

Acronyms and Abbreviations

AAID	Arab Authority for Agricultural Investment and Development
ABSP	Agricultural Biotechnology Support Programme
AC	Air-conditioning
AC	Alternating current
ACSAD	Arabic Centre for the Studies of Arid Zones and Drylands
ADA	Arriyadh Development Authority (Riyadh)
ADCO	Abu Dhabi Company for Onshore Oil Operations
ADEREE	The National Agency for Energy Efficiency and the Development of Renewable Energy
ADFD	Abu Dhabi Fund for Development
ADR	Alternative Disputes Resolution
ADWEA	Abu Dhabi Water & Electricity Authority
AED	United Arab Emirates Dirham
AEPC	African Environmental Protection Commission
AEPS	Arctic Environmental Protection Strategy
AEWA	African-Eurasian Waterbird Agreement
AFED	Arab Forum for Environment and Development
AFESD	Arab Fund for Economic and Social Development
AG	Associated Gas
AGERI	Agricultural Genetic Engineering Institute
AGP	Arab Gas Pipeline
AGU	Arabian Gulf University
AHD	Aswan High Dam
AHDR	Arab Human Development Report
AIA	Advance Informed Agreement
AIDS	Acquired Immunodeficiency Syndrome
AIECGC	Arab Investment and Export Credit Guarantee Corporation
AKTC	Aga Khan Trust for Culture
Al	Aluminum
ALBA	Aluminium Bahrain
ALECSO	Arab League Educational, Cultural, and Scientific Organization
ALMEE	Lebanese Association for Energy Saving & Environment
ALOA	Association for Lebanese Organic Agriculture
AMCEN	African Ministerial Conference on the Environment
AMF	Arab Monetary Fund
AMU	Arab Maghreb Union
ANME	National Agency for Energy Management
AoA	Agreement on Agriculture (WTO Uruguay Round)
AOAD	Arab Organization for Agricultural Development
AP	Advanced Passive reactor
AP	Additional Protocol
API	Arab Planning Institute
APR	Advanced Power Reactor
APRUE	National Agency for the Promotion and Rationalization of Use of Energy
AREE	Aqaba Residence Energy Efficiency
ASABE	American Society of Agricultural and Biological Engineers
ASDRR	Arab Strategy for Disaster Risk Reduction

ASR	Aquifer Storage and Recovery
AU	African Union
AUB	American University of Beirut
AUM	American University of Madaba (Jordan)
AWA	Arab Water Academy
AWC	Arab Water Council
AWCUA	Arab Water Countries Utilities Association
b/d	Barrels per Day
BADEA	Arab Bank for Economic Development in Africa
BAU	Business as Usual
Bbl	Oil Barrel
BCH	Biosafety Clearing House
Bcm	Billion cubic meters
BCWUA	Branch Canal Water User Association
BDB	Beyond Design Basis
BDL	Central Bank of Lebanon
BGR	German Geological Survey
BMP	Best Management Practices
BMZ	German Federal Ministry of Economic Cooperation and Development
BNEF	Bloomberg New Energy Finance
BOD	Biological Oxygen Demand
boe	Barrels of Oil Equivalent
BOO	Build-Own-Operate
BOOT	Build Own Operate Transfer
BOT	Build Operate Transfer
BP	British Petroleum
BREEAM	Building Research Establishment Environmental Assessment Method
BRO	Brackish Water Reverse Osmosis
BRS	ARZ Building Rating System
BU	Boston University
C&D	Construction and Demolition
C&I	Commercial and Industrial
CA	Conservation Agriculture
CAB	Centre for Agriculture and Biosciences
CAGR	Compound Annual Growth Rate
CAIP	Cairo Air Improvement Project
CAMP	Coastal Area Management Project
CAMRE	Council of Arab Ministers Responsible for the Environment
CAN	Competent National Authority
CBC	Community-Based Conservation
CBD	Convention on Biological Diversity
CBO	Community-Based Organization
CBSE	Center for the Study of the Built Environment (Jordan)
CCA	Climate Change Adaptation
CCGT	Combined Cycle Gas Turbine
CCS	Carbon Capture and Sequestration
CCS	Carbon Capture and Storage
CCS CO ₂	Capture and Storage
CD	Compact Disk
CDM	Clean Development Mechanism
CDRs	Certified Emissions Reductions
CEDARE	Centre for Environment and Development for the Arab Region and Europe
CEDRO	Country Energy Efficiency and Renewable Energy Demonstration Project for the Recovery of Lebanon
CEIT	Countries with Economies in Transition
CEO	Chief Executive Officer
CEP	Coefficient of Performance
CERES	Coalition for Environmentally Responsible Economics
CERs	Credits
CFA	Cooperative Framework Agreement
CFC	Chloro-Fluoro-Carbon

