

# Raman Energy Development Holding

## Profile



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# Outline

- Overview
- Main fields of activity
- Subsidiaries
- Managerial approach
- Strategic partners
- Raman Energy Consortium
- Projects
- Conclusions



# Overview

- Established in 2008
- Head office in Tehran, Iran
- Mission
  - Create international-level business in the fields of energy and industry in Iran
  - Implementation of the projects in the associated fields
  - Collaboration with international companies



# Main fields of activity

- Development of oil and gas fields
- Engineering, procurement and construction of refineries and petrochemical projects
- Consultation in management and engineering for industries
- Manufacturing equipment
- Engineering, procurement and construction of industrial projects
- Performing economic analysis and business plans



# Main fields of activity

- Inspection, audit and quality control of industrial centers
- Provide operational and maintenance services to the industries, power plants and refineries
- Provide finance for projects
- Investing on power plant and industrial projects
- Holding specialized training courses
- Implementation of technology transfer projects

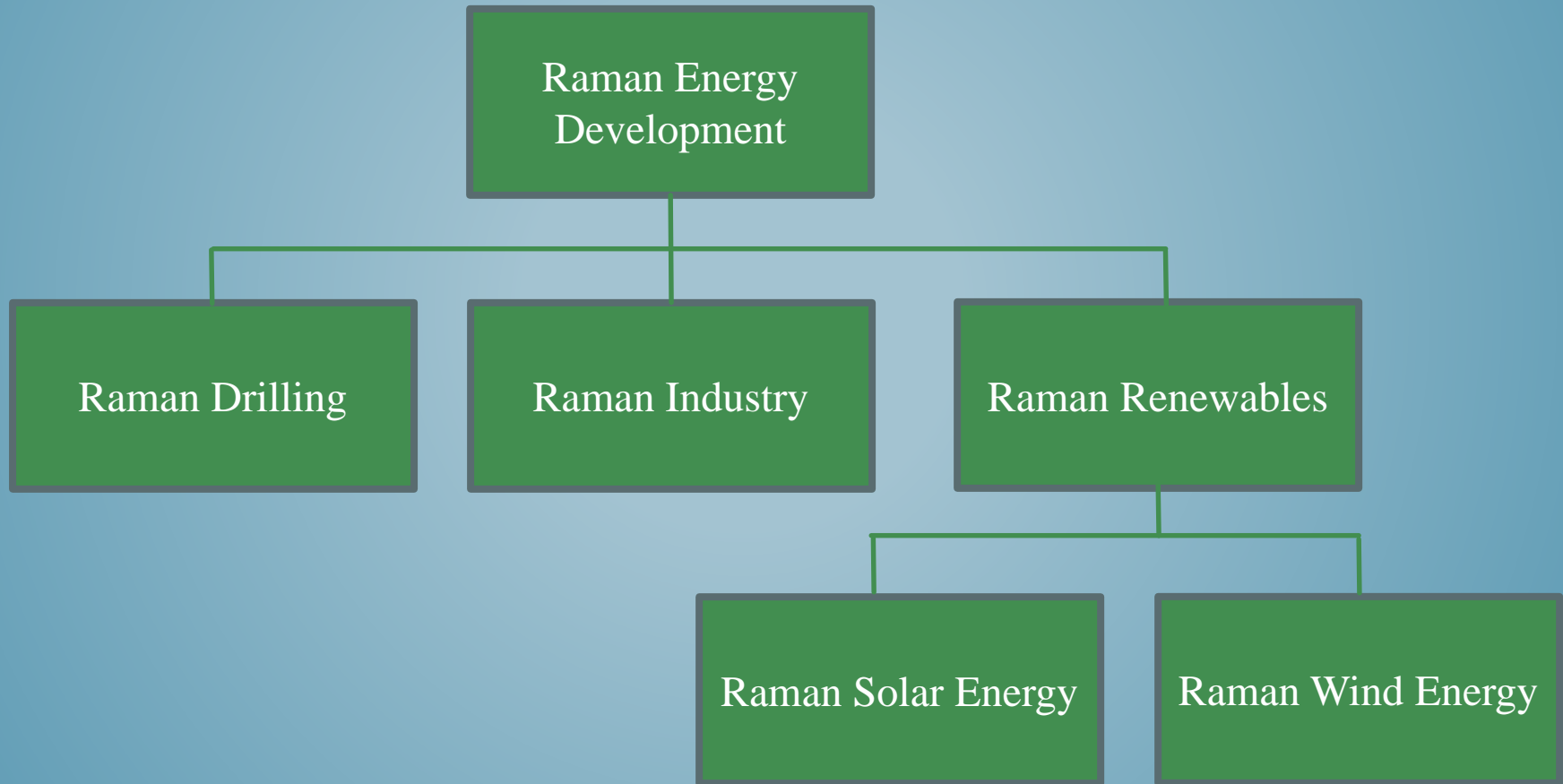


# Main fields of activity

- Engineering, procurement and construction of recycling plants
- Collaboration with universities and research centers for development of innovative ideas
- Provide operational and maintenance services to the industries, power plants and refineries
- Engineering, procurement and construction of Renewable Energy projects e.g. solar and wind power plants



