

WG Balancing of 08th December 2022

Online meeting

08/12/2021

For a smooth teleconference with 30+ people ... Some rules apply

- Please put yourself on mute at any time that you are not speaking to avoid background noise.
- If you receive a call, please ensure that you do not put this meeting **on hold**.
 - You can quit and reconnect later on.
 - You will be muted or kicked out of the session, if necessary.
- You will be requested to hold your questions for the end of each presentation.
 - Should you have a question, please notify via Teams or speak out if you are only via phone.
 - Share your question (with slide number) in advance so all participants may follow
 - Before you share your question, please announce yourself.
- If you have a poor internet connection, please dial-in.
- Finally, please be courteous and let people finish their sentences.
 - It is practically impossible to follow when 2 people are speaking at the same time in a teleconference.



Agenda

13:00 – 13:10: Introduction and minutes

13:10 – 13:25: Baseline study: feedback public consultation and implementation plan

13:25 – 13:40: Study on a technology neutral framework for slow-start units: implementation plan

13:40 – 13:50: Designation of multiple BRPs on an access point: implementation plan

13:50 – 14:00: Consultation of the Dynamic Means study

14:00 – 14:15: Public Data exposure

14:15 – 14:35: aFRR: publications on ETP after connection to PICASSO

AOB

- Simplify: results and implementation plan
- EU Balancing Program update
- EMS for aFRR
- WG Balancing of 2022

Minutes of Meeting for approval

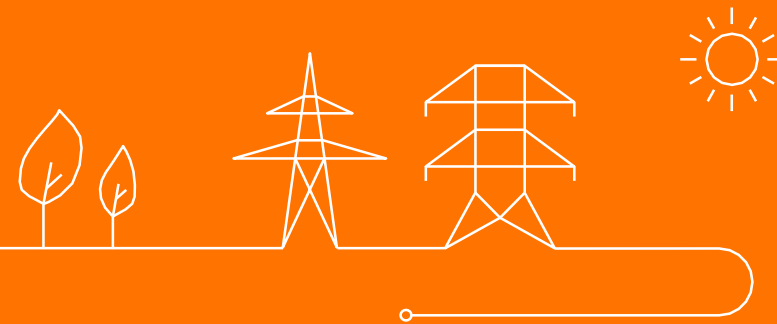
Minutes of Meeting of WG Balancing on 22nd of November 2021:

- No comments received from the stakeholders.



Study on baseline methodologies: feedback public consultation and implementation plan

Presented by Kris Poncelet



Overview public consultation

- Elia organized a public consultation of the study on baseline methodologies from 27/9/2021 until 25/10/2021
- Elia received non-confidential answers from:
 - Centrica Business Solutions
 - FEBEG
 - Febeliec
 - + 1 confidential response

Objective today

- Provide a summary of the feedback on the main conclusions and recommendations of the study
- Present the proposed implementation plan

Next step

- Elia will finalize the study and consultation report and publish it on the website following submission to the CREG

Market parties generally support the recommendations and push for an implementation of the aFRR baseline

Recommendations Elia (recap)	Feedback market
1. Maintain existing baseline methodologies for all products	Stakeholders generally support Elia's conclusions and recommendation
2. aFRR: Elia is willing to additionally enable BSPs to calculate and submit their baseline in real-time (to enable the participation of wind and solar PV) Elia invited stakeholders to provide indications on the volumes for which the current baseline is considered to form a barrier for participation	Stakeholders support the recommendation and request a quick implementation of the aFRR baseline
3. mFRR and ToE DA/ID / CRM: Elia is willing to consider developing an additional declarative baseline methodology but questions the current need Elia invited market parties to provide indications and specific use cases for which a declarative baseline methodology would be needed to reduce entry barriers	Stakeholders seem to welcome the proposal for a declarative baseline. No specific indications of the needs were provided

This slides summarizes the feedback on the main conclusions and recommendations of the study. The individual stakeholder comments (including more specific comments) as well as the consultation report with Elia's responses will be published later on the Elia website.

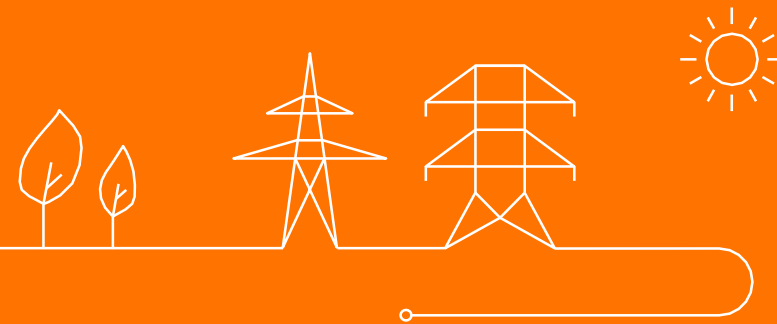
Elia proposes a phased implementation* of the different recommendations taking into account the feedback received

- **For the real-time baseline for aFRR**, Elia proposes to start the developments following the connection to the PICASSO platform. In this regard, Elia considers that 5 months are minimally required to submit an amended version of the T&C BSP aFRR for approval to the CREG (IT developments would happen in //).
- **For the declarative baseline for mFRR**, Elia believes the best possible moment to target the required amendments of the T&C BSP mFRR and the ToE Rules is together with phase 2 of the ICAROS project in order to benefit from synergies with the IT developments performed in the ICAROS project for smaller assets (e.g. a scheduling tool for the introduction of schedules similar to declarative baselines). In this regard, Elia proposes to provide a specific planning of the implementation at the latest 6 months after the go-live of ICAROS phase 1/local mFRR.
- **For the declarative baseline for ToE DA/ID / CRM**: Elia proposes to postpone the implementation until a better view on the actual needs is obtained. In this regard, Elia will consider the return of experience with these products. In addition, Elia proposes to perform a re-assessment of the need at the latest before the end of Q2 2023 to ensure that a potential development is possible for the Y-1 auction for the first delivery period of the CRM.

