes the key environmental issues, the actions taken to mitigate their impact, and the measured outcomes for 2023 and 2024.

Significant Environmental Issue	Environmental Impact / Issue	Calculation Method	Concrete Policy-Target of Improvement	Measured Results 2023	Measured Results 2024
Air emissions from port operations	Air pollution, GHG emissions	Monitoring of SO_2, NO_2, NH_3, H_2S, CO, TSP, PM_{10}, $PM_{2.5}$ ($\mu g/m^3$)	Compliance with Jordanian Standard JS 1140:2024 (Ambient Air Quality)	Results did not exceed allowable limits	Results did not exceed allowable limits
Energy consumption	High carbon footprint, operational costs	Monthly electricity consumption (MWh)	Reduce baseline of 108 MWh/month to ≤ 60 MWh/month (≥50 MWh reduction, ≥8–12% cost savings)	~50 MWh/month reduction (~8% cost saving ≈ 5,000 JD/month)	~50 MWh/month reduction (~12% cost saving ≈ 8,000 JD/month)
Waste management	Land & marine pollution, non-compliance	Waste segregation & recycling rate	50% recycling by 2026	30% recycling achieved	40% recycling achieved
Emergency preparedness	Oil spill, hazardous materials release	# of drills conducted/year	2 full-scale drills annually	2 drills completed	2 drills completed
Treated water used for irrigation	Potential soil/plant contamination, risk of non-compliance	Quarterly water quality testing	Compliance with accepted limits for treated water used in irrigation (Category C: field crops, industrial crops, forest stands)	Results met the standard	Results met the standard
Community & stakeholder engagement	Lack of trust, social risks	# of stakeholder engagements/year	At least 2 stakeholder meetings/year	2 meetings conducted	3 meetings conducted
Training & awareness	Low staff engagement	% of staff trained annually	Train 100% of staff by 2025	60% trained	80% trained

Sustainable port development	Long-term environmental footprint	% of new projects with EIAs	100% EIAs for new projects	100% compliance	100% compliance

17. CONFIRMITY REVIEW

The Conformity Review Table presented below provides a comprehensive assessment of the Jordan Industrial Ports Company's environmental performance during the years 2023 and 2024. It highlights the significant environmental aspects, their associated impacts, and the policies and actions undertaken to address them. The table also evaluates the effectiveness of these actions through measurable indicators, presents the achieved results, and outlines conclusions regarding policy implementation. Furthermore, it includes recommendations for continuous improvement and the planned actions for 2025–2026 to ensure compliance, sustainability, and alignment with international best practices.

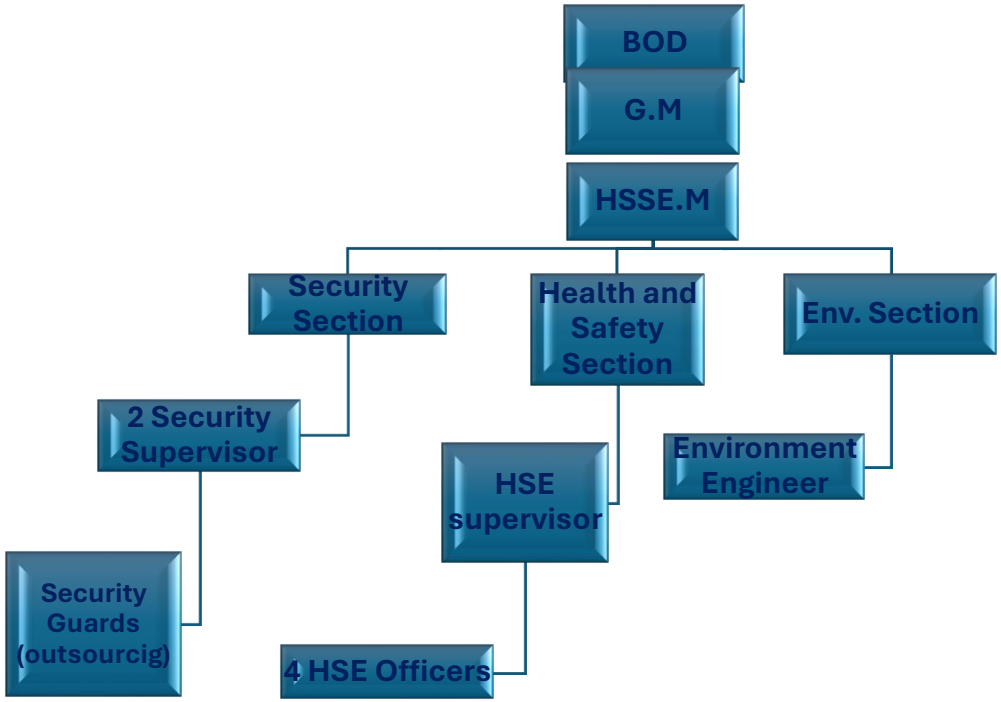
Nr	Significant Env. Aspect	Env. Impact / Issue	Port Policy	Actions Taken	Responsible Actor	KPI	Concrete Targets	2023 Results	2024 Results	Conclusions about Policy Results (2023–2024) & Recommendations	Policy Plans for 2025–2026
1	Air emissions from port operations	Air pollution, GHG emissions	Commitment to improve air quality and mitigate climate change impacts	Third-party air quality monitoring twice a year	HSE Dept. / Env. Section	SO_2, NO_2, NH_3, H_2S, CO, TSP, PM_{10}, $PM_{2.5}$	Compliance with JS 1140:2024 Ambient Air Quality Standard	Within limits	Within limits	Policy effective; monitoring and compliance achieved. Recommendation: continue regular monitoring, explore GHG reduction technologies.	Expand monitoring to include GHG inventory; prepare carbon neutrality baseline.
2	Energy consumption	High carbon footprint,	Increase renewable energy use, improve	Replaced conventional	Electrical section /	Monthly electricity consumption	Reduce from 108 MWh/month to ≤60	~50 MWh reduction (≈8%	~50 MWh reduction (≈12% savings,	Strong progress; consistent energy & cost reduction achieved. Recommendation:	Implement solar power and smart energy management;

