



REPORT CONFIDENTIAL APPROVED

VERSION 1.0

INTERCONNECTION GRID CODE FOR THE PAN ARAB ELECTRICITY MARKET

GLOSSARY AND DEFINITIONS

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Table of Contents

GD 1	TERMS AND DEFINITIONS	3
CD 3	CYNADOLC AND LINITS OF MEASI IDEMENT	าา
GD Z	SYMBOLS AND UNITS OF MEASUREMENT	
GD 3	STRUCTURE OF THE CODE AND HIERARCHY OF HEADINGS	23





GD 1 TERMS AND DEFINITIONS

Term	Acronym	Definition
Activation of Primary Control		Deadband across the nominal frequency outside which the Primary Control is activated
Actual Energy Transfer		means the real Energy Transfer of a PAEM Participant in a Dispatch Period from the Transmission System of a Member State (measured in MWh, with the accuracy of measurement up to 2 decimal places).
Actual Metering Point		means, the physical location at which the electricity is metered.
Adequacy		means the design of the Electricity System to meet the electrical Demand and energy requirements of consumers at all times, taking in consideration of Planned Outages and/or Forced Outages.
Adequacy Assessments		it has the meaning given to it in Section OC 2.7 of the Operation Code.
Aggregated Netted External TSO Schedule		means a schedule representing the netted aggregation of all External TSO Schedules between two Scheduling Areas or between a Scheduling Area and a group of other Scheduling Areas.
Agreement Process		means the process where the requesting TSO and the providing one confirm the values of External TSO Schedules for a given direction and for all time intervals in each time frame.
Alert Procedure		means a procedure to be applied whenever operation data predict unsecure situations involving interconnected Electricity Systems.
Alert State		it has the meaning given to it in Article OC 3.3.4 of the Operation Code.
Allocation Process		means the process described in Chapter SDC 3 related to the
SEA		allocation of the Transfer Capacity available at the border of each Member State, net of the Reserved Transfer Capacity.
Allocation Rules		means the rules for Forward Capacity Allocation applied by Regional Market Facilitator
Already Allocated Capacity	AAC	means the total amount [MW] of allocated transmission rights, whether they are capacity or exchange programs depending on the allocation methods.
Alternating Current	AC	means electric current that is a periodic function of time with a zero direct component or, by extension, a negligible direct component
Annual Maintenance Period	AMP	means the period during which it is more convenient to allocate the maintenance activities because the Demand is lower, energy flows are lower, and the adequacy is guaranteed with adequate margins.
Annual Operation Report		means the yearly report released in year Y on the facts and figures of the operation of the year Y-1.
Arab Grid Code or Arab Interconnection Grid Code	Code	means the technical procedures for the planning and operation of the PAEM. The terms "Arab Grid Code" and "Arab Interconnection Grid Code" are equivalent.
Arab TSOs Committee		means the entity that is responsible for coordination and cooperation among the national TSOs, the National Market Facilitators, the Regional TSOs / Market Facilitators and the Regional Market Facilitator, and other responsibilities as outlined in Section 3.5 of the General Agreement.
Synchronous Area Adequacy Coordinator		Elected TSO for each Synchronous Area acting as Area Coordinator of Planning of a Synchronous Area.
ACE Average Zero		Average time interval between two consecutive zero crossing of
Crossing Period	4.05	ACE of a Control Area.
Area Control Error	ACE	The sum of the power control error (' Δ P'), that is the real-time difference between the measured actual real-time power interchange value ('P') and the control program ('P0') of a specific LFC area or LFC block and the frequency control error ('K* Δ f'), that is the product of the K-factor and the frequency deviation of that specific LFC area or LFC block, where the area control error equals Δ P+K* Δ f.
Area Coordinator of	ACOP	Elected TSO members for each Synchronous Area acting as
Planning Area Group	AG	coordinator of the planning in the related Synchronous Area. Group under coordination of the WG4, tasked to perform market
Area Group	AU	studies and other activities inherent a Synchronous Area.

Asynchronous Area		means a portion of the PAEM Electricity System covered by
Auction		asynchronously or not interconnected national TSOs. means the process by which long-term cross-zonal capacity is
A (1 C 151 (1		offered and allocated to PAEM Participants who submit bids.
Auction Specifications		means a list of specific characteristics of an Auction, including the nature of offered products and relevant dates.
Auction Tool		means the ICT system used by the Regional Market Facilitator to
Adelion 1001		perform Auctions and to facilitate other procedures described in
		the Allocation Rules.
Automatic Generation	AGC	means a system for adjusting the power output of multiple Power-
Control		Generating Modules at different Power-Generating Facilities, in
A	4) (5)	response to changes in the Demand.
Automatic Voltage	AVR	means the continuously acting automatic equipment controlling the terminal voltage of a Synchronous Power-Generating Module
Regulator'		by comparing the actual terminal voltage with a reference value
		and controlling the output of an Excitation Control System.
Available Transfer	ATC	means the part of NTC [MW], that remains available after each
Capacity		phase of the Allocation Process for further commercial activity.
Average Network		Network Power Frequency Characteristic calculated in average over
Power Frequency		a given validity period.
Characteristic		
Balancing		means the act of maintaining a balance between electricity
Bank Guarantee		Demand and supply on a moment-to-moment basis. means an unconditional and irrevocable standby letter of credit or
Dalik Gudidillee		letter of guarantee issued by a bank.
Base Case		means set of data, common for all Member States, used for Grid
		analysis and needed to simulate cross-border exchange. The set of
		data includes, for a certain point in time, the expected Operating
	223	Conditions of the whole Electricity System, with the Grid Model and
800		input data describing load and Generation patterns forecast and
	D.C.	Grid topology at the study time frame (yearly, monthly and daily).
Base Case Exchange Best Effort	BCE	means the initial transaction value under the Base Case.
Best Emort		means, for any action required to be made, attempted or taken by a Party, all necessary efforts that a prudent person would or ought
	- 31	to undertake to protect its own interests, including commercial
1/26 11	9 7//	interests, taking into account the conditions affecting such action,
6 M 18 1	75	including the amount of notice to act, recognition of the need to
We cold	2//	act, the duration and type of the action, the competitive
		environment in which such action occurs, and the projected benefit,
		cost and risk to the Party required to take such action; provided, however, Best Efforts shall always be interpreted to take into
		consideration the rights and obligations of the Parties under this
		Code, the General Agreement, and the PAEM Agreement.
Bid		means a pair of Bid Quantity and Bid Price offered by a Registered
		Participant participating in an Auction.
Bid Price		means the price which a Registered Participant is willing to pay for
Bid Ougetite		one (1) MW and hour of Long-Term Transmission Rights.
Bid Quantity		means the amount of Long-Term Transmission Rights in MW requested by a Registered Participant.
Bidding Period		means the time period within which the Registered Participants
		wishing to participate in an Auction may submit their Bids.
Bidding Zone		means a case of Trading Zone in case of regulated market regimes,
-		where competitive energy and Ancillary Service markets are
		regulated by Auctions.
Bilateral Contract		means an agreement between two PAEM Participants to trade a
	1	specified quantity of Transfer Capacity, energy or System Service at prices determined by the Parties to the agreement.
Bilateral Data Exchange		Data Exchange between two Parties only.
Blackout State		it has the meaning given to it in Article OC 3.3.4 of the Operation
		Code.
Black Start Capability		means the capability of a Power-Generating Facility to start without
. ,	1	an outside electrical supply to be used to energize a defined portion
		of the Grid.
Block Coordinator		it has the meaning given to it in Paragraph SDC 4.1.1.8 of the
		Scheduling & Dispatching Code.

