Introduction

The coordination of assets and related information exchange forms a cornerstone for dispatching operations, enabling Elia to:

- plan maintenances of the grid,
- monitor the availability of production to satisfy demand,
- avoid and manage congestions on the grid,
- ensure the availability of ancillary services,

with the aim of providing a secure grid and at the same time stimulating new opportunities, enabling consumers to play a central role.

New regulation, a changing energy landscape and an evolution in operational needs call for a major evolution for the coordination of assets and congestion management.

This evolution is discussed and implemented by Elia, together with the stakeholders, in the iCAROS ('Integrated Coordination of Assets for Redispatching and Operational Security') project.

High level indicative planning of the implementation of the iCAROS project

Apr-18 Publication of the reviewed and consulted design notes for the coordination of assets and congestion management.

Description of business and system requirements.

Implementation and testing (including IT system and operational processes) by Elia and Grid Users.
Go-live preparation (including the set-up of the contractual framework).

2022 Go-live.

Impact on Grid Users

The Grid User plays a key part in the appointment of the roles, the coordination between them, and in assuring compliance with regulation. For the purpose of coordination and congestion management, each Elia-connected Grid User is obliged to appoint an Outage Planning Agent and a Scheduling Agent.

Roles & responsibilities
PRESENT

GRID USER

BALANCE RESPONSIBLE PARTY (BRP)
Responsible for outage planning and scheduling.

The new approach

Roles & responsibilities
FUTURE

GRID USER

GRID USER

OUTAGE PLANNING AGENT

The Grid User is Outage Planning Agent or appoints another market party in line with the rules.

The Outage Planning Agent is responsible for the delivery of outage plans (e.g., outage due to maintenance).
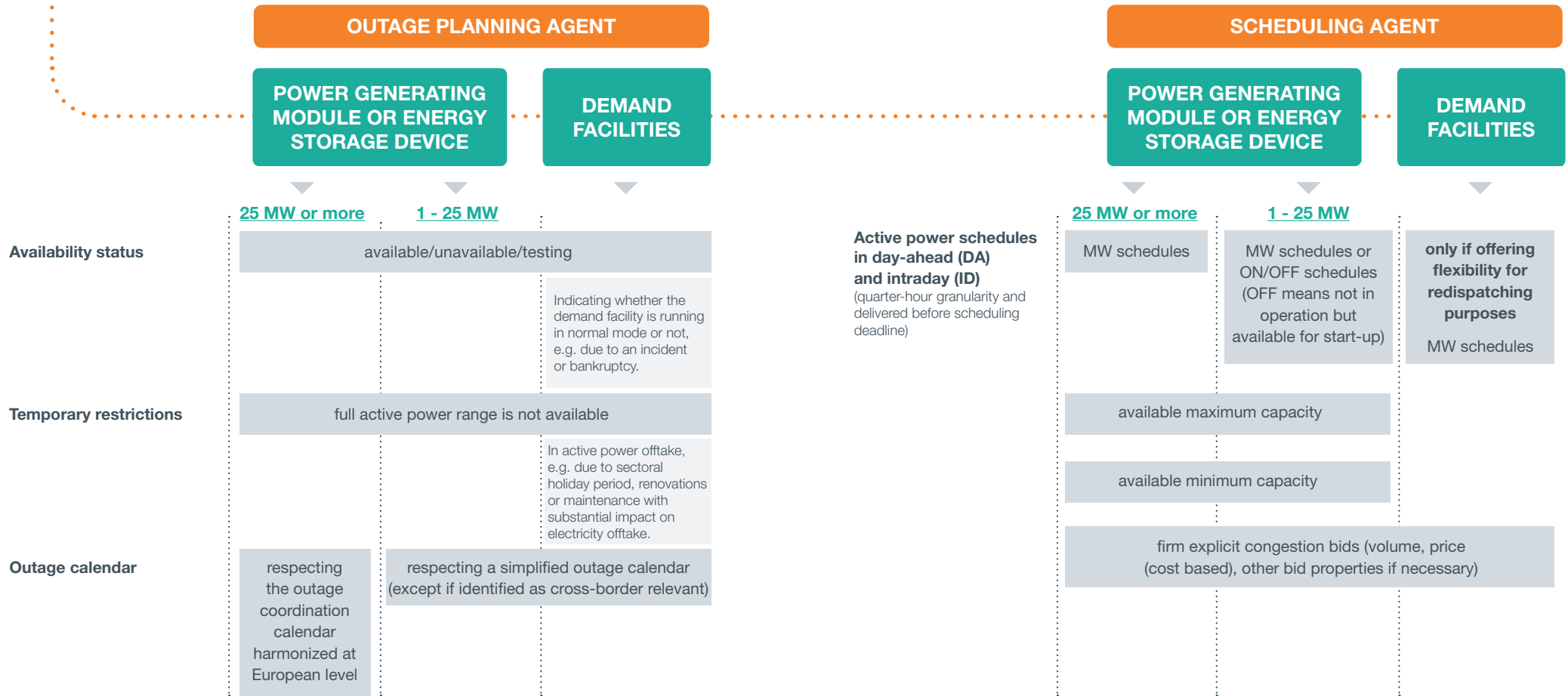
SCHEDULING AGENT
(Incl. bidding for redispatching)