Nr	Significant Env. Aspect	Env. Impact / Issue	Port Policy	Actions Taken	Responsible Actor	KPI	Concrete Targets	2023 Results	2024 Results	Conclusions about Policy Results (2023–2024) & Recommendations	Policy Plans for 2025–2026
		operational costs	energy efficiency	lighting with LED	Energy Team	(MWh), cost savings (JD)	MWh/month	savings, ~5,000 JD/month)	~8,000 JD/month)	expand energy efficiency to other systems.	target further 20% cost savings by 2026.
3	Waste management	Land & marine pollution, non-compliance	Circular economy, zero-waste initiatives	Waste segregation bins, hazardous waste disposal	HSSE Dept. / Env. Section	Recycling rate of domestic & hazardous waste	50% recycling by 2026	30% achieved	40% achieved	Gradual improvement; behind 2026 target but positive trend. Recommendation: strengthen awareness, engage contractors, expand recycling partnerships.	Launch zero-waste pilot project; aim for ≥45% recycling by 2025 and ≥50% by 2026.
4	Emergency preparedness	Oil spill, hazardous materials release	Maintain emergency & response plans	Spill response drills conducted	Emergency Response Unit	# of drills/year	2 full-scale drills annually	2 drills	2 drills	Policy fully achieved; emergency readiness maintained. Recommendation: include joint drills with external stakeholders.	Enhance drills with simulation technology; include ASEZA & community response teams.
5	Treated water used for irrigation	Potential soil/plant contamination, risk of non-compliance	Ensure safe reuse of treated water per national standards	Quarterly water quality testing	Marine Operations	4 tests/year	Compliance with national limits	Within limits	Within limits	Policy effective; safe use confirmed. Recommendation: explore expanding reuse for more landscaping.	Expand reuse to ≥80% of irrigation needs; implement water efficiency program.
6	Community &	Lack of trust, social risks	Strengthen relationships	Quarterly stakehol	Executive Mana	# of stakeholder	≥2 meetings/ year	2 meetings	3 meetings	Policy exceeded target; stakeholder trust improving. Recommendation: formalize	Establish annual sustainability

Nr	Significant Env. Aspect	Env. Impact / Issue	Port Policy	Actions Taken	Responsible Actor	KPI	Concrete Targets	2023 Results	2024 Results	Conclusions about Policy Results (2023–2024) & Recommendations	Policy Plans for 2025–2026
	stakeholder engagement		with local communities	der meetings	gement	engagements/year				stakeholder feedback mechanism.	forum; enhance CSR initiatives.
7	Training & awareness	Low staff engagement	Provide continuous environmental education	Toolbox talks & workshops	HR / HSSE Dept.	% of staff trained annually	Train 100% by 2025	60% trained	80% trained	Good progress; on track to meet 100% target by 2025. Recommendation: maintain pace, expand to contractors.	Achieve 100% by 2025; develop e-learning modules for continuous awareness.
8	Sustainable port development	Long-term environmental footprint	Integrate sustainability in port projects	EIAs for all projects	Planning Dept. / Env. Section	% of new projects with EIAs	100% compliance	100%	100%	Policy fully effective; compliance achieved. Recommendation: integrate climate resilience criteria.	Ensure all new projects include climate adaptation & green infrastructure.

18. Environmental Management Organization structure:

The HSSE hierarchy at JIPC places the Board of Directors (BOD) at the top, followed by the General Manager and the HSSE Manager, who oversees all safety, security, health, and environmental operations. This structure ensures clear responsibility, efficient reporting, and effective coordination to maintain safety and regulatory compliance.



19. Environmental responsibilities of key personnel

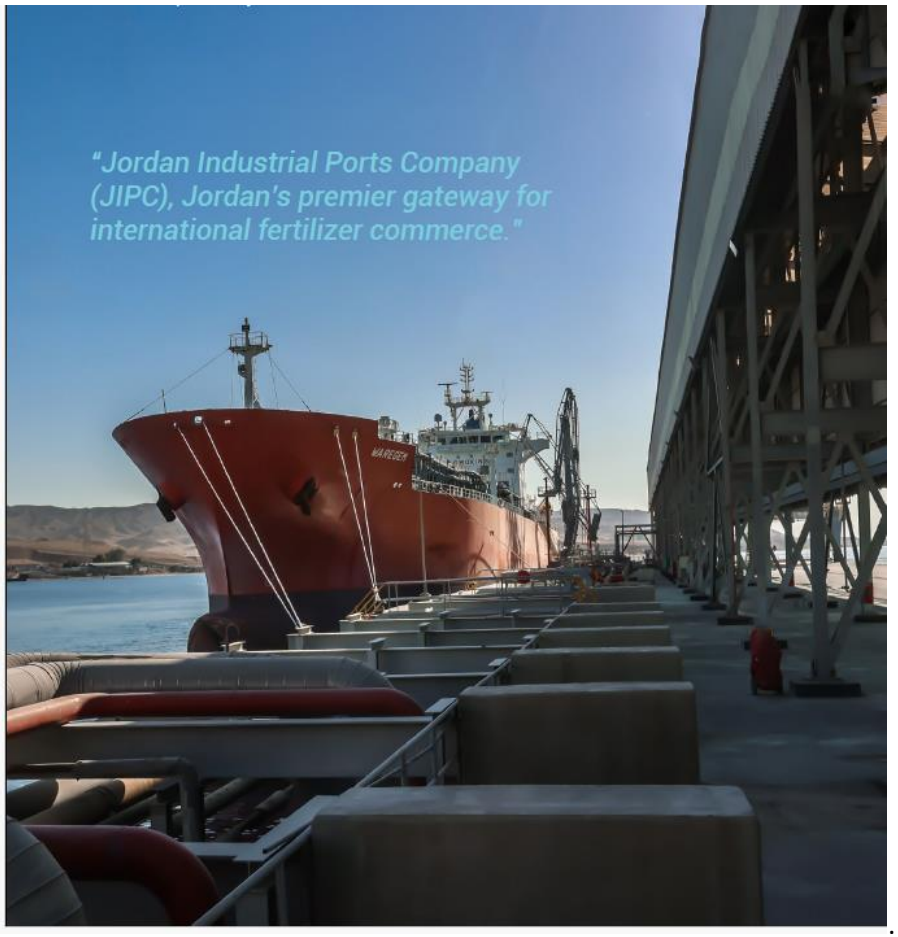
The table below outlines the key personnel responsible for various environmental functions within the port operations. Each role is assigned specific responsibilities to ensure compliance with environmental regulations, maintain operational efficiency, and promote sustainable practices. This clear assignment of responsibilities ensures accountability and supports the organization's commitment to environmental stewardship.