*The planning presented is indicative. The final proposed implementation plan will be submitted to the CREG before the end of the year and afterwards published on the Elia website.

Study on a technology neutral framework for slow-start units: implementation plan

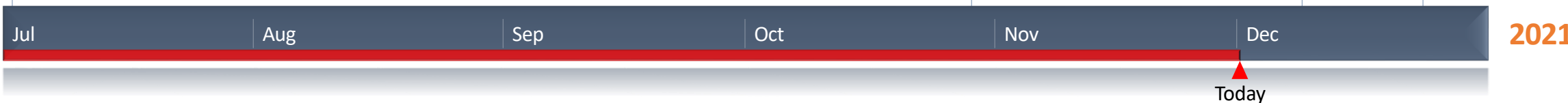
Presented by Kris Poncelet



Presented (preliminary)
conclusions and
recommendations

Workshop
Jul 1

2021



2021

Discussed
feedback public
consultation

WG BAL - feedback
consultation
Oct 28

Today: present the
proposed
implementation plan

WG BAL - proposal
implementation plan
Dec 8

Submission study
(incl.
implementation
plan) and
consultation
report
Dec 23

Public consultation

Aug 20 - Sep 24

Proposed implementation plan

Recall: Elia proposes not to target an implementation of the proposed technology-neutral framework at this point, but considers an implementation might be targeted in the future. In this regard, a design for the proposed framework has been proposed (and further clarified) in the study, and Elia proposes the following indicative plan for its implementation:

0 - Monitor the future need to enable DP_{PG} to participate to the exceptional balancing measures

- Analyze activations of slow-starting DP_{SU} + present in WG BAL
- Follow-up on triggers exceptional balancing measures
- Analyze the need to take additional measures in light of upcoming changes in the market/system (e.g., increase offshore wind)

1 – Amend the LFCBOA and the Balancing Rules

Take the opportunity during upcoming revisions:

- Balancing Rules: revisions for ICAROS phase 1/local mFRR
- LFCBOA: next revision (not scheduled yet)

2 – Develop new contract

6 months before submission for approval*

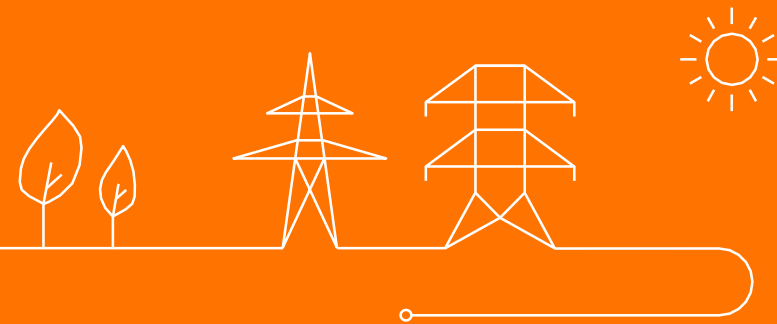
3 – Perform IT implementations

9 months required (assuming implementation after go-live ICAROS phase 1/local mFRR)*

* In the unlikely case in which, despite the monitoring actions taken, there would be an unexpected yet important and urgent need to attract additional volumes, the time required for developing the contract and doing the (minimal) IT implementations can be reduced significantly (as evidenced by the experience with the Winter Product). In combination with the pro-active amendments of the LFCBOA and the Balancing rules, the minimal time required for implementation could be drastically reduced.

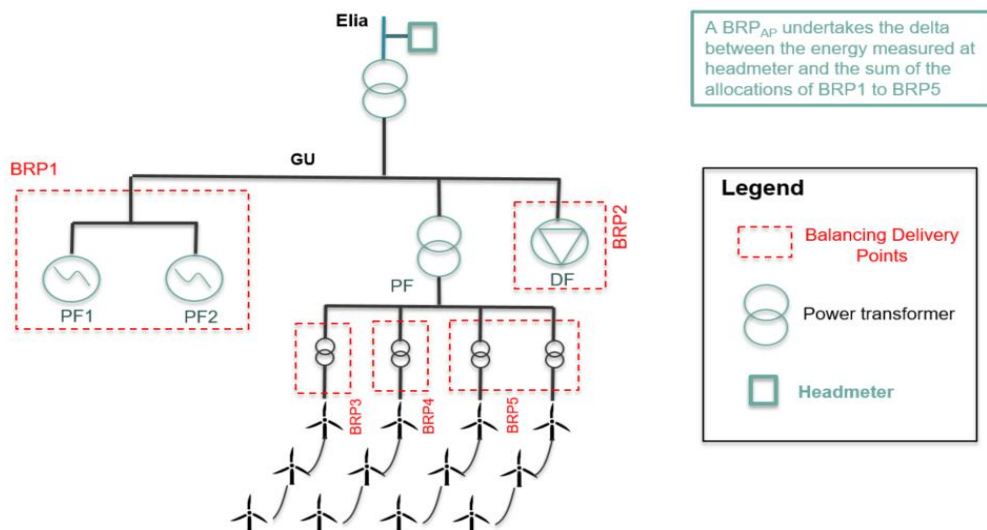
Designation of multiple BRPs per access point: Implementation plan