CFL	Compact Fluorescent Light
CFL	Compact Fluorescent Lamp
CGIAR	Consultative Group on International Agricultural Research
CH ₄	Methane
CHN	Centre Hospitalier du Nord -Lebanon
CHP	Combined Heat and Power
CILSS	Permanent Interstate Committee for Drought Control in the Sahel
CIRAD	Agricultural Research for Development
CITES	Convention on International Trade in Endangered Species of Wild Fauna and Flora
CIWM	Chartered Institution of Wastes Management
CIHEAM	International Centre for Advanced Mediterranean Agronomic Studies
CLO	Compost-Like-Output
CLRTAP	Convention on Long-Range Transboundary Air Pollution
CM	Carbon Management
CMI	Community Marketing, Inc.
CMS	Convention on the Conservation of Migratory Species of Wild Animals
CNA	Competent National Authority
CNCA	Public Agricultural Bank
CNG (CNS)	Compressed Natural Gas
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
CO _{2e/eq}	CO ₂ equivalent
COD	Chemical Oxygen Demand
COP	Conference of the Parties
CPB	Cartagena Protocol on Biosafety
CPC	Calcined Petroleum Coke
CRS	Center for Remote Sensing
CSD	Commission on Sustainable Development
CSEM	Centre Suisse d'Electronique et de Microtechnique
CSP	Concentrated Solar Power
CSR	Corporate Social Responsibility
CTAB	Technical Center of Organic Agriculture
cum	Cubic meters
CZIMP	Coastal Zone Integrated Management Plan
DALYs	Disability-Adjusted Life Years
DBFO	Design Build Finance Operate
DBO	Design-Build-Operate
DC	Direct current
DED	Dubai Economic Department
DEFRA	Department for Environment, Food and Rural Affairs (UK)
DEM	Digital Elevation Model
DESA	Department of Economic and Social Affairs
DEWA	Dubai Electricity and Water Authority
DFID	UK Department for International Development
DHW	Domestic Hot Water
DII	DESERTEC Industrial Initiative
DMN	Moroccan National Meteorological Office
DNE	Daily News Egypt
DOE	United States Department of Energy
DRM	Disaster Risk Management
DRR	Disaster Risk Reduction
DSIRE	Database of State Incentives for Renewables & Efficiency
DTCM	Dubai Department for Tourism and Commerce Marketing
DTIE	UNEP Division of Technology, Industry, and Economics
DTO	Dublin Transportation Office
DUBAL	Dubai Aluminum Company Limited
E3G	Third Generation Environmentalism
EAD	Environment Agency Abu Dhabi
ECA	Economic Commission for Africa
ECAs	Energy Conversion Agreements