Pottom-up		means the strategy for reportaining one or more Electricity Systems
Bottom-up		means the strategy for reenergizing one or more Electricity Systems in black-out status by managing the process with internal resources from black start and counting on the regulating capabilities of the internal resources.
Business Account		means a dedicated deposit account opened by the Regional Market Facilitator at the financial institution selected by the Regional Market Facilitator in the name of the Regional Market Facilitator, which may not be used for payments by the Registered Participant.
Buyer		means a PAEM Participant that purchases capacity, energy or a System Service under a Bilateral Contract or a Multilateral Contract.
Capacity Agreement Identification	CAI	means unique code assigned to each Physical Transmission Right by Auction Tool during the Auction. The identification code is used also when the use of the Physical Transmission Right is nominated to TSOs.
Capacity Obligation		means the requirement of this General Agreement that each Member State maintains a level of generating capacity over and above its annual peak electricity demand.
Central Database		it has the meaning given to it in Section PC 3.1 of the Planning Code.
Check Meter		means a Meter used for validation and estimation for settlement purposes in accordance with the VEE Process.
Clusters		means a group of investments to be considered to reach a given goal. Clustering is recommended when: 1. Investments are in the same area or along the same transmission corridor; 2. They can achieve a common measurable goal; 3. They belong to a general plan for that area or corridor.
Code		means each single portion of codes of the Arab Grid Code.
Codes of Practice		means a document that complements laws and regulations and provide detailed practical guidance on how to comply with legal obligations and should be followed unless another solution with the same or better solution is in place. Commonly developed and agreed Codes of Practice are advised to be derived and supported across the PAEM member states.
Cold Standby Reserve	7 <i>4</i>	means the Reserve from Power-Generating Modules or equivalent power resources made available after their connection to the Transmission System and full operation.
Comitology	3	means the process put in place to gather the maximum of consensus in decisions of interest in common.
Common Grid Model		Merger of Individual Grid Models in a way that flows on the tie lines are consistent with the cross-border Energy Transfers.
Common Database		means a repository of Common Information functional to the planning process.
Common Information		Data set resulting from merging or aggregating shared Individual Information and all derived data.
Compensation Program		means the compensation of inadvertent deviations from a schedule. It is performed by exporting to/ importing from the interconnected Electricity System during the compensation period by means of schedules of constant power within the same tariff periods as when they occurred.
Compensation Program Schedule		means a schedule representing the exchange of electricity of TSOs related to a Compensation Program.
Compliance Monitoring Process	СМР	means an inter TSO process, inspired to the quality assurance process that ensures that an activity complies with the prescriptions of the Operation Code.
Confidentiality Agreement		it has the meaning given to it in Chapter GC 11 of the General Condition
Confidential		means any Information acquired by a Member State related to the
Information or		business, finances, assets or affairs of another Member State as
Confidential Data		more specifically defined in Chapter 10 of the General Agreement.
Congestion		means a situation that occurs on a Transmission System when flows on transmission lines and equipment exceed the Transfer Capacity.
Connection Agreement		means a detailed document, one for each cross-border International Interconnection, specifying agreements on the management of the International Interconnection itself.

Connection Code	СС	means the Code that aims at governing the technical conditions for
Connection Code		the access of Power-Generating Facilities and HVDC Systems to the
		Grids of the Member States. The aim is to promote the correct
		functioning and safety of the PAEM Electricity System.
Connection Point		means the interface at which a Facility is connected to a
		Transmission System, offshore Network, Distribution System,
		including closed Distribution Systems, or HVDC System.
Contingency List		The list of contingencies (Outages) to be simulated in order to test
		the compliance with the SoO and assess the N-1 security. More specifically, it is the list of Elements of the Relevant Grid or Power-
		Generating Modules or Demand Facilities whose outage one at the
		time should not cause cascading effects if the countermeasures
		considered in the Remedial Actions are applied.
Contribution Factor	Ci	Factor to determine the share of Primary Reserve to which a Control
		Area shall contribute respect to the total amount needed in the
		Synchronous Area where the Control Area belongs to. Is calculated
		as the ratio between the energy produced in a Control Area and
		the total energy produced in the Synchronous Area.
Control Program		means the matched set of all exchange program related to a
		defined area (e.g. Control Area, Control Block) and the program for
		the compensation of Unintentional Deviations.
Coordination Center		means the composition of several LFC Blocks under the
Zone Coordination Center		responsibility of the same Coordination Center Zone Operator. means the person designated by one or more Member States
Zone Operator		responsible for:
Zone Operator		a) The coordination of exchange programs between its
		related LFC Blocks and for the exchanges between its
(CO)	700	associated Coordination Center Zones.
		b) Ensuring that its LFC Blocks respect their obligations in
0.00		respect to LFC.
7.5.9.5		c) Calculating the time deviation in cooperation with the
1500		associated Coordination Center Zones.
	521	d) Carrying out the settlement and/or compensation between
W.		its LFC Blocks and against the other Coordination Center
\\ @. 65 H	531	Zones.
1125 H	J 1	Zories.
Corrective Maintenance	3//	means unplanned maintenance interventions needed to correct or
المالكة		improve the behavior of a piece of equipment, included
		interventions to repair after unexpected faults.
Credit Limit		means the amount of the collaterals which may be used to cover
		any Bid submission in subsequent Auctions and is not used for
		outstanding payment obligations.
Current Transformer	СТ	means type of transformer that is used to reduce or multiply an AC.
		It produces a current in its secondary which is proportional to the
Data Callegtion System	DCC	current in its primary.
Data Collection System	DCS	means the process of extracting Metering Data from a Metering Equipment and transferring such Metering Data into a remote
		Metering Database.
Data Exchange	-	means delivery and reception of data between at least two Parties.
saw Excitating		
	DEC	
Data Exchange Code	DEC	means the Code that defines the principles and regulates the Data
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Data Exchange Code Data Logger	DEC	means the Code that defines the principles and regulates the Data Exchange. means a device designed to be capable of reading and holding data until that data is collected. Means the pre-set array of countermeasures planned to cope with Exceptional and Out of Range Contingencies and limit the negative
Data Exchange Code Data Logger Defence Plan	DEC	means the Code that defines the principles and regulates the Data Exchange. means a device designed to be capable of reading and holding data until that data is collected. Means the pre-set array of countermeasures planned to cope with Exceptional and Out of Range Contingencies and limit the negative impact on the Electricity System.
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Data Exchange Code Data Logger Defence Plan		means the Code that defines the principles and regulates the Data Exchange. means a device designed to be capable of reading and holding data until that data is collected. Means the pre-set array of countermeasures planned to cope with Exceptional and Out of Range Contingencies and limit the negative impact on the Electricity System. means, the physical or virtual location at which overall accuracy compliance requirements as defined in the Metering Code are to be met. The DMP shall be defined in the relevant Connection Agreement. Each single circuit interconnection between TSOs will
Data Exchange Code Data Logger Defence Plan Defined Metering Point		means the Code that defines the principles and regulates the Data Exchange. means a device designed to be capable of reading and holding data until that data is collected. Means the pre-set array of countermeasures planned to cope with Exceptional and Out of Range Contingencies and limit the negative impact on the Electricity System. means, the physical or virtual location at which overall accuracy compliance requirements as defined in the Metering Code are to be met. The DMP shall be defined in the relevant Connection Agreement. Each single circuit interconnection between TSOs will have two DMPs, one with each TSO.
Data Exchange Code Data Logger Defence Plan		means the Code that defines the principles and regulates the Data Exchange. means a device designed to be capable of reading and holding data until that data is collected. Means the pre-set array of countermeasures planned to cope with Exceptional and Out of Range Contingencies and limit the negative impact on the Electricity System. means, the physical or virtual location at which overall accuracy compliance requirements as defined in the Metering Code are to be met. The DMP shall be defined in the relevant Connection Agreement. Each single circuit interconnection between TSOs will