Presented by Raphael Dufour



Designation of multiple BRPs per access point – Implementation Plan

Reminder of the proposed scheme in the study



Key points of the new proposed scheme:

- **Balancing Delivery Point (BDP):** a virtual point equal to the access point or behind the access point on which a BRP is designated (similar to a Market Access Point in CDS grid)
- **Accountability:** BRP_{AP} has the responsibility for 'residual' energy
- **Allocations:** made by the Access Contract Holder (ACH)
- **Metering:** no requirements from Elia, up to the ACH but conform to metering solutions to provide ancillary services (if relevant)
- **Coherency with other roles:** BDP are aligned with Delivery Points for scheduling and ancillary services

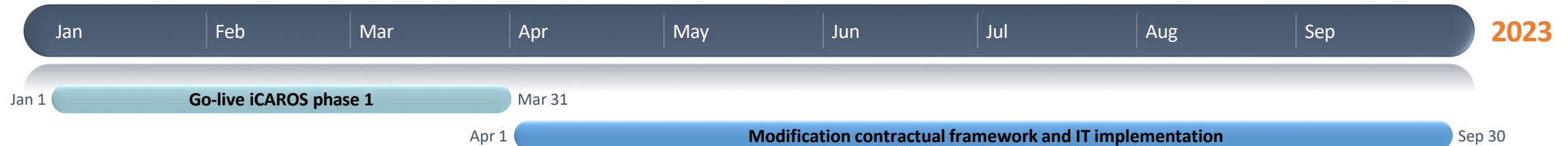
- Elia proposes to target an implementation of the scheme proposed in the study just after the iCAROS phase 1 **go-live** (planned on Q1 2023) as
 - The principles proposed in this new scheme are coherent with the principles of the iCAROS Design. This implies that some notions of the iCAROS architecture (such as the notions of Technical Unit, Technical Facility, Delivery Point etc) will have to be implemented before building on them the notion of BDP.
 - Some tools and processes to be adapted for the implementation of this new scheme are similar to those impacted by the iCAROS project



Designation of multiple BRPs per access point – Implementation Plan

- The **contractual framework** needs to be adapted:
 - **Access contract:**
 - Designation of BRPs by the ACH (article 20)
 - New appendix describing the new scheme proposed in the study (allocation process, conditions on BDPs and ACH to use the scheme, roles and responsibilities of BRP_AP)
 - **BRP contract:**
 - Notion of BDP
 - Allocation data to be sent at BDP level by ACH (articles 20 and 22)
 - Role of the BRP_AP
 - Note: Elia does not see a need to adapt the **Federal Grid Code** even if some clarifications could be brought
- Some **IT development and processes** update are necessary

→ An implementation is targeted in Q3 2023



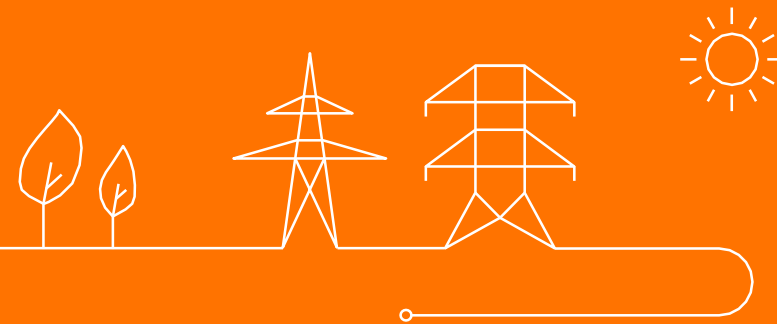
Designation of multiple BRPs per access point – Provision for federal grid losses

- **Reminder from the study:**
 - Elia agrees with the principle of netting the losses at the access point that can be applied in case of Annex 3bis, CDS and new future scheme developed in the study
 - Some additional analysis will be necessary to evaluate the feasibility and practical implementation of this netting in the context of this study
- The implementation of the netting of federal losses in kind at access point for multiple BRPs schemes has been analyzed
 - The analysis shows that this netting can be implemented **at the same moment than the new scheme**
 - This implementation could also be influenced by the results of the **incentive in 2022** about the grid losses

Daily prediction of non-contracted balancing energy bids

Status overview and results of the public consultation

Presented by Kristof De Vos



Status overview

Objective : Development, testing and validation of a method for forecasting the volume of uncontracted balancing energy offers available within Elia's LFC Block



WG Balancing presentations are foreseen :
kick-off and for every milestone



Kick-off

- Present objective, scope and planning
- Collect potential feedback / expectations from market parties



Intermediate presentation

- Recommendations on the input features and selected methods
- Present approach for the comparative analyses



Public Consultation

- Present a draft of the full study to the stakeholders (report)
- Collect suggestions and remarks and answer via consultation report



Final report

- Publication final report
- Publication of consultation report



Re-cap of the proposed implementation roadmap



2021 : predictability

Investigate if available non-contracted FRR means can be predicted before the capacity tender (in view of balancing capacity reductions)

1. Results demonstrate availability upward equals 500 MW on average (including up to 312 MW of reserve sharing).
2. The available data and current state of the aFRR market does not allow to confirm the potential at this moment
3. Results confirm that available downward continue to almost always cover the FRR needs

Results are subject to uncertainty following expected market evolutions : explicit bidding, full activation time reductions for mFRR and EU balancing energy platforms !