Functions	Job Title/Name	Department
Port Operations (Navigation)	Operation Manager	Operation
Port Operations (Shipping)	Operation supervisor	Operation
Port Operation (Terminals)	Operation Manager	Operation
Cargo Handling Operations	Operation Manager	Operation
Site Management	Terminal Manager	Executive Management
Strategic Planning	Planning &Quality Manager	Planning
On site Contractor Management	HSSE Manager	HSSE
Noise Management	Environmental Engineer	HSSE
Emergency Planning	HSSE Manager	HSSE
Water Quality monitoring	Environmental Engineer	HSSE
Environmental Monitoring	Environmental Engineer	HSSE
Environmental Training	Administration manager	Administration
Air Quality Monitoring	Environmental Engineer	HSSE
Waste Management	Environmental Engineer	HSSE
Vehicular Management of Terminal traffic/Security	Security supervisor	HSSE
Environmental Document Management	Environmental Engineer	HSSE
Energy and Water Consumption Management	Environmental Engineer	HSSE

Supplies acquisition	Procurement Manager	Procurement
Maintenance	Technical Manager	Technical

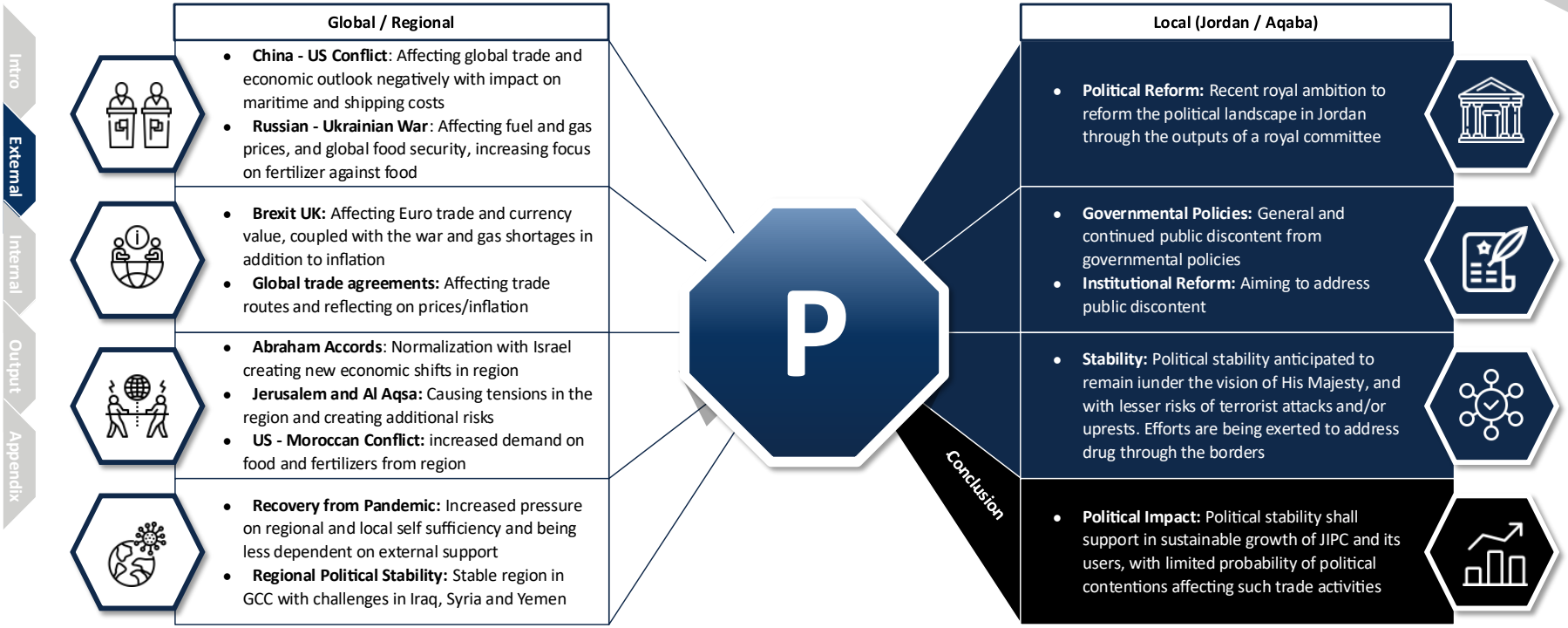
20. PESTEL Analysis

The following PESTEL Analysis for Jordan Industrial Ports Company (JIPC) provides a comprehensive overview of the external factors influencing the company's operations and strategic direction. It examines the Political, Economic, Social, Technological, Environmental, and Legal dimensions at both the global/regional and local levels, highlighting opportunities and challenges that may impact the company's performance and sustainability. This structured analysis serves as a foundation for informed decision-making and long-term planning.



