



ARTES ENERGY LLP >>

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Our Vision; Energy is Our Main Focus

To grow ARTES ENERGY and become a leading, internationally known, respected and profitable privately-held energy company

Base Sectorial Studies

- ❖ Oil and Gas
- ❖ Renewable Energy (Geothermal, Wind, Solar, Hydro, Biomass)
- ❖ Mining and Coal
- ❖ Geotechnical and Engineering
- ❖ Trade (Oil, Gas, Energy)
- ❖ Material, Logistics, Procurement, Constructions

Main Business Lines & Areas of Expertise



- ❖ Exploration - Production
- ❖ Field Development & Rehabilitation
- ❖ Field Services
- ❖ IPM Projects And Consultancy
- ❖ Pipelines, Compressor Stations, Surface Facilities
- ❖ Trade Organization
- ❖ Logistics & Procurement

ARTES ENERGY - Geographical Focus

Central Asia & Russia

- ❖ Turkmenistan
- ❖ Kazakhstan
- ❖ Azerbaijan
- ❖ Tajikistan

Europe

- ❖ Turkey
- ❖ Russia
- ❖ Greece
- ❖ United Kingdom

Middle East / North Africa (MENA)

- ❖ Syria
- ❖ Libya
- ❖ Egypt
- ❖ Sudan

High Potential Terrains

- ❖ Iraq
- ❖ Afghanistan
- ❖ African Countries
- ❖ Mozambique



Synergy & Motivation

The continuous rise in global demand for energy coupled with high energy prices and increasing concern about securing energy supply for the future provide not only a challenging but also an outstanding opportunities for professional and agile energy companies as lots of different opportunities to be captured and grow rapidly.

ARTES ENERGY is a company promoted by outstanding, highly skilled, world-class professionals having proven track record in the industry; capturing opportunities around the world and creating value for their shareholders.

The ARTES team has identified quite a number of unique opportunities, each of which offers “vast of opportunities for profitable growth”. The team has also developed excellent relationships with pertinent sovereign governments and major energy companies that facilitate their strategy implementation.

Company Objective

- ❖ To setup a reputable energy conglomerate having significant regional and global presence within mid-term period.
- ❖ To build a balanced portfolio composed of diversified & attractive exploration, development and producing assets.
- ❖ To capture risk-mitigated opportunities (in high potential but in politically difficult areas)
- ❖ To leverage relationships with national energy companies across the globe.
- ❖ To maximize valuations for stakeholders by combining project successes with optimum structuring.



Segments of Operational Business Lines

■ Upstream

- ❖ Acquisition and operation of energy assets through:
 - Participation in exploration and/or producing license bidding-rounds
 - Participation in projects for incremental production (e.g., brown field rehabilitation)
 - Farm-in opportunities & JV-partnerships
- ❖ Acquisition of small or mid-size profitable energy companies

■ Midstream

- ❖ Pipelines and energy distribution systems, surface facilities and compressor stations
- ❖ Storage, transmission and sales of energy - with strategic partners.

■ Downstream

- ❖ Rehabilitation of underperforming refinery and petrochemicals factories and/or assets
- ❖ Geothermal plants
- ❖ Power plants



