



Bio Energy.
Consulting in Energy Solutions.

- Solutions To Energy and Environmental Pollution Problems Through Important Strategic Projects Around the World

Consulting in Energy Solutions.

▪ **Brief About the Founder of Bio Energy.**

- Expert Specialized in The Field of Oil and Natural Gas Since 1988.
- Since This Date, we have Completed Many Projects Related to Central Gas, Which Included the Three Sectors, Industrial, Commercial, And Residential in Several Regional Countries in The Middle East and The Gulf
- From 2013 To 2021, Several Companies Working in The Same Activity (Energy) Were Established, Through Which Several Important Additional Projects Were Completed.
- In 2018, Bioenergy Was Established and Launched In New Jersey, USA, As It Is the First Company Specialized in Consulting Energy Solutions and Environmental Pollution Treatment to Grant This Activity in The United States of America;
- Was One of Its Most Important Goals to Enter the World of Renewable Energy Differently from Others
- Based On Our Experience in The Energy World
- We Have Adopted a Sophisticated Work System That Will Have a Distinct and Different Performance from Others, Which Is the Integration of Traditional Energy with Renewable Energy, Through Which It Will Replace and Change Fossil Fuels and Reducing Global Warming While Developing the Environment Around the World.



- **Bio Energy.**
- **A Consulting Company Specializing in Energy Solutions**
- **And Environmental Pollution Treatment.**
- Implementation of central natural gas projects
 - Recovering Thermal Energy and Converting Carbon into Energy.
 - Converting Solid Waste into Electricity, Methane,
 - Production Of Thermal and Electrical Energy from Hydrogen Gas
 - Disposal Of Medical Waste



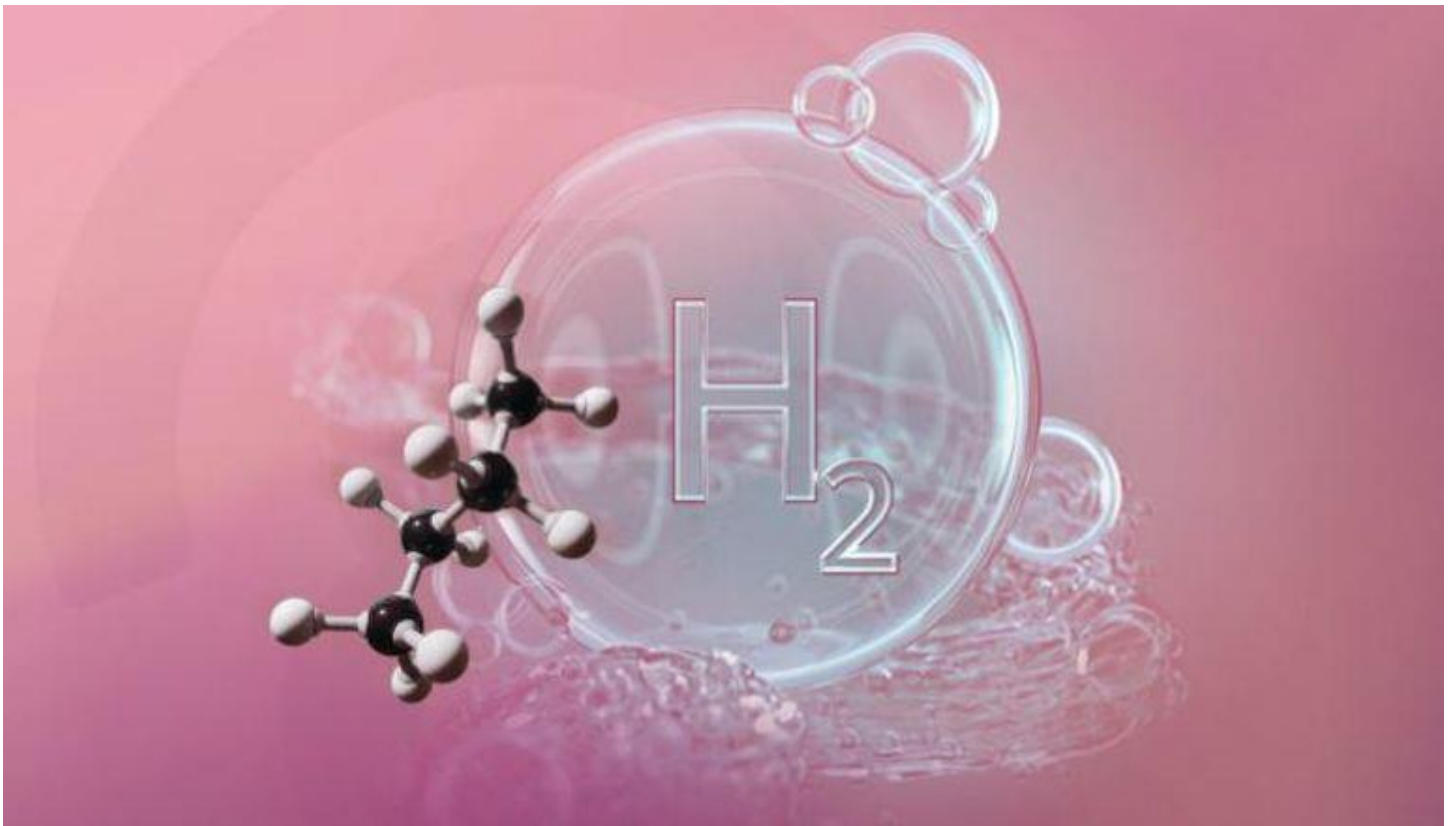


▪ **Our Action Plan for 2040 Contribute to The Growth of The Global Economy and A World Free of Fossil Fuels and Environmental Pollution**

