

PEAC

An innovation leader
in the alternative
energy industry



About Us

Where technology meets precision



Our Team

Our team consists of the founder and specialist and scientists all over the world with whom PEAC has made agreements based on common vision and interrests.

Our Vision

PEAC's vision is to provide products and solutions relevant to green energy aligned with the Visions and directives of the customer expectations, to make the world a better the environment.



Our Approach

Customer satisfaction first

It is our goal to satisfy the customer in applying proper engineering standards, local laws and customs, achieving the outcome on budget and on time while by keeping an eye on the impact on the environment.

Quality over all

The principle of our work follows the old German work philosophy:
Build to last.

Innovation is the word

We are experts in innovation. This may be due to the need to save costs, save the environment, or to reduce foot print



Our Services

Project development of major energy facilities and their auxiliary plants from conception to operation.



Energy Production

Renewable energy power plants.
The development of solar energy based electrical power generation facilities.

Green hydrogen production facilities.
Using renewable energy to generate green hydrogen from water



Energy Storage

Energy Storage systems for utilities.
With the advent of renewable energy system, many of which are based on conditions, i.e. availability of sunlight, wind, or waves, the requirement to store electrical energy for later availability has become part of every national grid. Temporary or permanent storage of hydrogen, at generation plant or consumer side.



Energy Transport

Hydrogen transmission and transportation systems. Pipelines or tube tankers to transport hydrogen to nearby consumers.



Energy conversion

Convert electricity into different voltages.
Hydrogen compression / liquefying systems.
To transport hydrogen over long distances.



Migration

Migration of existing gas turbines in power plants to utilize up to 30% of their fuel from hydrogen. This includes the supply of the hydrogen storage and/or production facility. Migration and modernization of old installations by upgrading hardware and software into modern systems. This increases efficiency and transforms old Facilities and Complexes to be suitable to the modern age.



Operation & Maintenance

After Sales Service Contracts that include inspection of sites, testing of the electrical installations, load studies, and energy audits. PEAC can take over preventive and corrective maintenance of a facility or Complex, that includes the spare parts management. Developing and optimizing management, operations, and maintenance systems for Facilities and Corporations.

Our Projects

History of some Projects and Services executed



Turnkey Projects

Supply, installation, and commissioning of Electro-Mechanical Supply, Saudi Cement in Hofuf. Turnkey execution of power plants and substations for Utilities. Constructed power plants for the private sector, example: Jamjoum Center power plant in Jeddah. HV substations for Saudi Electric Company.

Installation & Commissioning

Savola in Jeddah, SWCC's supply of control system, drives, installation & commissioning of the two major pipelines control system from Jubail to Riyadh. ADWEA reengineering, supply of hardware, and re-commissioning of the Fujairah – Abu Dhabi water transmission pipeline.



Service & Maintenance

Five year contract from GCCIA authority for frequency conversion and power substations. These substations connect the GCC countries grids together.

Who are we

History and our joint ventures

History

PEAC is the product of Usama Alamoudi.

Having had electrical engineering education and having worked for over 30 years with major engineering and product manufacturing firms as: Siemens (Germany), ABB (Switzerland), Cummins (USA), and ALSTOM GRID (France), Usama specializes in developing projects based on the needs of the customer, utilizing the most modern technologies within design and products, assuring proper installation, and conducting quality testing and commissioning of every part of the facility's components and systems. All this is done in coordination with the suppliers from the design, to manufacturing, to on site testing, to proper transport to site, to professional installation, and to quality testing, commissioning, and handing over to the operators.

Products and materials are chosen on criteria of efficiency and cost by assuring each is easily maintained and each has a long mean time between failures.

PEAC's work includes the project management that starts with the development of a detail design and specification. This is the first step in turning the customer's expectations to a reality (resulting in the First Creation).

PEAC then specializes in the communication with different suppliers until the best product and solutions for the best price are identified (Tendering). PEAC supervises the manufacturing process of the various components and plants of the facility at world leading industries, to assuring that every component and plant is quality tested and to assure that each interfaces properly with the next so that they all together compliment a fully functional facility. This is followed by proper packaging and transport to the site.

PEAC manages on site erection and commissioning of the facility while in coordination with the suppliers to place the facility onto operation (resulting in the Second Creation).

PEAC develops the facility's operations methods and procedures while defining the competence of the personnel to execute such after commissioning of the facility by utilizing proper quality management systems, after sales services, and proper spare parts supply management. In this PEAC achieves the ultimate goal to assure proper continuous operations of the facility and satisfaction of the owners, personel, and the end customers.



