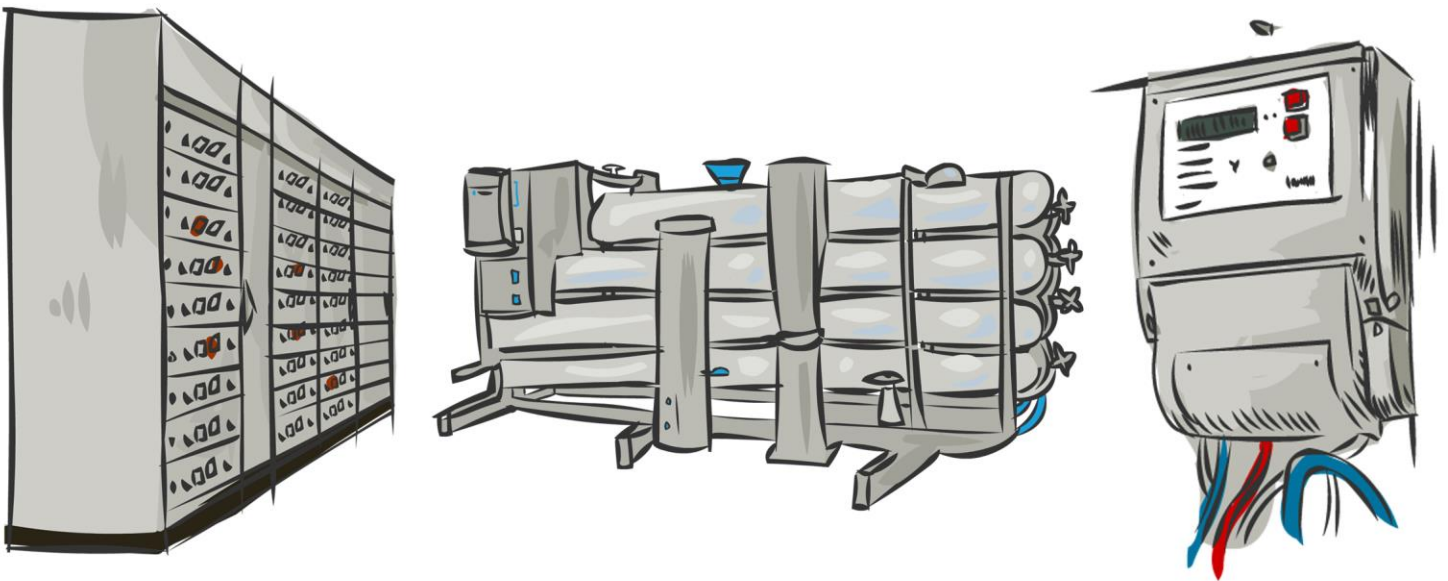


**Research
Development
Innovation**
Solutions



Avangreen R&D+i centre

Desing and manufacturing of reliable and quality solutions
for the businesses of energy production, transportation and commercialization,
renewable energy, water management and Industrial Processes.





Avangreen is a multinational company, private and independent that supports public and private institutions in the development and implementation of their sustainability strategies, energy efficiency and clean development.

Avangreen is the partner able to maximize operational and financial performance of infrastructure and energy projects, from a perspective of global service, integrating design, development, construction, operation and maintenance.

Avangreen develops projects in Europe, Africa, Middle East and Americas.



Transportation, distribution and commercialization of energy

Solutions and products for an efficient energy management with focus on minimum Capex and maximum efficiency for Transportation, Distribution and Commercialization of energy

Transportation and Distribution

Manufacturing and assembly of T&D modular solutions (concrete or metal) including cells, switchgears, transformers and switchboards required.



Plug and play solutions for electrical distribution in Mid Voltage.

- Switching and distribution centers.
- Compact switching and distribution centers with gas isolation cells.
- Transformation centers with low voltage distribution boards.
- Customized transformation centers and distribution networks for industrial / commercial facilities.

Smart Grids

Energy metering and commercialization solutions that match required standards in major markets along with customizable solutions to satisfy specific customer needs.