- Since The Nineties of The Last Century, We Have Had a Future Vision and A Goal, And Over This Long Period, Experiments Applied in The Commercial and Industrial sectors in This Field Specifically, Which to Generate High Temperatures Through Special Burners.
- These Successful Experiences Led to Our Acquisition of Great Experience in The Field of Energy, Which Made Us Distinguished from Others in The Field of Clean and Environmentally Friendly Energy, And at The Same Time Economical Consumption Rates to A Large Extent.

Only And Exclusively in The World, Bio Energy Has Special Burners That Generate Thermal Energy Exceeding 1000 Degrees Celsius, Working with Hydrogen Gas

These Burners Supply Factories with Thermal Energy and Produce Electrical Energy Through Steam Turbines, In Addition to Burning Solid Waste and Converting It into Electrical Energy.



- **With Advanced Technologies Exclusively Through Bio Energy**

COMING
SOON!

- **Recycle Carbon from Fossil Fuels into Clean Energy**
Converting Water Mixed with Petroleum Oils and Sewage Water into Organic Materials

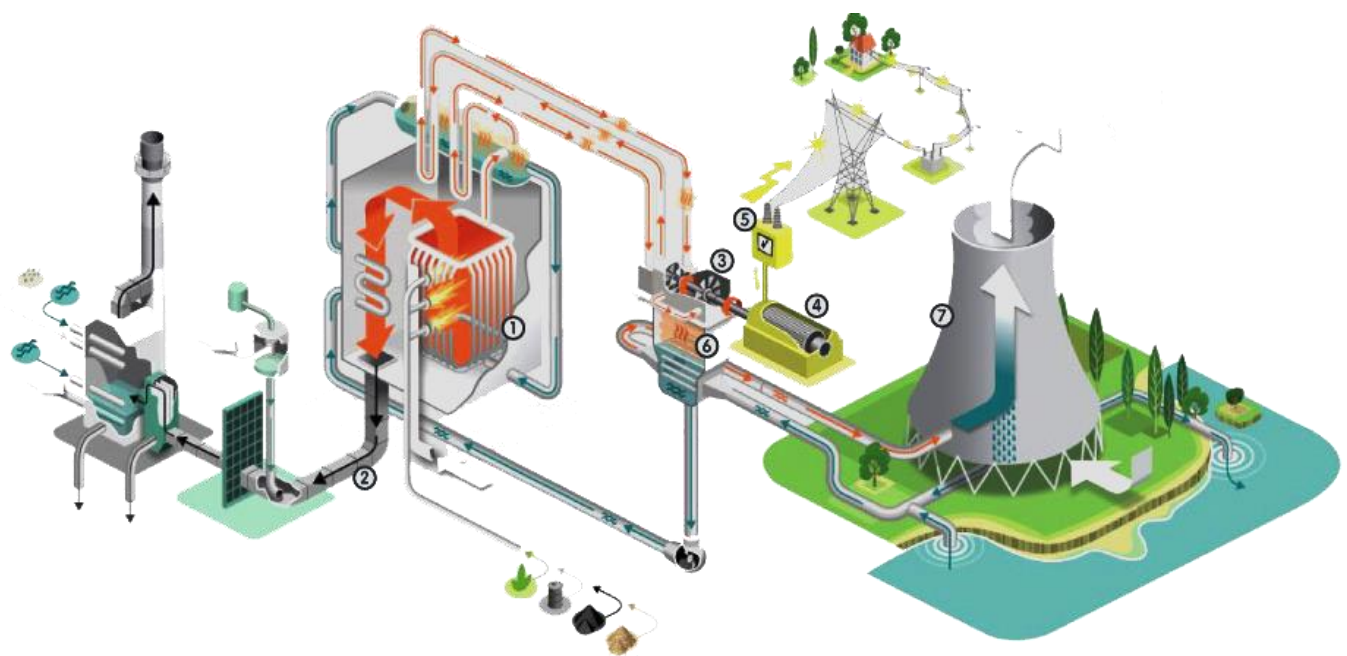


■ Converting Solid Waste into Energy

- Bio Energy's studies in the field of converting waste into energy have developed in an unprecedented way globally. This progress is embodied in the Republic of Iraq in particular, through studies of the projects of Babel (1) and Anbar (2); and Baghdad (3), where this thorny file was dealt with very professionally, through the decomposition of organic matter, the combustion of solid materials, and the production of thermal energy within very tight operating circuits, while exploiting the wasted thermal energy rising in chimneys into electricity;

Therefore, The Results Were Very Impressive, The Most Important of Which Is.

