

# *BUILDING A LIMITLESS FUTURE.*

At Lezgi Holding, we are dedicated to engineering a smarter, sustainable future. Building upon decades of expertise, we deliver integrated solutions across renewable energy, infrastructure, and environmental excellence, powering progress and nurturing innovation in every project.



# COMPANY PROFILE



## BUILDING A LIMITLESS FUTURE.

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INTRODUCTION

# LEZGI HOLDING

## *BUILDING A LIMITLESS FUTURE.*

As the Lezgi Group our goal is to combine and improve our legacy of knowledge and experience with engineering.

In our works that started in the field of engineering; we continue by adding construction, energy production and tourism fields with our **HIDROCORE ENERGY CO.**, **BALGAT ENGINEERING** AND **TUNÇSOY TOURISM** companies.

**HIDROCORE ENERGY CO.** was founded in Ankara to provide energy investors, who especially aim to invest in the renewable energy sector, to carry out the process starting with the investment decision in a professional and conscious manner, and meet their goals after the investment, with optimum solutions incorporating projects that add value and meet the needs of the sector, that are efficient and environmentally friendly.

Our aim is to help investors with a target and solution-oriented behavioral approach, together with our founders and quality technical staff who have been operating in the sector since 2005 and have a great deal of industry experience in project and process management, consultancy, business and contracting.

**MEHMET ALI TUNÇ**  
HYDROGEOLOGY & CIVIL ENGINEER  
CHAIRMAN OF THE BOARD



# ENGINEERING SERVICES

**COMPREHENSIVE ENGINEERING SOLUTIONS FOR SUSTAINABILITY, INFRASTRUCTURE, RENEWABLE ENERGY, ENVIRONMENTAL RESTORATION, AND INDUSTRIAL EXCELLENCE.**

Solid Waste Disposal Projects, (I, II, III Grade (Hazardous, non-hazardous and inert) Facility Implementations, Feasibility, EIA)  
Dump Site Rehabilitation/Closure Projects  
Landfill Closure Projects  
Mining Waste Landfill Site Projects  
-Tailing Storage Facility Project Wastewater Treatment Facilities  
Package Wastewater Treatment  
Environmental Impact Assessment (EIA)  
Environmental Consulting  
OSH (Occupational Safety and Health)  
Consulting Services  
Site Survey Reports  
Base Map Studies  
Management Plans (Wetland Management Plans, Basin Reclamation Plans) Projects  
Water, Sea Water Desalination  
Wastewater Treatment Plant  
Bio-Restoration Projects  
Social Survey Studies  
Rehabilitation Projects  
Forest Permit Grants  
Mining Activities  
Long-term Improvement  
Plans under the National Parks Management  
Pond Area Rehabilitation Projects  
Hydroelectric Plant Projects  
Wind Energy Projects  
Geothermic Energy Technical Counseling  
Facility Management  
Geographic Information Systems (GIS)  
Dam, Pond and Hydroelectric Power Plants  
Transportation Structures  
Water and Resource Development  
Steel Industrial Buildings

# ENVIRONMENTAL IMPACT ASSESSMENT (EIA)



Environmental Impact Assessment (EIA); covers the studies to be carried out in determining the positive and negative effects of the projects planned to be realized on the environment. EIA determines and evaluates the measures to be taken to prevent or minimize the negative effects in a way that does not harm the environment. These measures include the work to be carried out in the determination, evaluation of the chosen location and technology alternatives, and in the monitoring and control of the implementation of the projects.

- Provision of EIA Reports
- Provision of Project Presentation Files
- Nature Reclamation Projects
- Environmental Management Plans
- Public Cooperation Plans
- Social Management Plans
- Determination of Current Environmental Status

# ENVIRONMENTAL COUNSELLING SERVICES



## **MINISTRY OF ENVIRONMENT AND URBAN PLANNING CERTIFICATE OF AUTHORITY**

According to Environmental Permit and License Regulation,

«ARTICLE 5 – (1) Within the scope of this regulation, enterprises subject to environmental permit or environmental permit and license are classified in Appx-1 and Appx-2 lists according to their environmental impacts.

(2) The enterprises included in the Appx-1 and Appx-2 lists must first obtain a temporary activity certificate in order to operate.

(3) It is said that businesses that have received a temporary activity certificate must obtain an environmental permit or environmental permit and license within 1 year from the date of the certificate. In this context, we carry out the works and transactions of the facilities and businesses that must be done within the scope of the regulation.