The Grid User is Scheduling Agent or appoints another market party in line with the rules.

The Scheduling Agent is responsible for the delivery of generation and/or consumption schedules at the level of the concerned asset one day in advance ("Day ahead") and update if necessary throughout the day ("Intraday"). Elia also assigns to the Scheduling Agent the responsibility to offer flexibility to deal with congestion risks.

The following sections give a general description of the new requirements for different assets on the site of a Grid User connected to the TSO or to a TSO-connected CDS.

	OUTAGE PLANNING AGENT		
	POWER GENERATING MODULE OR ENERGY STORAGE DEVICE		**DEMAND FACILITIES**
	25 MW or more	**1 - 25 MW**	
Availability status	available/unavailable/testing		Indicating whether the demand facility is running in normal mode or not, e.g. due to an incident or bankruptcy.
Temporary restrictions	full active power range is not available		In active power offtake, e.g. due to sectoral holiday period, renovations or maintenance with substantial impact on electricity offtake.
Outage calendar	respecting the outage coordination calendar harmonized at European level	respecting a simplified outage calendar (except if identified as cross-border relevant)	

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	SCHEDULING AGENT		
	POWER GENERATING MODULE OR ENERGY STORAGE DEVICE		**DEMAND FACILITIES**
Active power schedules in day-ahead (DA) and intraday (ID) (quarter-hour granularity and delivered before scheduling deadline)	**25 MW or more**	**1 - 25 MW**	
	MW schedules	MW schedules or ON/OFF schedules (OFF means not in operation but available for start-up)	**only if offering flexibility for redispatching purposes** MW schedules
	available maximum capacity		
	available minimum capacity		
	firm explicit congestion bids (volume, price (cost based), other bid properties if necessary)		

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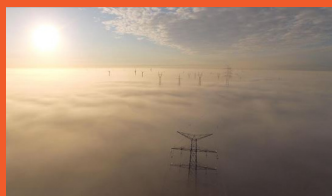
Need more information?

Feel free to contact us via

- your Contract Manager
- your Key Account Manager
- the Contracting Department (contracting_as@elia.be)
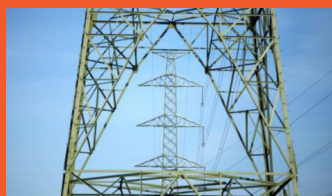
FUTURE ROLES AND RESPONSIBILITIES FOR THE DELIVERY OF ANCILLARY SERVICES

DESIGN NOTE FOR THE COORDINATION OF ASSETS:

PART I - OUTAGE PLANNING

DESIGN NOTE FOR THE COORDINATION OF ASSETS:

PART II - SCHEDULING AND REDISPATCHING

DESIGN NOTE FOR THE COORDINATION OF ASSETS:

PART III - CONGESTION RISK INDICATOR

A new approach for coordination of assets and congestion management