

Annex 2: RGF indicative list of investment projects

| Identified mature projects. | | | | | | | | | | | |
|-----------------------------|---|---|---|--|---------------------------------------|--|--|--------------|-------------|-----------------------|----------|
| TRANSPORT | | | | | | | | | | | |
| | Project title (sector included) TRANSPORT | Project brief description (location included) | Project Stage* (Maturity) (details) | Estimated time needed for maturity (in months) | Activities required to reach maturity | Project duration (preparation+ implementation) | Total investment cost | Grant/Source | Loan/Source | National Co-financing | SR Score |
| 1. | Replacement of guardrails according to EN standards on identified priority sections along the Corridor X motorway | The purpose of the operation is the replacement of guardrails according to EN standards on identified priority sections along Corridor X (phase 1 and phase 2). | 2 | 12 | Tender Documents, Under SSPT | 2024-2026 | 30.000.000 € (indicative budget & for both phases) | TBC | SSPT | TBC | 90.7 |
| 2. | Reconstruction and upgrading of railway bridges on Corridor X | Rehabilitation or reconstruction critical bridges located on the strategic rail Corridor X, in order to update the infrastructure and to improve the safety, durability, stability, and compliance of the | 1 | 24 | DD, TMD, TD | 2025-2030 | 28.750.000 € | IPA III | | 50% | 88.9 |
| 3. | Track renewal works and reconstruction of the Railway Corridor X in the Republic of North Macedonia | Track renewal and/or reconstruction of the Railway Corridor X in North Macedonia to a condition that enables safe and efficient operation at its intended speed and improve safety | 1 | 36 | FS, environment assessment, PD, TD | 2024-2030 | 200.000.000 € | WBIF | EBRD | TBD | 77.9 |
| 4. | Construction of state road A3, expressway section Bitola –BC Medzitlija | Construction of expressway Bitola – BC Medzitlija with a length of 22.0 km | 2 | 9 | Detailed design under preparation | 2020-2026 | 80.000.000 € (indicative) | TBD | TBD | TBD | 77.0 |
| 5. | Construction of state road A2, new express road section Romanovce – Stracin | Construction of new express road Romanovce – Stracin with a length of approximately 30 km (Corridor VIII) | 1 | 24 | Detailed design, FS, ESIA | 2023-2027 | 150.000.000 € (indicative) | IPA III | TBD | TBD | 63.3 |

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| 6. | Construction of state road A1, new motorway section Katlanovo – Veles (right carriageway) | Construction of new motorway section Katlanovo – Veles, right carriageway only, with a length of 25 km on Corridor X | 2 | 24 | Detailed design for the right carriageway only, TD | 2023-2028 | 150.000.000,00 € (indicative) | IPA III | / | TBD | 63.3 |
| 7. | Construction works of the railway section Kicevo–Struga | Construction of railway section on Corridor VIII, western section, from Kicevo –Struga with length of 50 km | 1 | 36 | GAP analysis to be executed | 2024-2030 | 425.000.000 € | WBIF | EIB EBRD | TBD | 50.7 |
| 8. | Construction works of the railway section Struga – border with Republic of Albania | Construction of railway section on Corridor VIII, western section, from Struga – border with Albania with length of 22 km | 1 | 56 | Prefeasibility study to be done | 2024-2031 | 100.000.000 € | WBIF | EIB EBRD | TBD | 46.2 |

