



ENERGY & ENVIRONMENT  
HOLDING

Our knowledge  
is your **energy**





Energy, Environment, Privatization & Sustainable Development Specialists

### **Energy & Environment Holding (EEH)**

Energy  
Sustainable Energy Development  
Environment  
Deregulation & Privatization of Electric Utilities  
Automation and Simulation  
EEH's Quality Assurance

who are we?  
our clients  
our expertise  
our commitment

Energy & Environment Holding  
Regional Independent Specialists  
EEH Services  
Energy  
Environment  
Deregulation & Privatization of Electric Utilities  
Sustainable Energy Development  
Automation and Simulation  
Areas of Activity  
EEH's Quality Assurance



Energy & Environment Holding | Regional Independent Specialists

# 01

#### Who are we?

EEH is an independent consultancy firm in Energy, Environment, Privatization and Sustainable Development operating in Qatar, the Near East and Europe.

#### Our clients

EEH works with government, IOC's and private industries to mitigate the cost and reduce the risks associated with projects in the areas of Strategic Planning, Policy Development, Project Management, Deregulation & Privatization, Energy Engineering, Environmental Management, Sustainable Development and Enhanced Oil & Gas Recovery Programs.

#### Our expertise

EEH's multidisciplinary specialists possess a wealth of expertise covering extensive experience and academic backgrounds, thorough knowledge of the energy industry, environmental consulting & management in the world's greatest challenge of the 21<sup>st</sup> century - climate change; along with a deep involvement in business consulting, administrative and institutional reforms.

#### Our commitment

EEH is dedicated to providing outstanding quality consulting and advisory services to its clients by helping them achieve their goals and objectives through:

- Analysis and assessment of client needs
- Strategic partnering with internationally recognized companies
- Identification and development of the client's human resources
- Providing services that are sustainable through the project lifetime.



energy  
 environment  
 sustainable energy  
 development  
 deregulation & privatization  
 of electric utilities  
 automation & simulation

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# 02

EEH Services

### Energy

- Strategic Planning
- Policy Development
- Transmission System Operations
- Project Management
- Engineering Support
- Energy Security.

### Environment

- Environmental Audit
- Environmental Management Training
- Pollution Prevention Programs
- Climate Change
- Impact Studies
- Clean Technologies.

### Sustainable Energy Development

- Project Assessment
- Human Resource Development
- Alternative & Renewable Energy
- Building Markets for Energy Efficiency.

### Deregulation & Privatization of Electric Utilities

- Regulatory & Organizational Review
- Restructuring
- Unbundling of Services
- Legal Framework Assistance.

### Automation & Simulation

- Process Engineering
- Supply & Distribution Planning
- Advanced Process Control
- Operations Planning, Scheduling & Optimization
- Production Management & Execution
- EPC Telecommunications, Security & Systems Solutions in Supporting the Oil & Gas Industry.



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strategic planning  
 policy development  
 project management  
 engineering support

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# 03

Energy



### Energy

Energy consumption is the product of innumerable decisions made by energy users. Energy use depends on geography, climate, costs, investments and taxes, as well as other economic factors such as price, technologies, government regulation and energy use efficiencies.

Economic prosperity strictly depends on per capita energy consumption. The continued global growth rate of 2.5% per year in developing countries means a doubling of consumption by the year 2025 compared to the 1990's. Capital investments in the region's energy sector of over US\$ 30 trillion will be needed from 2000 till 2025 to support current levels of growth. Inadequate investments or unaffordable energy prices constitute an important constraint to socio-economic development. EEH facilitates business entry by providing the following services:

### Strategic Planning

- Business Planning
- Financial Evaluation
- Integrated Resource Planning
- Sectoral Analysis
- Asset Valuation
- Investment Promotion
- Energy Management & Conservation
- Diversification of Supply Feasibility and Recommendation Studies
- Risk Assessment
- Innovative Economical Modeling.

### Policy Development

- Tax Rate Design
- Revenue Projection
- Diversification of Energy Options
- Strategic Performance Enhancement.