2022 : value generation

Investigate the procurement aspects when replacing (part of) the upward mFRR balancing capacity with non-contracted balancing energy bids

- Potential procurement solutions for accounting non-contracted in the allocation of balancing means
- Identify risks and potential risk mitigation for market stability
- Update (where possible) the results and conclusions based on additional data).



2023-24 : robustness

Confirm the robustness after implementation of EU balancing platforms, explicit bidding, shorter full activation time for mFRR)

Re-calibrate machine learning for implementation

- Confirm the potential value of accounting non-contracted balancing energy bids.
- Propose a planning for implementation.

Scope

(Expected) results

High level results of the public consultation

Answers of FEBEG, FEBELIEC and one confidential answer

FEBEG

- Not moving too quickly with the implementation plan
- Conduct suggested follow-up studies on procurement and expected evolutions
- Maintain sufficiently high reliability levels and remain careful with the non-guaranteed nature of sharing
- Be careful for creating gaming opportunities
- Be careful with overestimations following the assumptions on :
 - Implicit bidding
 - Pumped-hydro storage
 - Forced outages and congestions issues
- Elaborate the set of machine learning algorithms to be investigated
- Agrees with observed trends
 - No need for downward procurement
 - No further analysis on aFRR at this point
- Clarify the impact of balancing energy bid or volume withdrawals

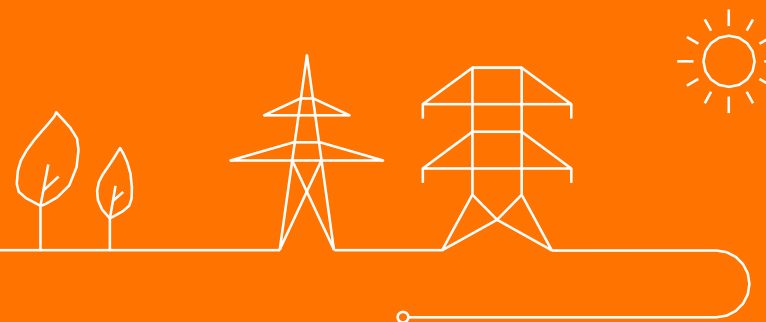
FEBELIEC

- Move faster with the implementation plan
- Continue analyses and monitor evolutions
- Provide ability to filter historic data and account future expected evolutions.
- Agrees with observed trends
 - No need for downward procurement
 - No further analysis on aFRR at this point
- Provide information on price forecasts used in the study

- No need for new simulations (no concrete suggestions for modifications to the data or method at this point)
 - Further improvements to the data and method can still be implemented in later phases of the implementation roadmap
- Based on the questions of stakeholders, a few additional clarifications will be implemented in the report (e.g. price forecast assumptions, impact of balancing energy bid / volume withdrawal)

Public Data exposure

Presented by Laura Jacobs



Public Data exposure – Questionnaire

- In order to enable the energy transition and to continue operating the electric system in an increasingly decentralized environment, Elia will have to become data and consumer centric.
- Elia already makes a lot of data publicly available through several channels
- In building the long term public data exposure objectives and roadmap, it's essential to focus on evolutions with a high impact for the market.

Market consultation

We invite you to answer to the **Questionnaire** that was sent on November 22 and share it with person(s) concerned by this subject in your organization.

The deadline is **December 10**.

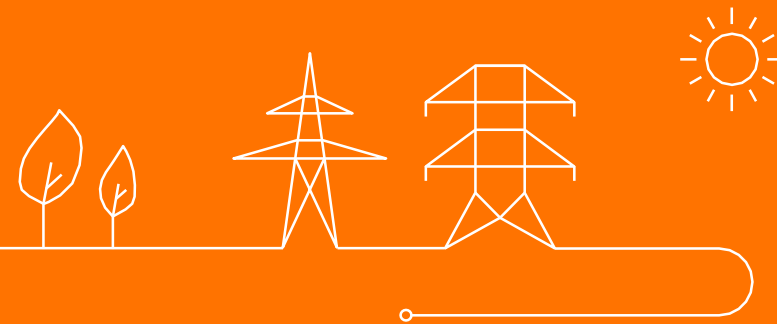
The objective is to understand the current use of public data by Belgian market stakeholders and the improvements expected.

The results will be communicated to e-mail addresses filled in the questionnaire.