- Increasing the production capacity of electrical energy
- Disposal of solid waste at rates exceeding 92%.
- The thermal energy surrounding the land of the project is all reduced and converted into electricity, and therefore these projects contribute directly to reducing global warming.
- The aforementioned projects have been approved by the University of Babylon and the Ministry of Environment, where these projects have been classified as environmental determinants (a) an environmentally friendly project
- The total production capacity of the three projects amounts to **882 MW-hours** only from agricultural waste and organic materials. And solid materials (exclusively) without the need for any type of fossil



- **Heat Recovery Technology and Carbon Reduction from Chimneys.**
- The Bio-Energy Consultant Adopts the Technology of Extracting Thermal Energy and Carbon and Converting Them into Electrical Energy That Is Added to The Operating System For Solid Waste Incineration; Where This Technology Is Being Implemented Through International Companies with Great Experience in This Field Exceeding 20 Years



■ **Bio Energy's Energy Project Studies Are Spread Across the Gulf, The Middle East, And Africa**

■ **Gulf**

- Emirates / Abu Dhabi - Al Ain - Dubai - Sharjah - Ras Al Khaimah
- Saudi Arabia / Municipality of Jeddah
- Bahrain
- Kuwait
- Qatar
- Sultanate of Oman



■ **The Middle East**

- Egypt - Iraq - Tunisia - Syria – Yemen.

■ **Africa**

Somalia - Ivory Coast - Djibouti - Ethiopia - Senegal - Congo - Ghana - Mali

■ **Business And Companies of The Founder of Bio Energy**

- Founder & CEO Of (Gas House) For Central Gas Business) (Dubai in 2013)
- Founder & COO Of (Dynamic Gas) For Central Gas Business) (Dubai in 2017)
- Founder & CEO Of (X-Tech) Energy Solutions) , (Michigan, USA In 2018)
- Founder & CEO Of) Bioenergy Solutions Consulting) , (New Jersey, USA In 2018)
- Founder & CEO Of) Al-Nahda Group for Investment) , (Dubai in 2020)
- Founder & CEO Of) The Legend Renewable Energy Limited) (Iraq in 2021)



■ **The Natural Gas**

- **Central Natural Gas Delivery Projects Are Among the Most Important Strategic Projects Around the World, Which in Turn Contribute to Building an Industrial Renaissance and Working on Developing the Infrastructure.**



- **And Through the Founder, Who Has an Active Role in The Implementation of This Type of Successful Projects in The Middle East, Including the United Arab Emirates, Announced In 1998 The Start of Implementing This Project, Which Works with The Highest Standards of Quality and Safety Until This Time.**
- **Which In Turn Contributed to The Production of More Than 3000 Megawatts of Electricity, In Addition to Operating More Than 700.000 Housing Units and Operating More Than 120.000 Industrial and Commercial Units.**
- **Due To the Low Density of Natural Gas and Its High Calorific Value, Compared to Liquefied Gas.**
- **Therefore, The Central Natural Gas Operating System Is of High Safety When Flowing and Operating**

■ **Summary Of the Central Natural Gas Project in The Emirate of Sharjah, Which Has Been Implemented and Operated For 16 Years.**

- Project Value 500 million Dirhams
- Connecting Up To 750,000 Residential Units with Central Natural Gas, Including the Industrial, Commercial, And Domestic Sectors,
- And Connecting 350 Cars Running on Natural Gas
- Convert 3000 MW Of Electricity to Central Natural Gas as An Alternative to Diesel Fuel
- Year Of Establishment of The Project 1998
- The Project Is Running Efficiently So Far



- **More Than 460 Projects Related to Energy Have Been Implemented Through Several Companies Carried Out by The Founder and CEO Of Bio Energy**

- Founding In Dubai Date 2013
- The Activity. Central Gas Installation
- Number Of Projects Implemented 364 Projects.

- **Gas House Technology**





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مقاولات تركيب شبكات الغاز ش.ذ.م.م.

DYNAMIC GAS

FOR GAS NETWORK INSTALLATION CONTRACTING L.L.C.

Powering the future thru Gas

■ Dynamic Gas

- Founding In Dubai Date 2017
- Central Gas Installation Activity
- Number Of Projects Implemented 105 Projects.





- Al Nahda Group Was Established in The Emirate of Dubai in 2020
- Is A Holding Company Operating in The Field of Investment?
- Building And Managing Renewable and Non-Renewable Energy
- Al Nahda Group Owns a Strategic Investment Project Worth \$250 Million
- Iraq - Babylon Governorate
- Brief About the Project
- Production Of 500 Mega by Burning Solid Waste
- The Project Is an Investment for A Period Of 25 Years, And Then the Transfer to The Government



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