World-Class Team of Professionals

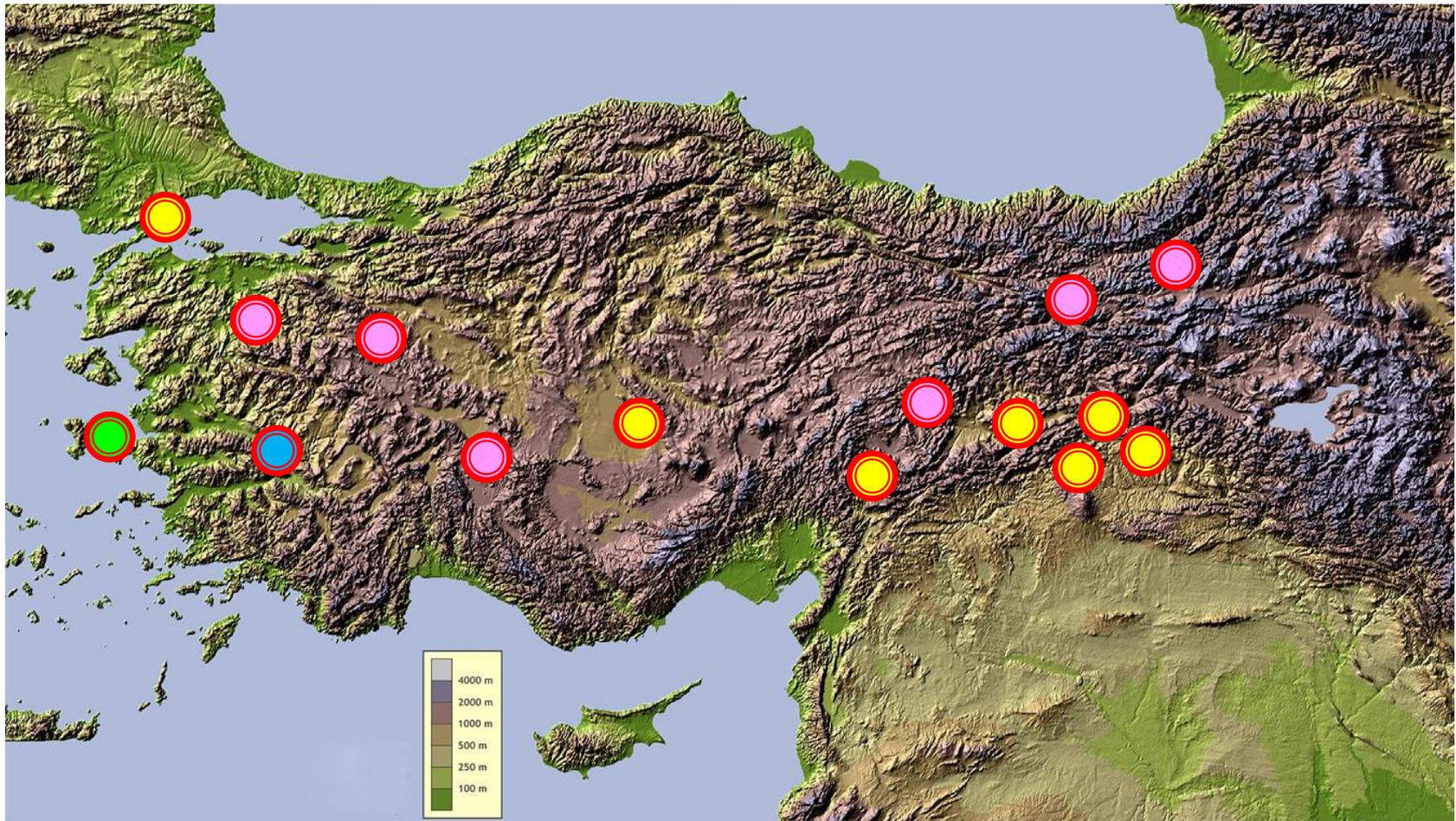
- **Core Team of Technical Professionals**
- **Highly-skilled experts and consultants**
 - ❖ Reputable
 - ❖ Strong Recognition in The Industry
 - ❖ Proven Track Record
 - ❖ World-Class Skills & Expertise



Current Asset Profile



Current Asset Profile



Artes has some Current Assets also in other countries..