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		megawatts, at a given instant or averaged over any designated interval of time.
Demand Facility or Load Facility		means a Facility which consumes electrical energy and is connected at one or more Connection Points to the Transmission System. A Distribution System and/or auxiliary supplies of a Power-Generating Module do not constitute a Demand Facility.
Demand Facility Owner		means a natural or legal entity owning a Demand Facility.
Demand Forecast		Activity in the framework of the Operational Planning Process for
		the evaluation of the expected values of Demand at Control Area level and for a certain future time horizon, associated to a given probability. Unless different specified, values are expressed on an hourly basis in MWh.
Demilitarized zone	DMZ	means a physical or logical subnet that separates an internal local area network from an external, or non-propriety, network. A DMZ serves as a front-line network that interacts directly with the external networks while logically separating it from the internal network. The external-facing servers, resources and services are in the DMZ, that are accessible from the internet, but the rest of the internal local area network remains unreachable.
Direct Current	DC	means electric current that is time-independent or, by extension, periodic current the direct component of which is of primary importance.
Disclosing Party		means a Party delivering data.
Dispatch Period		means a period of one (1) hour, commencing at the beginning of an hour, by reference to which Actual Energy Transfers and Scheduled Energy Transfers are determined.
Dispute	700	it has the meaning given to it in Chapter GC 8 of the General Condition.
Distributed Generation		means electric power Generation within a Distribution System or on the customer side of the Distribution System.
Distribution System	3 3 3	means a system that is directly connected to the Grid for distribution of electricity – that is the transport of electricity on high-voltage, medium-voltage and low-voltage Distribution Systems with a view to its delivery to customers, but does not include supply –, and includes any structures, equipment or other components used for that purpose.
Distribution System Operator	DSO	means the person designated by one or more Member States to perform operations on the Distribution System.
Dollar		means the lawful currency of the United States of America.
Dynamic Security Assessment	DSA	means a computer-based tools to simulate on-line and off-line the behavior of the Electricity System. It includes the angle, frequency and Voltage stability and the analysis of synchro phasor recordings.
Downward Reserve		means the capacity to decrease the Generation till the minimal technical output of the Power-Generating Facilities. The available reserve is the difference between the cumulated minimum technical output of Power-Generating Facilities and the Demand.
Earthing		means the application of a solid connection between a Facility, previously Isolated, and the ground to be operated, kept and cleared according to the Safety Precautions adopted in compliance with the Code in force at the involved TSO.
Elements		means lines, transformers, phase shifters, series capacitors, shunt compensators.
Energy Identification Code	EIC	means a character code used in the PAEM identifying the Parties in the cross-border trading system.
Electricity System		means the Integrated Power System and the Facilities connected to that system.
Emergency or Emergency State		means any abnormal system condition that requires Remedial Action to prevent or limit loss of a Transmission System or Generation supply that could adversely affect the reliability of the Electricity System.
Energy Management System	EMS	means the system of computer-aided tools used by national TSOs to monitor, control and optimize the performance of the Electricity System.
Energy Transfer		means a transfer of electricity between two Transmission Systems.
Euro		means the official currency of the European Union.

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Evaluation Tools	ET	mean the computer-based products whose algorithms are agreed and qualified to perform simulations and computations in all the processes needed for the operation of the PAEM and described in the Arab Grid Code.
Exceptional		It has the meaning given to it in Paragraph OC 3.3.3.4 of the
Contingency		Operation Code.
Expected Energy Not	EENS	Yearly total energy not served due to faults in the Electricity System
Served		and/or lack of Generation capacity.
Expert Group	EG	means the group under coordination of the WG4, tasked to perform centralized market studies.
Explicit Allocation		The Allocation of cross zonal Transfer Capacity only, without the Energy Transfer.
Excitation Control System		means a feedback control system that includes the synchronous machine and its excitation system.
External Data Exchange		Data Exchange, involving a Non-TSO or a Non-PAEM TSO.
External TSO Schedule		a schedule representing the exchange of electricity of TSOs
External 150 Schedule		between different Scheduling Areas.
Facility		means a Power-Generating Facility, a Demand Facility, a Network,
•		an HVDC System, or any other equipment that is a component or part of the PAEM Electricity System.
Facility Owner		means a natural or legal entity owning a Facility.
Fast Fault Current		means a current injected by an Inverter-based Power Generating Module or HVDC System during and after a voltage deviation caused by an electrical fault with the aim of identifying a fault by the protection systems of the Transmission System at the initial stage of the fault, supporting system voltage retention at a later stage of the fault and system voltage restoration after fault
Fault Locator	223	clearance. means a device to localize the distance of a short circuit from one
Fault-Ride-Through		end of a line of the Transmission System. means the capability of electrical devices to be able to remain
rauit-Ride-Tillough	R	connected to the Network and operate through periods of low voltage at the Connection Point caused by secured faults.
Final Notice of Dispute	53	it has the meaning given to it in Chapter GC 8 of the General Condition
Financial Transmission Right	FTR	 A type of Long-Term Transmission Right and is either: A right entitling its holder to receive or obliging its holder to pay a financial remuneration based on the market results between two Bidding Zones during a specified period in a specific direction. A right entitling its holder to receive a financial remuneration based on the market results between two Bidding Zones during a specified period in a specific direction.
Flexible Alternating Current Transmission System	FACTS	means static power-electronic devices installed in AC Transmission Systems to increase power transfer capability, stability, and controllability of the Networks through series and/or shunt compensation.
Force Majeure Event		means, in relation to a person, any event or circumstance, or combination of events or circumstances, (i) that is beyond the reasonable control of the person; (ii) that adversely affects the performance by the person of its obligations under this General Agreement; and (iii) the adverse effects of which could not have been foreseen and prevented, overcome, remedied or mitigated in whole or in part by the person through the exercise of diligence and reasonable care and may include, but is not limited to, acts of war (whether declared or undeclared), invasion, armed conflict or act of a foreign enemy, blockade, embargo, revolution, riot, insurrection, civil disobedience or disturbances, vandalism or act of terrorism; strikes, lockouts, restrictive work practices or other labor disturbances; unlawful arrests or restraints by governments or governmental, administrative or regulatory agencies or authorities; orders, regulations or restrictions imposed by governments or

