# Acronyms and Abbreviations

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Full Form</th>
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<tbody>
<tr>
<td>AAAID</td>
<td>Arab Authority for Agricultural Investment and Development</td>
</tr>
<tr>
<td>ABSP</td>
<td>Agricultural Biotechnology Support Programme</td>
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<tr>
<td>AC</td>
<td>Air-conditioning</td>
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<td>AC</td>
<td>Alternating current</td>
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<td>ACSAD</td>
<td>Arabic Centre for the Studies of Arid Zones and Drylands</td>
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<td>ADA</td>
<td>Riyadh Development Authority (Riyadh)</td>
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<tr>
<td>ADCO</td>
<td>Abu Dhabi Company for Onshore Oil Operations</td>
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<tr>
<td>ADEREE</td>
<td>The National Agency for Energy Efficiency and the Development of Renewable Energy</td>
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<tr>
<td>ADFD</td>
<td>Abu Dhabi Fund for Development</td>
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<tr>
<td>ADR</td>
<td>Alternative Disputes Resolution</td>
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<td>AEPC</td>
<td>African Environmental Protection Commission</td>
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<td>Arctic Environmental Protection Strategy</td>
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<td>AFED</td>
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<td>AG</td>
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<td>AGERI</td>
<td>Agricultural Genetic Engineering Institute</td>
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<td>AGP</td>
<td>Arab Gas Pipeline</td>
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<td>AGU</td>
<td>Arabian Gulf University</td>
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<td>Aswan High Dam</td>
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<td>AHDR</td>
<td>Arab Human Development Report</td>
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<td>AI</td>
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<td>ALECSO</td>
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<td>ALOA</td>
<td>Association for Lebanese Organic Agriculture</td>
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<td>African Ministerial Conference on the Environment</td>
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<td>AP</td>
<td>Advanced Passive reactor</td>
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<td>AP</td>
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<td>APR</td>
<td>Advanced Power Reactor</td>
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<td>APRUE</td>
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<td>Aquifer Storage and Recovery</td>
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<td>AWCUA</td>
<td>Arab Water Countries Utilities Association</td>
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<tr>
<td>b/d</td>
<td>Barrels per Day</td>
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<td>BAU</td>
<td>Business as Usual</td>
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<td>Bbl</td>
<td>Oil Barrel</td>
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<td>Biosafety Clearing House</td>
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<td>Bcm</td>
<td>Billion cubic meters</td>
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<td>BCWUA</td>
<td>Branch Canal Water User Association</td>
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<td>BDB</td>
<td>Beyond Design Basis</td>
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<td>BDL</td>
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<td>BGR</td>
<td>German Geological Survey</td>
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<td>Best Management Practices</td>
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<td>Biological Oxygen Demand</td>
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<td>boe</td>
<td>Barrels of Oil Equivalent</td>
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<td>Build-Own-Operate</td>
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<td>Build Operate Transfer</td>
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<td>BREEM</td>
<td>Building Research Establishment Environmental Assessment Method</td>
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<td>Brackish Water Reverse Osmosis</td>
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<td>ARZ Building Rating System</td>
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<td>Construction and Demolition</td>
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<td>C&amp;I</td>
<td>Commercial and Industrial</td>
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<td>CA</td>
<td>Conservation Agriculture</td>
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<td>CAB</td>
<td>Centre for Agriculture and Biosciences</td>
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<td>CAGR</td>
<td>Compound Annual Growth Rate</td>
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<td>CAI</td>
<td>Cairo Air Improvement Project</td>
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<td>CAMP</td>
<td>Coastal Area Management Project</td>
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<td>CAMRE</td>
<td>Council of Arab Ministers Responsible for the Environment</td>
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<td>CAN</td>
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<td>CBC</td>
<td>Community-Based Conservation</td>
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<td>CBD</td>
<td>Convention on Biological Diversity</td>
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<td>Community-Based Organization</td>
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<td>CBSE</td>
<td>Center for the Study of the Built Environment (Jordan)</td>
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<td>CCA</td>
<td>Climate Change Adaptation</td>
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<td>CCS</td>
<td>Carbon Capture and Sequestration</td>
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<td>CCC</td>
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<td>CD</td>
<td>Compact Disk</td>
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<td>CDM</td>
<td>Clean Development Mechanism</td>
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<td>Certified Emissions Reductions</td>
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<td>Centre for Environment and Development for the Arab Region and Europe</td>
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<td>CEP</td>
<td>Coefficient of Performance</td>
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<td>Chloro-Fluoro-Carbon</td>
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<td>Acronym</td>
<td>Full Form</td>
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<tr>
<td>CFL</td>
<td>Compact Fluorescent Light</td>
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<td>CFL</td>
<td>Compact Fluorescent Lamp</td>
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<td>CGIAR</td>