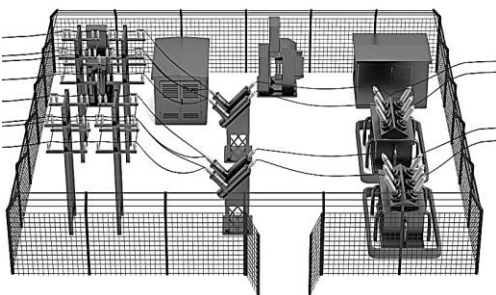


- **Smart Grids Meters:** Complete kits that integrate cutting edge information technologies, communications and electronics to enable smart grids.
- **Prepayment Smartgrid Meters:** Complete kits that combine the functionality of a Smart Meter with prepayment technology.
- **Prepayment Meters:** Designed for remote areas with no access to communications, rural electrification, etc.... Prepayment metering solutions enable an effective energy commercialization.

Substations

Design and construction of compact electric substations with greater control and remote management capabilities.

AvanGreen designs GIS-type electric substations that fit the specific needs of each customer with a minimum capex and maximum power management capacity.



+ Renewable Energy Solutions

Based upon the experience in the construction of multiple renewable energy plants, Avangreen engineers and manufactures solutions to optimize the use of resources in the construction of the power plant, as well as its subsequent operation and maintenance

Medium Voltage Solutions

Design and assembly of prefabricated MV modules including Inverters, protection cells, transformers and switchboards as well as the automation equipment required for integration in the solar plant.

Grounding protection systems to meet the technical requirements of each project but also to maximize the plant performance, availability and reliability.



Electric Cabinets

Avangreen designs and manufactures electric cabinets (level 1, level 2, PCA and metering equipment for renewable energy plants).

Maximum quality and minimum cost based on the experience of multiple turn key installations of renewable energy plants.



Renewable energy Kits

Avangreen manufactures renewable energy kits that satisfy specific electrification solutions by maximizing renewable energy resources available on site (solar, wind, biomass, etc ...)

Cost effective solutions for:

- Rural or remote electrification.
- Infrastructures (roads, water treatment, etc.).
- Lighting equipment.
- Pumping solutions
- Cathodic Protection, etc...



+ Water Management Solutions

Design, production, installation and commissioning of water management solutions from a perspective of maximum efficiency and minimum Cost

COST EFFECTIVE

Avangreen water management solutions represent a significant economic saving from two points of view:



Minimum Investment Cost compared to traditional systems.



Minimum Operating Cost: Maintenance and Operation costs reduced to a fraction of the standard costs.

EFFICIENCY

Avangreen Modular solutions do not require previous energy infrastructures on site.

SUSTAINABILITY

Minimum energy consumption and maximum autonomy due to the integration of renewable energy.

Water Desalination and Purification

Modular Equipment for desalination and water purification.

Avangreen manufactures and delivers water desalination and purification technologies on a turn key basis at a fraction of the average costs of standard solutions.

Wastewater Management

Avangreen supports industrial customers and municipalities in the process of dealing with wastewater with innovative solutions. Our services and technologies contribute to customized, efficient and cost-effective solutions covering the complete wastewater treatment cycle.

Avangreen also helps municipal and industrial clients to generate reusable water and produce fertilizer, nutrients and energy for heat and electrical power.

Management, Monitoring and Control Aqua-Power Monitor ©.

Control and automation products and solutions specifically created for the water management industry.

The Aqua-Power Monitor © system provides with full control of energy consumption in every water management plant, enabling energy saving strategies.





Industrial Solutions

Products and services ranging from the initial engineering to the planning and execution of electrical and automation projects required in the industrial and manufacturing businesses.

“One stop shop” concept for electrical requirements in the industrial environment, from generation and distribution to the energy consumption point.



Medium and High Voltage Solutions

Design and assembly of prefabricated solutions including High Voltage GIS Substations, Distribution Centers, Customized Transformation Centers, Distribution Cells and protection/measurement with insulation in air or gas (compact).

Protection, Control and Automation Systems in Medium and High Voltage.

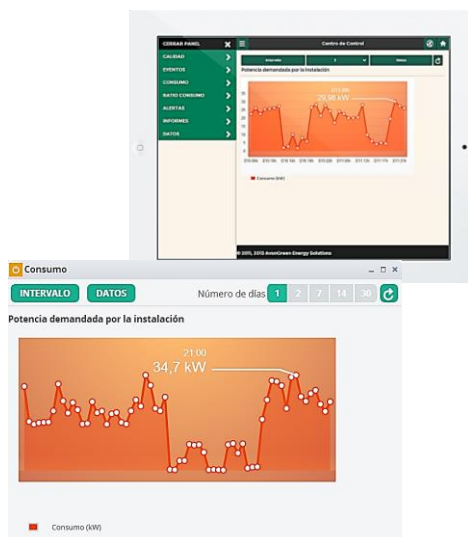
Concrete or metal made modules.