PESTEL Insights | Political Outlook

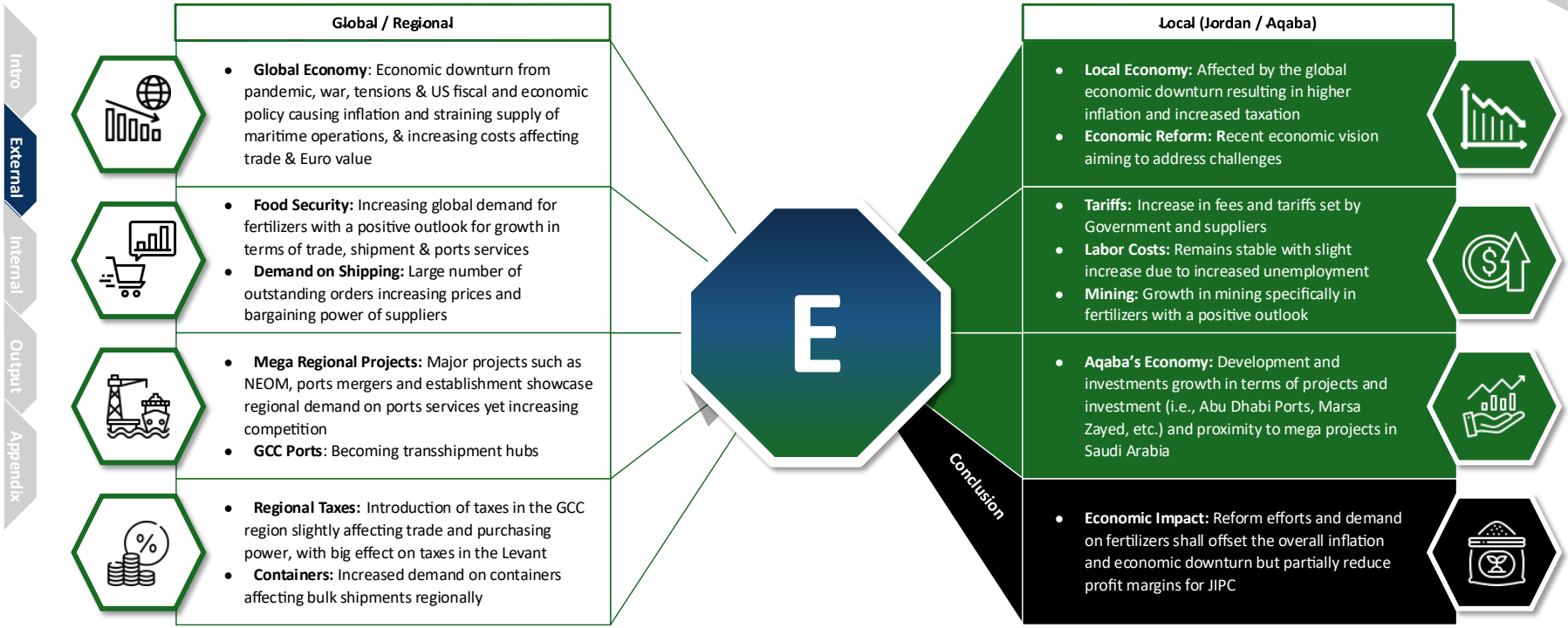
Jordan is politically stable albeit being in an unstable region. Many factors are expected to play in affecting Jordan's stability such as the Abraham Accords and overall public discontent of governmental policies, with an overall positive outlook that these factors will be properly addressed and managed



Source: GB Advisory research, 2022

PESTEL Insights | Economic Outlook

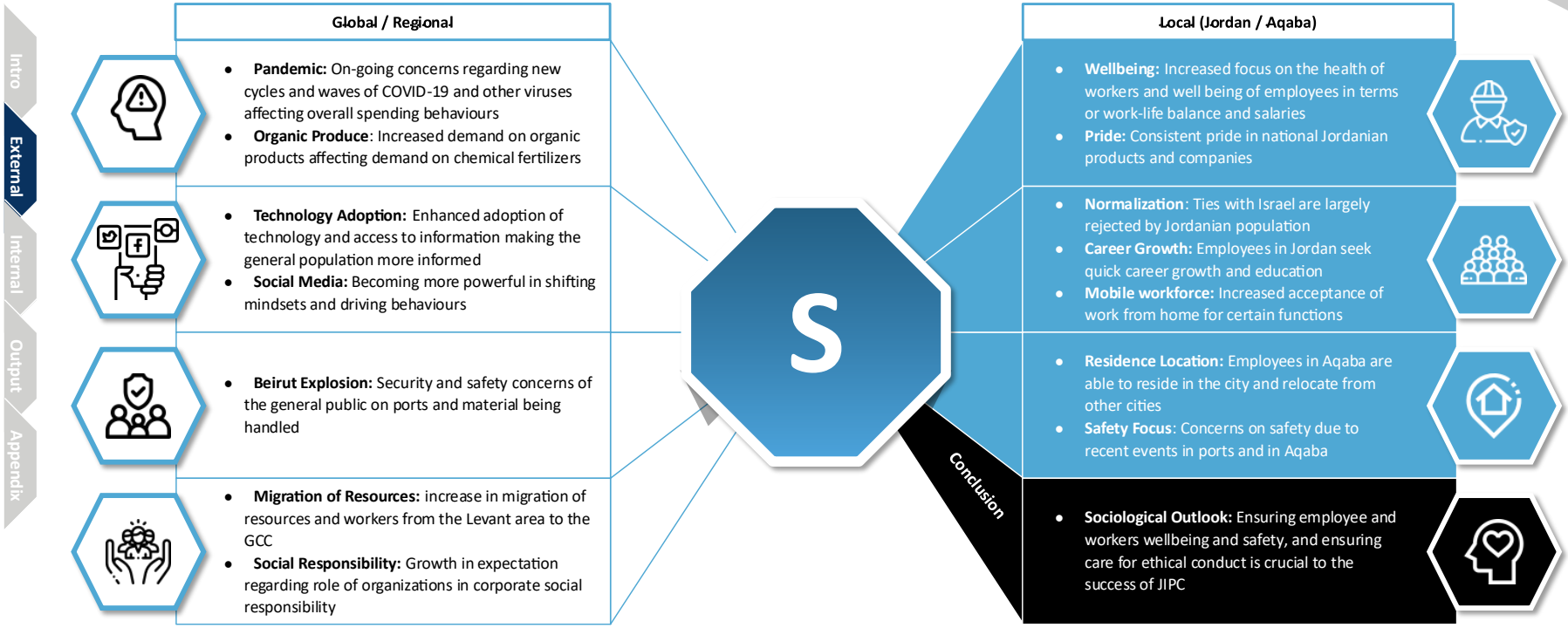
Jordan's economy has contracted in 2022 affected by the downturn of the global economy, with increased unemployment, reduced exports, declining transfers and increased budget deficits and debt. Economic reform plans are in motion trying to address this decline in upcoming years