ECE	Economic Commission for Europe
ED	Electrodialysis
EDCO	Electricity Distribution Company
EDF	Environmental Defense Fund
EDL	Electricité du Liban
EE	Energy Efficiency
EEAA	Egyptian Environmental Affairs Agency
EEHC	Egyptian Electricity Holding Company
EF	Ecological Footprint
EGBC	Egyptian Green Building Council
EGPC	Egyptian General Petroleum Corporation
EGS	Environmental Goods and Services
EIA	Energy Information Administration
EIA	Environmental Impact Assessment
EITI	Extractive Industries Transparency Initiative
EMA	Europe, the Middle East, and Africa
EMAL	Emirates Aluminium Company Limited
EMAS	Eco-Management and Audit Scheme
EMS	Environmental Management System
ENEC	Emirates Nuclear Energy Corporation
ENPI	European Neighborhood and Partnership Instrument
ENSO	El Niño-Southern Oscillation
EOR	Enhanced Oil Recovery
EPA	US Environmental Protection Agency
EPC	Engineering Procurement and Construction
EPD	European Patent Office
EPDRB	Environmental Program for the Danube River Basin
EPI	Environment Performance Index
EPSA	Exploration and Production Sharing Agreement
ESAUN	Department of Economic and Social Affairs
ESBM	Ecosystem-Based Management
ESCOs	Energy Service Companies
ESCWA	United Nations Economic and Social Commission for Western Asia
ESI	Environment Sustainability Index
ESMAP	World Bank Energy Sector Management Assistance Program
ETM	Enhanced Thematic Mapper
EU	European Union
EU ETS	European Union Emission Trading System
EVI	Environmental Vulnerability Index
EWRA	Egyptian Water Regulatory Agency
EWS	Emirates Wildlife Society
FACE	Free Air Carbon Enrichment
FANR	The Federal Authority for Nuclear Regulation (UAE)
FAO	Food and Agriculture Organization of the United Nations
FDI	Foreign Direct Investment
FEMIP	Facility for Euro-Mediterranean Investment and Partnership
FFEM	French Fund for Global Environment
FIBL	Research Institute of Organic Agriculture
FIFA	Fédération Internationale de Football Association
FIT	Feed-in-Tariff
FOEME	Friends of the Earth Middle East
FSU	Former Soviet Union
F-T	Fischer-Tropsch process
FIAB	Packaging and Newspaper Collection Service (Sweden)
G7	Group of Seven: Canada, France, Germany, Italy, Japan, United Kingdom, United States
G8	Group of Eight: Canada, France, Germany, Italy, Japan, Russian Federation, United Kingdom, United States
GAPs	Good Agricultural Practices
GAS	Guarani Aquifer System
GATT	General Agreement on Tariffs and Trade
GBC	Green Building Council

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
GRID	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 Zusamm)
GVC	Civil Volunteers' Group (Italy)
GW	Gigawatt
GW	Greywater
GW _e	Gigawatt electrical
GWI	Global Water Intelligence
GWP	Global Warming Potential
GWP	Global Water Partnership
GW _{th}	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
I/M	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

ICAM	Integrated Coastal Area Management
ICARDA	International Center for Agricultural Research in Dry Areas
ICBA	International Center for Biosaline Agriculture
ICC	International Chamber of Commerce
ICGEB	International Center for Genetic Engineering and Biotechnology
ICLDC	Imperial College London Diabetes Centre
ICM	Integrated Coastal Management
ICPDR	International Commission for the Protection of the Danube River
ICT	Information and Communication Technology
ICZM	Integrated Coastal Zone Management
IDA	International Desalination Association
IDB	Islamic Development Bank
IDECO	Irbid District Electricity Company
IDRC	International Development Research Center
IDSC	Information and Decision Support Center
IEA	International Energy Agency
IEADSM	International Energy Agency Demand-side Management
IEEE	Institute of Electrical and Electronic Engineers
IFA	International Fertilizer Industry Association
IFAD	International Fund for Agricultural Development
IFOAM	International Federation of Organic Agriculture Movements
IFPRI	International Food Policy Research Institute
IGCC	Integrated Gasifier Combined Cycle
IHP	International Hydrology Program
IIED	International Institute for Environment and Development
IIIEE	Lund University International Institute for Industrial Environmental Economics
IIIP	Integrated Irrigation Improvement Project
IIP	Irrigation Improvement Project
IISD	International Institute for Sustainable Development
ILO	International Labour Organization
ILW	Intermediate Level waste
IMC	Istituto Mediterraneo Di Certificazione
IMF	International Monetary Fund
IMO	International Maritime Organization
InWEnt	Capacity Building International-Germany
IO	Input-Output
IOC	International Oil Companies
IPCC	Intergovernmental Panel on Climate Change
IPF	Intergovernmental Panel on Forests
IPM	Integrated Pest Management
IPP	Independent Power Producer
IPR	Intellectual Property Rights
IPTRID	International Program for Technology and Research in Irrigation and Drainage
IRENA	International Renewable Energy Agency
IRESEN	Institut de Recherche en Energie Solaire et en Energies Nouvelles
IRR	Internal Rate Of Return
ISCC	Integrated Solar Combined Cycle
ISESCO	Islamic Educational, Scientific, and Cultural Organization
ISIC	UN International Standard Industrial Classification
ISO	International Organization for Standardization
ISWM	Integrated Solid Waste Management
ITC	Integrated Tourism Centers
ITC	International Trade Center
ITSAM	Integrated Transport System in the Arab Mashreq
IUCN	International Union for Conservation of Nature
IUCN	World Conservation Union (International Union for the Conservation of Nature and Natural Resources)
IWMI	International Water Management Institute
IWPP	Independent Water And Power Producer
IWRB	International Waterfowl and Wetlands Research Bureau
IWRM	Integrated Water Resources Management