Forced Outage Forward Capacity Allocation Frequency Leader Frequency Response Deadband Frequency Response Insensitivity		governmental, administrative or regulatory agencies or authorities unless the result of a violation by the person of a permit, license or other authorization or of any applicable law; and extreme acts of nature including lightning, earthquake, fire, flood, landslide, unusually heavy or prolonged rain or lack of water arising from weather or environmental problems; provided however, for greater certainty, that the lack, insufficiency or non-availability of funds shall not constitute a Force Majeure Event. means a shutdown condition of a power station, transmission line or distribution line when the generating unit is unavailable to produce power due to unexpected breakdown. The attribution of long-term cross-zonal capacity through an Auction before the day-ahead timeframe. means the TSO in charge of the coordination for the frequency management within a Synchronous Area. means an interval used <i>intentionally</i> to make the frequency control unresponsive. means the feature of the control system specified as the smallest absolute magnitude of change in the frequency or input signal that
ŕ		can be detected by the measurement and then results in a change of output power or output signal. This interval is an inherent technological feature of the control system, and, contrary to the Frequency Response Deadband, it is <i>unintentional</i> .
Frequency Sensitive Mode	FSM	means the operating mode of a Power-Generating Module or HVDC System in which the active power output changes in response to a change in system frequency, in such a way that it assists with the recovery to target frequency.
GCC		means Gulf Cooperation Council countries being Saudi Arabia, Bahrain, Kuwait, Qatar, UAE and Oman.
GCCIA	03	means GCC Interconnection Authority.
General Agreement	GA	means the agreement between Member States that defines the objectives of the PAEM, the guiding principles for development of the market, the formation of, and roles and responsibilities of the PAEM Governing Institutions.
Generation		means the rate at which electric energy is produced and supplied to the Network by a Facility or part of a Facility, generally expressed in kilowatts or megawatts, at a given instant or averaged over any designated interval of time. The term Generation Fleet refers to all the Power-Generating Facilities installed and available on the territory of a Member State.
Good Utility Practice		means any of the practices, methods and acts engaged in or approved by a significant portion of the international electric utility industry during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted internationally.
Governing Institutions		means the Regional Market Facilitator, the national TSOs, the Arab TSOs Committee and the Pan-Arab ARC.
Grid		means a Transmission System with respect to which a national TSO or Regional TSO has authority to direct operations.
Grid Model		means a mathematical model describing the physical nodes and the connecting elements with associated voltages, angles injections at the nodes whose values are consistent with physical constraints of the Grid.
Grid Owner	GO	means the entity inside each TSO or separated, owner of the Grid or portion of them subject to public service obligations. The Grid Owner is responsible of the Long-Term Planning and development of the national Grids and the International Interconnections.
Grid User		means a natural or legal Person supplying to, or being supplied by, a Grid.

Gross Domestic Product	GDP	means the indicator, which quantifies the total value of goods produced and services provided in a country during one (1) year.
Human Machine Interface	НМІ	means the user interface that connects a physical operator to the controller for an industrial system.
HVAC System	HVAC	means a transmission technology that transfers energy in the form
LIV/DC Conventor Station		of high-voltage alternating current (AC).
HVDC Converter Station		means part of an HVDC System which consists of one or more HVDC Converter Units installed in a single location together with
		buildings, reactors, filters, reactive power devices, control,
		monitoring, protective, measuring and auxiliary equipment
HVDC Converter Station		means a natural or legal entity owning a HVDC Converter Station.
Owner HVDC Converter Unit		means a unit comprising one or more converter bridges, together
HVDC Converter Onit		with one or more converter transformers, reactors, converter unit
		control equipment, essential protective and switching devices and
		auxiliaries, if any, used for the conversion.
HVDC Interface Point		means a point at which HVDC System equipment is connected to an
		AC Transmission System, at which technical specifications affecting
HVDC Link		the performance of the equipment can be prescribed. means the overhead line of the HVDC System.
HVDC System		means an electrical power system which transfers energy in the
,		form of high-voltage direct current (DC) between two or more
		alternating current (AC) buses and comprises at least two HVDC
		Converter Stations with DC transmission lines or cables between the
HVDC System Maximum		HVDC Converter Stations. means the highest phase current, associated with an operating
Current		point inside the U-Q/Pmax-profile of the HVDC Converter Station at
		maximum continuous active power which an HVDC system can
		exchange with the Transmission System at each Connection Point as
1 200		agreed between the relevant national TSO and the HVDC System
LIV/DC Systems Overson		Owner
HVDC System Owner Individual Grid Models		means a natural or legal entity owning a HVDC System. means a mathematical model of a Grid in load flow format, where
marriada dila models	500	the cross-border Energy Transfers are represented as equivalent
(e es	-31	Networks. Individual means limited to a Control Area.
Individual Information	J.J.	means data belonging to one TSO.
Individual Database	3//	means a repository of Individual Information functional to the
Information		planning process. the term includes, but is not limited to, technical, financial,
information		commercial and Operational Data in whatever form (whether
		written, electronically or by any other means) related to one specific
		Operational TSO Business.
Information	ICT	means all the technology used to handle telecommunications,
Communication Technology		broadcast media, intelligent management systems, audiovisual processing and communication transmission systems, and network-
recimology		based control and monitoring functions.
Instrument Transformer		means an electrical transformer in which the current or voltage
		being measured acts on the primary winding of the transformer the
		secondary (step-down) winding is connected to measuring
Integrated Power		instruments or protective relays. means the Grid and the structures, equipment and other
System		components that connect the Grid with Distribution Systems.
Intelligent Electronic	IED	means a device designed and built in numerical technology.
Device		
Interchange Point	IP	means a location where power flows from one Control Area to another Control Area.
Interconnected Member		means a Member State that is connected directly or indirectly, or
State		has a connection under construction, with another member of the
		PAEM.
Interconnection		means the capability of an Electricity System to maximize the
Capability		Energy Transfers. To this purpose contribute tie HVAC Systems,
International		HVDC Systems, enhanced protection systems, processes. means a transmission line (and supporting transmission facilities) or
International		HVDC System or other electrical Elements that traverses an
		international border to exchange electricity.

Inventor based Device	I	manne a unit av sat of installations which can generate electrical
Inverter-based Power- Generating Modules		means a unit or set of installations which can generate electrical energy, which is either non-synchronously connected to the Network or connected through power electronics, and that also has a single Connection Point to a Transmission System, Distribution System including closed Distribution System or HVDC System.
Island		means the whole or part of a Grid that is disconnected from the interconnected PAEM Electricity System, having at least one Power-Generating Module or HVDC System supplying power to this disconnected Network and controlling the frequency and voltage. The terms "Islanded" and "Islanding" shall be construed accordingly.
Isolated Systems		means a Member State that is not connected directly or indirectly, or has a connection under construction, with another member of the PAEM at the time of signing of the General Agreement.
Isolation		means the disconnection of a Facility from the Transmission System, to be operated, kept and cleared according to the Safety Precautions adopted in compliance with the Code in force at the involved TSO.
K-Factor	Ki	means a factor used to calculate the frequency bias component of the ACE of a LFC Area or a LFC Block.
Key Performance Indicator	KPI	means an index conventionally assumed to measure a given performance.
League of Arab States	LAS	means the League of Arab States.
Limited Frequency	LFSM-O	means a Power-Generating Module or HVDC System operating
Sensitive Mode –		mode which will result in active power output reduction in response
Overfrequency	LFSM-U	to a change in system frequency above a certain value.
Limited Frequency Sensitive Mode –	LFSIVI-U	means a Power-Generating Module or HVDC System operating mode which will result in active power output increase in response
Underfrequency	200	to a change in system frequency below a certain value.
Load Frequency Control	LFC	means the Secondary Control adopted in interconnected Electricity
Load Frequency Control	75	Systems to restore the system frequency to the nominal value and the cross-border Energy Transfers to the Scheduled values.
Load-Frequency Control Area or Control Area	LFC Area or CA	means a part of a Synchronous Area or an entire Synchronous Area of the PAEM Electricity System, physically demarcated by points of measurement of interconnectors to other LFC Areas, operated by one or more TSOs fulfilling the obligations of LFC, and shall include connected physical Demand Facility and/or Power-Generating
Load-Frequency Control Area Operator	LFC Area Operator	Facility if any. means the Person designated by one or more Member States responsible for: a) The coordination of exchange programs between its related Scheduling Areas and for the exchanges between its associated LFC Areas. b) The LFC for its own Control Area. c) The coordination of the correction of time deviations.
Load-Frequency Control Block or Control Block	LFC Block or CB	means a part of a Synchronous Area or an entire Synchronous Area, physically demarcated by points of measurement of interconnectors to other LFC Blocks, consisting of one or more LFC Areas, operated by one or more TSOs fulfilling the obligations of LFC.
Load-Frequency Control Block Operator	LFC Block Operator	means the person designated by one or more Member States responsible for: a) The LFC within its own Control Block and ensuring that its load-frequency Control Areas respect their obligations in respect to LFC and time deviation. b) The organization of the settlement and/or compensation between its LFC Areas.
Load-rejection		means the sequence of automatic maneuvering actions of Power-Generating Modules activated by the opening of the switch of a Module due to faults occurred on the external Transmission System. The logic of Load-rejection has the purpose of adjusting the speed of the group to values close to the nominal one and reduce, or eliminate, fuel supply to adjust the power produced to that of the

