



The engineering service arm of Arts in Science (Machineries of Joy) operates from our state of the art workshop in Port Harcourt and Lagos, it designs and builds;

- Solar Power systems
- Air Monitoring Systems
- Effluent treatment units (Waste & Storm water, Saver pit effluent Discharge)
- Process Monitoring (for compliance and records)

### **ALTERNATIVE POWER SYSTEM (APS)**

APS is an alternative energy solution based on harnessing energy from the sun and wind which in Nigeria we have in abundance. Alternative energy is an affordable and sensible financial investment. It guarantees you a reliable source of regular and cheap electricity.

AiS designs and builds solar power and wind power systems using advanced technology, to power conventional residential and communal equipments/infrastructures. We have provided back-up solutions for various applications ranging from Hospitals, Commercial, Small Businesses, Residential, and Telecommunication Centres.

Our power systems can produce continuous power for durations greater than 48-hours. Custom designs are developed to generate the power to meet the specifications of our clients.

Our systems find application in:

- Residential houses.
- Office complexes.
- Hospitals and laboratories.
- Research facilities' power critical operations
- Street and Area lighting.

### **System Description**

Solar Panels and Wind Turbines provide the energy source (utility and generators inputs are present also)

Controllers and inverters manage the power and convert into a usable form

Batteries store the power for when it is needed

The system is connected to existing wiring if present or we can handle the wiring for new locations.

# **ARTS** IN **SCIENCE**

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The best and cheapest time to get an alternative energy solution is during your initial project phase, retrofitting to your existing homes, offices and industrial premises is not an issue though.

## **Typical Solutions**

### **Home use**

For powering basic and essential equipment at homes- fridges, fans, lighting points, Television and receivers, DVD players

### **Office Use-**

Providing basic power and acting as a UPS for your computers and essential loads

### **Industrial Use –**

Acting as online standby power for your critical control equipment

### **Specialty Use-**

-Powering AC, deep freezers and ancillary equipment

### **Street and Area Lighting –**

Providing street lighting and area lighting for homes, offices and industrial premises

### **Farms**

Fish farm pumps, poultry and other livestock lighting and water supply, area lighting

We also provide purely design and equipment supply services

## **What we sell**

Inverters 500VA to 18KVA

Charge Controllers 5A – 80A

Solar Panels 10W – 220W

Wind Turbines 240W – 2000W

Batteries 50AH – 210AH

DC circuit breakers, fuses, balance of system components

DC Pumps

DC Lights

DC Fridges

## **How we work**

To execute a project, we follow the following basic steps

- Discuss project feasibility do agree on objectives and deliverables
- Carry out site(s) visits
- Do an initial design
- Generate a bill of quantity and cost the project
- Send in costing for approval and agree on payment terms
- Carry out final design, procure outsource equipment
- Mobilise to site
- Install and test
- Demob

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