### Project Management

EEH assists project developers and global financial institutions with feasibility studies, risk analysis and project implementation. EEH helps its customers in optimizing their project schedules, improving their project margins and securing value for their business integration transactions.

### Engineering Support

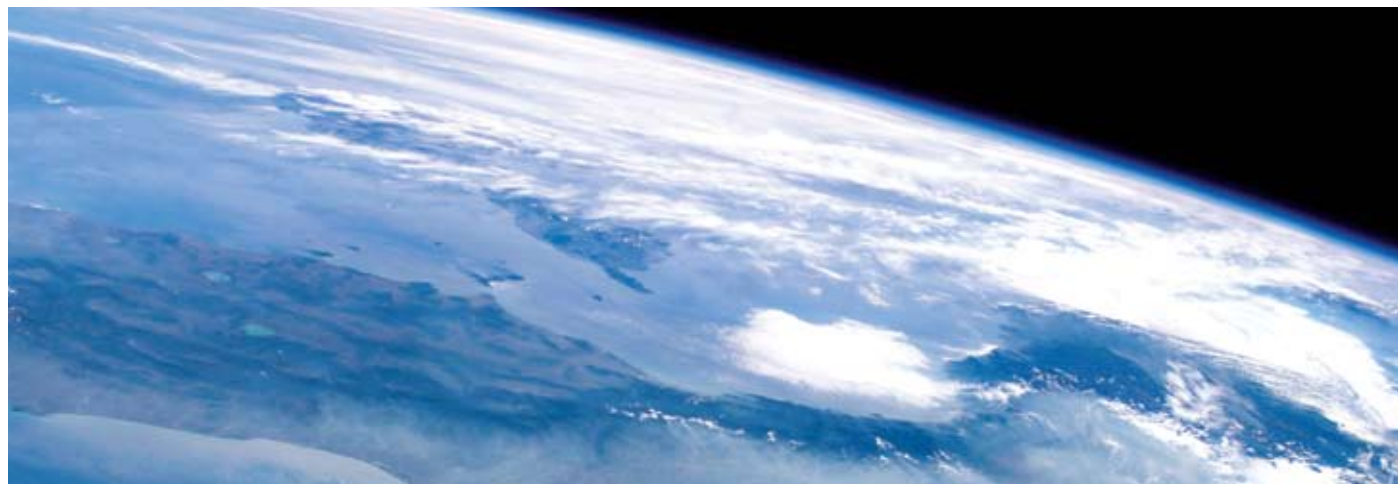
- Power System Planning
- Power System Operation
- Reliability Evaluation
- Production Costing
- Enhanced Oil & Gas recovery
- Energy Management Services (ESCO's)
- Demand-side Management
- Energy Efficiency Programs
- Technology Transfer.



