

**ice** THE  
INTERNATIONAL  
CENTER FOR ENERGY

Economy | Energy | Environment | Empowerment



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<b>Energy</b>	the transition on an effective energy environment is one of the defining challenges of our time
<b>Environment</b>	We encourage and seek out innovative ideas, emerging technologies and best practice for an environmentally disciplined platform
<b>Empowerment</b>	We are mediators between fresh innovative ideas and real things that touch peoples lives

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**T**he International Center for Energy (ICE) is a consultancy, capacity development, advocacy and research institute providing expert services for the creation of sustainable energy infrastructures and economically beneficial solutions in the oil and gas, electricity, renewable energy and related sectors of emerging economies of Sub-Saharan Africa. We establish influential multi stakeholder platforms which develop essential skills and internationally accepted best practise in Africa. We advocate transformative leadership principles and provide experienced and expert guidance towards the tangible achievement of efficient, commercially viable, safe and environmentally responsible energy.

ICE pioneers practical and bespoke commercial strategies for energy infrastructures in emerging markets which culminate in economic development, regional economic integration, social equity and environmental stewardship. We are committed to championing Africa's natural transition to clean energy and the increased access to energy.

## WHAT WE DO (A-C-T)

### ADVOCACY

**I**nfluencing positive change in the energy sector requires effective public policies, strong institutions and regulations, progressive leadership, and effective resource allocation within the political, economic and social contexts. At the core of our advocacy efforts is a commitment to bilateral communication and multi-stakeholder engagement. We believe in the development of strong networks and relationships across energy sectors globally by which we may identify pivotal challenges faced in Sub-Saharan Africa and explore viable opportunities for advancement.

We champion programs for improved energy literacy and the understanding of energy economics in society towards a transition to reliable energy services and renewable energy.

#### ICE Initiatives Include:

- Convention of Stakeholder Roundtables and Reporting Mechanisms
- Developing Coalitions and Constructive Engagements
- Reviews of Legislative Frameworks and Policy Guidelines
- Initiation and Coordination of Independent Compliance and Enforcement Reporting Mechanisms
- Facilitation and Development of ADR Mechanisms
- Championing Sustainable Engagement and Dialogue with Rural / Host Communities
- Initiation of Dialogue and Progressive Planning for the Transition to Alternative and Clean Energy



## CONSULTANCY

Our accomplished multidisciplinary cadre of energy experts bring several years of practical industry experience in several disciplines including Finance, Taxation, Legislation and Legal Services, Design, Construction, Procurement, Environment, Capacity Development, Local Content and Education amongst others.

We engage, investigate, analyse and advise public and private sectors energy practitioners and organizations on attaining affordable, reliable and efficient energy solutions to pressing challenges. Capitalising on the strength of our consultants and network of technical partners we provide bespoke and practical solutions towards the development and implementation of strategic frameworks, institutions and policies to improve performance and tangible advancement in today's challenging emerging markets.

ICE provides trusted technical partners and project management specialists with proven expertise and experience in implementing advanced infrastructures, software and effective human capacity necessary to attain the desired positive impacts and substantial advancements desired in the emerging markets of Sub-Saharan Africa.



### Our activities include:

Socioeconomic and Environmental analysis of oil drilling and transportation on host regions and communities

Community Equity Development Programs

Draft Legislative Framework and Regulation for Oil and Gas and Power Sector

Development of Local Content Policies and Legislation

Local Content Fiscal Mechanisms

Development of Post Graduate Energy Programs

Feasibility Study for establishment of Petroleum Refinery and Industrial Parks

Oil Operators and Oil Community Mediation Frameworks

Turn Key Projects – Construction, Procurement, Supply, Project Management





## **TRAINING AND CAPACITY DEVELOPMENT**

We develop regionally customized short courses and combine participation from successful commercial organizations within the industry to offer practical 'on-the-job' training and partnered placements wherever possible. We cater for both present and aspiring local energy professionals developing essential tools required to compete in the Energy sector on an international platform.

ICE Training and Capacity Development engage local educational institutions providing expertise and support to provoke fresh objective perspectives on new emerging practices from across energy industries globally and offer solutions for developing strategic reforms.

The imminent launch of "ICE Energy Institute" would offer accredited long and short term courses including Masters Programs in Petroleum Engineering and Oil and Gas Law. We are committed to entrenching customized international best practice and standards through the provision of quality educational programs targeted at increasing local capacity and technical skills and ultimately local participation and content.

### **Our on-going courses are:**

Oil and Gas Masterclass – Legal and Finance Modules

Anti Corruption and Governance in the Energy Sector

Commercializing Renewable Energy

Dispute Resolution in Oil and Gas Transactions

Alternative Regulation for Electric & Gas Utilities

Introduction to Petrochemical Engineering (Practical)

Introduction to Renewable Energy

Green Financing

Fundamentals of Electric Utility – Generation, Delivery, Operations and Regulation

Social Equity and Responsibility in the Energy Sector





## HOW WE OPERATE

With Headquarters in Virginia, USA and Africa Office in Nairobi, Kenya and regional partnerships across Africa and in Europe, ICE operates through four divisions: Oil and Gas; Power; Renewable Energy; and Training & Capacity Development.

