

# Appendix 4.

## GLOSSARY

| Term                                 | Definition                                                                 |
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| //////////////////////////////////// |                                                                            |
| <b>ADB</b>                           | Asian Development Bank                                                     |
| <b>ADSL</b>                          | Asymmetric Digital Subscriber Line (asymmetric digital subscriber line)    |
| <b>AI</b>                            | Artificial Intelligence                                                    |
| <b>AIFC</b>                          | Astana International Financial Centre                                      |
| <b>AP</b>                            | Answering Percentage                                                       |
| <b>B2B</b>                           | Business-to-Business                                                       |
| <b>B2C</b>                           | Business-to-Consumer                                                       |
| <b>B2G</b>                           | Business-to-Governance                                                     |
| <b>bln</b>                           | Billion                                                                    |
| <b>CA</b>                            | Central Asia                                                               |
| <b>CAC</b>                           | Central Asia – Centre                                                      |
| <b>CCGT</b>                          | Combined-Cycle Gas Turbine Unit                                            |
| <b>CDP</b>                           | Carbon Disclosure Project                                                  |
| <b>CEO</b>                           | Chief Executive Officer                                                    |
| <b>CGNPC</b>                         | China General Nuclear Power Corporation                                    |
| <b>CHPP</b>                          | Combined Heat and Power Plant                                              |
| <b>CIS</b>                           | Commonwealth of Independent States                                         |
| <b>CNOOC</b>                         | China National Offshore Oil Corporation                                    |
| <b>CNPC</b>                          | China National Petroleum Corporation                                       |
| <b>CO2</b>                           | Carbon dioxide                                                             |
| <b>CO<sub>2</sub>e</b>               | Carbon dioxide equivalent                                                  |
| <b>CPC</b>                           | Caspian Pipeline Consortium                                                |
| <b>CRCT</b>                          | China Railway Container Transport Corporation Co., Ltd.                    |
| <b>CRNM</b>                          | Committee for Regulation of Natural Monopolies                             |
| <b>CSCC</b>                          | Center for Social Cooperation and Communications                           |
| <b>CSPGI</b>                         | China Southern Power Grid International, international engineering company |
| <b>DDoS</b>                          | Distributed Denial of Service                                              |
| <b>DNS</b>                           | Domain Name System                                                         |
| <b>EBITDA</b>                        | Earnings Before Interest, Taxes, Depreciation and Amortisation             |

| Term                                 | Definition                                                          |
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| <b>EBRD</b>                          | European Bank for Reconstruction and Development                    |
| <b>EIR</b>                           | Effective Interest Rate                                             |
| <b>EMS</b>                           | Express Mail Service, international express mail delivery service   |
| <b>EPC contracts</b>                 | Engineering, Procurement and Construction contracts                 |
| <b>ESG</b>                           | Environmental, Social and Corporate Governance                      |
| <b>FAR</b>                           | Fatal Accident Rate                                                 |
| <b>FOCL</b>                          | Fibre-Optic Communication Line                                      |
| <b>FRR</b>                           | First Response Resolution                                           |
| <b>FTTH</b>                          | Fiber to the Home (Kazakhtelecom)                                   |
| <b>Fund</b>                          | Samruk-Kazyna National Welfare Fund JSC                             |
| <b>Gcal</b>                          | Gigacalorie                                                         |
| <b>GCGWS</b>                         | General Classifier of Goods, Works and Services                     |
| <b>GJ</b>                            | Gigajoule                                                           |
| <b>GPON</b>                          | Gigabit Passive Optical Network                                     |
| <b>GPP</b>                           | Gas Processing Plant                                                |
| <b>GRES</b>                          | State District Power Plant                                          |
| <b>GRI</b>                           | Global Reporting Initiative                                         |
| <b>Group</b>                         | The Fund, companies and subsidiaries with over 50% voting ownership |
| <b>GW</b>                            | Gigawatt                                                            |
| <b>HPP</b>                           | Hydropower Plant                                                    |
| <b>HR</b>                            | Human Resources                                                     |
| <b>HSE</b>                           | Occupational health, safety and environment                         |
| <b>ID</b>                            | Identification                                                      |
| <b>IFRS</b>                          | International Financial Reporting Standards                         |
| <b>IMT</b>                           | International Mobile Telecommunications                             |
| <b>IoT</b>                           | Internet of Things                                                  |
| <b>IPO</b>                           | Initial Public Offering                                             |
| <b>IRR</b>                           | Internal Rate of Return                                             |
| <b>ISMS</b>                          | Information Security Management System                              |
| <b>IT</b>                            | Information Technology                                              |
| <b>JV</b>                            | Joint Venture                                                       |
| <b>KAES</b>                          | Kazakhstan Nuclear Power Stations LLP                               |
| <b>KASE</b>                          | Kazakhstan Stock Exchange                                           |
| <b>Kazakhtelecom</b>                 | Kazakhtelecom JSC                                                   |
| <b>Kazatomprom</b>                   | National Atomic Company Kazatomprom JSC                             |