# WASTEWATER TREATMENT PLANT DESIGNS



Our company, with its expert and dynamic team, makes the most suitable Wastewater Treatment Plant designs for your needs. We base our designs on eco-engineering principles. Our services continue with manufacturing and provision of all necessary chemicals. We design both domestic package and biological treatment plants, as well as industrial and chemical wastewater treatment plants.

We provide services for the preparation of Project Approval Files within the scope of the 2018/14 public mandate published by the Ministry of Environment, Urbanization and Climate Change for all wastewater treatment plants that are built or under construction.

# MINING WASTE FACILITIES



Mining Waste Facilities and Tailing Storage Facilities are designed in compliance with the By-Law on Mining Waste (Official Gazette dated 15.07.2015 and No.29417) and other applicable international standards. These specialized landfills safely store and dispose of waste generated from ore enrichment processes, quarrying operations, and the exploration, extraction, and processing of mineral resources.

## **PRE-REVIEW - PLANNING PHASE**

- Preparation of Facility Site Selection Report
- Preparation of Feasibility Report
- Alternative Projects and Optimization Studies
- Determination of the Approximate Dimensions of the Structure
- Preparation of Preliminary Projects Calculation of Project Cost
- Performing Economic Analysis
- Project Site Mapping
- Conducting and Reporting Geological, Geophysical and Hydrogeological Studies
- Conducting and Reporting Materials Research

# LANDFILL STORAGE PROJECTS



I, II, III GRADE (Hazardous, non-hazardous and inert) FACILITY IMPLEMENTATIONS, PRE-FEASIBILITY, EIA Legislations on which the Project is Based

- By-Law on Landfill dated 26.03.2010 and numbered 27533
- Public mandate on the Preparation of Landfill Implementation Projects dated 22.11.2018 and numbered 2018/15