# Subsidiaries





# Managerial approach

- In order to implement different projects, each project is referred to corresponding subsidiary company that has expertise in the field.
- For most projects, cooperation is accomplished with associated foreign partner(s).
- Each company has expert human resources and equipped with required hardware in the related field.





# Strategic partners

- Strategy of the holding is based on development of strategic partnership with reputable foreign companies for cooperation in different projects.
- In the field of oil and gas, Raman Energy Development Holding established 'Raman Energy Consortium'. The consortium consists of reputable Russian companies, institutes and universities in the field of oil and gas.
- An strategic partner of the holding, in the field of oil and gas, is Inter Naft Gas Prom Pars (INGP) company i.e. the exclusive representative of the Russian members of Raman Energy Consortium in Iran.

# Strategic partners

## Inter Naft Gas Prom Pars (INGP) company



- Establish in 2009
- Head office in Moscow, Teheran and Kish Island (Iran)
- Main fields of activity:
  - Integrated development of oil and gas fields
  - Onshore and offshore oil and gas pipe lines
  - Equipment and spare details supply for oil-and-gas industry
  - Implementation of technical solutions, concerning projecting, expertise, certification, building and oil-and-gas objects exploitation
  - Freight car, metallurgical, mining equipment and carnage

# Strategic partners

Inter Naft Gas Prom Pars (INGP) company



- Projects implemented
  - SALMAN-SIRRI
    - Owner: National Iranian Oil Company (NIOC)
    - EPCF project
    - Transfer produced gas from KPP Platform in SALMAN field located in Iranian waters of the Persian Gulf to the onshore facilities at SIRRI Island by 30" submarine gas transmission pipeline

# Strategic partners

Inter Naft Gas Prom Pars (INGP) company



- Projects implemented
  - MOND, KAKI and BOUSHGAN
    - Develop and integrate the three fields
    - Method of payment: Buy-Back
  - ZAGEH PROJECT
    - Heavy Oil Field Development
    - ZAGEH heavy oil field is located in the southwest of Iran along the Persian Gulf coast.

# Raman Energy Consortium



The consortium consists of the following prestigious Russian companies:

- Uralmash Oil & Gas Equipment Holding
- Drilling Systems Company
- RS-Oil Technologies Company
- Kurganhimmash
- Sintek
- Polycell SPA (NPK)

# Raman Energy Consortium



- GeoTech Monitoring
- Institute of Petroleum Refining and Petrochemistry of RB
- Ufa State Petroleum Technological University (USPTU)
- International Institute of Further Education
- Novatekh

# Raman Energy Consortium



**URALMASH NGO HOLDING**

- Uralmash Oil & Gas Equipment Holding
  - The biggest national company producing drilling rigs for development and deep exploration drilling
  - Hold more than 50% of Russian market of heavy drilling rigs
  - Totally in the period of 2010-2014, more than 90 drilling rigs were shipped to customers.

# Raman Energy Consortium

- Drilling Systems Company



- All kinds of drilling and comprehensive oilfield services in the most significant oil and gas markets in Russia
- Drilling of more than 2,000 challenging wells in Russia



# Raman Energy Consortium

- RS Oil Technologies Company

- Main fields of activities:

- Rotary Steerable System (RSS)
    - Any kind of work over
    - Enhanced oil recovery (EOR) and Improved oil recovery (IOR)
    - Cleaning up oil sludge pits
    - Reducing viscosity of heavy oil
    - Gas utilization and conversion
    - Well logging
    - Oil projects' feasibility study



**RS-OIL TECHNOLOGIES**

# Raman Energy Consortium



KURGANHIMMASH

- Kurganhimmash
  - Leading company in design and manufacturing technological equipment for
    - Oil gas production
    - Oil gas refining
    - Chemical, energy and metallurgic
    - Machine building
  - Currently manufactures over 2000 titles of production

# Raman Energy Consortium

- SINTEK-Center LLC



- Wide range of services in the field of electrical and mechanical engineering
- Installation and testing for oil and gas projects
- Different services e.g. squeeze cementing, plugging operations, water shutoff operations and sand control
- Owns many patents in these fields