JAEC	Jordan Atomic Energy Commission
JBAW	Jordan Business Alliance on Water
JD	Jordanian Dinar
JEPCO	Jordan Electric Power Company
JI	Joint Implementation
JMWI	Jordan Ministry for Water and Irrigation
JNRC	Jordan Nuclear Regulatory Commission
JVA	Jordan Valley Authority
KA-CARE	King Abdullah City for Atomic and Renewable Energy
KACST	King Abdulaziz City for Science and Technology
KAUST	King Abdullah University of Science and Technology
KEPCO	Korea Electric Power Corporation
KFAED	Kuwait Fund for Arab Economic Development
KFUPM	King Fahd University of Petroleum and Minerals
KfW	German Development Bank
KISR	Kuwait Institute for Scientific Research
KSA	Kingdom of Saudi Arabia
KW	Kilowatt
kWh	Kilowatt-hour
LADA	Land Degradation Assessment of Drylands
LAS	League of Arab States
LATA	Lebanese Appropriate Technology Association
LAU	Lebanese American University
LBNL	Lawrence Berkeley National Laboratory
LCC	Life Cycle Costing
LCEC	Lebanese Center for Energy Conservation
LCOE	Levelized Costs of Electricity
LDCs	Least Developed Countries
LED	Light-Emitted Diode
LEED	Leadership in Environmental Design
LEMA	Suez Lyonnaise des Eaux, Montgomery Watson and Arabtech Jardaneh
LEU	Low-enriched Uranium
LGBC	Lebanon Green Building Council
LLW	Low Level Waste
LMBA	Land and Marine Based Activities
LMEs	Large Marine Ecosystems
LMG	Like Minded Group
LMO	Living Modified Organism
LNG	Liquefied Natural Gas
LowCVP	Low Carbon Vehicle Partnership
LPG	Liquefied Petroleum Gas
LRA	Litani River Authority
LV	Low Voltage
MAAR	Syrian Ministry of Agriculture and Agrarian Reform
MAD	Moroccan Dirham
MALR	Ministry of Agriculture and Land Reclamation
MAP	UNEP Mediterranean Action Plan
MARPOL	International Convention for the Prevention of Pollution from Ships
MASEN	Moroccan Agency for Solar Electricity
mb/d	million barrels per day
MBT	Mechanical-biological treatment
MCM	Million Cubic Meters
MD	Membrane Distillation
MDGs	Millennium Development Goals
MEA	Multilateral Environmental Agreement
MECTAT	Middle East Centre for the Transfer of Appropriate Technology
MED	Multiple-Effect Distillation
MED WWR WG	Mediterranean Wastewater Reuse Working Group
MED-ENEC	Energy Efficiency in the Construction Sector in the Mediterranean
MEES	Middle East Economic Survey