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# 04

Environment



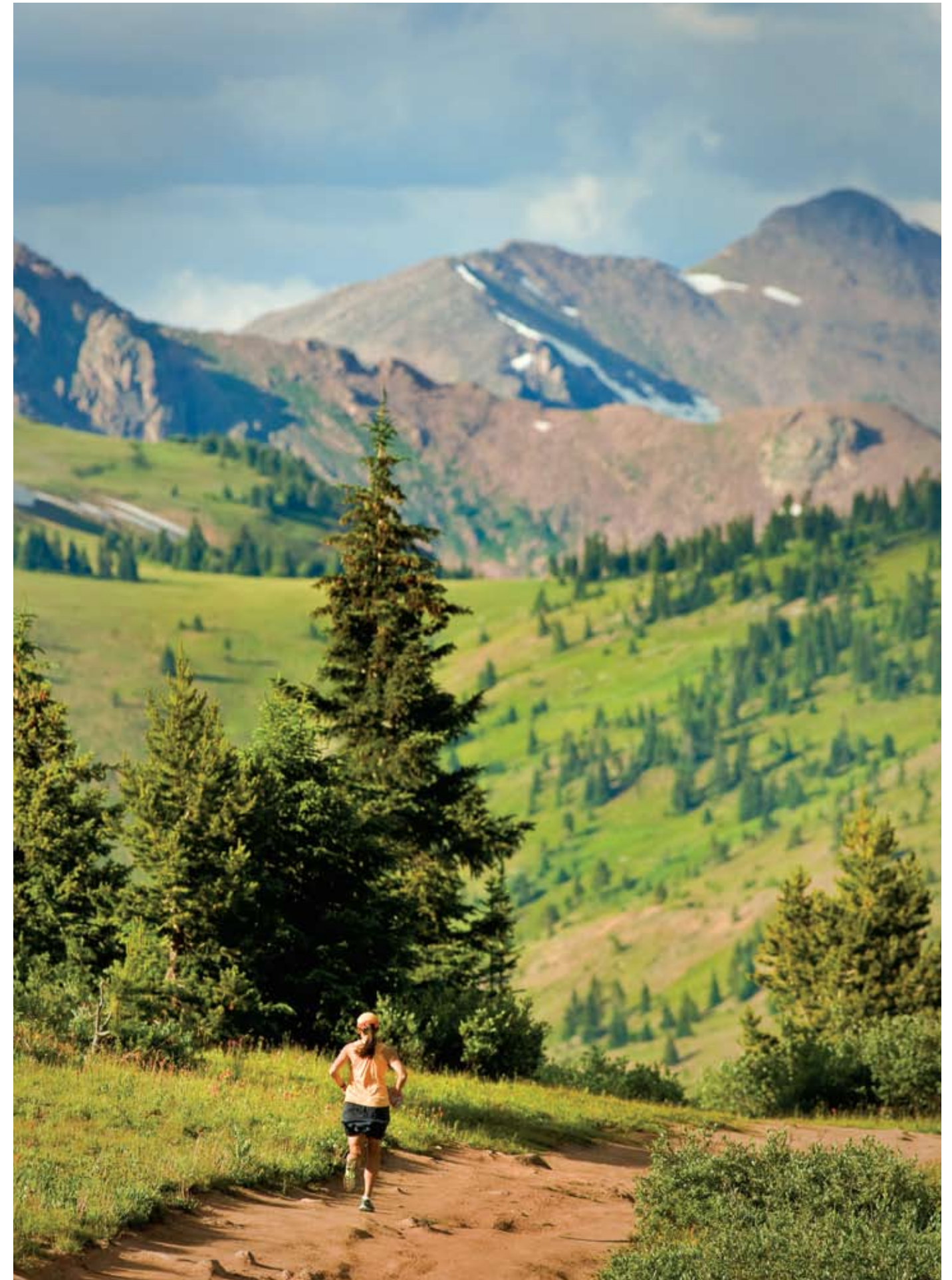
## Environment

Since the earth's resources are limited, legislators, developers and users must play a decisive role in conserving them and in protecting our environment by pulling together the many aspects of our natural environment including greenhouse gases (GHG), rising sea levels, melting glaciers, atmospheric composition, climate fluctuation, carbon levels peaks and temperature records. Therefore, it is imperative to promote 'low carbon' policies and ensure that all implemented measures be environmentally sound, economically viable and socially responsible.

EEH considers that climate change is the earth's greatest challenge in the 21<sup>st</sup> century. The environment is a global dimension in modern planning due to its direct link to life quality improvement and economic growth. Environmental protection has become an integral part of life, highlighting major concerns on the quality of life we will leave as our legacy to future generations.

EEH and its associates are dedicated to providing consultancy services in the following areas:

- Environmental Impact Assessment (EIA)
- Environmental Program Management
- Climate Change Investment
- Carbon Abatement
- Carbon Exchange
- Assistance in Legal Framework
- Environmental Audits
- Pollution Prevention Programs
- Risk Management
- Promoting Clean Technologies
- Solutions to Reduce the Effect of Climate Change
- Structuring and Guiding Green House Gases and Carbon Footprint Reduction Projects
- Regulatory Acts
- Sampling and Monitoring.







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Deregulation & Privatization of Electric Utilities

05

#### **Deregulation & Privatization of Electric Utilities**

Regulators have been increasingly active in the electricity deregulation and privatization sectors during the last two decades. Significant regulatory moves produced tangible results in fair competition, cheaper kw/h, open market principles and increased funding for necessary new projects.