<td>Consultative Group on International Agricultural Research</td>
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<td>Methane</td>
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<td>CH1N</td>
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<td>CHP</td>
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<td>Permanent Interstate Committee for Drought Control in the Sahel</td>
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<td>Convention on International Trade in Endangered Species of Wild Fauna and Flora</td>
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<td>Chartered Institution of Wastes Management</td>
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<td>CIHEAM</td>
<td>International Centre for Advanced Mediterranean Agronomic Studies</td>
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<td>CI0</td>
<td>Compost-Like-Output</td>
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<td>CLRTAP</td>
<td>Convention on Long-Range Transboundary Air Pollution</td>
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<td>CM</td>
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<td>Community Marketing, Inc.</td>
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<td>Convention on the Conservation of Migratory Species of Wild Animals</td>
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<td>Compressed Natural Gas</td>
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<td>CO</td>
<td>Carbon Monoxide</td>
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<td>CO\text{\textsubscript{2}}</td>
<td>Carbon Dioxide</td>
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<tr>
<td>CO\text{\textsubscript{2}\textsubscript{eq}}</td>
<td>CO\text{\textsubscript{2}} equivalent</td>
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<td>Chemical Oxygen Demand</td>
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<td>COP</td>
<td>Conference of the Parties</td>
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<td>CPB</td>
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<td>cum</td>
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<td>CZIMP</td>
<td>Coastal Zone Integrated Management Plan</td>
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<td>DALYs</td>
<td>Disability-Adjusted Life Years</td>
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<td>DBFO</td>
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<td>DEM</td>
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<td>Department of Economic and Social Affairs</td>
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<td>Dubai Electricity and Water Authority</td>
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<td>Moroccan National Meteorological Office</td>
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<td>Daily News Egypt</td>
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<td>DOE</td>
<td>United States Department of Energy</td>
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<td>DRM</td>
<td>Disaster Risk Management</td>
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<td>Disaster Risk Reduction</td>
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<td>Database of State Incentives for Renewables &amp; Efficiency</td>
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<td>Dubai Aluminum Company Limited</td>
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<td>E3G</td>
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<td>Emirates Nuclear Energy Corporation</td>
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<td>European Neighborhood and Partnership Instrument</td>
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<td>ENSO</td>
<td>El Nino-Southern Oscillation</td>
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<td>Egyptian Water Regulatory Agency</td>
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<td>FACE</td>
<td>Free Air Carbon Enrichment</td>
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<td>FANR</td>
<td>The Federal Authority for Nuclear Regulation (UAE)</td>
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<td>FAO</td>
<td>Food and Agriculture Organization of the United Nations</td>
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<td>Foreign Direct Investment</td>
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<td>Facility for Euro-Mediterranean Investment and Partnership</td>
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<td>FIFA</td>
<td>Fédération Internationale de Football Association</td>
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<td>Feed-in-Tariff</td>
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<td>FOEME</td>
<td>Friends of the Earth Middle East</td>
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<td>FSU</td>
<td>Former Soviet Union</td>
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<td>F-T</td>
<td>Fischer-Tropsch process</td>
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<td>FTIAB</td>
<td>Packaging and Newspaper Collection Service (Sweden)</td>
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<td>G7</td>
<td>Group of Seven: Canada, France, Germany, Italy, Japan, United Kingdom, United States</td>
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<tr>
<td>G8</td>
<td>Group of Eight: Canada, France, Germany, Italy, Japan, Russian Federation, United Kingdom, United States</td>
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<td>GAPs</td>
<td>Good Agricultural Practices</td>
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<tr>
<td>GAS</td>
<td>Guarani Aquifer System</td>
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<td>GATT</td>
<td>General Agreement on Tariffs and Trade</td>
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<td>GBC</td>
<td>Green Building Council</td>
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GBIF  Global Biodiversity Information Facility
GCC  Gulf Cooperation Council
GCM  General Circulation Model
GCOS  Global Climate Observing System
GDP  Gross Domestic Product
GE  General Electric
GECF  Gas Exporting Countries Forum
GEF  Global Environment Facility
GEMS  Global Environment Monitoring System
GEO  Global Environment Outlook
GERD  Gross Domestic Expenditure on Research and Development
GFEI  Global Fuel Economy Initiative
GFU  Global Facilitation Unit for Underutilized Species
Gha  Global hectare
GHGs  Greenhouse Gases
GIPB  Global Partnership Initiative for Plant Breeding Capacity Building
GIS  Geographical Information Systems
GIWA  Global International Waters Assessment
GJ  GigaJoule
GLASOD  Global Assessment of Soil Degradation
GLCA  Global Leadership for Climate Action
GM  Genetically Modified
GME  Gazoduc Maghreb Europe
GMEF  Global Ministerial Environment Forum
GMO  Genetically Modified Organism
GNI  Gross National Income
GNP  Gross National Product
GPC  Green petroleum Coke
GPRS  Green Pyramid Rating System
GRI  Global Reporting Initiative
GRD  Global Resource Information Database
GSDP  General Secretariat for Development planning-Qatar
GSI  IISD Global Subsidies Initiative
GSLAS  General Secretariat of League of Arab States
GSR  Global Status Report
Gt  Gigaton
GTZ  German Technical Cooperation (Gesellschaft für Technische Zusammenarbeit)
GVC  Civil Volunteers’ Group (Italy)
GW  Gigawatt
GW  Greywater
GWt  Gigawatt electrical