MEMAC	Marine Emergency Mutual Aid Centre
MENA	Middle East and North Africa
MEPS	Minimum Energy Performance Standards
METAP	UNEP Mediterranean Environmental Technical Assistance Program
MEW	Lebanese Ministry of Energy and Water
MGD	Million Gallon per Day
MHT	Mechanical Heat Treatment
MICE	Meetings, Incentives, Conferences, And Events
MIST	Masdar Institute of Science and Technology
MMBTU	One Million British Thermal Units
MMCP	Making the Most of Commodities Programme
MNA	Multinational Approaches
MOQ	Maersk Oil Qatar
MOU	Memorandum of Understanding
MOX	Mixed-Oxide
MPA	Marine Protected Area
MSF	Multi-Stage Flash
MSP	Mediterranean Solar Plan
MSW	Municipal Solid Waste
Mt	Metric tons
MT	Million ton
Mt	Megatons
MtCO ₂	Million tons of CO ₂
Mtoe	Million tons of oil equivalent
MTPY	Metric Tons Per Year
MV	Medium Voltage
MW	Megawatt
MW _h	Megawatt-hour
MW _p	Megawatt-peak
MWRI	Ministry of Water Resources and Irrigation
MW _{th}	Megawatt-thermal
N ₂ O	Nitrous Oxide
NAMA	Nationally Appropriate Mitigation Actions
NARI	National Agricultural Research Institutes
NASA	National Aeronautics and Space Administration
NBC	National Biosafety Committee
NBDF	Nile Basin Discourse Forum
NBF	National Biosafety Framework
NBI	Nile Basin Initiative
NBM	Nile Basin Management
NC	National Communication
NCSR	Lebanese National Council of Scientific Research
ND	Neighborhood Development
NDW	Moroccan National Drought Watch
NEA	Nuclear Energy Agency
NEAP	National Environmental Action Plan
NEEAP	National Energy Efficiency Action Plan
NEEP	National Energy Efficiency Program
NEEREA	National Energy Efficiency and Renewable Energy Action (Lebanon)
NERC	National Energy Research Centre
NF	Nano-Filtration
NFC	Nile Forecast Center
NFP	National Focal Point
NGCCs	Natural-Gas-Fired Combined Cycles
NGO	Non-Governmental Organization
NGV	Natural Gas Vehicles
NGWA	Northern Governorates Water Authority (Jordan)
NIF	Neighborhood Investment Facility
NOAA	National Oceanic and Atmospheric Administration
NOC	National Oil Company

NOEC	Net Oil Exporting Countries
NOGA	National Oil and Gas Authority (Bahrain)
NOIC	Net Oil Importing Countries
NORDEN	Nordic Council of Ministers
NOx	Nitrogen Oxides
NPK	Nitrogen, Phosphates and Potash
NPP	Nuclear Power Plant
NPP	Net Primary Productivity
NPPA	Nuclear Power Plant Authority
NPT	Non-Proliferation treaty of nuclear weapons
NRC	National Research Council
NREL	National Renewable Energy Laboratory
NRW	Non-Revenue Water
NSAS	Nubian Sandstone Aquifer System
NSR	North-South Railway project
NUS	Neglected and underutilized species
NWRC	National Water Research Center (Egypt)
NWSAS	North Western Sahara Aquifer System
O&M	Operation and Maintenance
OAPEC	Organization of Arab Petroleum Exporting Countries
OAU	Organization for African Unity
ODA	Official Development Assistance
ODS	Ozone-Depleting Substance
OECD	Organization for Economic Co-operation and Development
OFID	OPEC Fund for International Development
OIES	Oxford Institute for Energy Studies
OME	Observatoire Méditerranéen de l'Energie
OMW	Olive Mills Wastewater
ONA	Omnium Nord-Africain
ONE	National Electricity Office
ONEP	National Office of Potable Water
OPEC	Organization of Petroleum Exporting Countries
OSS	Sahara and Sahel Observatory (Observatoire du Sahara et du Sahel)
PACD	Plan of Action to Combat Desertification
PC	Personal Computer
PCB	Polychlorinated Biphenyls
PCFPI	Per Capita Food Production Index
PCFV	Partnership for Clean Fuels and Vehicles
PEA	Palestinian Energy and Natural Resources Authority
PERG	Global Rural Electrification Program
PERSGA	Protection of the Environment of the Red Sea and Gulf of Aden
PFCs	Perfluorocarbons
PICs	Pacific Island Countries
PIM	Participatory Irrigation Management
PM	Particulate Matter
PMU	Program Management Unit
PNA	Palestinian National Authority
PNEEI	Tunisian National Program of Irrigation Water Conservation
POPs	Persistent Organic Pollutants
PPA	Power Purchase Agreement
PPIAF	Public-Private Infrastructure Advisory Facility
PPM	Parts Per Million
PPM	Process and Production Methods
PPP	Public-Private Partnership
PPP	Purchasing Power Parity
PPP	Public-Private Partnership
PRM	Persons with Reduced Mobility
PRY	Potential Researcher Year
PTSs	Persistent Toxic Substances
PV	Photovoltaic