Proposed Asset Profile

Description

(Field development and rehabilitation in addition to exploration acreages)

Mozambique

- Exploration Blocks and rehabilitation projects

Iraq

- Exploration Blocks and rehabilitation projects

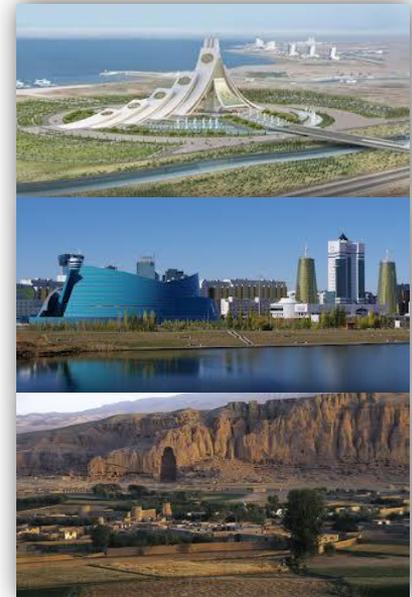
Turkmenistan

- Exploration Blocks and rehabilitation projects

ARTES ENERGY have number of diversified opportunities particularly in [Russia, Azerbaijan, Tajikistan, Libya, Syria, Iraq and also African Countries.](#)

Each of these opportunities may require a few million to hundreds of million dollar of investment for acquisition and exploration.

ARTES ENERGY shall pursue these opportunities with a strategic partner, limiting its financial exposure and also sharing and mitigating the risks.



Investment Propositions

Option 1 : Asset-Based Funding

- ❖ Investor may choose asset based funding for any of our existing asset. Funding shall be required for a work program defining the first phase of exploration. Typically, the relevant cash-call will spread over 3 to 5 years.

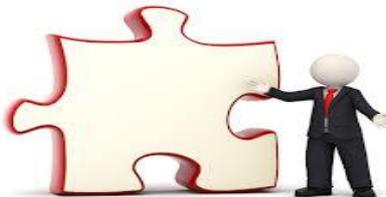
Option 2 : Equity Participation

- ❖ Investor may invest in the equity of the company. A structure of investment through convertibles; with resource/reserve based conversion after 3 to 5 years. Exit route through public listing within 5 years.



WAY FORWARD

- ❖ **Signing of MOU and NDA/CA**
- ❖ **Choose the participation option**
- ❖ **For Asset based option: choose a short list of assets**
- ❖ **ARTES ENERGY to provide details of assets/scheme and their related work program and associated obligations.**
- ❖ **Due Diligence, if necessary**
- ❖ **Discussion on commercial terms & investment program**





ARTES - RENEWABLE ENERGY



ARTES Energy is one of the leading companies in oil gas, geothermal energy and hydroelectric power, with over four decades of experience in the industry. Company offers services and solutions for oil and gas, geothermal energy and hydroelectric power development to projects all over the world.



ARTES - GEOTHERMAL

ARTES is also another expert partner of choice of yours if you'd like to invest for development of geothermal resources. The company may offer a comprehensive suite of design and consulting services that can take a project from start to finish.

ARTES's geothermal energy projects involve harnessing high-temperature geothermal fields and designing flash steam power plants that produce electricity and hot water (combined heat and power), as well as designing geothermal power plants that produce electricity utilizing low-temperature geothermal fields via binary cycle.

ARTES Energy's Geothermal Energy Services:

- ❖ Geothermal exploration
- ❖ Geothermal drilling
- ❖ Geothermal power plants
- ❖ District heating



- Project Management
- Feasibility Studies
- Engineering - Research
- Development
- Construction management
- Procurement

ARTES - WIND

Wind Facts

An infinite source of clean power; actually the source is the sun.

As the sun warms the earth, it warms the air above it, making it less dense or lighter. As the light air rises, it creates a low pressure zone near the ground. Air from surrounding cooler areas rushes in to balance the pressure. These are called local winds.

Our vast landscape, three windy coastlines, the plains and mountains all contribute to this endless resource. Turkey like Denmark already gets over 10% of their electricity from wind.



