



ASD  
Renewables

## Company Profile



# Who Are We?

ASD emerged as a global energy solution and distribution provider, tapping into the opportunity presented in Nigeria energy and power shortage to deliver sustainable energy, storage and consumption, including energy digitalization to power industrial, residential, farm and remote areas of the country.

ASD as a renewable energy service provider, our capacity and interest grows with innovative technologies that address the challenges of energy gap which also increases our sense of purpose for green and clean energy. We are always open to new kinds of collaborations that is future proof and able to match the pace of development in clean energy. We aggregate different renewable technologies such as Hydropower, Wind Energy, Solar Energy and Biomass using abundant natural resources within our geographical space as a form of energy mix to create electricity on a commercial scale so as to reduce Nigeria energy gap amid increasing energy growth and demand.

ASD Renewables undertakes and execute geospatial projects for clients of any size. We have consistently delivered advanced geospatial information solutions for complex and demanding operations with High Resolution Optical Satellite Imagery, Satellite Borne, Airborne Radar for IFSAR and LIDAR data.

Our digital surface models, topography and imagery data products can be used in Oil and Gas, Land and Maritime Surveillance, National Mapping, Aeronautical Information and Precision Farming markets use.



## Our Vision

To become Africa's foremost producer of renewable energy by designing, delivering and creating an intelligent, reliable, affordable and sustainable renewable energy ecosystem for human kind.

## Our Mission

To open energy access and allow everyone take advantage of limitless benefit from renewable energy.

## Value Proposition

Efficient distribution and zero emission energy provider that sustains the globe and its habitants for future generations.

# Core Values

1

## Trust

Based on trust we build our day-to-day life, relationship and commitment with the communities and people we work with around the planet.

2

## Responsibility

We are taking on the responsibility of bringing electricity to millions of inhabitants who still lack access to it by offering solutions that support clean energy and mitigating the challenges of climate change.

3

## Proactivity

To make our vision happen, we engage creative people from a broad range of backgrounds, who like asking questions and see challenges as opportunities.

4

## Innovation

We explore the best and most creative ideas to improving people's lives.



# Solutions

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# Solar Power Systems

At ASD we go all out collaborating with most prominent and innovative photovoltaic technologies companies to make solar energy more viable for millions of homes in Nigeria and across Africa.

We enable our customers to make their homes more efficient, smart and comfortable by creating best-in-class electrification technology and providing an ecosystem of smart home energy solutions.



# HydroPower Energy

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Around the globe, almost 1.1 billion people have no access to electricity, while 2.1 billion are without safely-managed water services. As global energy demand rises, alongside the need to combat climate change, hydropower is key to the future energy mix.

Nigeria is the largest economy in sub-Saharan Africa, but limitations in the power sector constraint growth. As at 2019 the total installed capacity is 12,522 MW, not including off-grid generation, of which 2,062 MW is hydropower. The total exploitable potential of hydropower is estimated at over 14,120 MW, amounting to more than 50,800 GWh of electricity annually.

The roughly 85 per cent of hydropower yet to be developed therefore offers solutions to address existing power shortages.

ASD Renewables harnesses the earth's most abundant resources – the heat of the sun and the force of water; delivering green solutions to power industrial, residential, farm and remote areas in Nigeria. Our purpose is to create more viable societies by developing natural resources into products and solutions in innovative and efficient ways.





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# Wind Energy Systems

We enable commercial and industrial clients to unlock significant value by connecting them in the energy transition, via an ecosystem of business-ready solutions to foster decarbonization.

Setting up wind farms is one of the means communities and industries along sea shores and desert regions can increase their renewable energy capacity and also substantially cut cost on energy.

We welcome you on this journey to zero emission and clean energy drive and lower production cost.



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# BioEnergy

In order to meet the demand for energy, bioenergy is one of the many diverse resources available to produce transportation fuels, heat and electricity, among other products.

Nigeria and Africa as a whole with humongous biomass sources such as wood and wood processing wastes; Agricultural crops and waste materials; municipal solid waste and Animal manure and human sewage that serve as major sources for bioenergy production.