GWI  Global Water Intelligence
GWP  Global Warming Potential
GWP  Global Water Partnership
GWth  Gigawatt-thermal
ha  Hectares
HACCP  Hazardous Analysis and Critical Control Points
HDI  Human Development Index
HFA  Hyogo Framework for Action
HFCs  Hydrofluorocarbons
HFO  Heavy Fuel Oil
HIV  Human Immunodeficiency Virus
HLW  High Level Waste
HNWI  High Net Worth Individuals
HVAC  Heating, Ventilation, and Air-Conditioning
IVM  Inspection and Maintenance
IAASTD  International Assessment of Agricultural Knowledge Science and Technology for Development
IAEA  International Atomic Energy Agency
IAS  Irrigation Advisory Service
IC  Irrigation Council
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<td><strong>ICAM</strong> Integrated Coastal Area Management</td>
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<td><strong>ICARDA</strong> International Center for Agricultural Research in Dry Areas</td>
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<td><strong>ICBA</strong> International Center for Biosaline Agriculture</td>
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<td><strong>ICC</strong> International Chamber of Commerce</td>
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<td><strong>ICGEB</strong> International Center for Genetic Engineering and Biotechnology</td>
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<td><strong>ICLM</strong> Imperial College London Diabetes Centre</td>
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<td><strong>ICM</strong> Integrated Coastal Management</td>
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<td><strong>ICPDR</strong> International Commission for the Protection of the Danube River</td>
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<td><strong>ICT</strong> Information and Communication Technology</td>
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<td><strong>ICZM</strong> Integrated Coastal Zone Management</td>
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<td><strong>IDA</strong> International Desalination Association</td>
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<td><strong>ICLDC</strong> Islamic Development Bank</td>
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<td><strong>IDC</strong> Irbid District Electricity Company</td>
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<td><strong>IDRC</strong> International Development Research Center</td>
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<td><strong>IDSC</strong> Information and Decision Support Center</td>
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<td><strong>IEA</strong> International Energy Agency</td>
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<td><strong>IEADSM</strong> Institute of Electrical and Electronic Engineers</td>
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<td><strong>IFAD</strong> International Fertilizer Industry Association</td>
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<td><strong>IFAD</strong> International Fund for Agricultural Development</td>
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<td><strong>IFOAM</strong> International Federation of Organic Agriculture Movements</td>
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<td><strong>IFPRI</strong> International Food Policy Research Institute</td>
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<td><strong>IGCC</strong> Integrated Gasifier Combined Cycle</td>
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<td><strong>IHP</strong> International Hydrology Program</td>
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<td><strong>IIIEE</strong> International Institute for Industrial Environmental Economics</td>
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<td><strong>IIID</strong> International Institute for Sustainable Development</td>
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<td><strong>ILW</strong> Intermediate Level waste</td>
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<td><strong>IMC</strong> International Institute for Sustainable Development</td>
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<td><strong>IMF</strong> International Labour Organization</td>
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<td><strong>IMO</strong> International Maritime Organization</td>
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<td><strong>IPM</strong> Integrated Pest Management</td>
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<td><strong>IPP</strong> Independent Power Producer</td>
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<td><strong>IPR</strong> Intellectual Property Rights</td>
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<td><strong>IPTRID</strong> International Program for Technology and Research in Irrigation and Drainage</td>
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<td><strong>IRENA</strong> International Renewable Energy Agency</td>
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<td><strong>IRESEN</strong> Institut de Recherche en Energie Solaire et en Energies Nouvelles</td>
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<td><strong>IRR</strong> Internal Rate Of Return</td>
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<td><strong>ISIC</strong> UN International Standard Industrial Classification</td>
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WBGU: German Advisory Council on Global Change
WCD: World Commission on Dams
WCED: World Commission on Environment and Development
WCMC: UNEP World Conservation Monitoring Center
WCP: World Climate Programme
WCS: World Conservation Strategy
WDM: Water Demand Management
WDPA: World Database on Protected Areas
WEEE: Waste of Electronic and Electrical Equipment
WEF: World Economic Forum
WEI: Water Exploitation Index
WETC: Wind Energy Technology Centre
WF: Water Footprint
WFN: Water Footprint Network
WFP: World Food Programme
WGP-AS: Water Governance Program in the Arab States
WHO: World Health Organization
WIPP: Waste Isolation Pilot Plant
WMO: World Meteorological Organization
WNA: World Nuclear Association
Wp: Watt-peak
WRI: World Resources Institute
WSSCC: Water Supply and Sanitation Collaborative Council
WSSD: World Summit on Sustainable Development
WTO: World Trade Organization
WTTC: World Travel and Tourism Council
WUA: Water User Association
WWAP: World Water Assessment Program
WWC: World Water Council
WWF: World Wide Fund for Nature
WWF: World Water Forum
WWI: First World War
WWII: Second World War
YR: Year
For the first time, a comprehensive independent expert report on Arab environment is released for public debate. Entitled *Arab Environment: Future Challenges*, this ground-breaking report has been commissioned by Arab Forum for Environment and Development (AFED), and written by some of the most prominent Arab experts, including authors, researchers and reviewers. Beyond appraising the state of the environment, based on the most recent data, the policy-oriented report also evaluates the progress towards the realization of sustainable development targets, assesses current policies and examines Arab contribution to global environmental endeavors. Ultimately, the report proposes alternative policies and remedial action.