### 1. Oil and Gas

We provide turn-key end to end consultancy services and technical support for oil and gas transactions across the full spectrum of production; upstream, midstream and downstream. We offer advanced technologies and expertise providing cost effective, efficient and reliable commercial solutions for transformative projects. Our experienced technical partners and project management team boast several years of practical industry experience in fields including Finance, Taxation, Legislation and Legal Services, Design, Construction, Procurement, Environment, Capacity Development, Local Content and Education. We provide the necessary support and bespoke methodology to ensure the successful implementation of projects in Sub-Saharan Africa. Engaging with influential stakeholders, we advocate and provide innovative strategies for developing oil and gas infrastructures, legislative frameworks and reforms, facilitation of financials, funding access and local content development within the industry. We are committed to providing support and skilled expertise for the establishment of effective local content policies and tangible advancements in indigenous oil and gas companies, services and products.

*Our services include the following:*

- Project Design, Construction, Procurement, Supply, Project Management
- Transaction Management
- Opportunity Identification and Strategy Development
- Environmental Scans
- Pipe Line Construction Design and Management
- Draft Legislative Framework and Regulation for Oil and Gas and Power Sector
- Feasibility Study for establishment of petroleum refinery and industrial parks
- Oil Operators and Oil Community Mediation Frameworks

### 2. Power

We provide innovative, reliable and cost efficient solutions across power generation, transmission and distribution. Our expert services by way of consultancy and advice, commissioned research, implementation of emerging technology and technical partnerships offered to public and private sector organizations as well as innovative entrepreneurs is dedicated towards achieving the increased provision of safe and reliable electricity across Sub-Saharan Africa and actively promoting tangible advancements in the commercial electricity sector.

Our accomplished team of experts, field engineers and network of proven technical partners in electricity and natural gas provide advanced technology solutions, progressive design in infrastructure and construction and bespoke transactional and project management methodologies to ensure the success of a project from conception to implementation, maintenance and long term sustainability. In the rapidly changing electricity sectors of Sub-Saharan Africa, we bring extensive experience in regulatory processes, pricing, supply and demand dynamics, financing, technology and operations. We design bespoke solutions which minimize risks whilst optimizing performance.

Regionally bespoke services include:





- Reliability, Harmonic and power Flow Analysis
- Assessment and Strategies for Developing Smart Grid Technologies
- Draft Electricity Regulation and Reform
- Business Planning, Performance Improvement and Benchmarking
- Upgrade and Rehabilitation Transmission and Distribution
- Plant Performance Evaluations
- Implementation of Computerized Maintenance Management Systems
- Transmission Line Construction and Management
- Feasibility and Environmental Study
- Equipment Specification & Procurement
- Specialized Testing Services

### **3. Renewable Energy Projects**

We advocate and promote the natural transition to environmentally responsible energy sources and increased access to energy across Sub-Saharan Africa. We provide support in facilitating access to finance, technical assistance and offer additional support in project management of renewable energy projects. Our network of technical partners offer innovative and advanced technology solutions, design, construction, procurement, implementation and technical training support. We undertake in-depth studies and develop regionally bespoke designs for the development of clean energy legislation and strategic transition to renewable energy systems.

*Our work covers the following areas:*

- Development of Renewable Energy Funds
- Renewable Energy Policies
- Strategic Transition to Clean Energy
- Geothermal, Wind, and Solar projects
- Project Management
- Implementation of Computerized Maintenance Management Systems
- Procurement

### **4. Training & Capacity Development**

A dearth in capacity in the specialised field of energy has led to exponential losses for Africa. There remains a cavernous lack of local capacity among African professionals in a wide range of essential disciplines required for the sustainability of these sectors. ICE Training & Capacity Development programs are regionally customized for aspiring energy professionals interested in effectively competing with international professionals within the energy sector.

The ICE Training & Capacity Development Faculty boast oil and gas





and power sector professionals with formidable practical industry experience and an aptitude for teaching interactive and practical professional training programs. Our programs are regionally customized and utilize a combination of interactive teaching, current industry practices and relevance and real case studies which provide the optimum professional training experience.

We design programs and courses which deliberately target ascertained areas of technical dearth across various disciplines and which aim to further local content and participation within all levels of the industry.

On-going-programs:

- Negotiating, Financing and Dispute Resolution in Oil and Gas Transactions
- Oil and Gas Masterclass – Legal
- ICE Oil and Gas Masterclass – Finance
- Power Purchasing Agreements
- Green Energy Financing
- Renewable Energy Economics
- Practical Introduction of Oil and Gas Engineering
- LNG Fundamentals
- Fundamentals of Electricity Utilities (Generation, Delivery, Operations and Regulation)
- Energy Dispute Resolution Mechanics
- Anti Corruption and Governance in the Energy Sector or emerging Markets

ICE Partners and Network

We work in concert with an accomplished cadre of progressive international research centers, government agencies and bodies, energy practitioners, technical experts, public and private sector organizations, legal practitioners, educational institutions and innovative entrepreneurs to provide a wider platform for communication, exchange and development of innovative ideas and emerging technologies. We are committed to the transfer of international best practices for clean, economically viable, socially responsible and environmentally disciplined energy platforms in Sub-Saharan Africa. It is our mission to mediate between fresh innovative ideas and the reality of impacting the day to day lives of Africans through energy development.



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