Source: GB Advisory research, 2022

PESTEL Insights | Sociological Outlook

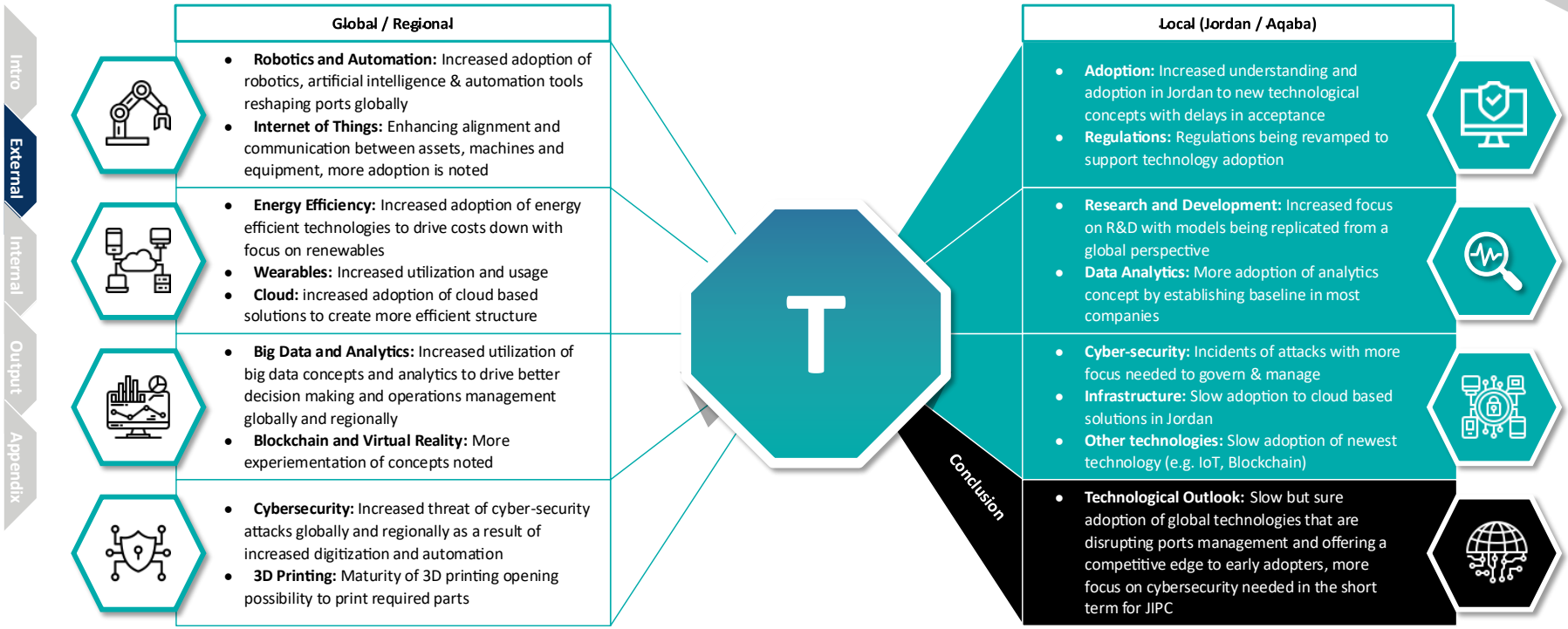
The sociological landscape presents additional challenges and opportunities, mainly those relevant to safety and environment, and the wellbeing of workers and their prosperity



Source: GB Advisory research, 2022

PESTEL Insights | Technological Landscape

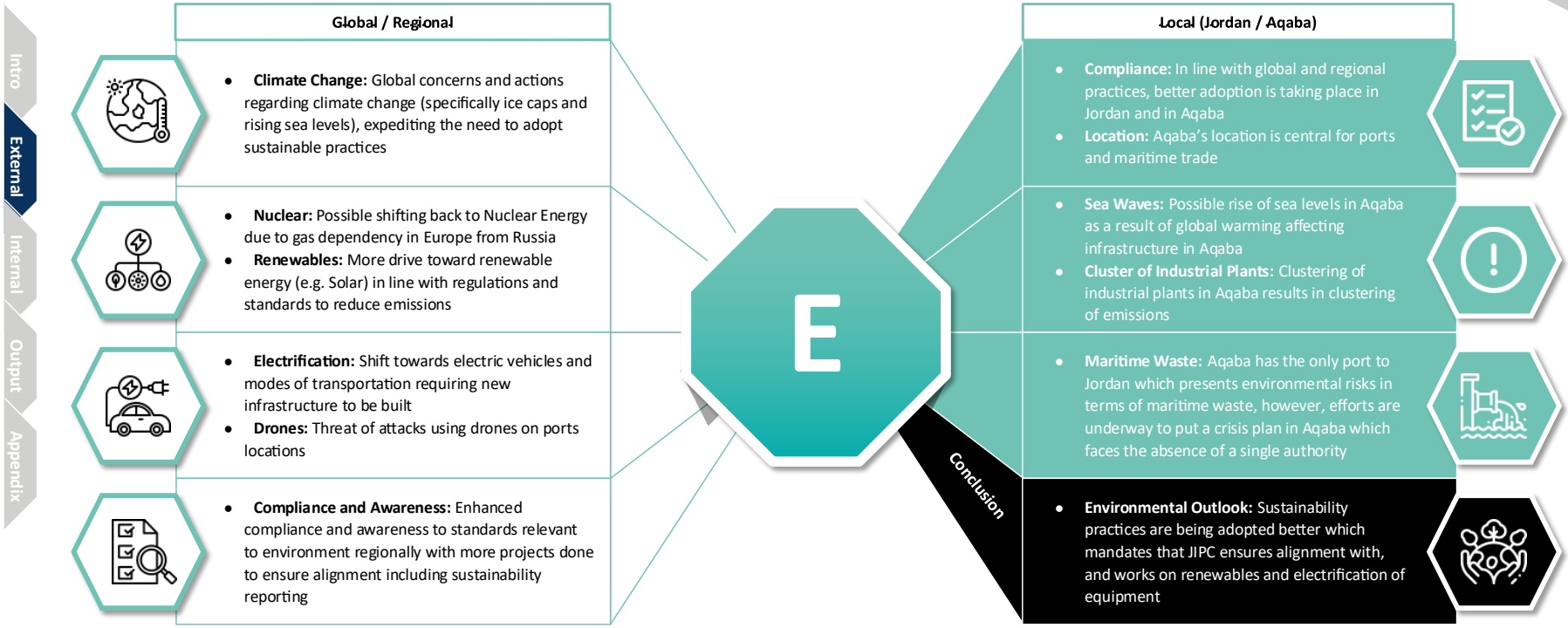
The global technological shift is quickly being adopted in the region and within Jordan, as more and more innovative technologies are being implemented in Jordan to gain competitive edge in the ecosystem