Low Voltage Solutions

Design and manufacture of low voltage electric cabinets that meet the unique requirements of each project.

Engineering and installation of electrical networks for industrial and commercial facilities. Design, manufacture and installation of customized solutions for low voltage electrical distribution systems that integrate protection and automation systems.

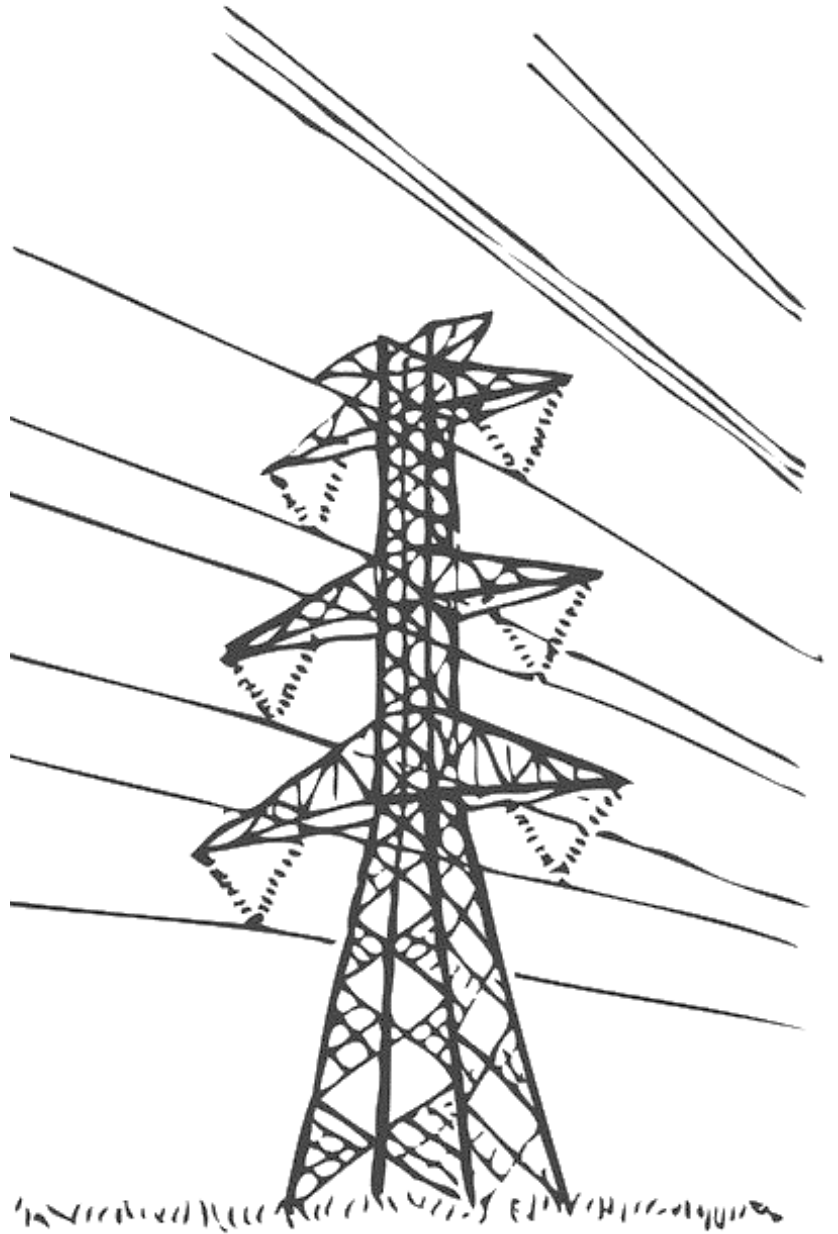


Monitoring and Control Systems

Based on the experience in operation and maintenance of industrial plants, Avangreen develops solutions for energy control of industrial plants as a base for the implementation of energy efficiency strategies.

Avangreen preset control and management solutions allow an inexpensive way to control key aspects of the operations through dashboards, key performance indicators, reports, etc.

Avangreen R&D+i Center



@AvanGreen
www.avangreen.com



avangreen