| Term                                 | Definition                                                          |
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| Kazpost                              | Kazpost JSC                                                         |
| KEGOC                                | Kazakhstan Electricity Grid Operating Company JSC                   |
| km                                   | Kilometre                                                           |
| KMG                                  | National Company KazMunayGas JSC                                    |
| KMG                                  | National Company KazMunayGas JSC                                    |
| KPI                                  | Key Performance Indicator                                           |
| KPI                                  | Kazakhstan Petrochemical Industries JSC                             |
| KTZ                                  | Kazakhstan Temir Zholy National Company JSC                         |
| kV                                   | Kilovolt                                                            |
| kWh                                  | Kilowatt-hour                                                       |
| KZT                                  | Kazakhstani tenge                                                   |
| LBMA                                 | London Bullion Market Association                                   |
| LLC                                  | Limited Liability Company                                           |
| LLP                                  | Limited Liability Partnership                                       |
| LPG                                  | Liquefied Petroleum Gas                                             |
| LTE                                  | Long-Term Evolution, wireless high-speed data transmission standard |
| LTIF                                 | Lost Time Injury Frequency                                          |
| MBA                                  | Master of Business Administration                                   |
| MG                                   | Main Gas Pipeline                                                   |
| mln                                  | Million                                                             |
| MNE                                  | Ministry of National Economy of Kazakhstan                          |
| MW                                   | Megawatt                                                            |
| NAC                                  | National Atomic Company                                             |
| NEG                                  | National Electric Grid                                              |
| NPS                                  | Transactional Net Promoter Score                                    |
| OECD                                 | Organisation for Economic Co-operation and Development              |
| OGMP                                 | Oil and Gas Methane Partnership                                     |
| PIT                                  | Personal Income Tax                                                 |
| p-km                                 | Passenger-kilometre                                                 |
| PJSC                                 | Public Joint Stock Company                                          |
| PKOP                                 | PetroKazakhstan Oil Products LLP                                    |
| Portfolio Companies                  | Companies with >50% Fund ownership or trust management              |
| PPE                                  | Property, Plant and Equipment                                       |
| PRC                                  | People's Republic of China                                          |
| PRMS                                 | Petroleum Resources Management System                               |

| Term                                 | Definition                                                        |
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| QazaqGaz                             | National Company QazaqGaz JSC                                     |
| QPS                                  | Qualified Potential Suppliers                                     |
| R&D                                  | Research and Development                                          |
| RK                                   | Republic of Kazakhstan                                            |
| ROACE                                | Return on Average Capital Employed                                |
| SAC                                  | Supreme Audit Chamber of the Republic of Kazakhstan               |
| Samruk-Energo                        | Samruk-Energo JSC                                                 |
| SCADA                                | Supervisory Control and Data Acquisition                          |
| SDGs                                 | Sustainable Development Goals                                     |
| SEZ                                  | Special Economic Zone                                             |
| SKAI                                 | Samruk-Kazyna Artificial Intelligence                             |
| SME                                  | Small and Medium-Sized Enterprises                                |
| SON/BU                               | Combined route of the Soyuz and Bukhara-Urals trunk gas pipelines |
| SPO                                  | Secondary Public Offering                                         |
| SRS                                  | Samruk Research Services                                          |
| SSMC                                 | Social Stability Monitoring Centre                                |
| STEM                                 | Science, Technology, Engineering and Mathematics                  |
| TCFD                                 | Task Force on Climate-related Financial Disclosures               |
| TCITR                                | Trans-Caspian International Transport Route                       |
| TCO                                  | Tengizchevroil LLP                                                |
| TEU                                  | Twenty-foot Equivalent Unit                                       |
| TITR                                 | Trans-Caspian International Transport Route                       |
| UAE                                  | United Arab Emirates                                              |
| UCC                                  | United Cooperation Company                                        |
| UES                                  | Unified Energy System                                             |
| UN                                   | United Nations                                                    |
| UNEP                                 | United Nations Environment Programme                              |
| Unit                                 | Unit of measurement                                               |
| UPS                                  | Uninterruptible Power Supply                                      |
| USA                                  | United States of America                                          |
| VAT                                  | Value Added Tax                                                   |
| WACS                                 | Wide Area Control System                                          |
| WAMS                                 | Wide Area Monitoring System                                       |
|                                      |                                                                   |