Source: GB Advisory research, 2022

PESTEL Insights | Environmental Outlook

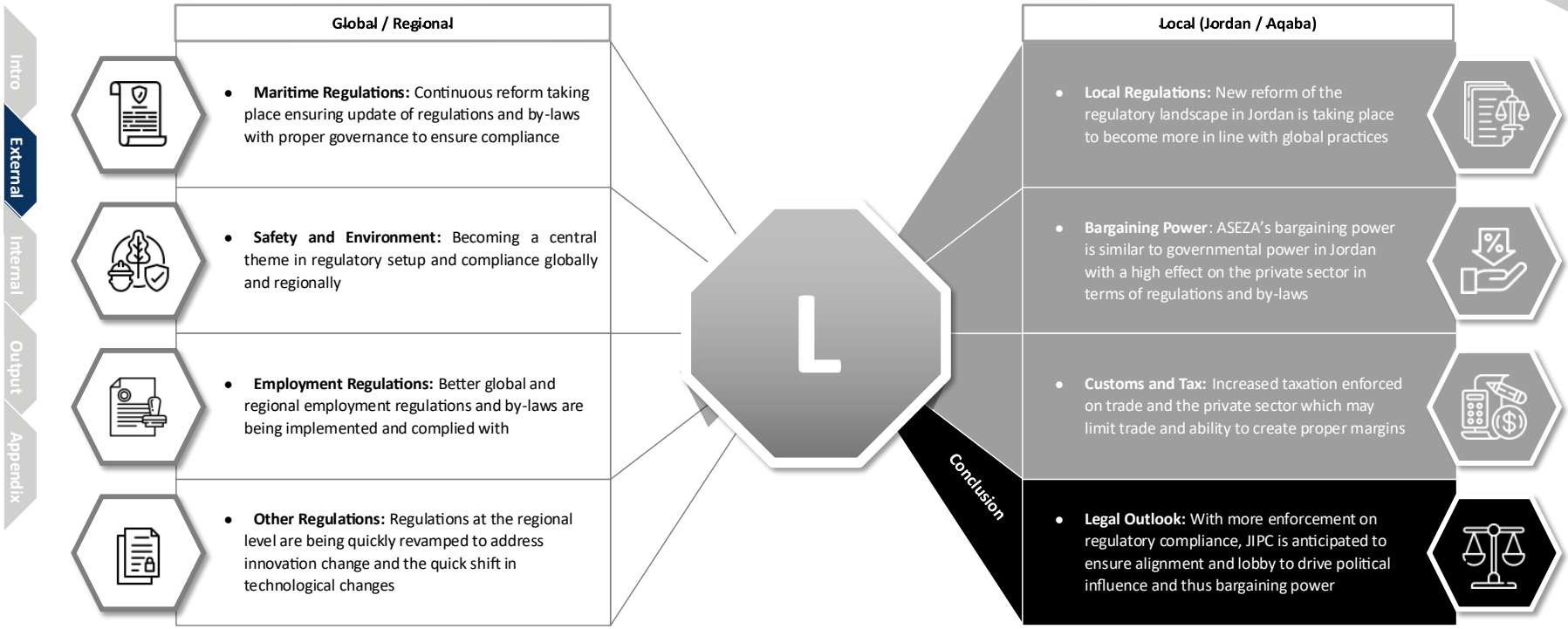
The protection of the environment is becoming a key agenda items in global, regional and local discussions to ensure sustainability of operations and care for the ecosystem



Source: GB Advisory research, 2022

PESTEL Insights | Legal/Regulations

From a regulatory perspective, Jordan has been diligent in reforming its laws, regulations and policies to be more in line with the leading practices worldwide



Source: GB Advisory research, 2022

21. Interested parties:

At Jordan Industrial Ports Company (JIPC), effective management of stakeholders is fundamental to ensuring smooth and sustainable port operations. It is therefore essential to identify the interested parties, understand their specific needs and expectations, and define appropriate actions to address them. The following table outlines both external and internal stakeholders, highlighting their key requirements and the measures adopted by JIPC to meet or exceed these expectations. This structured approach reinforces compliance with regulatory frameworks, enhances operational efficiency, and strengthens relationships with partners, employees, and the community.

SN	Interested Party	Needs & Expectations	Actions
External Parties			
1	Customer:		
1.1	User	Terminal readiness / available berth	Set high VOR/24 hrs /7 working
		Minimize vessel time at berth	Minimize BD/zero shift change
		Delivery on time	
		Reliability	
1.2	Vessel	Reduce the stoppages Reduce berthing period on the jetty	Preventive Maintenance. Speeding up handling process.
2	Neighbours and communities	Social responsibility and engagement	
3	Agents	Agent satisfaction	High communication and response. Good services in reasonable time.
4	Providers	Payment on time	

SN	Interested Party	Needs & Expectations	Actions
5	Shipping companies	Payment on time and upon actual weight	
6	Suppliers	On-time P.O	Revisit process and approvals cycle
		On-time payment	Revisit process and approvals cycle
7	Customs Authority	Full documents for any shipment	
8	Government	Comply to their regulations and instructions	
9	Social	Donations	
10		Social Involvements	
11		Voluntary Contribution	
12	Legislative bodies	Comply to the regulations	Site visits, meetings, and monthly reports.
13	Banks	Documents to be processed upon ICC / UCP and any further Central Bank legislations.	
		Documents to be fully signed from authorized persons	
14	Accreditation bodies	Comply to the standards, maintain, and implement the standards	Annual and semi-annual audits
Internal Parties			
1	Employee	Incentives, promotions, benefits, raising	
		Enhance staff skills and capabilities	Training plans / cross & swap function
		Safety at workplace	
		Salary as per benchmark in the company	