# Raman Energy Consortium

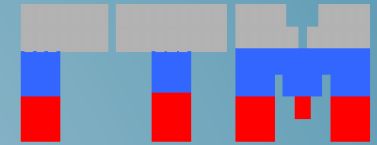
- Polycell SPA



JOINT-STOCK COMPANY  
**POLYCELL**

- Producer and supplier of chemicals for oil and gas industry
- Broad spectrum of chemicals provided to solve a large range of diverse problems in oil field drilling and development
- Prize winner of the annual competition “100 Best Russian Companies”

# Raman Energy Consortium



- GeoTech Monitoring

- More than 500 project during the period 2009-2016

GeoTechMonitoring

- Fields of activity:

- Preparation of project documents for the development of oil and gas fields
    - Construction of static and dynamic models of oil/gas fields
    - Analysis of the current state of development of oil/gas fields
    - Programming activities for the further development of oil/gas fields
    - Issuing recommendations on the application of technologies to increase oil recovery factor

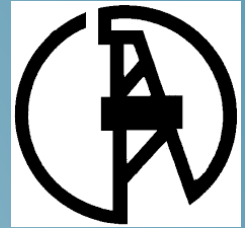
# Raman Energy Consortium

- Institute of Petroleum Refining and Petrochemistry of RB
  - Established on 1956
  - Fields of activity:
    - Complex engineering and research in developments and fields supervision, design and procurement of equipment
    - Complex schemes of petroleum and gas condensates processing
    - Pretreatment of petroleum for transporting and processing
    - Pretreatment and efficient use of casing-head petroleum gas
    - Distillation of petroleum, gas condensates and their fractions
    - Catalytic processes of motor fuel production



# Raman Energy Consortium

- Ufa State Petroleum Technological University (USPTU)
  - Established in 1941
  - One the most important petroleum university in Russia
  - Excellent reputation for quality of teaching and research
  - Broad range of programs which are designed to offer students valuable and relevant skills
  - Integrated into the international higher education system
  - Since 1996, full member of International Association of Universities
  - Training of over 80 thousand specialists with higher professional education including the representatives from 56 regions of the Russian Federation and 60 foreign states



# Raman Energy Consortium

- International Institute of Further Education



- Wide range of unique programs and additional education for specialists of regional enterprises and organizations
- Well control courses in accordance with the International Well Control Forum (IWCF) standard and International Association of Drilling Contractors (IADC)
- Teachers and experts from leading universities and enterprises of Tyumen, Moscow, St. Petersburg, and other reputable centers.
- Licenses for the right to conduct educational activity from IADC and IWCF
- Hundreds of on-site training by means of portable drilling simulators



# Projects



- Drilling of 40 wells in territory of Iran
  - Owner of the project: National Iranian Oil Company
  - Contractor: Raman Drilling Company on behalf of Raman Energy Development Holding
  - Cooperator: Raman Energy Consortium

# Projects



- Supplying 12 Uralmash 2000 hp land drilling rigs
  - Purchase contract between Raman Energy Development Holding and Uralmash Oil & Gas Equipment Holding
  - Contract: More than 200 Million Euros
  - About 30% of the rigs is manufactured in Iran by Raman Industry Company

# Projects



- Construction of Scrap Tires' Recycling Plant
  - Capacity: 24 tons scrap tire per day
  - Contractor: Raman Industry Company on behalf of Raman Energy Development Holding
  - Financially supported by a Russian bank
  - Modern technology by Pyrolysis of the scrap tires

# Projects



- Construction of Wind Farm
  - Installed capacity: 50 MWp
  - Contractor: Raman Wind Energy Company on behalf of Raman Energy Development Holding
  - Preliminary engineering and economic analysis of the project have been implemented.
  - Business plan is ready for potential investors

# Projects



- Construction of Photovoltaic Power Plant
  - Installed capacity: 30 MWp
  - Contractor: Raman Solar Energy Company on behalf of Raman Energy Development Holding
  - Engineering and economic analysis of the project have been implemented.
  - Business plan is ready for potential investors

# Projects



- Construction of Combined Heat and Power (CHP) Plant
  - Installed capacity: 6 MWp
  - Contractor: Raman Industry Company on behalf of Raman Energy Development Holding
  - Engineering and economic analysis of the project have been implemented.
  - Business plan is ready for potential investors



# Conclusion

- Raman Energy Development Holding (and related subsidiaries) are involved in different projects in the fields of energy and industry in Iran.
- Human Resources: Expert engineers and experienced managers
- Strategic partnership with prestigious Russian companies
- Ready to collaborate with international companies and associations

# Raman Energy Development Holding



Thanks for your kind  
attention

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