Vertically integrated utilities are moving towards horizontally disaggregated business units. Such a move, coupled with rapidly changing business solutions, drives the daily activities of electric utilities throughout the world, to ensure success in today's complex and volatile business environment.

Possessing a deep understanding of regulatory frameworks, EEH provides consultancy services in the following areas:

- Development of Privatization Schemes
- Unbundling of Services
- Transmission System Operations
- Electric Power Distribution Companies
- Power Trading
- Industrial Contracts
- Retail and Open Access
- Regulatory & Organizational Review
- Advising Regulatory Bodies
- Assistance in Legal Frameworks
- Organizational Restructuring
- Information Systems Reviews
- Development of Policies & Procedures
- Expert Advice.

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Sustainable Energy Development

# 06



### Sustainable energy development

The continued growth of energy demand requires that new energy resources be developed and, most importantly, that alternative resources be looked at with the utmost vigor. This requires international collaboration to mobilize finance, research and ingenuity.

Sustainable energy development has become a strategic choice for a prosperous future and long term energy security. However, a sustainable energy future requires economic, regulatory and institutional frameworks to encourage appropriate investments as well as a level playing field; one that reflects the social and environmental externalities of various renewable energy sources taking into account market limitations. This will ensure that future patterns of energy use will change as these factors develop in favour of "Public Goods".

EEH recognizes that the prospects of renewable energy development can only be achieved through international collaboration and the constructive cooperation of private and public sector organizations supported by tangible reforms. By constructing the appropriate regulatory environment and designing a carbon price regime, governments will be supporting a climate friendly approach in the long run. EEH and its partners help its clients to envision the climate of the future in the following areas:

- Renewable Energy
- Energy Conservation
- Energy Diversification
- Logistics Management
- Training Programs
- Public Awareness Campaigns
- Audit and Monitoring
- Human Resource Management
- Sustainable Project Support
- Pollution Control
- Environmental Ethics
- Organization of Conferences, Seminars & Workshops.



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Automation and Simulation

# 07



#### **Automation and Simulation**

EEH is an organization that understands the technology needs of today's business and process industries. EEH is dedicated to help its clients drive operational productivity improvements and optimization to achieve and realize sustainable business values.

EEH is capable of coupling Engineering & Innovation, Business Process Knowledge and its expertise to assist clients to transform their business through the strategic application of systems integration, Automation & Simulation solutions into highly productive and efficient organizations at both a business and technical level.

EEH and its associates are leading providers of services including, but not limited to:

- Process Engineering
- Supply & Distribution Planning
- Advanced Process Control
- Operations Planning, Scheduling & Optimization
- Production Management & Execution
- EPC Telecommunications, Security & Systems Solutions in Support of the Oil & Gas Industry.

Fields of process industry expertise include, but are not limited to:

- Oil and gas
- Petroleum
- Chemicals
- Specialty Chemicals
- Pharmaceuticals
- Consumer Products.



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# 08

Areas of Activity

## Areas of Activity

- Private Sector Energy Development
- Climate Change Inventory and Mitigation Strategies
- Carbon Trading
- Carbon Abatement
- Air Pollution Studies
- Business Consulting
- Protocols & Joint Ventures in Oil & Gas, and Petrochemical Industries
- Power Restructuring
- Alternative Green Energy Development
- Energy Conservation & DSM Programs (Demand-side Management)
- Telecommunications, Security & Systems Solutions in the Energy Sector
- Reliability & Availability Assessment of Electric Power Systems
- Decision Analysis and Risk Assessment
- Revenue Collection and Billing for Electric Services (AMR Automatic Meter Reading)
- Case Studies covering Electric Power Systems, Proposed Restructuring and Privatization Programs
- Mid-term Generation Planning
- Load Forecasting
- Automation & Simulation Solutions for the Process Industry
- Wind, Solar and Biofuels Studies.