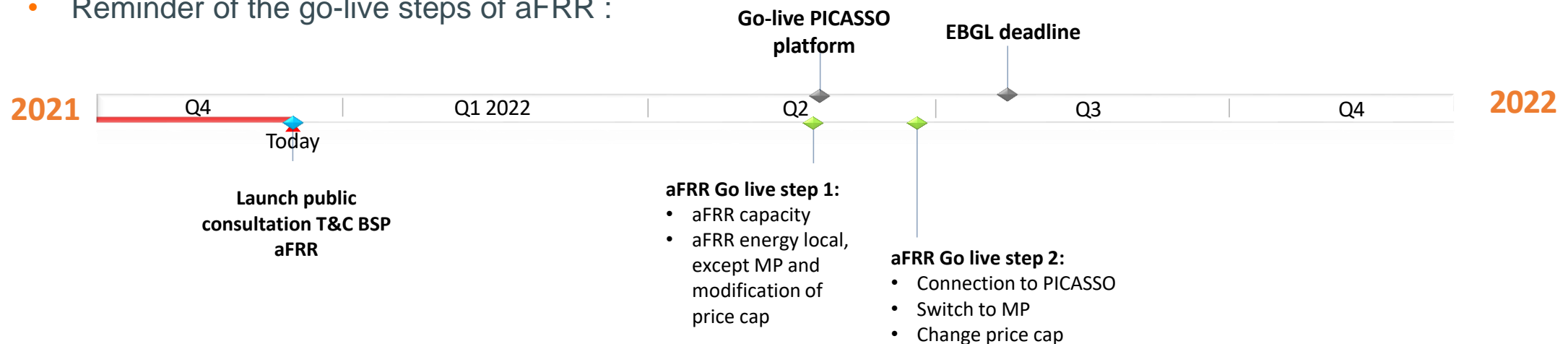
aFRR: publications on ETP after connection to PICASSO

Presented by Elodie Ciciriello

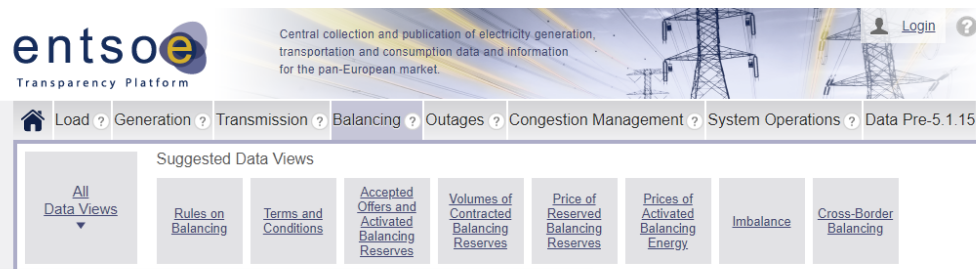


Context and objective

- During WG Balancing of the 28th of October, Elia presented the publications on Elia.be.
- Market parties requested to have a global overview including the publications on ETP. All infos are also available in the manual of procedures drafted by ENTSOE and approved by ACER : [TP - Manual of Procedures \(MoP\) \(entsoe.eu\)](https://entsoe.eu/TP-Manual-of-Procedures-MoP)
- Objective is to present that today.
- Reminder of the go-live steps of aFRR :



Impact on balancing publications



- Cross-Border Balancing
- Accepted Offers and Activated Balancing Reserves

Rules and Reports

- Terms and Conditions
- Information on conversion into Standard Products
- Approved Methodologies
- Algorithm
- Common Annual Report
- Rules on Balancing

Energy

- Prices of Activated Balancing Energy
- Bids
- Aggregated Bids
- Netted and Exchanged Volumes

Capacity

- Volumes of Contracted Balancing Reserves (legacy)
- Price of Reserved Balancing Reserves (legacy)
- Volumes and Prices of Contracted Reserves
- Procured Capacity
- Sharing FCR
- FRR forecast
- RR forecast
- FCR Shares of capacity
- FCR Total Capacity
- FRR actual capacity
- RR actual capacity

Financial Balance

- Financial Expenses and Income

Cross-border

- Allocation and use of cross-zonal capacity
- Exchanged Reserve Capacity
- Sharing of reserve capacity
- Permanent Allocation Limitations
- Balancing Border Capacity Limitations

Imbalance

- Imbalance Netting
- Imbalance
- Current Balancing State

Day

< 21.10.2020 >

UTC

Type of product and Reserve Type				
Type of Product	Direction	Offered [MW]	Activated [MW]	Unavailable [MW]
Local	Up	n/e	n/e	n/e
Local	Down	n/e	n/e	n/e
Specific	Up	215	43	
Specific	Down	145	3	
Standard	Up	n/e	n/e	n/e
Standard	Down	n/e	n/e	n/e
Local	Up	n/e	n/e	n/e
Local	Down	n/e	n/e	n/e
Specific	Up	215	69	
Specific	Down	145	10	

1 2 3 4 5 > >>

encing energy products different from standard products are
t in this case includes both: [1] specific products that are defined,
Commission Regulation (EU) 2017/2195 (EBGL), and [2] products
mission System Operators make no representations or
oduct compliance with Article 26(1) of EBGL.
t defined and therefore may not be published.