		auxiliary services of power plant (i.e. trip the Module to household) and thus allowing the rapid re-synchronization of the Module.
Load Shedding		means, in general term, the action to interrupt the electricity supply to a Demand Facility, and it includes the UfLS, UVLD and manual Load Shedding.
Long-Term Planning		means the planning activity in which the modification of the assets (added new or decommissioned old) to adapt an Electricity System to the future energy needs.
Long-Term Transmission Right		means a Physical Transmission Right or a Financial Transmission Right acquired in the Forward Capacity Allocation
Loss of Load Expectation	LOLE	means, for a given area under the control of a TSO, the number of days per year when the available source capacity is insufficient to serve the load.
Loss of Load Probability	LOLP	means, for a given area under the control of a TSO, the probability that hourly demand exceeds the resource capacity.
MAGHREB		means the Member States located is the western part of the Pan- Arab region: Morocco, Algeria, Libya, Tunisia and Mauritania.
Main Meter		means the Meter when is to be differentiated from the Check Meter.
Maintenance Plan		means the set of maintenance works aiming at given levels of reliability and preservation of the assets generating the Unavailability Plan.
Marginal Price		means the price determined at particular Auction to be paid by all the Registered Participants for each MW and hour of acquired Long-Term Transmission Right.
Market Monitoring		means the committee established by the Pan-Arab ARC within the
Group Market Secretariat		Market Secretariat to monitor operation of the PAEM. means the administrative body of that name established by Pan-
		Arab ARC to serve the PAEM, which shall be temporary within the LAS secretariat. The Pan-Arab ARC may, in the future, attach it to the Regional Market Facilitator or any suitable entity, while considering the importance of maintenance of technical and administrative independence of Market Monitoring Group defined in the GA, if decided to be merged with Regional Market facilitator or any other operating body.
MASHREQ		means the Member States located is the eastern part of the Pan- Arab region, located in Western Asia and eastern North Africa, namely: Egypt, Iraq, Jordan, Lebanon, Palestine, Syria.
Master Plan or Planning Statement	MP	It is the result of the planning process concerning the expansion plan for Generation and transmission, including reserve margins, in a horizon as the shortest available, but not less than 5 years, with 2-years rolling frequency.
Max Instantaneous Frequency Deviation		means the maximum expected absolute instantaneous frequency deviation after the occurrence of an imbalance equal or less than the Reference Incident, beyond which emergency measures are activated.
Max Steady State Frequency Deviation		means the maximum expected frequency deviation after the occurrence of an imbalance equal or less than the Reference Incident at which the System Frequency is designed to be stabilized.
Member States		means all Arab states that are signatories to the General Agreement and taking part in the PAEM.
Merchant Line		means an International Interconnection line financed by Party different from Member State/TSOs in which this infrastructure is installed and build up to increase the market competition. The use of this transmission capacity shall be made in accordance with current law.
Meter		means a device that measures, or in the case of Check Meter calculates, and records active energy, reactive energy or both and shall be deemed to include the Data Logger but to exclude the Instrument Transformers. The term Metering and its derivatives are defined accordingly.
Meter Information Register		means the detailed data records for the Metering Database under the responsibility of the TSO and to be shared and maintained with the Market Secretariat.

Motoring Code	МС	manns the Code that outlies common principles and specifies
Metering Code	MC	means the Code that outlies common principles, and specifies minimum technical and design requirements, as well as establishing the basic rules around the data collection for the TSOs and other actors in the PAEM.
Metering Data		means electrical quantities measured and recorded by a Metering Equipment.
Metering Database		means an information system established and maintained by the national TSOs and the Regional Market Facilitator for the purpose of storing Metering Data.
Metering Equipment		means any apparatus used to measure electrical quantities and includes the communication system by which Metering Data are transferred to the relevant telecommunications network through which Metering Data are transferred to the communication interface of the Metering Database. It includes Meter, Current Transformer, Voltage Transformer, and installations.
Minimum Network Power Frequency Characteristic		means the minimum Network Power Frequency Characteristic of an area.
Ministerial Council or Arab Ministerial Council for Electricity		includes the Ministers responsible for electricity in the Arab countries which has ultimate approval authority over most aspects of the PAEM
Multilateral Data Exchange		means Data Exchange among more than two Parties.
Multilateral Contract		means an agreement between more than two PAEM Participants to trade a specified quantity of capacity, energy or System Service at prices determined by the Parties to the agreement.
National Annual Unavailability Plan	NAUP	means the Unavailability Plan at each TSO level.
National Control Center		Set of plants intended for the control and operation of a Grid or of a user of the Electricity System (other than a Power-Generating Facility).
National Development Plan	NDP	means the development plan of Grid expansion and Generation at national or TSO level.
National Grid Code	30 J	means the technical procedures for the planning and operation of each single Electricity System of the Member States.
National Market Facilitator	3//	means the person designated by a Member State to perform national Electricity market operation and management duties.
National Regulator		means the person responsible in each Member State for regulating the power sector of that Member State; where there is a person vested with specific responsibilities for such regulation, and in all other cases means the governmental department in a Member State with administrative responsibility for the power sector.
Net Transfer Capacity	NTC	means the maximum exchange [MW] programmed between two Control Areas compatible with security standards applicable in both areas and considering the technical uncertainties on future conditions of the interconnected Electricity Systems. It is calculated as the Total Transfer Capacity minus the Transmission Reliability Margin.
Netted Area Position		The netted aggregation of all AC and DC external schedules of an area.
Network		means a connected plant and apparatus in order to transmit or distribute electricity. Based on international practice and IEC-EN standards¹, the following nominal voltage levels are defined for Networks: • Low-Voltage (LV): ≤ I kV • Medium-Voltage (MV): ≤ 35 kV • High-Voltage (HV): ≤ 230 kV • Extra-High-Voltage (EHV): ≤ 800 kV • Ultra-High-Voltage (UHV): ≥ 800 kV

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¹ EN 50110-1 / EN 50160 / EN 60038 / IEC 60071-1 / EN 61936-1