- Project Management
- Feasibility Studies
- Engineering - Research
- Development
- Costruction management
- Procurement



ARTES - SOLAR

Solar Basics- Energy from the Sun

The sun has produced energy for billions of years. Solar energy is the sun's rays (solar radiation) that reach the Earth. This energy can be converted into other forms of energy, such as heat and electricity.

Solar Energy Can Be Used for Heat and Electricity When converted to thermal (or heat) energy, solar energy can be used to:

Heat water — for use in houses, buildings, or swimming pools

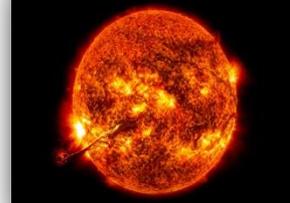
Heat spaces — inside the houses, greenhouses, and other buildings

Heat fluids — to high temperatures to operate a turbine to generate electricity

Solar energy can be converted to electricity in two ways:

Photovoltaic (PV devices) or “solar cells” change sunlight directly into electricity. Individual PV cells are grouped into panels and arrays of panels that can be used in a wide range of applications ranging from single small cells that charge calculator and watch batteries, to systems that power single houses, to large power plants covering many acres.

Solar Thermal/Electric Power Plants generate electricity by concentrating solar energy to heat a fluid and produce steam that is used to power a generator. In 2010, solar thermal-power generating units were the main source of electricity at 13 power plants in the United States.



ARTES - HYDRO

Large Hydro Power Plants

Hydro power plants are the most efficient generators of electricity in the world. They lie on all major rivers and provide a reliable source of power for growth regions as well as industrial nations.

They ensure that millions of people have access to light and heat, education and work.

Small hydro power plants

ARTES is a full-line supplier for small hydro power plants.

With its over 10 years of experience, the company is an established industry provider both for the construction of new plants and for the modernization of existing power stations.



ARTES - BIOMASS

The term "biomass" refers to organic matter that has stored energy through the process of photosynthesis.

It exists in one form as plants and may be transferred through the food chain to animals' bodies and their wastes, all of which can be converted for everyday human use through processes such as combustion, which releases the carbon dioxide stored in the plant material.

Many of the biomass fuels used today come in the form of wood products, dried vegetation, crop residues, and aquatic plants.

Biomass has become one of the most commonly used renewable sources of energy in the last two decades, second only to hydropower in the generation of electricity. It is such a widely utilized source of energy, probably due to its low cost and indigenous nature, that it accounts for almost 15% of the world's total energy supply and as much as 35% in developing countries, mostly for cooking and heating.



ARTES - GEOTECHNIC

ARTES Geotechnical is a Full Service Consulting Geotechnical

- ❖ Engineering Activity with in- House Capabilities to Provide
- ❖ Test Borings
- ❖ Geological And Geophysical Surveys
- ❖ Engineering Analysis and Reports
- ❖ Design
- ❖ Laboratory Soil Rocks
- ❖ Concrete and Geosynthetics Testing
- ❖ Construction Monitoring/Construction Materials Testing



ARTES - MINING & COAL

Turkey is very rich in coal and other mining resources, thus ARTES Mining can provide professional solutions, consultancies in geotechnical engineering activity with in-house capabilities and create profitable partnerships with international clients in the fields of mining.

Our company has succeeded numerous projects since its incorporation date, continues to render services on the basis of a principle that never compromises the target of success. Our studies, focused on the exploration and development of gold, high-value base-metal deposits and coal.

Artes Mining has established its vision as completion of each project on time that it has undertaken with a definition of success and by keeping up with changing technology within an innovative, enterprising and dynamic system with productive and experienced employees sharing the company's principles, without compromising quality.

The projects realized by our company up to date and those in progress are of outstanding quality to represent our country and our sector both inland and abroad.





WHAT WE DO & PROVIDE >>

Material - Procurement – Logistic

ARTES offers comprehensive consulting services in the areas of infrastructure & transport . The company enjoys a strong business relationship with local and national governments, private or public entities. ARTES has been the trusted design and consulting engineering firm for infrastructure, road constructions and transportation projects all across the country and abroad.