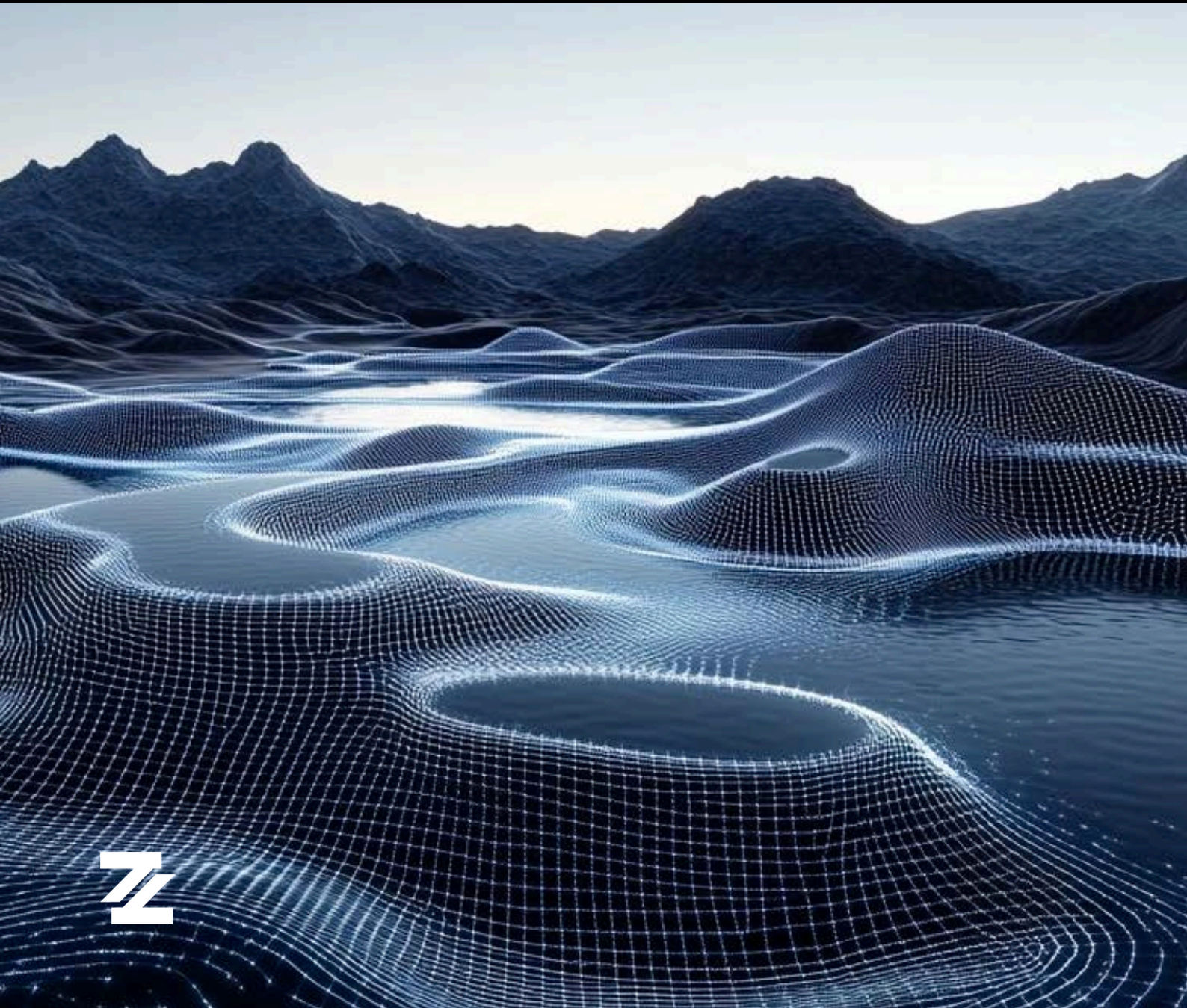
# DUMP SITE REHABILITATION



Many legacy dump sites and uncontrolled disposal areas pose long-term environmental risks due to inadequate containment systems, uncontrolled leachate generation, landfill gas emissions, slope instability, and groundwater contamination. Lezgi Group develops site-specific rehabilitation strategies to transform these areas into environmentally compliant and operationally safe facilities.

Our services include detailed site investigations, waste characterization studies, topographic and geotechnical assessments, landfill gas and leachate management design, surface water drainage systems, slope stabilization, final cover system design, and environmental monitoring programs. We prepare rehabilitation master plans, implementation projects, technical specifications, tender documents, and construction supervision services to ensure that each site meets current environmental regulations while minimizing long-term operational and environmental risks.

# SITE STUDY REPORTS



# DAM, POND AND HYDROELECTRIC POWER PLANTS



We specialize in water resources planning and design services, flood protection projects and irrigation structures, especially irrigation, pond, dam and hydroelectric projects.

- Planning Reports
- Solid Projects
- Application Projects

As Lezgi Group of companies, we have expert staff who can provide all kinds of engineering and consultancy support you may need, from planning or pre-planning, feasibility studies to construction, commissioning and operation.

Our commitment is not limited to state-of-the-art engineering, but also includes consulting services that will contribute to the development of your project.

# TRANSPORTATION STRUCTURES



We deliver comprehensive application and consultancy services for the design and implementation of infrastructure projects, including highways, motorways, bridges, tunnels, intersections, retaining walls, underpasses, and overpasses.

- Reconnaissance Reports
- Indefinite Plan Feasibility studies
- Geological Studies
- Geotechnical Studies
- Hydrogeological Studies
- Map and Expropriation Studies
- Earthquake Risk Analysis
- Final and Implementation Projects
- Field Applications, Construction Project Management and Consulting Services

# WATER AND RESOURCE DEVELOPMENT



With our expert engineering services, we deliver comprehensive planning, design, and application solutions for both open and closed irrigation systems. Our goal is to maximize the economic contribution of fertile agricultural lands through efficient irrigation infrastructure. Additionally, we provide field consultancy and expertise in upper basin master planning and flood protection risk analysis, ensuring sustainable water management and risk mitigation.

# STEEL INDUSTRIAL BUILDINGS



We provide design, production, and assembly services for steel construction projects, including industrial facilities, warehouses, sports centers, shopping malls, and more. Our lightweight steel carrier systems offer superior strength and earthquake resistance, with precise fabrication ensuring minimal error and fast assembly using bolted joints. Steel structures require less excavation, are recyclable, and allow for easy modifications and insulation advantages.

## **Applications:**

- Industrial Facilities
- Logistic Facilities
- Management Buildings
- Sports Facilities
- Shopping Malls
- Health Facilities
- Multi-storey Car Parks
- Aircraft Hangars
- Terminals
- Storage Buildings



# HİDROCORE ENERGY CO.

At HİDROCORE ENERGY CO., we provide high-quality engineering and consultancy services to both domestic and international investors aiming to make their mark in the Turkish Energy Market. With a solution-oriented approach, we develop projects that ensure the reliable and cost-effective completion of energy investments. Our expert team meticulously determines technical and administrative requirements to deliver exceptional results.