PICASSO will impact publications on :

- Energy
- Cross-border limitations

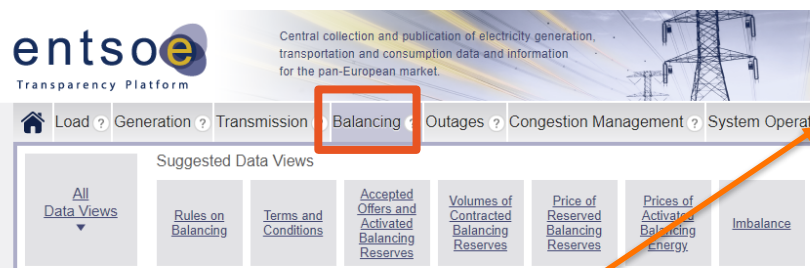
No impact on publications on :

- Capacity
- Imbalance
- Financial Balance
- Cross-border capacity

New publications will be added on:

- Exchanged volumes
- Fall-backs
- Changes to bid unavailability

Impact on balancing publications



Energy

- Prices of Activated Balancing Energy → Changes
- Bids → Changes
- Aggregated Bids → Changes
- Netted and Exchanged Volumes → New publication

Cross-border

- Allocation and use of cross-zonal capacity → No change
- Exchanged Reserve Capacity
- Sharing of reserve capacity
- Permanent Allocation Limitations → Not applicable
- Balancing Border Capacity Limitations → aFRR added

New publications :

- Fall-backs
- Changes to bid unavailability

Capacity

- Cross-Border Balancing
- Accepted Offers and Activated Balancing Reserves

Rules and Reports

- Terms and Conditions
- Information on conversion into Standard Products
- Approved Methodologies
- Algorithm
- Common Annual Report
- Rules on Balancing

Energy

- Prices of Activated Balancing Energy
- Bids
- Aggregated Bids
- Netted and Exchanged Volumes

Capacity

- Volumes of Contracted Balancing Reserves (legacy)
- Price of Reserved Balancing Reserves (legacy)
- Volumes and Prices of Contracted Reserves
- Procured Capacity
- Sharing FCR
- FRR forecast
- RR forecast
- FCR Shares of capacity
- FCR Total Capacity
- FRR actual capacity
- RR actual capacity

Financial Balance

- Financial Expenses and Income

Cross-border

- Allocation and use of cross-zonal capacity
- Exchanged Reserve Capacity
- Sharing of reserve capacity
- Permanent Allocation Limitations
- Balancing Border Capacity Limitations

Imbalance

- Imbalance Netting
- Imbalance
- Current Balancing State

Day 21.10.2020 UTC

Type of product and Reserve Type

Type of Product	Direction	Offered [MW]
Local	Up	n/e
Local	Down	n/e
Specific	Up	215
Specific	Down	145
Standard	Up	n/e
Standard	Down	n/e
Local	Up	n/e
Local	Down	n/e
Specific	Up	215
Specific	Down	145

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1415 1416 1417 1418 1419 1420 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447 1448 1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464 1465 1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479 1480 1481 1482 1483 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495 1496 1497 1498 1499 1500 1501 1502 1503 1504 1505 1506 1507 1508 1509 1510 1511 1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534 1535 1536 1537 1538 1539 1540 1541 1542 1543 1544 1545 1546 1547 1548 1549 1550 1551 1552 1553 1554 1555 1556 1557 1558 1559 1560 1561 1562 1563 1564 1565 1566 1567 1568 1569 1570 1571 1572 1573 1574 1575 1576 1577 1578 1579 1580 1581 1582 1583 1584 1585 1586 1587 1588 1589 1590 1591 1592 1593 1594 1595 1596 1597 1598 1599 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1649 1650 1651 1652 1653 1654 1655 1656 1657 1658 1659 1660 1661 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671 1672 1673 1674 1675 1676 1677 1678 1679 1680 1681 1682 1683 1684 1685 1686 1687 1688 1689 1690 1691 1692 1693 1694 1695 1696 1697 1698 1699 1700 1701 1702 1703 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1714 1715 1716 1717 1718 1719 1720 1721 1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740 1741 1742 1743 1744 1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755 1756 1757 1758 1759 1760 1761 1762 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 1774 1775 1776 1777 1778 1779 1780 1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322

Changes in current balancing publications

- **Prices of Activated Balancing Energy:** CBMP published by PICASSO* with a 4" granularity
- **Balancing Energy Bids:** anonymized bids published by PICASSO*
- **Aggregated Bids:** offered, selected and unavailable volumes published by PICASSO*
- **Balancing Border Capacity Limitations:** aFRR component will be added

*For all publications done by PICASSO, the publication will be performed only when connected to PICASSO.