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| Digital sector | | | | | | | | | |
|----------------|--|--|--|--|---------------------------|------------------------|-----------------|---------------------------|----------|
| Nr. Crt | Project title (sector included) | Project briefdescription (location included) | Project Stage* (Maturity) (details) | Project duration (preparation + implementation) | Total investment Cost (€) | Grant/Source (€) | Loan/Source (€) | National Co-financing (€) | SR Score |
| 1 | Establishing national broadband infrastructure | <p>The purpose of the project is to establish national transport optical network/ infrastructure that will serve as common communication highway for interconnecting all governmental, health, educational, local government institutions, areas without commercial networks (and are not planned), as well as locations for free public WiFi in Macedonia.</p> <p>The project is in line with the National Broadband Operational Plan and in line with the technical assistance application for the Feasibility Study for the construction of this network, adopted by WBIF</p> | <p>Approved: Conceptual idea</p> <p>Pre-Feasibility study</p> <p>Feasibility study ongoing</p> | 2024-2030 | 57.131.586 | 17.360.570 / WBIF & WB | 30.000.000 / WB | 10.000.000 | 100 |
| 2 | EU for Secure Common Government Infrastructure | <p>The project aims to strengthen the government digital infrastructure by creating proper conditions for housing the government ICT systems. A secure and reliable Government Data Center is a key enabler for the digital shift in the e-government services. This project is a part of the Connectivity and Government Infrastructure pillar of the National ICT strategy (in final draft).</p> | <p>Approved: Conceptual idea</p> <p>Pre-Feasibility study</p> | 2024-2030 | 31.000.000 | | | | 85 |
| 3 | Establishing Secure Government Network | <p>The aim of the "Establishing Secure Government Network" project is to develop and implement a robust and impregnable network infrastructure tailored exclusively for governmental operations. This initiative is driven by the critical need to safeguard sensitive information, ensure seamless communication among governmental entities, and fortify the nation's cyber defense posture.</p> <p>In response to escalating cyber threats and evolving digital vulnerabilities, this project endeavors to create a state-of-the-art network architecture fortified with cutting-edge</p> | <p>Approved: Conceptual idea</p> <p>Pre-Feasibility study</p> | 2024-2030 | 20 M | | | | |

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| | | <p>encryption protocols, multi-factor authentication mechanisms, and advanced intrusion detection systems. By meticulously designing and deploying a secure network framework, the project seeks to mitigate the risks posed by cyber espionage, data breaches, and other malicious activities targeting governmental assets.</p> <p>This project is a part of the long-term National ICT Strategy 2023 - 2030 (in review phase)</p> | | | | | | | |
| 4 | Digital archives | <p>As we are moving forward in the digital world and producing digital originals, we need tools to reliably preserve materials in digital form. We need support for National Archives in the region in overcoming the challenges of digital preservation, ensuring continued access to digital information in the future. Developing digital preservation tools and systems will ensure the integrity and availability of the digital records.</p> <p>Expected deliverables: 1. Standards for digital archiving developed and adopted 2. range of tools, systems and advice for ensuring long-term (possibly permanent) availability</p> | | | 18+ M | | | | |

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| Human capital sector | | | | | | | | | |
|----------------------|--|--|-------------------------------------|--|-----------------------------|-------------------------------|----------------|-----------------------|----------|
| Nr.crt | Project title (sector included) | Project brief description (location included) | Project Stage* (Maturity) (details) | Project duration (preparation+ implementation) | Total investment cost | Grant/ Source | Loan/ Source | National Co-financing | SR Score |
| 1 | Rehabilitation of Health Provider Institutions-Phase II, Component II-Consolidation of the Regional Clinical Hospital in Shtip | To contribute to the implementation of the road map for restructuring of the health sector by establishing the new network of modern regional clinical hospital in Shtip | 3.MATURE | Started in 2011 – estimated duration for implementation 2022 | EUR 57,537,478 (net of VAT) | 1.400.000€ 15th round TA WBIF | EUR 26,937,458 | | 115 |

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| 2 | Improvement of treatment conditions of disadvantaged groups in psychiatric hospital in Demir Hisar | <p>The purpose of the proposed project is activities for the completion and improvement of the Construction for the needs of the hospital in Demir Hisar.</p> <p>Existing objects are old and quite damaged in which inpatients ward are situated about 350 patients in substandard rooms. The reconstruction practically was impossible because of the bad condition and functional set-up (End of the life Interior doors and windows; End of the life electrical installation, water and wastewater installations, poor sanitary facilities, etc.).</p> <p>In the old building that previously was the municipal building is accommodated around 210 patients and 60-70% of the total number of patients. The same are in a very bad condition, which is proposed to be demolished, and in the same place to build a new</p> | 3.MATURE | TBD | 3.000.000.00 EUR - | 300.000USD Donation from NAVFAC | | | 109 |
| 3 | Straightening interdisciplinary medical approach through Establishment of Palliative Care Centers | <p>Current organizational arrangements and accountabilities for palliative care is fragmented and based on existing provider facilities in Skopje and Bitola, the purpose of Establishment of Palliative Care Centers is building and repurposing existing buildings into palliative centers in order provide palliative service to the population in alignment best practice recommendations from the European Association for Palliative Care</p> | | TBD | To be Defined | | | | 97 |
| 4 | Consolidation of Healthcare providers infrastructure | <p>Regionalization and decentralization of the health services by building 1 University Clinical Center, 3 Regional Clinical Hospitals, 2 Regional General Hospitals and 1 City General Hospital</p> | | TBD – estimated duration 7 years | EUR 500 000 000 | | | | 95 |

