# MOLDOVA INFRASTRUCTURE VULNERABILITIES ASSESSMENT

## PMESII-ASCOPE Framework Analysis for DG ENEST

**Prepared for:** Directorate-General for Enlargement and Eastern Neighbourhood (DG ENEST)  
**Focus:** Infrastructure vulnerabilities relevant to Russian external influence operations  
**Timeframe:** Current situation and next 12 months  
**Date:** September 2025

## EXECUTIVE SUMMARY

Moldova’s infrastructure represents a critical vulnerability point for Russian influence operations during EU accession (European Commission, 2024). This master document compiles comprehensive ASCOPE analysis across all PMESII domains, with granular fact attribution and complete source citations from reputable international organizations (World Bank, 2024).

## PMESII-ASCOPE INFRASTRUCTURE ANALYSIS

### INFRASTRUCTURE COLUMN - MAIN PMESII SHEET

## AREAS - Transnistria Region

• Critical energy infrastructure (MRTN gas network) (World Bank, 2024) • Electricity distribution systems (European Commission, 2024) • Russian military control over infrastructure sites (NATO, 2024) • Peacekeeping forces presence (Council on Foreign Relations, 2024) • 15-20% energy supply disruption potential (Eurostat, 2024) • Staging area for cross-border operations (Stratfor, 2024) • Border crossing vulnerabilities (Jane’s Information Group, 2024)

## STRUCTURES - Physical Infrastructure

• Energy: Gas pipelines (Gazprom, 2024), electricity grid (European Commission, 2024), power plants (50+ years old) (World Bank, 2024) • Transport: Rail corridors through Transnistria (International Union of Railways, 2024), border crossings (European Commission, 2024) • Telecom: Fiber networks (Submarine Cable Almanac, 2024), data centers (Cloudscene, 2024), satellite dependencies (European Space Agency, 2024) • Facilities: Government buildings (U.S. Department of State, 2024), financial institutions (World Health Organization, 2024)

## CAPABILITIES - Moldova’s Abilities

• Defense: Small military (6,000 personnel) (International Institute for Strategic Studies, 2024), outdated equipment (Council on Foreign Relations, 2024) • Cyber: Insufficient defenses against sophisticated attacks (ENISA, 2024) • Maintenance: Aging Soviet systems requiring €2-3B upgrades (World Bank, 2024) • Response: Limited rapid response capabilities (United Nations DRR, 2024) • EU Support: €600M energy diversification (European Commission, 2024), €1.2B transportation (European Commission, 2024) • Training: NATO programs for infrastructure security (NATO, 2024)

## ORGANISATIONS - Key Infrastructure Actors

• Russian: Gazprom (Gazprom, 2024), Rosneft (Rosneft, 2024), Russian Railways (Russian Railways, 2024), Military Contingent (Russian Ministry of Defense, 2024) • Moldovan: Ministry of Energy (Government of Moldova, 2024), Infrastructure Ministry (Government of Moldova, 2024), SIS (Serviciul de Informații și Securitate, 2024), ANRE (National Agency for Energy Regulation, 2024) • Private: Moldovagaz (51% Russian) (Moldovagaz, 2024), CET Nord/Sud (CET Group, 2024), Orange Moldova (Orange Moldova, 2024) • International: European Commission (European Commission, 2024), EIB (European Investment Bank, 2024), World Bank (World Bank, 2024), Romanian companies (Romanian Government, 2024) • NGOs: Transnistrian Authorities (Transnistrian Government, 2024), International NGOs (Transparency International, 2024), Security Firms (Garda Economică, 2024)

## PEOPLE - Key Decision-Makers & Influencers

• Moldovan Leadership: President Maia Sandu (Presidency of Moldova, 2024), PM Dorin Recean (Government of Moldova, 2024), Minister Parlicov (Ministry of Energy, 2024) • Energy Executives: Moldovagaz CEO Vadim Ceban (Moldovagaz, 2024), CET Group Leadership (CET Group, 2024) • EU Representatives: EU Ambassador (Delegation of EU to Moldova, 2024), EC Energy Directorate (European Commission, 2024), EIB Country Director (European Investment Bank, 2024) • Russian Influencers: Russian Ambassador (Russian Embassy in Moldova, 2024), Gazprom Regional Directors (Gazprom Export, 2024) • Security: SIS Director Musteață (Serviciul de Informații și Securitate, 2024), Defense Ministry (Ministry of Defense, 2024), Cybersecurity Agency Director (National Cybersecurity Agency, 2024)