Prices of Activated Balancing Energy

Prices of Activated Balancing Energy

Prices of Activated Balancing Energy [17.1.F]

Area Market Balance Area

+ Reserve Type

Area

☒ Belgium (BE) ▼

☒ SCA/BE

☐ Croatia (HR) ▼

☐ Czech Republic (CZ) ▼

☐ Denmark (DK) ▼

☐ Estonia (EE) ▼



[Show fullscreen](#)

[Export Data](#)

ISP	Reserve Type	Source	Direction	Calculation	Up	Down
00:00 - 00:15	aFRR	Not specified	Specific	AVERAGE	215.80	69.48
00:15 - 00:30	aFRR	Not specified	Specific	AVERAGE	214.94	60.95
00:30 - 00:45	aFRR	Not specified	Specific	AVERAGE	213.31	70.45
00:45 - 01:00	aFRR	Not specified	Specific	AVERAGE	0.00	69.20
01:00 - 01:15	aFRR	Not specified	Specific	AVERAGE	216.62	69.84
01:15 - 01:30	aFRR	Not specified	Specific	AVERAGE	218.14	70.00
01:30 - 01:45	aFRR	Not specified	Specific	AVERAGE	217.48	70.00

Currently : aFRR component of imbalance price

aFRR go-live step 1 : No change.

aFRR go live step 2 - Connection to PICASSO :

- ETP: CBMP per 4" (and per QH) and per direction published by PICASSO, only when connected to PICASSO
- Elia.be: aFRR component of imbalance price

Balancing Energy Bids

Balancing energy bids ?

Balancing energy bids [GL EB 12.3.B&C]

Scheduling Area

Area

☒ Belgium (BE) ▼

☒ SCA|BE

☐ Croatia (HR) ▼

☐ Czech Republic (CZ) ▼

☐ Denmark (DK) ▼

☐ Estonia (EE) ▼

☐ Finland (FI) ▼

☐ France (FR) ▼

☐ Georgia (GE) ▼

☐ Germany (DE) ▼

☐ Greece (GR) ▼

☐ Hungary (HU) ▼

[Show fullscreen](#)

Bid ID	Delivery Period Start-End	Reserve Type
3	15.11.2021 00:00 - 15.11.2021 04:00 (CET)	aFRR

Validit
15.11.2021 00:00 - 1

From	To	Volume	Price
		[MW]	[EUR / MWH]
15.11.2021 00:00 (CET)	15.11.2021 00:15 (CET)	10	528.00
15.11.2021 00:15 (CET)	15.11.2021 00:30 (CET)	10	528.00
15.11.2021 00:30 (CET)	15.11.2021 00:45 (CET)	10	528.00

Currently : anonymized aFRR energy bids : ID, volume, price

aFRR go-live step 1 :

- No publication on ETP
- Publication on Elia.be as is currently done

aFRR go live step 2 - Connection to PICASSO :

- ETP: publication done by PICASSO, including availability status, only when connected to PICASSO
- Elia.be: publication of bids without availability status.

iCAROS go-live : same but availability status added on Elia.be

Aggregated Bids

Aggregated Bids ?

Aggregated balancing energy bids [GL EB 12.3.E]

Scheduling Area

Area

☒ Belgium (BE) ▼

☒ SCA|BE

☐ Croatia (HR) ▼

☐ Czech Republic (CZ) ▼

☐ Denmark (DK) ▼

☐ Estonia (EE) ▼

☐ Finland (FI) ▼

☐ France (FR) ▼

[Show fullscreen](#)

[Export Data](#) ▼

Volumes per Direction							
ISP	Reserv Type	Product		[MW]	[MW]	[MW]	
15.11.2021 00:00 - 15.11.2021 00:15 (UTC)	aFRR	Local	Up	n/e	n/e	n/e	
15.11.2021 00:00 - 15.11.2021 00:15 (UTC)	aFRR	Local	Down	n/e	n/e	n/e	
15.11.2021 00:00 - 15.11.2021 00:15 (UTC)	aFRR	Specific	Up	145	32		
15.11.2021 00:00 - 15.11.2021 00:15 (UTC)	aFRR	Specific	Down	147	27		
15.11.2021 00:00 - 15.11.2021 00:15 (UTC)	aFRR	Standard	Up	n/e	n/e	n/e	
15.11.2021 00:00 - 15.11.2021 00:15 (UTC)	aFRR	Standard	Down	n/e	n/e	n/e	

Currently : aggregated offered and activated (aFRR Requested) volume per QH

aFRR go-live step 1 :

- No publication on ETP
- Publication on Elia.be as is currently done

aFRR go live step 2 - Connection to PICASSO :

- ETP: offered, selected (by PICASSO AOF) and unavailable volume published by PICASSO, only when connected to PICASSO
- Elia.be: offered volume, satisfied demand and activated volume.

Balancing Border Capacity Limitations

Balancing Border Capacity Limitations ?

Balancing Border Capacity Limitations [IFs 4.3&4.4]

Border

+ Process Type

Border

☐ Belgium (BE) ▼

☒ LFA|BE -
LFA|DE(Amprion)

☐ LFA|BE - LFA|FR

☐ LFA|BE - LFA|NL

☐ SCA|BE - SCA|IGCC

☐ Croatia (HR) ▼

☐ Czech Republic (CZ) ▼

☐ France (FR) ▼



Show fullscreen

Export Data ▼

ALEGrO DC Lin

BE LFA > DE(Amprion) LFA

DE(Amprion) LFA > BE LFA

ISP	Process Type	Cross-border Capacity Limit [MW]	Reason	Comment	Cross-border Capacity Limit [MW]	Reason	Comment
00:00 - 00:15	aFRR	n/e	n/e	n/e	n/e	n/e	n/e
00:00 - 00:15	IN						
00:00 - 00:15	mFRR	n/e	n/e	n/e	n/e	n/e	n/e
00:15 - 00:30	aFRR	n/e	n/e	n/e	n/e	n/e	n/e
00:15 - 00:30	IN						
00:15 - 00:30	mFRR	n/e	n/e	n/e	n/e	n/e	n/e
00:30 - 00:45	aFRR	n/e	n/e	n/e	n/e	n/e	n/e
00:30 - 00:45	IN						