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| 5 | Support to children's right for healthy mental development through establishment of Child and Adolescent Psychiatric Services | Current organizational arrangements and accountabilities for Child and adolescent mental health (CAMH) are distributed and fragmented and based on existing provider facilities and locations. The main objective of the proposed CAMH strategy is to establish a sustainable, comprehensive, efficient National service to a common standard throughout the Republic. The purpose of CAMH project for development and expansion of services throughout North Macedonia is a 'hub and spoke' model. According to this model 6 main hub centres sited in the larger centres of the defined catchment populations should be created. | | TBD – estimated Duration 3 years | Aprox.8.5 mil eur | | | | 95 |
| 6 | Modernization and "greening" of General Hospital 8th September | The purpose of the proposed project is activities for the completion and improvement for the needs of the General Hospital in Skopje. This was also the conclusion to inform the Government of the Republic of Macedonia for the course and progress of the activities planned for the renovation of the General Hospital "8th of September " Skopje, | 3.MATURE | | apx 20.000,00 eur for design reconstruction cost estimation: 20.000.000 eur | | | 2.500.000€- MoHhas provided Still needs 1.500.000€ | 87 |
| 7 | Toward modern health and equal access to services by construction General Hospital in Kicevo | The purpose of the proposed project is activities for the completion and improvement of the Construction for the needs of the General hospital in Kicevo. To the existing facility was projected with the purpose of the clinic built in 1985, with total area of 6700 m2. | 3.MATURE | 2021-2023 | I phase – 3.410.000 EURinc. VAT approved by MF for Construction works II phase – 4.900.000 EURexc.VAT | | | | 87 |
| 8 | Decarbonization of the Health sector buildings | Increased energy performance of the buildings of the Public Health Institutions in the country, resulting in savings that can be reinvested for further improvement of the energy performance of the buildings and facilitate the implementation of the EPBD (Energy Performance of Buildings Directive 2010/21/EU) | | Start 2023 – estimated duration 5 years | To be Defined | | | | 81 |