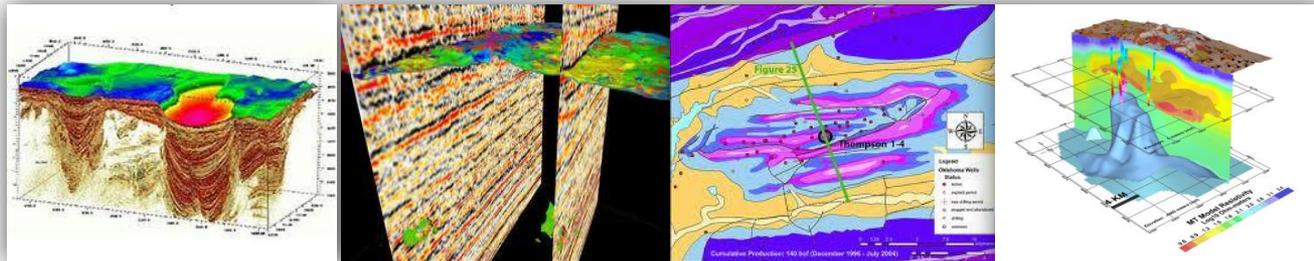
The company offers a multidisciplinary approach to projects to ensure the success of every project we run. With company services spanning the range of all geology, petroleum, civil engineering disciplines, ARTES provides its infrastructure and transport customers with every service they need for a successful project of any size.



We carry all your equipment, good and other stuff to field, geological, geophysical and well site.

Exploration Activities

- ❖ Project, Field And Well-Site Geology
- ❖ Well-Site Operations
- ❖ Well Log Interpretation
- ❖ Seismic Data Acquisition, Their Processing and Interpretation
- ❖ Basin Evaluations And Prospect Generation
- ❖ Basin-Scale Or Field-Scale Evaluations
- ❖ Field Characterization, Modeling And Simulation
- ❖ Field Rehabilitation Studies



Evaluation of Exploration & Production projects and minimizing technical risks using G&G tools

Geological and Geophysical Evaluations

- ❖ Geological Evaluation
- ❖ Geological Mapping
- ❖ Measuring Stratigraphic Sections
- ❖ Collecting Geological Samples
- ❖ Integrating the data with subsurface
- ❖ Well Log Interpretation
- ❖ 3D Basin Modeling
- ❖ 3D Reservoir Modeling
- ❖ Geophysical Interpretation
- ❖ 3D Seismic Interpretation Systems



Success needs good observation and evaluation in Geology and Geophysics.

Production Activities

- ❖ Oil production process from well to export
- ❖ Oil reservoir
- ❖ Well completion
- ❖ Well control
- ❖ Inlet Mainfold
- ❖ Artificial lift methods
- ❖ Separation and separator
- ❖ Oil treating
- ❖ Oil storage and transportation
- ❖ Utilities



Understanding subsurface needs high competency in technology, knowledge and experience.

Production Systems

Production Process Systems

- ❖ Flow control devices
- ❖ Floating Production Systems
- ❖ Tanks
- ❖ Separators
- ❖ Gas Measurement and Regulation
- ❖ Water flooding-Saltwater disposal
- ❖ Automation
- ❖ Crude oil measured
- ❖ Sample and testing
- ❖ Surface Production
- ❖ Well Completions
- ❖ Process Equipment
- ❖ Well services and well work overs
- ❖ Satellite production wells



Production and Additional Equipment

- ❖ Casing, tubing and pipelines
- ❖ Wellhead equipment
- ❖ Pumps and pumping units
- ❖ Process equipment
- ❖ Other production and additional equipment
- ❖ Fuel and electric contusions

Service Activities

- ❖ Drilling Services
- ❖ Workover Services
- ❖ Well Completion Services
- ❖ Wire line Log Services
- ❖ Seismic Acquisition



