



LWi
LiveWell initiative
Promoting wellness... Preventing illness



International Energy Services Limited (IESL)

The Challenge of Petroleum and Energy development on the Ecosystem and Health in Nigeria at the LiveWell Initiative GHB 2013 Event

April 17, 2013

Energy Products And Solutions – 4 Divisions

Engineering Design
Services



Gas, Power and
Infrastructure
Services



Analytical
Laboratory and
QHSE Consultancy
Services



Project
Management
& Technical
Services



Challenges of the development of Energy and effect on Ecosystem



Oil was discovered Oloibiri, Bayelsa in the 1950's

The Oil and Gas sector has consistently contributed about 80 %of the government revenue and 90% of foreign exchange earnings for the last 20 years

With proven reserve of over 37.2 Billion barrels, Nigeria is one of the world's leading countries for Oil and Gas now and in the future.

Despite all the advantages that Oil boom has given us, it has posed significant challenges on the ecosystem and health and the lives of people around the Niger Delta region

Pollution – Gas flaring & Oil spillage

Causes of spillages : Flow-line leaks, Over pressure failures, sabotage to well heads and flow-lines, failure and leakage on loading systems due to ageing and corrosion of pipeline and failure along pump discharge manifolds

Effect of Oil spillage

Oil spills have affected the economics and health of indigenes of the Oil producing areas.

- Farming
- Fishing (60-70% of the economy of Niger Delta was from fishing)
- Access portable drinking water
- Health related problems : Cancer, respiratory diseases, etc
- Housing problems
- Accessibility to the region

*There are regulations for these but the enforcement has been poor.

Challenges of the development of Energy and effect on Ecosystem



Gas flaring

As the economics for pricing gas is presently unattractive, many companies find it more appealing to flare

- Release of carbon dioxide and other poisonous gases to the atmosphere
- Environmental impact and causes respiratory disease, affects the weather (Acid rain, global warming)
- Significant loss of income

Militancy

The rise in militancy has had several impact on the economic situation

- Loss of lives and properties
- Significant loss of income
- Resettlement of indigenes
- Unattractive investment option

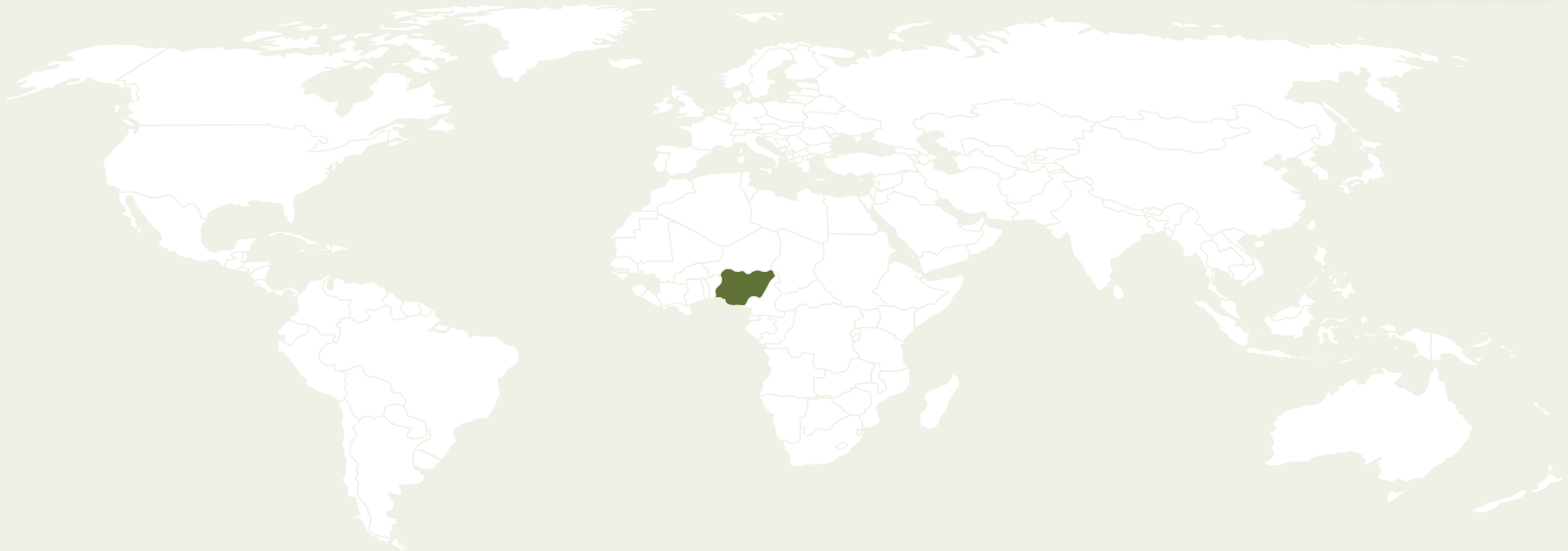


Power industry

With the frequent power outages in Nigeria, its effect has been very drastic on the people and the environment

- Loss of lives
- Income loss due to inability to industrialize and now Nigeria has become heavily import dependent
- Safety related issues

**Pollution resulting from energy source discharge cannot be totally cleaned-up, the only solution is to prevent such discharge.*



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