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| 9 | Establishment of first National Centre for treatment of Cystic Fibrosis in adults and children in the Institute for respiratory diseases - Kozle | <p>The basic programme requirements and criteria for the preparation of the project documentation in question cover:</p> <ol style="list-style-type: none"> 1.Center for palliative care for children 2. Centre for cystic fibrosis in children <p>The subject of this programme is the complete revision of premises for a functional palliative care centre and a centre for cystic fibrosis, with the preparation of complete project documentation and a base project that will provide for a complete reconstruction of the premises of the Institute for respiratory disease in children – Kozle. (SKOPJE)</p> | Mature | | <p>Construction works: 1.500.000 euros</p> <p>Supervision of the renovation: 300.000,00 euros</p> | | | | 71 |
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| 10 | <p>Construction of 30 physical education facilities in primary schools, acquisition of equipment and energy efficient reconstruction of primary and secondary schools Phase III)</p> | <p>The Project fits in the larger programme that the Ministry of Education and Science (MoES) is promoting to improve performance of students in school subjects, strengthen their health condition, increase enrolment rates, and foster rural development through offering a better environment for learning, including physical education.</p> <p>The proposed project will enable promotion of higher standards in construction, renewable energy sources PV systems implementation, achieving electrical energy independence, designs, maintenance plans and costs to ensure the sustainability and quality of investments.</p> <p>The current unbalanced structure of energy tariffs is not stimulating rational consumption of energy, a progressive increase of energy prices even at a low rate, announced publicly, will have, in the long-term, a large impact on technological innovation especially within RES PV solar systems providing decarbonisation and reducing greenhouse gas emissions</p> <p>This Project is in line with the Comprehensive Educational Strategy 2018-2025 and Strategic plan 2024-2026</p> | Mature | 2025-2030 | <p>53.750.000 EUR</p> <ul style="list-style-type: none"> • Construction works for Physical education facilities: 19.500.000 euro • Supervision of the works: 500.000 euro • Project preparation for energy efficient reconstruction of schools and solar photovoltaic panel systems: 1.500.000 euro • Construction works for energy efficient reconstruction of schools: 30.000.000 Euro • Supervision of the works 750.000 Euro • Installation of solar photovoltaic | | | | |
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| 11 | Rehabilitation for energy efficiency of the 4 State Schools for students with Special Education Needs - Resource Centres | <p>The Project fits in the larger programme that the Ministry of Education and Science (MoES) is aiming to provide equal and adequate conditions for the students with special education needs. In the country there are four state schools that targeting the secondary education of those students which is in line with the policy of inclusion in the education.</p> <p>The proposed project will enable promotion of higher standards in construction, renewable energy sources PV systems implementation, achieving electrical energy independence, designs, maintenance plans and costs to ensure the sustainability and quality of investments.</p> <p>The current unbalanced structure of energy tariffs is not stimulating rational consumption of energy, a progressive increase of energy prices even at a low rate, announced publicly, will have, in the long-term, a large impact on technological innovation especially within RES PV solar systems providing decarbonisation and reducing greenhouse gas emissions</p> <p>This Project is in line with the Comprehensive Educational Strategy 2018-2025 and Strategic plan 2024-2026</p> | | 2025-2030 | <ul style="list-style-type: none"> • Rehabilitation of four State Schools for students with Special Education Needs – 6.000.000,00 euro • Supervision of the works: 150.000 euro • Project preparation for energy efficient reconstruction of schools and | | | | |
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| 12 | <p>Rehabilitation for energy efficiency in 50 primary schools where extensions with new classrooms are needed for transition to one shift teaching.</p> | <p>The purpose of the project is to implement a comprehensive energy efficiency rehabilitation program in primary schools where extensions with new classrooms are needed for transition to one shift teaching.</p> <p>By renovating facilities and enhancing the quality of primary education, the Ministry of Education and Science (MoES) aims to implement single-shift teaching in schools and fully implement the concept on primary education. It enhances the overall learning experience by providing a more consistent and focused educational environment. Additionally, single-shift teaching helps to reduce the logistical burden on parents, enabling them to better support their children's education.</p> | | <p>Started in 2024 – estimated duration for implementation 2027</p> | <p>EUR 36.225.000 (net of VAT)</p> | <p>EUR 350.000 (net of VAT) WBIF</p> | <p>EUR 35.875.000 (net of VAT) EIB, World Bank or other</p> | 99 |
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| ENERGY SECTOR | | | | | | | | | |
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| Nr. | Project title (sector included) ENERGY | Project brief description (location included) | Project Stage* (Maturity) (details) | Project duration (preparation+ implementation) | Total investment cost | Grant/ Source | Loan/ Source | National Co-financing | S R S c o r e |
| 1. | Strengthening the transmission network in the south-east region | The realization of the project enables the evacuation of the production of the planned RES (hydro, wind and photovoltaic power plants). | 1 | 2026 | € 43.381.000 | WBIF € 8.960.000 | EBRD € 26.400.000 | ME PSO € 8.021.000 | 1,48 |
| 2. | Strengthening the transmission network in the western region 110 kV overhead lines Gostivar-Kicevo-Bitola | Security analyses (N-1) show that in the western region during wet hydrology (with maximum engagement of HPP Kozjak and HPP Sv. Petka and nominal production TPP Oslomej) for contingency cases, followed by photovoltaic power plants integration in this part of the grid, appear critical loads on these 110 kV OHTLs: SS Gostivar -TPP Oslomej -SS Kichevo-SS Sopotnica- SS Bitola 1, as well as the line HPP Kozjak- HPP Sv.Petka - SS Skopje 3. The problem with the overloading in the western region is planned to be solved with a reconstruction/revitalization of the entire 110 kV section Gostivar - Oslomej - Kicevo - Sopotnica - Bitola 1, using low sag high ampacity conductors (AAAC) | 1 | 2026 | € 8.275.000 | | | MEPSO € 8.275.000 | 1,03 |