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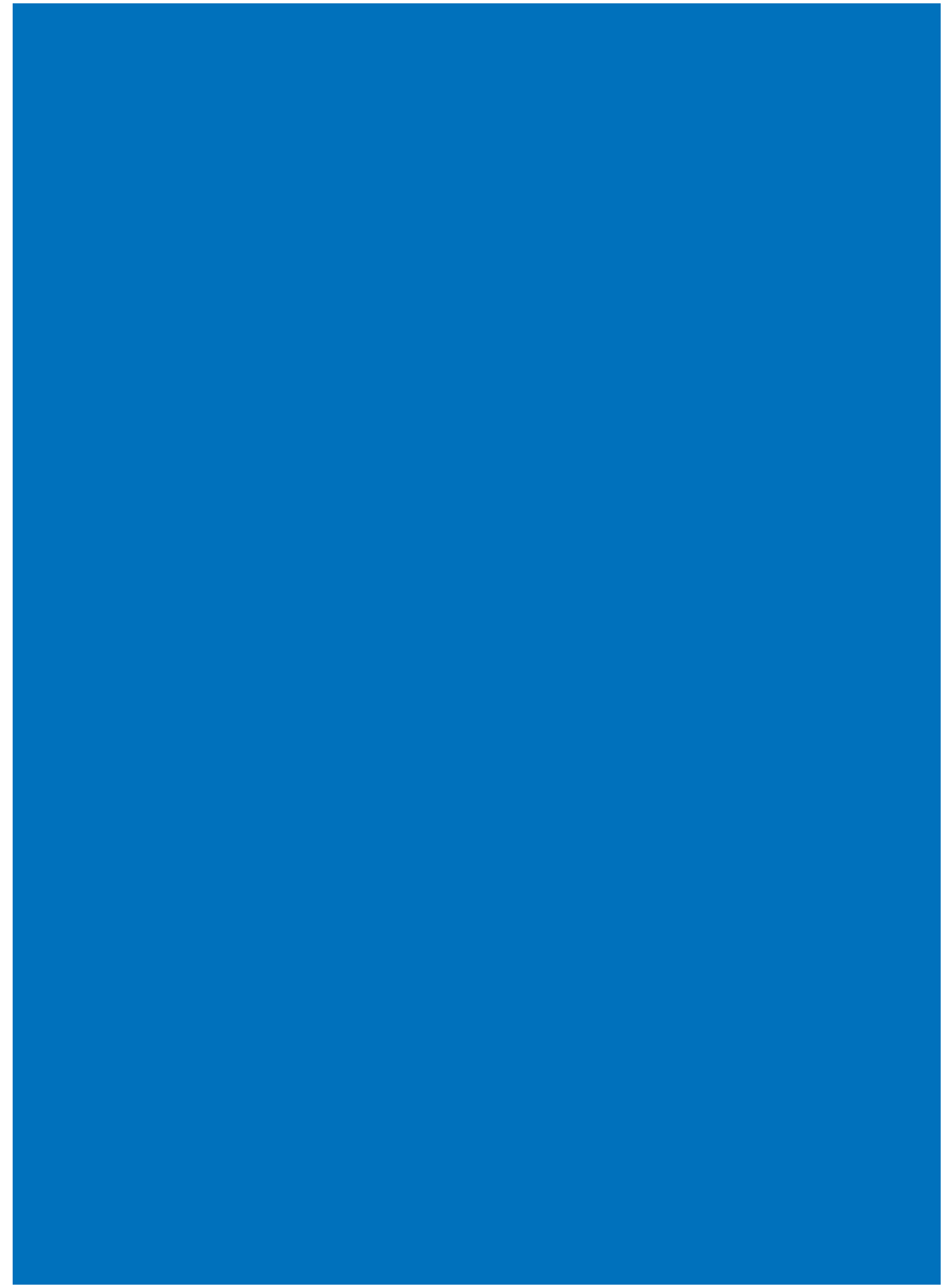


### EEH's Quality Assurance

EEH builds the power of its clients through knowledge of its people.

EEH prides itself on being able to bring ample support to each assignment, thus serving as an extension to its client's own staff. Our objective is to provide innovative and customized services to our clients to deliver sound results that endure. EEH helps its diverse clients to keep and enhance their competitive advantage by providing business and management solutions to meet their objectives.

EEH is dedicated to keeping abreast of new technological changes using state of the art engineering and management tools and relying on the collective expertise of its staff.





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