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Impact of Climate Change on the Arab Countries is the second of a series of annual reports produced by the Arab Forum for Environment and Development (AFED). The report has been designed to provide information to governments, business, academia and the public about the impact of climate change on the Arab countries, and encourage concrete action to face the challenge.

The report analyzes the Arab response to the urgent need for adaptation measures, and uses the latest research findings to describe the vulnerabilities of natural and human systems in the Arab world to climate change and the impacts on different sectors. In an attempt to help shape adequate policies, the report discusses options for a post-Kyoto regime and outlines the state of international negotiations in this regard.


The 2010 report is designed to contribute to the discourse on the sustainable management of water resources in the Arab world and provides critical understanding of water in the region without being overly technical or academic in nature.

The unifying theme is presenting reforms in policies and management to develop a sustainable water sector in Arab countries. Case studies, with stories of successes and failures, are highlighted to disseminate learning.

This report contributes to the ongoing dialogue on the future of water and catalyzes institutional reforms, leading to determined action for sustainable water policies in Arab countries.
Survival Options-Ecological Footprint of Arab Countries is the fifth in the series of annual reports produced by the Arab Forum for Environment and Development (AFED) on the state of the Arab environment. It examines sustainability choices in Arab countries, based on a survey of people’s demand of natural capital and available supply.

The report discusses potential paths to sustainability based on ecological constraints. As a basis for the analysis, AFED has commissioned the Global Footprint Network, the world leader in this field, to produce an Arab Ecological Footprint and Biocapacity Atlas using the most recent data available. The Atlas covers the 22 members of the League of Arab States, as region, sub-regions and individual countries.

The analysis focuses on the challenges posed by the state of food security, water and energy, while considering main drivers such as population and patterns of production and consumption. Ultimately, it prescribes regional cooperation and sound management of resources as the main options for survival in a region characterized by stark variations in ecological footprint, natural resources and income.