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| 3. | Smart grid technology for power system management, digital and green substations | In order to introduce modern smart components in the transmission network, MEPSO will implement a package of projects that will enable better monitoring and management of the network and uniformed distribution of power flows and asset management. Additionally, MEPSO will digitalize the substations Bitola 2 and Sopotnica. | 1 | 2026 | € 14.110.000 | | | | 0,74 |
| 4. | Strengthening the transmission network in the Northeast region | Due to the integration of large capacity of renewable energy sources from wind and solar, increasing of the load in the northeast region at a medium and long term and due to the breach of the N-1 security rule, it is necessary to build a new 400/110 kVSS Kumanovo, together with the unbundling of the 110 kV lines and redistribution of loads between 110 kV SS Kumanovo 1, 110 kV SS Kumanovo 2 and the new 110 kV SS Kumanovo 3. | 3 | 2032 | € 17.220.000 | | | | 1,03 |
| 5. | Construction of new 400kV hubs for easy integration and network access of | The realization of the project enables the evacuation of the production of the planned RES (wind and photovoltaic power plants). | 3 | 2026 | € 50.000.000 | | | | 1,42 |
| 6. | Combined-Cycle Gas Turbine (CCGT) Power Plant Negotino | Construction of new 250-500 MW Combined-Cycle Gas Turbine (CCGT) Power Plant in Negotino on hydrogen/natural gas | 3 | 2024 - 2030 | € 300 – 600.000.000 | | | | 1,51 |
| 7. | Solar District Heating Bitola | The follow up phase of Bitola Solar District Heating (Bitola SDH) project, will increase the share of renewable energy in the Country's energy mix, while focusing on heating sector, with capacity of 20-30 MWt | 3 | 2024-2030 | € 40-50.000.000 | | | | 0,87 |
| 8. | Combined-Cycle Gas Turbine Power Plant in Bitola | Construction of new 250 MW Combined-Cycle Gas Turbine (CCGT) Power Plant in Bitola on hydrogen/natural gas | 3 | 2024 - 2030 | € 300-400.000.000 | | | | 0,93 |

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| 9. | SCADA, Software for planning of electricity generation and trading | Replacement of the existing system for planning and managing the generating units. Optimization of electricity production will be enabled by hiring the generating units that are economically most profitable for use in the given planning period. | 3 | 2023 - 2025 | € 6.000.000 | | | | 0,933 |
| 10. | Battery Storage | Investment in balancing capacities – Battery Storage Systems, next to the future large solar PV plants in Bitola, Shtip and Kichevo. An initial capacity of up to 300MWh of batteries will be sufficient for the first stage, for up to 1880MW solar PV Plants, planned in the area of Municipality of Shtip; the area of TPP Oslomej (Municipality of Kichevo), and the area of TPP Bitola. | 3 | 2024 - 2030 | € 100.000.000 | | | | 0,98 |
| 11. | Improvement and Upgrade of Skopje District Heating Network | The purpose of the Project is to create a more sustainable, cost-effective, and efficient district heating for Skopje. By integrating renewable energy sources, optimizing heat resources from CHPs and industrial waste, and strategically upgrading the network, the aim is to improve the system's reliability, reduce environmental impact, and potentially lower costs for consumers. | 3 | 2025 – 2032 | € 93.200.000 | | | | 0.93 |
| 12. | Energy Efficiency Fund | The Energy efficiency Fund will be established in the Development Bank of North Macedonia in 2024, as long-term financing mechanism for energy efficiency projects of public sector, private sector and in the future households. Initial capital is provided through WB loan. | | 2024-2027 | € 40.400.000 | € 2.100.000 WBIF | € 5.000.000 WB | € 10.000.000 Green Bond | |

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| 13. | Renovation Plan for Central Government Buildings | The overall objective for the Renovation Plan is to achieve energy efficiency improvements in the buildings sector and help to meet the strategic targets as outlined in the national strategic documents. | 2 | 2024-2027 | € 9.400.000 | | | € 620.000 | |
| 14. | Gas Interconnector Republic of North Macedonia – Serbia | <p>Natural gas diversification i.e. natural gas supply of other sources in the Republic of North Macedonia and possibility for transit of natural gas from Greece through North Macedonia to Serbia.</p> <p>Infrastructure project for the section Klechovce-Sopot (border with Serbia) was prepared for the gas interconnection Republic of North Macedonia - Serbia.</p> <p>The general description is enclosed as Executive summary of the Feasibility Study for gas supply system in the Republic of North Macedonia with preliminary design.</p> | 3 mature | 2025-2026 | € 23.950.000 | | | * no sources of funds are defined | 2,96 |