***Includes HPHT field services experience**

Oil Field Services

Contractors' technical standards must meet ARTES ENERGY's objectives; to collect high quality and healthier data which in turn allowing interpreters to provide more reliable output

- ❖ Drilling services and Rigs
- ❖ Workover services and Rigs
- ❖ Cementing
- ❖ Wireline logs , tools and equipment
- ❖ Perforated operations
- ❖ Seismic data acquisition (2D&3D)
- ❖ Seismic data processing (2D&3D)
- ❖ Seismic data interpretation (2D&3D)



Field Services Geographical Focus

Worldwide experienced team members from all around the world



IPM - Integrated Project Management

Worldwide experienced team members from all around the world..

- ❖ License Procedures
- ❖ Geology and Geophysical Studies
- ❖ Service Activities (Drilling and Well Completion)
- ❖ Production Management
- ❖ Network Systems
- ❖ Distribution and Marketing



Human Resources

Worldwide experienced team members from all around the world..

- ❖ Key professionals of having more than 25 years of experience
- ❖ Well-educated and very well-trained personnel
- ❖ Diversified cultures and multi-disciplinary working environment



Health, Safety, and the Environment (HSE) Policy

Worldwide experienced team members from all around the world..

- ❖ Processes for preserving environment
- ❖ Complying to relevant industry standards and local HSE legislations
- ❖ Training & education for environment-consciousness
- ❖ Responsibility to society
- ❖ Safe working environment
- ❖ Reporting





Worldwide Projects



Oil & Gas Activities

Projects

Gas Upstream

Oil Exploration

Oil Exploration

Oil Exploration

Oil Exploration

Oil Exploration

Integrated Drilling –Operation Service –Rig Management

Oil & Gas Exploration & Production Joint Venture

Oil & Gas Exploration & Production Joint Venture

Integrated Drilling –Operation Service –Rig Management

Country

Aksaray - TURKEY

Cizre –Bostancı- TURKEY

Cizre –Kumçatı- TURKEY

Cizre – Çavuşhan-TURKEY

İdil - TURKEY

Kahta - TURKEY

TURKEY

AZERBAIJAN

LIBYA

TURKMENISTAN

Description

Ongoing

Development

Development

Development

Development

Development

Development

Waiting

Development

Completed



Worldwide Projects



Wind Activities

Project	Power	Country	Description
Molaoi Windpower Plant	25 MWe	Greece	Ongoing
Zigaro Livado Windpower Plant	42 MWe	Greece	Development
Furka Windpower Plant	30 MWe	Greece	Development



Worldwide Projects



Hydro Activities

Projects

Okkayası Regulator and HEPP

MORAN Regulator and HEPP

SÖĞÜTLÜ Regulator and HEPP

ASARCIK I Regulator and HEPP

ASARCIK II Regulator and HEPP

ÇAKMAK I Regulator and HEPP

ÇAKMAK II Regulator and HEPP

Country

Kahramanmaraş - TURKEY

Giresun- TURKEY

Kahramanmaraş- TURKEY

Giresun-TURKEY

Giresun- TURKEY

Kahramanmaraş- TURKEY

Kahramanmaraş- TURKEY

Description

Completed

Completed

Completed

Completed

Completed

Completed

Completed



Worldwide Projects



Mining Activities

Projects	Country	Description
Serceme Copper & Gold Mine Project	Erzurum - TURKEY	Prospecting
İliç Cu-Pb-Zn Mine Project	Erzincan- TURKEY	Prospecting
Çan-Yenice Cu-Ag -Au Mine Project	Çanakkale- TURKEY	Prospecting
Arguvan Fe Mine Project	Malatya-TURKEY	Prospecting
Çalkara Gold Mine Project	Eskişehir- TURKEY	Prospecting
Senirkent Marble Project	Isparta - TURKEY	Prospecting



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