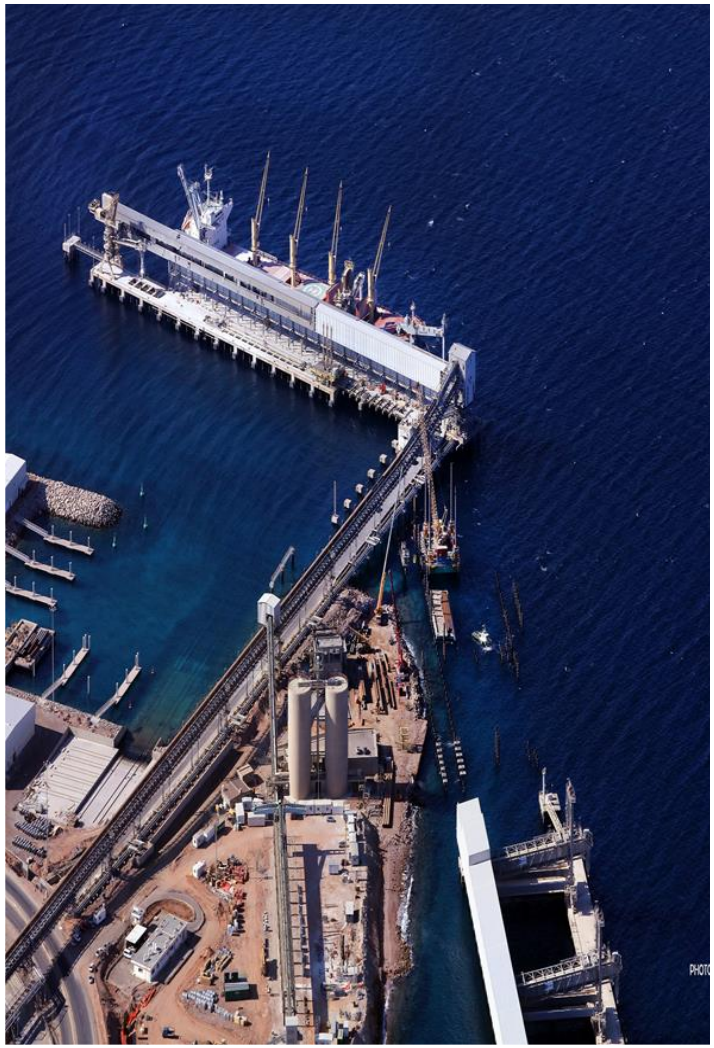
SN	Interested Party	Needs & Expectations	Actions
		Logistics	

22. Environmental Budget Plan

As part of its commitment to sustainability, regulatory compliance, and continuous improvement, Jordan Industrial Ports Company (JIPC) has allocated a dedicated environmental budget to support its strategic objectives. This budget ensures that sufficient resources are directed towards environmental monitoring, staff development, emergency preparedness, sustainability initiatives, and community engagement. In addition, it covers essential contractual obligations, voluntary programs, and accreditation requirements to maintain alignment with international standards. The following table presents the detailed breakdown of the environmental budget plan for the year.

Category	Description	Amount (JD)
Environmental Monitoring	Calibration and maintenance of air monitoring equipment to ensure accuracy	1000
Staff Development	Training programs to enhance environmental knowledge and technical capabilities	4000
Contracts & Compliance	Engagement of third-party contractors and agreements to support compliance	15000
Emergency Preparedness	Procurement of spill kits and related emergency response equipment	2000
Environmental	Implementation of recycling systems and partnerships with recycling companies	10000

Category	Description	Amount (JD)
Improvements		
Sustainability Projects	Installation of irrigation systems and renewable energy	16000
Community Engagement	Support for environmental projects through local community partnerships	2000
Voluntary Initiatives	Participation in environmental campaigns and volunteering programs	2000
Accreditations	Certification, renewal, and compliance with international standards and audits	10000
Total		**62000**



23. Selected examples of best practices

Example 1 :

Port of: Aqaba – Jordan Industrial Ports Company
Country: Jordan
Contact person: Eng. Alaa Hwaitat
Position: Environment Engineer
Email: a.Hwaitat@jipc-jo.com

Environmental issue: High energy consumption and greenhouse gas emissions from conventional lighting.

Title of the best practice example/solution:
LED Lights Retrofit for Energy Efficiency

Description (300 words maximum):
Over the past two years, Jordan Industrial Ports Company has implemented a comprehensive lighting replacement program across its facilities. The initiative was motivated by the need to reduce electricity consumption, operational costs, and the port's environmental footprint. Traditional lighting systems consumed high amounts of energy, contributing significantly to both utility bills and indirect greenhouse gas emissions.

The chosen solution involved gradually phasing out conventional lighting units and replacing them with modern, energy-efficient LED lights. The implementation process was carried out in phases to minimize disruption to port operations. All outdoor, indoor, and critical area lighting was targeted to ensure maximum coverage and energy savings.

From a technical perspective, LED lights were selected due to their longer lifespan, reduced maintenance requirements, and higher energy efficiency compared to conventional systems. The organizational approach included securing management approval, allocating budgetary resources, and engaging specialized contractors for installation and quality assurance.

The project was fully completed within two years. The total investment was offset by immediate and measurable savings on the electricity bill, which decreased by approximately 20% monthly. This translates into substantial cost savings, improved operational efficiency, and reduced carbon emissions, thereby aligning with national and international sustainability commitments.

This best practice highlights how relatively simple technological changes, when applied at scale, can produce meaningful environmental and financial benefits. The success of this initiative has encouraged further exploration of energy-saving measures and renewable energy integration within the port community.

Example 2 :

Port of: Aqaba – Jordan Industrial Ports Company
Country: Jordan
Contact person: Eng. Alaa Hwaitat
Position: Environment Engineer
Email: a.Hwaitat@jipc-jo.com

Environmental issue: High energy consumption from HVAC systems in buildings due to unnecessary operation when spaces are unoccupied.