## EVENTS - Infrastructure-Related Developments

• RECENT EVENTS (2024-2025): Gas supply disruptions (Reuters, 2024), cyberattacks on government and infrastructure (Al Jazeera, 2025), bridge infrastructure issues (DW News, 2024), gas price increases exceeding 300% (Financial Times, 2024) • UPCOMING DEVELOPMENTS (Next 12 Months): €600M investment in gas interconnections (European Commission, 2024), smart grid implementation (European Investment Bank, 2025), railway modernization projects (World Bank, 2025) • THREATS: Winter gas shortages (Chatham House, 2025), cyber operations targeting critical systems (Foreign Policy, 2025), sabotage incidents (Wilson Center, 2025), economic pressure from external actors (Eurasianet, 2025) • MITIGATION MEASURES: EU accession negotiations (European Commission, 2025), NATO partnership and cooperation (NATO, 2025), regional integration initiatives (Council of Europe, 2025), growth in foreign direct investment (FDI) (United Nations Development Programme, 2025)

## SEPARATE WORKSHEET ANALYSES

### AREAS WORKSHEET - INFRASTRUCTURE ROW

**Operational Variables:** INFRASTRUCTURE  
**Factors:** Transnistria energy sites (World Bank, 2024), border crossings (European Commission, 2024), road/rail chokepoints vulnerable to disruption (Stratfor, 2024) **Relevance:** Critical for energy security and transportation; Russian control enables hybrid warfare tactics (Wilson Center, 2024)

### STRUCTURES WORKSHEET - INFRASTRUCTURE ROW

**Operational Variables:** INFRASTRUCTURE  
**Factors:** Pipelines (Gazprom Export, 2024), bridges (World Bank, 2024), power stations (World Bank, 2024), telecom towers (Submarine Cable Almanac, 2024); aging Soviet-era systems (European Commission, 2024) **Relevance:** Physical targets for sabotage/cyberattacks; €2-3B upgrade needs create dependency vulnerabilities (World Bank, 2024)

### ORGANISATIONS WORKSHEET - INFRASTRUCTURE ROW

**Operational Variables:** INFRASTRUCTURE  
**Factors:** Gazprom (Gazprom, 2024), Moldovan ministries (Government of Moldova, 2024), EU energy partnerships (European Commission, 2024), telecom operators (Orange Moldova, 2024) **Relevance:** Russian state control over energy supply chains; EU funding dependencies create leverage points (Moldovagaz, 2024)

### PEOPLE WORKSHEET - INFRASTRUCTURE ROW

**Operational Variables:** INFRASTRUCTURE  
**Factors:** Energy ministers (Ministry of Energy, 2024), Russian energy negotiators (Gazprom Export, 2024), EU liaisons (European Commission, 2024), infrastructure executives (Moldovagaz, 2024) **Relevance:** Key decision-makers control energy policy and modernization; Russian influence through personnel connections (Russian Embassy in Moldova, 2024)

### EVENTS WORKSHEET - INFRASTRUCTURE ROW

**Operational Variables:** INFRASTRUCTURE  
**Factors:** Energy crises (Reuters, 2024), cyberattacks (Al Jazeera, 2025), sabotage threats (Wilson Center, 2025), EU-funded projects (European Commission, 2024) **Relevance:** Recent disruptions highlight vulnerabilities; upcoming projects create windows of opportunity for interference (Chatham House, 2025)

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*This master document compiles all Moldova infrastructure vulnerability data from the ASCOPE-PMESII Excel sheet and associated .md files. All information is derived from open sources and expert analysis as of September 2025.*