Network Power		means an imbalance in MW needed to cause a change of frequency		
Frequency Characteristic		of 1 Hz around the nominal frequency.		
Network System for the		it has the meaning given to it in Chapter CC 3 of the Connection		
Connection		Code		
Nominal Power or		means the maximum active power that a Power-Generating		
Generation Capacity		Module, Generation station or other electrical apparatus can supply, usually expressed in megawatt.		
Nomination		means the data concerning a Bilateral Contract that a Seller or Buyer provides to the Regional Market Facilitator for purposes of dispatch and settlement, including the quantity of energy, in MWh, that a Seller is selling to a Buyer at a specified location and in a specified hour.		
Nomination Rules		means the rules regarding the notification of use of long-term		
		cross-zonal Transfer Capacity by a Physical Transmission Rights holder and their counterparty, or an authorized third party, to the respective TSOs.		
Non-PAEM Data		means data belonging either to a Non-PAEM TSO or to a Non-TSO.		
Non-PAEM TSO		means a TSO which is not a member of PAEM.		
Non-TSO		means a legal entity not dealing with Operational TSO Business including: market players, DSOs, producers, power exchanges, traders, consumers, authorities, governments, regulators, Arab institutions, courts and tribunals.		
Normal Contingency		It has the meaning given to it in Paragraph OC 3.3.3.3 of the Operation Code.		
Normal State		means a situation in which the Electricity System is within operational security limits in the N-situation and after the		
- APAG		occurrence of any contingency from the Contingency List, considering the effect of the available Remedial Actions.		
Notice in Response	50	it has the meaning given to it in Chapter GC 8 of the General Condition		
Notice of Dispute		it has the meaning given to it in Chapter GC 8 of the General Condition		
Observability Area	3	means a TSO's own Grid and the relevant parts of Distribution Systems and neighboring TSOs' Grids, on which the TSO implements real-time monitoring and modelling to maintain operational security in its Control Area.		
Operational TSO Business		means real-time, periodical and on request tasks performed for Grid Operational Planning, forecast, operation and analysis, that require exchange of data which, or a part of which, is necessary to carry out their work properly.		
On-request Data Exchange		Data Exchange which is usually carried out to support a single analysis or report on operational or security aspects.		
Operating Condition or System State		means the set of values of voltage, current, frequency and other parameters characterizing the quality of operation of any Facility connected to the Transmission System of the same Synchronous Area.		
Operating Regulation Document		means a regulation agreed and signed between a Facility Owner and the relevant TSO in order to define the respective responsibilities in the context of the operation and control of the functional portions of the Relevant Grid.		
Operational Limit		means the set of maximum and minimum values of voltage, current, frequency and other parameters characterizing the quality of Operation of any Facility connected to the Transmission System.		
Operational Planning		Planning the matching of the Generation capacity with the forecast Demand, including Reserve margins and taking account the unavailability of Power-Generating Facilities and the Elements of the Grid across various time scales.		
Operational Planning Process	OPP	Structured process for the coordination of the Operational Planning.		
Operation Security Standard	OSS	means a set of security criteria that each TSO shall adopt to operate its Electricity System in normal condition and in case of contingencies.		
Operation Code	OC	means the Code that aims at defining and governing the rules for supervisory and controlling the International Interconnections in the Pan Arab Region. It does not deal with the Physical Operation		

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ED used to estimate the magnitude and phase angle of al phasor quantity (such as voltage or current) in a
n or other private or public corporate body, any at agency and any other entity or body or class of entity esignated by law as coming within the definition of the son".
kly, monthly, yearly or seasonally). ly company, partnership, trust, joint venture, association,
nge which is carried out on a periodic basis (e.g. hourly,
referred to individually as Party or collectively as Parties meaning given to it in Chapter GC 8 of the General
pacity as contained in these Allocation Rules. Regional Market Facilitator and/or a Registered
agreement, by which the Parties undertake to comply erms and conditions for allocation of the cross zonal
announced by which the Bertine Co. L. C. C.
agreement governing the commercial aspects of the
agreement governing the commercial aspects of the
s and operates under the responsibility of the TSOs and ement of the relevant Coordination Center Zone.
twork dedicated to Data Exchange between electricity
oversight of the PAEM.
, as specified in the GA. entity that is responsible for providing advisory and
regional electricity market regulated by the governance
establishes the Pan Arab settlement report for the ling Pan Arab area
ol Block Operator or the Control Area Operator, who the accounting point data and all relevant scheduling
role played by the Coordination Center Zone Operator,
erson who is duly authorized to participate in the PAEM
Regional Market Facilitator, the Arab TSOs Committee n-Arab ARC.
integration of the Electricity Systems of the Member
to a group of TSOs or to the PAEM.
to the Reference Incident. for the purposes of the Data Exchange, belonging either
imum power for Primary control subjected to agreement
n (Primary Control of all the Generation Fleet, self-of Load).
Network Power Frequency Characteristic including all
meaning given to it in Paragraph OC 3.3.3.5 of the Code.
n in performance of equipment for any reason including, ited to, permitting the performance of inspections, tests on equipment, and will include a Planned Outage and a lage.
removal of equipment from service, unavailability for of equipment or temporary de-rating, restriction of use,
s, research institutions, consultants, manufacturers, g offices, departments or companies of vertically companies or groups not dealing with Operational TSO
pshots, reference data sets, LFC data, frequency data, frequency measurement campaign data, data on nanges as well as real-time measurements.
tricity Systems (e.g. switching) and the administration of functional Operation or simply Operation refers to the he Operation Code. The term Operational is defined /.
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		within the Product Period in which cross boarder Transfer Capacities with a reduced amount of MW are offered taking into account a foreseen specific network situation such as planned maintenance, long-term Outages, foreseen balancing problems.
Record of Inter System Safety Precautions Reduction Period	RISSP	means written record of inter-system safety precautions to be compiled in accordance with the provisions of National Grid Codes. means a period of time, i.e. specific calendar days and/or hours,
Exchange Receiving Party		system, done also on request e.g. after a change of status or value. means a Party receiving data.
Real-Time Data		document or Information on the website of the Market Secretariat, the Regional Market Facilitator or the Pan-Arab ARC, and publication shall be interpreted accordingly. means Data Exchange which describes a current situation in the
Publish		International Interconnections among Member States to increase the Energy Transfer and the SoS. means, in respect of a document or Information, to place that
Maintenance Project		reliability levels. It includes mainly periodic maintenance according to the manufacturers' instructions and maintenance interventions prescribed by law that can be scheduled in advance. means a project for the development of one or more cross-border
Product Period Preventive Scheduled		means the time and date on which the right to use the Long-Term Transmission Right commences and the time and date on which the right to use the Long-Term Transmission Right ends. means the maintenance interventions for keeping adequate
Primary Reserve or Frequency Containment Reserve		means the Reserve available to contain the frequency deviation after an unbalance in the Electricity System.
Primary control time	[sec]	means the time in which the resources available for Primary Control are completely supplied (in MW).
Primary Control	53	oscillations. means centralized automatic function to regulate the Generation based on Primary Reserves.
Power System Stabilizer	PSS	means an additional functionality of the AVR of a Synchronous Power-Generating Module whose purpose is to damp power
Power-Generating Module	Module	means either a Synchronous Power-Generating Module or an Inverter-based Power-Generating Module.
Power-Generating Facility Owner		means a natural or legal entity owning a Power-Generating Facility.
Power-Generating Facility		means a facility that converts primary energy into electrical energy and which consists of one or more Power-Generating Modules connected to a Network at one or more Connection Points.
Tower Condoi Error		power deviation of that area in interconnected operation, calculated as the difference between the total tie-line active power flow (sum of all related measurements) and the control program (sum of all related exchange schedules and the compensation programs).
Planning Statement Power Control Error		means a statement setting out the indicative expansion plan for Generation and transmission, including reserve margins. means, when referred to a Control Area/Control Block, the total
Planning Process Starting Date	PPSD	Date when the planning process formally starts.
Planning Methodology		of the PAEM Electricity System means a set of agreed rules for carrying out the planning activity in the Pan-Arab region area, whose final delivery is the Master Plan.
Planning Code	PC	means the Code that aims at defining and regulating the process for the Long-Term Planning of the International Interconnections
Planned Outages		performance, and all the activities requiring a closer contact with the assets. means an Outage that is planned and intentional.
Right Physical Operation		specific direction. means such part of Operation attaining switching and maintenance
Physical Transmission		A right entitling its holder to physically transfer a certain volume of electricity in a certain period between two Bidding Zones in a

means the maximum stepwise power deviation betweer Generation and Demand in a Synchronous Area in both positive and negative direction. Reference Value Means a numerical information on the value to give to a paramete according to common or Best Utility Practices. For the purpose of the Arab Grid Code, Reference Values are not binding unless agreed among the TSOs of the same Synchronous Area o Region. Region Region Region	Reference Incident		
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use in the market.			
	Restoration		The general process of restoring the normal functioning of an
Electricity System after a blackout or emergency status.			