Saudi Arabia

PEAC has joint in a venture with a local company that specializes in alternative energy supply to the local market.



China

PEAC has joint in a venture with a local company that specializes in EPC's of alternative energy facilities worldwide, is a partner in Major Chinese Construction Companies and designs modern equipment for the hydrogen economy.



United Arab Emirates

PEAC has joint in a venture with a local group for a holding company to develop renewable energy projects for the local market.

Meet the Specialist

Usama, Sam as his friends call him, studied electrical engineering at Florida International University in Miami, Florida, and specialized in Computer Engineering. He later studied at London Business School, U.K. He received Germany's TUV certification in Operation & Maintenance Management. He started his career working with Siemens A.G. for a project in Makkah, Saudi Arabia in the late 80s, where the customer's technical specification exceeded the technology of available products at that time and required innovation and the design and manufacturing of new hardware and also a lot of futuristic thinking. The result was a 25-thousand-point Management System, that controlled every aspect of the Complex and was upon it's commissioning the biggest decentralized control system ever commission worldwide. Using two main-frame computers and hundreds of decentralized controllers all working independently yet together, Sam created a specialized system for the customer that would only after decades become a standard in automation.

Excellent partnerships make success

Smart Solutions for Complex Problems

Relationships based on trust, sincerity and proper communication

Over thirty years of working with multinational suppliers, engineering firms, contractors, and consultants has built an extensive network. Throughout the years this list has grown, and some of these have become like business partners. While these partnerships are not financial, they are joint investments in our end-customer's satisfaction. Sincere work and transparency yields success. Today we are proud to have many excellent partners because we share the same goals and use similar methods to achieve success as a team.



Some of our partners are:



PowerChina Guizhou Engineering Co.,Ltd

Through our partnership venture in China and our office located at Haidian District, Beijing a framework agreement now exists with one of the largest and most competent Electrical Contracting Companies: Power China. PEAC therefore has the EPC partner from China for the GCC Country's projects to engineer, propose, tender, and execute turnkey Green Electrical and Hydrogen generation plants based on 100% renewable energy.



Grupo Sener

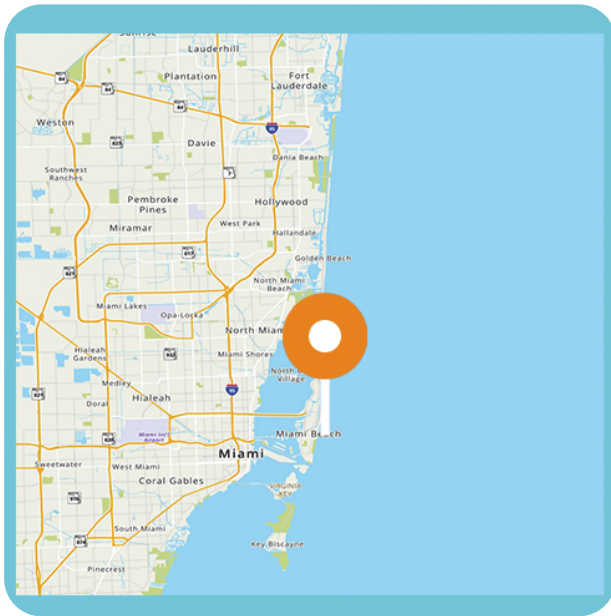
In 2020 PEAC started a technical discussion with Sener in Bilbao, Spain on using their state of the art CSP technology with a dual cycle thermochemical process of PEAC's design to create a more efficient Hydrogen Production facility. The idea was to integrate Sener's CSP technology to drive the chemical plant directly, vs generating electricity to heat the chemical plant's furnace. After assuring that this method not only saves a lot of energy lost in unnecessary conversion, but also reduces the assets required on site, a feasible concept now exists for such facilities. Sener is now PEAC's global partner for both CSP solar green energy to electricity or green solar energy to hydrogen production.

Contact us

Where we can be found

Reach out to us with your most ambitious goals in renewable energy, and you shall find PEAC and its sister companies the right partner in your venture.

First contact is the address in the USA mentioned below.



Address:



300 92nd Street
Surfside
Florida 33154
USA



peac@amoudi.us



+1 305 967 6643



zoom: peac@amoudi.us



<https://www.linkedin.com/company/peac-llc>



<http://peac.amoudi.us>