Title of the best practice example/solution:
Installation of Motion Sensor-Controlled HVAC Systems in Office and Facility Buildings

Description (300 words maximum):
Energy consumption in buildings is a significant contributor to operational costs and greenhouse gas emissions at ports. A considerable portion of this energy use comes from Heating, Ventilation, and Air Conditioning (HVAC) systems, which often continue running even when spaces are unoccupied. At Jordan Industrial Ports Company, it was observed that HVAC units in administrative and operational buildings operated throughout the day regardless of occupancy levels, leading to unnecessary electricity consumption and higher costs.

To address this issue, a motion-sensor-based control system was introduced. Sensors were installed in offices, meeting rooms, and common areas to detect occupancy. When no movement is detected for a set period (e.g., 10–15 minutes), the HVAC system automatically switches off or goes into energy-saving mode. Once occupancy is detected again, the system reactivates, ensuring comfort while preventing energy waste.

The project required moderate investment in sensor equipment, system integration, and staff awareness. Implementation was completed within a short timeframe of 2–3 months. The benefits have been significant: electricity bills related to HVAC dropped by approximately

20–30%, while the initiative also contributed to reducing the port's overall carbon footprint. In addition, this solution aligns with the company's environmental management strategy and Jordan's national energy efficiency objectives.

24. Accreditations:

ISO 14001

Certificate JO23/00000228

The management system of

Jordan Industrial Ports Company

Industrial South Ports, Aqaba, Jordan

has been assessed and certified as meeting the requirements of

ISO 14001:2015

For the following activities

Handling, conveyance, and Industrial Port Operations

This certificate is valid from 08 December 2023 until 07 December 2026 and remains valid subject to satisfactory surveillance audits.

Issue 1. Certified since 08 December 2023

Organization certified since 08 December 2020 under CH20/1112

Authorised by
Daniel Willemin

Authorised by
Jan Meemken

SGS Société Générale de Surveillance SA
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t +41 (0)44 445-16-80 - www.sgs.com

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ISO 9001

Certificate JO23/00000229

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Organization certified since 08 December 2020 under CH20/1111

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ISO 50001

Certificate JO23/00000254

The Energy management system of

Jordan Industrial Ports Company

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ISO 50001:2018

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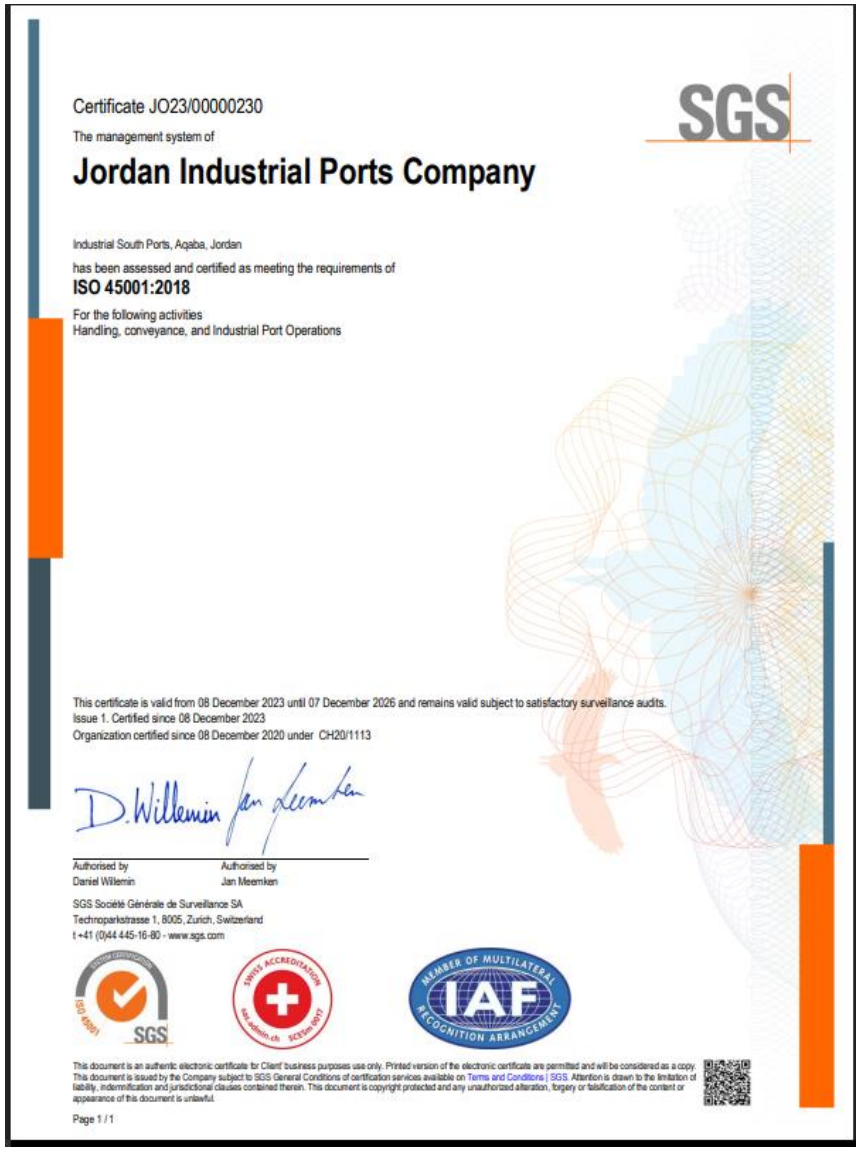
ISO 45001



Certificate JO23/00000230

The management system of

Jordan Industrial Ports Company

Industrial South Ports, Aqaba, Jordan

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International Safety Award
Merit
— 2025 —

This is to certify that,

Jordan Industrial Ports Company

Has achieved an International Safety Award for demonstrating a strong commitment to good health and safety management during 2024.

Peter McGettrick
Chair of The Board of Trustees
March 14, 2025

Mike Robinson
Chief Executive
March 14, 2025

BRITISH SAFETY COUNCIL
International Safety Awards 2025

Certificate number
AW-0012433

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International Safety award/ Merit