PWA	Palestinian Water Authority
QNFSP	Qatar National Food Security Programme
QP	Qatar Petroleum
QSAS	Qatar Sustainable Assessment System
R&D	Research and Development
RA	Risk Assessment
RADEEMA	Régie autonome de distribution de l'eau et de l'électricité de Marrakech
RBO	River Basin Organization
RBP	Restrictive Business Practices
RCM	Regional Circulation Model
RCREEE	Regional Center for Renewable Energy and Energy Efficiency
RDF	Refuse Derived Fuel
RE	Renewable Energy
REC	Renewable Energy Credits
REMPEC	Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea
REN21	Renewable Energy Policy Network for the 21st Century
Rep	Republic
RM	Risk Management
RO	Reverse Osmosis
ROPME	Regional Organization for the Protection of the Marine Environment of the sea area surrounded by Bahrain, I.R. Iran, Iraq, Kuwait, Oman, Qatar, Saudi Arabia and the United Arab Emirates
RPS	Renewable Portfolio Standard
RSA	ROPME Sea Area
RSC	Royal Society of Chemistry (UK)
RSCN	Royal Society for the Conservation of Nature
RSQA	Red Sea and Gulf of Aden
S&T	Science and Technology
SAIC	Science Applications International Corporation
SAP	Strategic Action Program
SCP	Sustainable Consumption and Production
SCPI	Sustainable Crop Production Intensification
SD	Sustainable Development
SEA	Strategic Environmental Assessment
SFD	Saudi Fund for Development
SHS	Solar Home System
SIR	Shuttle Imaging Radar
SIWI	Stockholm International Water Institute
SL	Syrian Pound
SLR	Sea Level Rise
SME	Small and Medium-Size Enterprises
SoE	State of the Environment
SONEDE	Société Nationale d'Exploitation et de Distribution des Eaux
SOx	Sulfur Oxides
SPD	Sozialdemokratische Partei Deutschlands
SPM	Suspended Particulate Matter
SRES	Special Report on Emission Scenarios
SRTM	Shuttle Radar Topography Mission
SWCC	Saline Water Conversion Corporation
SWH	Solar Water Heating
SWRO	Seawater Reverse Osmosis
T&D	Transmission and Distribution
TAC	Technical Advisory Committee
TAR	Third Assessment Report
Tcm	Trillion cubic meters
TDM	Transportation Demand Management
TDS	Total Dissolved Solids
TES	Thermal Energy Storage
TFP	Total factor productivity
TIES	The International Ecotourism Society
TII	Thermal Insulation Implementation

Toe	Tons of Oil Equivalent
TPES	Total Primary Energy Supply
TRAFFIC	Trade Records Analysis for Flora and Fauna in International Commerce
TRI	Toxics Release Inventory
TRIPs	Trade-Related Aspects of International Property Rights
TRMM	Tropical Rainfall Measuring Mission
tU	tones of Uranium
TWh	Terawatt-hour
UAE	United Arab Emirates
UCLA	University of California at Los Angeles
UCS	Union of Concerned Scientists
UF	Ultrafiltration
UfM	Union for the Mediterranean
UHCPV	Ultra-High Concentration Photovoltaic
UHI	Urban Heat Island
UIS	UNESCO Institute for Statistics
UK	United Kingdom
UMA	Union du Maghreb Arabe (Arab Maghreb Union)
UN	United Nations
UNCBD	United Nations Convention on Biological Diversity
UNCCD	United Nations Convention to Combat Desertification
UNCED	United Nations Conference on Environment and Development
UNCHS	United Nations Centre for Human Settlements (now UN-Habitat)
UNCLOS	United Nations Convention on the Law of the Sea
UNCOD	United Nations Conference on Desertification
UNCTAD	United Nations Conference on Trade and Development
UNDAF	United Nations Development Assistance Framework
UNDP	United Nations Development Programme
UNEP	United Nations Environment Programme
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNESCO-ROSTAS	UNESCO Regional Office for Science and Technology for the Arab States
UNFCCC	United Nations Framework Convention on Climate Change
UNFPA	United Nations Population Fund
UNHCR	United Nations High Commission for Refugees
UNICE	United Nations Children's Fund
UNIDO	United Nations Industrial Development Organization
UNISDR	United Nations International Strategy for Disaster Reduction
UNWTO	United Nations World Tourism Organization
UPC	Abu Dhabi Urban Planning Council
UPI	United Press International
USA	United States of America
USAID	United States Agency for International Development
USCCSP	United States Climate Change Science Program
USEK	Université Saint-Esprit De Kaslik
USEPA	United States Environmental Protection Agency
USJ	Saint Joseph University
USPTO	United States Patent and Trademark Office
UV	Ultraviolet (A and B)
VAT	Value-Added Tax
VC	Vapor Compression
VCM	Volatile Combustible Matter
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compound
VRS	Vapor Recovery System
WACC	Weighted Average Cost of Capital
WaDImena	Water Demand Initiative for the Middle East and North Africa
WAJ	Water Authority of Jordan
WALIR	Water Law and Indigenous Rights
WB	West Bank
WBCSD	World Business Council for Sustainable Development