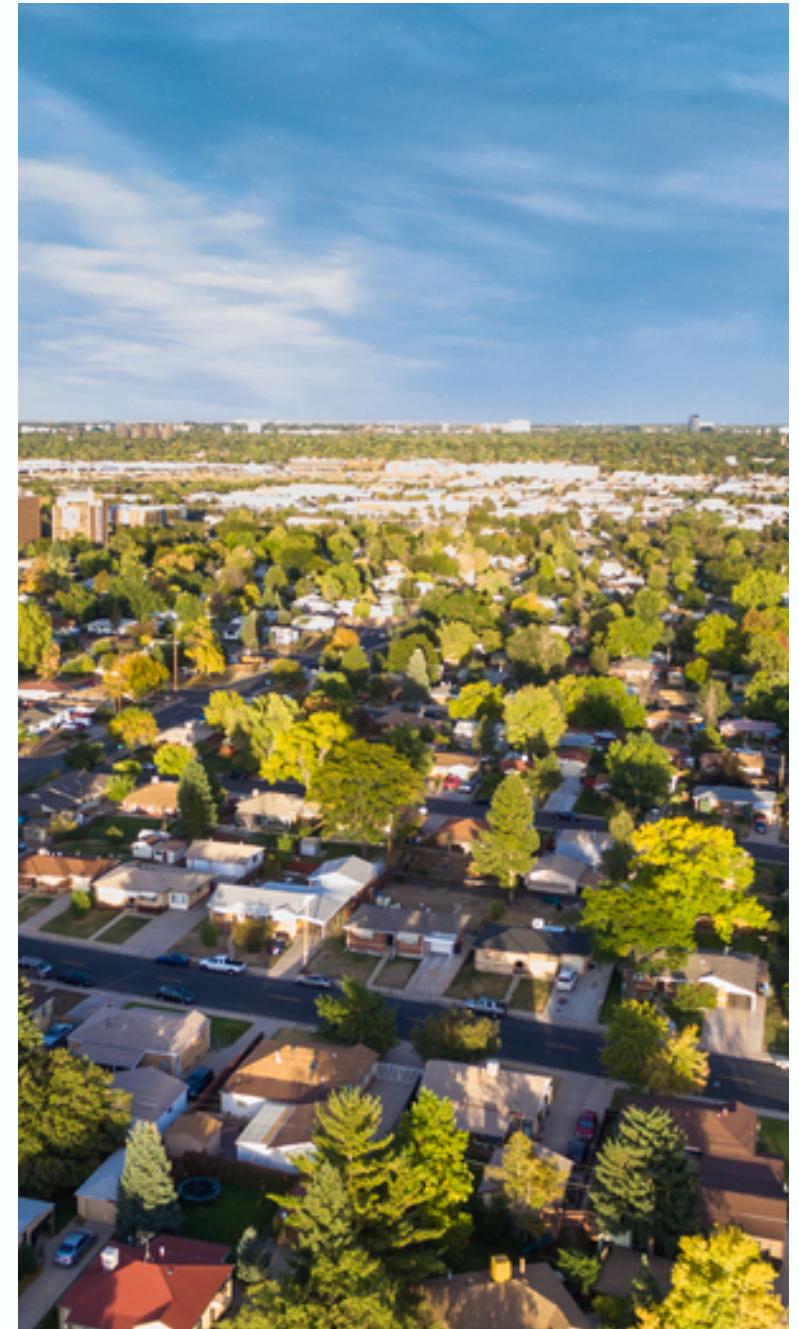
As a top renewable energy firm, ASD renewables employ and deploy most advanced technology to produce the energy for industrial or community use no matter the size or capacity required.

We offer  
solutions for

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# Residentials

ASD Solar solution is designed for homes, residential and small commercial buildings, with a hybrid solar system of multiple inverters in parallel, offering solutions for small commercial project, all ensure the most efficient use of solar energy at home, increase self-consumption and grid independence, reduce your electricity bills.



# Communities and Rural Settlements

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We offer an attractive mini-grids energy solution compared to the traditional diesel engines that are able to support larger productive use loads than stand-alone systems.

This mini-grids help improve rural livelihoods, increase economic activities, create jobs, and add value to local

products and services. It improves quality of life at the household level and also support the growth of local businesses, including community services such as schools, small health centers, and religious buildings.



# Industrial and Commercial Businesses

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Industrial estates, commercial buildings and apartment are key targets of our renewable energy solutions. Manufacturing industry accounts for about one third of global energy use. Hence, the need arises for intense energy efficiency to reduce production cost by lowering the cost of energy use. A number of options are open within renewable energy which can be applied such as Biomass for process heat; or Solar thermal systems for process heat.

We offer a combine industrial energy storage solution with renewable sources such as solar or wind allows you to maximize sustainable production and store excess green energy when it is produced. A game-changer for the industries and ultimately for the environment is having a smart and efficient commercial energy storage which translate into a strong business benefit and competitive advantage.



# Agriculture

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With biomass technology we help farmers convert agricultural waste to cost-saving fuel. By product gases from agricultural, food processing, and industrial processes are captured to create agricultural biogas that fuels generators and produce almost free electricity for your facility. This technology cut input costs and reduce the release of harmful gases.

## Farmers that use agricultural biogas are able to:

- Reduce carbon emissions through the destruction of naturally occurring methane
- Reclaim valuable land space normally used for purifying organic wastewater
- Eliminate odour and pest issues that are caused by the decomposition of organic material.
- Ultimately reduce energy cost and immune from future energy increase.



# GIS and Remote Sensing

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ASD also offers a comprehensive Remote Sensing and GIS services through Ground Survey Method, Satellite Image Processing and Analysis. We provide consulting services to assist clients in project development during design, planning, analysis, implementation and evaluation phases.

We provide accurate surveying services of high resolution and medium resolution optical satellite imagery from Maxar Technologies, airborne radar (IfSAR) data and LiDAR with integration of valuable geospatial data.



## Other Services Include:

Aerial & UAV mapping

Topographical survey and mapping in scale 1:500 – 1:10 000

As built surveys

Volume calculating to measure the amount of material to be removed from the site and added to the site (cut and fill)

Boundary Surveys

Cartographic and GIS-projects

3D - modelling

# Renewable Products

Solar Panels || Batteries || Panel combiners || Charge controller  
Surge Protector || AVR || Inverters || Solar panel mounting rail  
Solar Connectors || Battery rack





# Partners

# Locate Us

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# Social Media

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Linkedin: asdrenewables

Instagram:: ASDRenewables