With us handling the complexities, you can confidently focus on the success of your investment.

# CONSTRUCTION PROJECTS



To ensure sustainable, reliable, and high-quality operations for your facility during both construction and operational phases, we implement essential and mandatory procedures that prioritize operational safety.

**The main services we provide in this regard are as follows:**

- Floor excavation and field leveling procedures
- Construction of waste dams and irrigation ponds (including roads, fire prevention, and drainage)
- Static grounding measurement and reporting services
- High voltage operation liability management
- Protection relay adjustments and coordination
- Low Voltage (LV) - Medium Voltage (MV) contract procedures
- Project and consultancy services
- Project and process management
- Corporate relationship management





# 1

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## **ACCURATE CALCULATION**

Precise analysis and calculation to ensure reliable and efficient project outcomes. Our expert team leverages advanced methodologies to guarantee accuracy in every step of the project.

# 2

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## **PLANNING AND EXECUTION**

Strategic planning and seamless execution to deliver projects on time and within budget. We coordinate every phase with precision, ensuring smooth transitions from concept to completion.

# 3

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## **FEASIBILITY, PROJECT DESIGN, AND EVALUATION**

Comprehensive studies to assess feasibility, develop detailed project designs, and conduct thorough evaluations. We ensure that each project is viable, sustainable, and aligned with industry standards.

# 4

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## **INSTALLATION AND COMMISSIONING**

Efficient installation and commissioning processes that bring projects to life. We meticulously manage every detail to ensure smooth startup and optimal performance from day one.



# RENEWABLE SOLAR PROJECTS



Harness the power of the sun to meet your energy needs with our tailored solar solutions. Whether for your home, workplace, or land, we provide efficient and sustainable energy systems that increase value and reduce costs.

We install solar energy systems that are either grid-connected or independent, with flexible applications for rooftops and land. Ideal for farmhouses, detached villas, residential areas, and mass housing, our solutions are designed to deliver optimal performance and long-term reliability.

## **Our Services Include:**

- **Field Improvement Services:** Preparing and optimizing land for solar installations.
- **Feasibility Services:** Analyzing project viability and potential returns.
- **Project Services:** Designing and planning custom solar solutions.
- **Corporate Coordination Services:** Managing communication and collaboration with stakeholders.
- **Installation and Commissioning Services:** Ensuring smooth and efficient system setup.
- **Operation, Maintenance, and Repair Services:** Keeping your solar system running at peak performance.

# RENEWABLE HYDROELECTRIC ENERGY PROJECTS



From planning to commissioning, we deliver full support for your licensed or unlicensed hydroelectric power plant projects. With our in-depth expertise and experience, we ensure seamless project execution.

**Our Services Include:**

- Field Analysis and Water Resource Survey Services
- Hydrological Evaluation Studies
- Feasibility and Technical Evaluation Reports
- Project Services
- Corporate Coordination Services
- Approval Procedures (Associate, Undergraduate, Ministry)

# ELECTRICAL CONTRACTING SERVICES



Hydrocore Energy A.Ş. is proud to bring 12 years of expertise in electrical contracting services to our valued customers. With a commitment to safety, precision, and efficiency, we deliver faultless and timely solutions for all your electrical contracting needs.

**Our Services Include:**

- Low Voltage Contracting Works
- Distribution, MCC, Compensation, UPS, and Generator Systems
- Static Grounding and Lightning Protection
- SCADA and Energy Monitoring Systems
- Medium Voltage Contracting Works
- MV Power Supply and Distribution Works
- Transformer and MV Plumbing Works
- Testing and Commissioning Works
- Low Power Systems
- Project and Installation Services

# *BUILDING A LIMITLESS FUTURE.*

At Lezgi Group, we are committed to engineering a smarter, sustainable future. With decades of experience and a passion for progress, we deliver integrated solutions in renewable energy, infrastructure, and environmental excellence.

Our expertise spans renewable energy systems, waste management, and industrial infrastructure, combining technical precision with strategic vision. From planning and feasibility studies to execution and commissioning, we deliver reliable, sustainable, and innovative solutions tailored to diverse needs.

With a growing portfolio of completed projects and ongoing initiatives across 16 cities, we are continuously expanding our impact and shaping the future of engineering.

Together, we are building a limitless future—  
driven by innovation and excellence.