Restoration Plan		means the structured sequence of actions to perform the Restoration.
Resynchronization Leader		means the TSO in charge of coordinating the Frequency Leaders during the resynchronization process of two adjacent TSOs and executing the resynchronization. The term Synchronization Leader is defined accordingly in case of first synchronization among two or more asynchronous Electricity system.
Rights Document		means a document containing the information of the maximum amount of allocated Physical Transmission Rights that can be nominated by a Registered Participant per Bidding Zone border per day per hour and per direction, taking into account the volume of Long-Term Transmission Rights initially acquired, the subsequent transfers and returns, and any possible curtailments which occurred before the issuance of the Rights Document.
Rolling Plan		means a plan with time horizon of 10 years, updated every 2 years.
Safety Precautions		means Earthing and Isolation.
Scenario		means an outlook of the future characterized by guiding indicators. A Scenario is not a prediction to which a probability is associated.
Scheduled Energy Transfer		means an Energy Transfer that has been scheduled to take place in accordance with the Arab Grid Code;
Scheduling & Dispatching Code	SDC	means the Code that defines and regulates the process for the joint determination of the Total Transfer Capacity (TTC) and the Net Transfer Capacity (NTC) on yearly, monthly and daily bases among the Member States.
Scheduling Area	SA	an area within which the TSOs obligations regarding scheduling apply due to operational or organizational needs.
Scheduling Area Exchange Document	SAX	means the data set representing the energy exchange agreed between two TSOs. The document is the input for the Verification Process. The following document of the exchange of Aggregated netted External TSO Schedule between two Scheduling Areas
Secondary Control	5)	means a centralized automatic function to regulate the Generation based on Secondary Reserves.
Secondary Reserve or Frequency Restoration Reserve	7 A	means the Reserve to restore the frequency to the nominal value in an Electricity System after the Primary Control has stabilized the frequency deviations.
Security of Operation	SoO	means the attitude of a system to accomplish its task with adequate reliability that is to be able to withstand the stresses of the system due to faults and to other external events.
Security of Supply	SoS	means the capability of a system to cover the Demand in each period and for a given area.
Security Policies		means policies concerning the implementation of the rules directly and indirectly affecting the approach of the Operation Code to the SoO and the SoS.
Seller		means a PAEM Participant who is selling capacity, energy or a System Service under a Bilateral Contract or a Multilateral Contract.
Snapshot		means the set of data and Information at a given instant of each Electricity System in terms of grid topology, nodal Generation injections, nodal voltages in magnitude and phases and nodal loads
Socio Economic Welfare	SEW	means a parameter representing the potentiality of developing cross-border trading in a competitive manner for the benefits of the consumers.
Spinning Reserve		means the Reserve from Power-Generating Modules or equivalent power resources working already synchronously with the Transmission System. The term Spinning is defined accordingly.
Standard Frequency Range		means a defined interval symmetrically around the nominal frequency within which the system frequency of a Synchronous
State Estimator		Area is supposed to be operated. means a computer-based application to reconstruct plausible missing remote measures from the field.
Status of a Project		means a generic term to indicate what is the maturity of a Project to evaluate the distance to its implementation. That is: 1. under consideration;

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		2. planned, but not yet in permitting;
		3. permitting;
		4. under construction;
		5. commissioned;
		6. cancelled.
Substation Automation	SAS	The secondary system installed in any substation providing
System		automation, monitoring, remote and local control and protection
		of the substation.
Supervisory Control and	SCADA	Computer based system to acquire measures and connections of the
Data Acquisition		Electricity System for control purposes.
Short-Circuit Current or		means the maximum current/power that a Network can supply to
Short-Circuit Power		equipment with a fault in it. It is expressed either in MVA or in
Chartage		effective kA for a given service voltage. means any situations in which, for any reason, the Demand cannot
Shortage		be met with the standard characteristics of SoS.
Synchronous Area		means a portion of the PAEM Electricity System covered by
Sylicili Ollous Area		synchronously interconnected national TSOs
Synchronous Power-		means an indivisible set of installations which can generate
Generating Module		electrical energy such that the frequency of the generated voltage,
		the generator speed and the frequency of Network voltage are in
		a constant ratio and thus in synchronism.
Synthetic Inertia		means the electronic facility provided by an Inverter-based Power-
		Generating Module or HVDC System to replace the effect of
		physical inertia of a Synchronous Power-Generating Module.
System Adequacy		means a sub process of the OPP aiming at predicting the SoS level
Forecast		in each time horizon. It includes the outlook for a given period on
		the coverage of the Demand of the Control Area – including the
	200	evaluation of risks of not satisfying it – and the amount of available
	26)	Reserve margins.
System Service or		means a service other than the production of energy and/or
Ancillary Service		provision of capacity, which is used to maintain reliability including
		reserves, frequency control, voltage control and Black Start
No section	525	Capability.
Tertiary Control	- =	means a centralized function to regulate the Generation based on
Tanting Discourse In	19 7/	Tertiary Reserves.
Tertiary Reserve or Replacement Reserve	2.5//	means the Reserves to be made available to restore the adequate
Testing Plan	5//	level of Secondary Reserve due to permanent causes of unbalances. means the plan set up by the TSOs to test and keep under control
resulig Flair		the compliance of the Grid Users with the requirements of the
		Operation Code.
Time to Recover		means, the maximum expected time after the occurrence of an
Frequency		imbalance (less than or equal to the Reference Incident) in which
,		the system frequency returns to the Maximum Steady State
		Frequency Deviation.
Time to Restore		means the maximum expected time after the occurrence of an
Frequency		imbalance (less than or equal to the Reference Incident) in which
, ,		the system frequency returns to the Standard Frequency Range.
Total Harmonic	THD	means ratio of the r.m.s. value of the harmonic content to the r.m.s.
Distortion		value of the fundamental component or the reference fundamental
		component of an alternating quantity.
Top-down		means the strategy for performing the Restoration consisting of
		reenergizing a given or more Electricity Systems in black-out status
		by means of an external source. In this Code, the external source is
Total Transfer Canadit	TTC	the Grid of an adjacent TSO.
Total Transfer Capacity	πα	means the maximum exchange [MW] programmed between two
		Control Areas compatible with operational security standards applicable at each Electricity System if future Grid conditions, the
		Generation and Demand patterns are perfectly known in advance.
Trading Zone		It is a portion of an Electricity System, where any form of market is
Trading Lone		organized, and a cost of the energy is formed.
Transfer Capacity		means, in general term, an exchange [MW] programmed between
		two Control Areas.
Transferee		it has the meaning given to it in SDC 3.7.2
Transferor		it has the meaning given to it in SDC 3.7.2
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Transmission Reliability Margin	TRM	means that amount of TTC necessary to ensure that the interconnected Transmission System is secure under a reasonable
3		range of uncertainties in system conditions.
Transmission System		means a system consisting of interconnected transmission lines, substations and related facilities for the purpose of transporting bulk power and energy. A threshold value Uthreshold [V] shall be defined, harmonized and adopted by Member States as the
		minimum value of operating voltage above which the Network is considered as Transmission System.
Transmission System Operator	TSO	means the person designated by one or more Member States to perform Transmission System(s) operations, dispatch for the relevant Electricity Systems and the International Interconnection at any voltage level. Unless noted otherwise, the terms refer to a "national" TSO.
Unavailability Coordination or Outage Coordination		It is a sub process of the Operational Planning Process. It means a structured process of inter TSO coordination to synchronize the proposed unavailability and optimize time and duration of an unavailability.
Unavailability Plan		means an optimized schedule of unavailability of Elements of the Grid and Power-Generating Facilities.
Underfrequency Load Shedding	UfLS	means a practice adopted to shed loads by means of relays driven by frequency or its derivative.
Under Voltage Load Shedding	UVLS	means a safety measure to prevent widespread voltage collapse in the event of a severe deficit in local or system-wide area reactive power Reserves.
Unintentional Deviation		means, for each energy exchange that has taken place in a given time interval between a relevant area and its Synchronous Area or between a relevant area and another relevant area in a different Synchronous Area, the difference between the actual measured energy exchange, and the scheduled energy exchange and all
Union for the Coordination of the Transmission of Electricity	UCTE	intentional deviations from that schedule. means the Union for the Co-ordination of Transmission of Electricity, which coordinated the operation and development of the electricity Transmission System for the Continental European synchronously operated Transmission System, thus providing a reliable platform to all participants of the internal electricity market and beyond. It operated from 1951 to 2009, when all operational tasks were transferred to ENTSO-E.
Upward Reserve		means the capacity to increase the Generation till the maximum technical output of the Power-Generating Facilities. The available Reserve is the difference between the cumulated maximum technical output of Power-Generating Facilities and the Demand.
Use It or Sell It		means the principle according to which the underlying cross-zonal capacity of Physical Transmission Rights purchased and non-nominated is automatically made available for day-ahead capacity Allocation and according to which the holder of these Physical Transmission Rights receives remuneration from the TSOs.
Value of Lost Load	VOLL	Monetary value of the unmet Demand. In case no better evaluation exists, VOLL is the GDP / Total annual energy Demand of a Member State.
Variable Renewable Energy-unit	VRE-unit	means Power-Generating Modules that uses variable not- programmable RESs as primary energy sources.
VEE Process		means the process used to validate, estimate and edit raw Metering Data to produce final Metering Data or to replicate missing Metering Data.
Verification Process		means the verification of Aggregated Netted External TSO Schedules which must sum to zero within the Synchronous Area
Voltage Transformer	VT	means a parallel connected type of Instrument Transformer, used for metering and protection in high-voltage circuits or phasor phase shift isolation. They are designed to present negligible Load to the supply being measured and to have an accurate voltage ratio to enable accurate metering.
Warning System	WS	means synoptical pages of the displays showing synthetic information to be shared among TSOs of an area to make aware TSOs about the status of the Grids and warn about emergencies.