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

Arab Environment: Future Challenges

2008 Report

of the Arab Forum for Environment and Development



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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Arab Environment: Climate Change

2009 Report

of the Arab Forum for Environment and Development



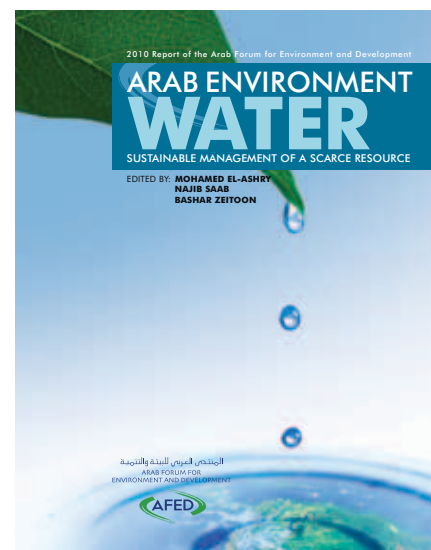
Impact of Climate Change on the Arab Countries is the second of a series of annual reports produced by the Arab Forum for Environment and Development (AFED). The report has been designed to provide information to governments, business, academia and the public about the impact of climate change on the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

Arab Environment: Water

2010 Report

of the Arab Forum for Environment and Development



Water: Sustainable Management of a Scarce Resource is the third of a series of annual reports produced by the Arab Forum for Environment and Development (AFED). It follows the publication of two reports, *Arab Environment: Future Challenges* in 2008 and *Impact of Climate Change on Arab countries* in 2009.

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.

Arab Environment: Green Economy

2011 Report

of the Arab Forum for Environment and Development



Green Economy: Sustainable Transition in a Changing Arab World is the fourth of a series of annual reports on the state of Arab environment, produced by the Arab Forum for Environment and Development (AFED).

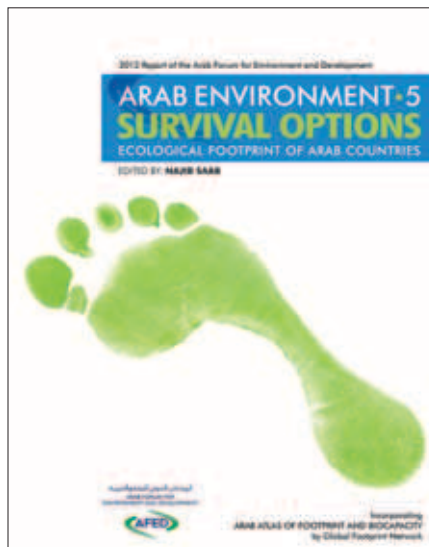
This report on options of green economy in Arab countries represents the first phase of the AFED green economy initiative. Over one hundred experts have contributed to the report, and discussed its drafts in a series of consultation meetings.

The report is intended to motivate and assist governments and businesses in making a transition to the green economy. It articulates enabling public policies, business models, green investment opportunities, innovative approaches, and case studies, and addresses eight sectors: agriculture, water, energy, industry, cities and buildings, transportation, tourism, and waste management.

Arab Environment: Survival Options

2012 Report

of the Arab Forum for Environment and Development



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.

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The image shows a page from a notebook or ledger. At the top, there is a dark gray header bar. On the left side of this bar is the page number "216". In the center of the bar is the word "NOTES". Below the header bar, the page is filled with horizontal ruling lines. The first section contains four groups of three lines each: a solid top line, a dashed middle line, and a solid bottom line. This pattern repeats twice. Following this, there are ten single horizontal lines spanning the width of the page.