Wide Area Network	WAN	means a network that provides communication services to a		
Wide Alea Network	VVAIN	geographic area larger than a single urban area.		
NA/Selo Amon	NA/A NAC			
Wide Area	wams means a technology to improve situational awareness and visibilit			
Measurement System		within Electricity System of today's and future Grids. It uses real		
		time synchro phasor data to measure the state of Grid that enables		
		improvement in stability and reliability of power Grid.		
Wide Area Protection	WAPS	means a protection system adopted to protect an Electricity System		
System or Special		from a partial or total blackout or brown-out in operational		
Protection Schemes		situations when no equipment is faulted or operated outside its		
		limitations. This situation could appear after the clearance of a very		
		severe disturbance in a stressed operation situation or after a period		
		of extreme load growth.		
Working Group		means a generic WG1 or WG2 or WG3 or WG4, or all of them. WGs		
		in the OC and PC are not mandatory organizations but they aim at		
		describing a homogenous working stream to efficiently run the		
		International Interconnection.		
WG1-Operational	WG1	means a Working group tasked to design, maintain and monitor		
Planning Committee		processes of the Operational Planning. As per 3.4.2.4 of the GA, it		
_		reports to Arab TSO Committee as sub-committee.		
WG2-Operation	WG2	means a Working group tasked to design, maintain and monitor		
Committee		processes of the real-time Operation. As per 3.4.2.4 of the GA, it		
		reports to Arab TSO Committee as sub-committee.		
WG3-ICT Committee	WG3	means a Working group tasked to design, maintain and monitor		
		processes and tools in matter of ICT. As per 3.4.2.4 of the GA, it		
		reports to Arab TSO Committee as sub-committee.		
WG4-Planning	WG4	means a Working group tasked to draft the Pan Arab Master Plan.		
Committee		As per 3.4.2.4 of the GA, it reports to Arab TSO Committee.		





GD 2 SYMBOLS AND UNITS OF MEASUREMENT

Symbol	Variable	Units of Measurement	
Δf	Frequency deviation of the Transmission System	[Hz] and [p.u.]	
ΔΡ	Variation of active power output of a Power-Generating Module	[MW]	
$\Delta t_{ t LFSM_activation}$	Maximum Initial time delay for activating the power frequency response by a Power-Generating Module	[sec]	
f	Frequency	[Hz] and [p.u.]	
f _{boundary}	Frequency limits adopted to characterize the effects of environmental and operating conditions on the active power capability of Power-Generating Modules		
fn	Nominal Frequency	[Hz] and [p.u.]	
F_{flow}	A frequency limit below the nominal frequency f needed to define the Frequency ranges in the Connection Code	[Hz] and [p.u.]	
F_{fhigh}	A frequency limit above the nominal frequency f needed to define the Frequency ranges in the Connection Code	[Hz] and [p.u.]	
P	Nominal active power	[MW]	
PF_load	Power factor import or export of active power threshold for Demand Facilities		
Plt	Long-term flicker severity	[-]	
Рмах	Maximum active power output of a Power-Generating Module	[MW]	
P _{st}	Short-term flicker severity	[-]	
P _{treshold}	Nominal active power threshold above which a Power-Generating Module shall be connected to the Transmission System.	[MW]	
Q	Reactive Power	[Mvar]	
s \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Droop of a Synchronous Power-Generating Module or HVDC System	[%]	
t ₁	Maximum admissible initial delay of active power response capability	[s]	
t ₂	Full activation time of active power response capability	[s]	
t _i	Time resolutions for the time intervals of the Electronic Data Exchange in the Scheduling & Dispatching Code	[min] and [h]	
t_{rec}	Time series to build the Fault-Ride-Through capability curve for Power- Generating Modules and HVDC Systems	[ms]	
U	Voltage	[V]	
U _{low}	A voltage limit below the base voltage level needed to define the Voltage ranges in the Connection Code	[p.u.]	
U_{high}	A voltage limit above the base voltage level needed to define the Voltage ranges in the Connection Code	[p.u.]	
U _{ret}	Voltage series to build the Fault-Ride-Through capability curve for Power- Generating Modules and HVDC Systems	[p.u.]	
Vtreshold	Minimum value of operating voltage above which the Network is considered as Transmission System	[kV]	

GD 3 STRUCTURE OF THE CODE AND HIERARCHY OF HEADINGS

The **Arab Grid Code** is structured in accordance with the structure and hierarchy of headings shown in Figure GD 1.

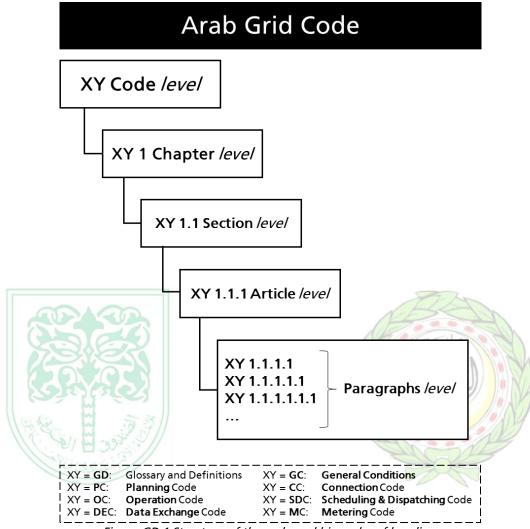


Figure GD 1 Structure of the code and hierarchy of headings