Currently : temporary limitations due to operational security constraints. For the moment, only Imbalance Netting/IGCC is applicable.

aFRR go-live step 1 : No changes

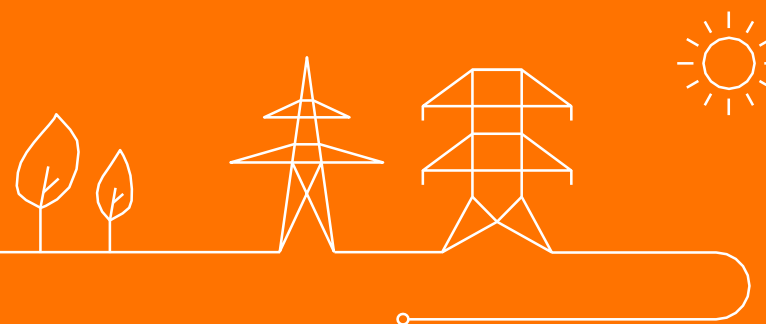
aFRR go live step 2 - Connection to PICASSO :
Limitation for aFRR platform is added

ETP - New balancing publications for aFRR

- **Exchanged volumes** : Exchanged volume (export or import) published by PICASSO* with a 4” granularity
- **Fall-backs** : disconnection from the PICASSO platform and associated reason with a QH granularity.
- **Changes to bid unavailability** : bid ID, reason for unavailability, ... published by PICASSO*

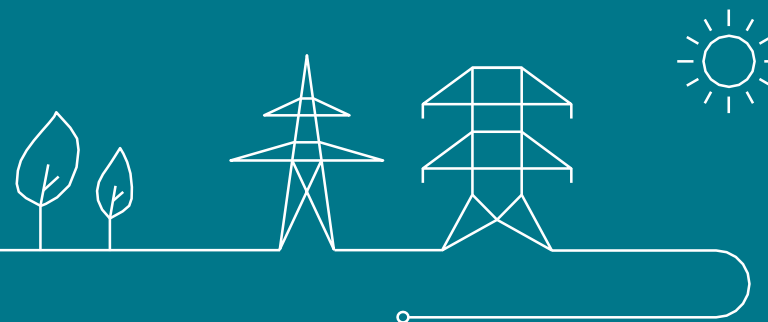
*For all publications done by PICASSO, the publication will be performed only when connected to PICASSO.

AOB



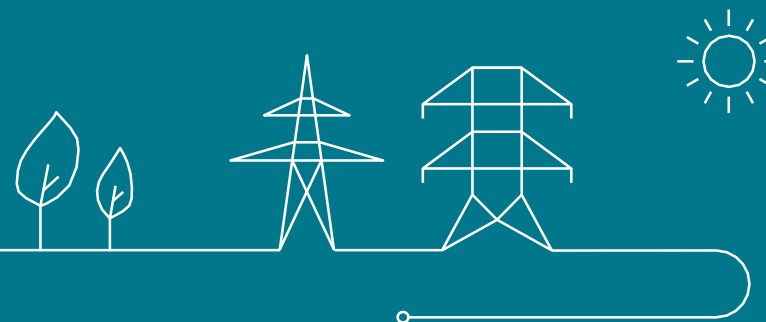
AOB - Simplify: results and implementation plan

Presented by Gilles Etienne



AOB – EU Balancing Program update

Presented by Cécile Pellegrin



Stakeholder management interactions

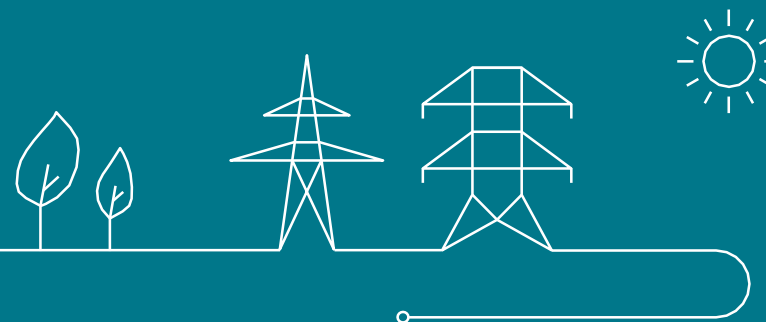


- *Access to Demo environment for PICASSO and Updated version of Technical Guide (focused on aFRR)*
- *Readiness check, aFRR Go live approach & updated roadmap*
- *Public Consultations*
 - *Symmetric aFRR bids exemption –> Consultation finalized and proposal submitted to CREG*
 - *Amendment LFC Means (mFRR Flex Phase out) –> Consultation finalized and proposal submitted to CREG*
 - *MARI derogation -> Consultation launched [23/11 – 14/12/21]*
 - *aFRR T&C -> Consultation launched today [08/12/21 – 18/01/22]*
 - *Balancing rules (amendment needed for PICASSO) -> Consultation to be launched at the end of this year*
- *Other next planned interaction(s):*
 - *Updated mFRR design note to be shared*



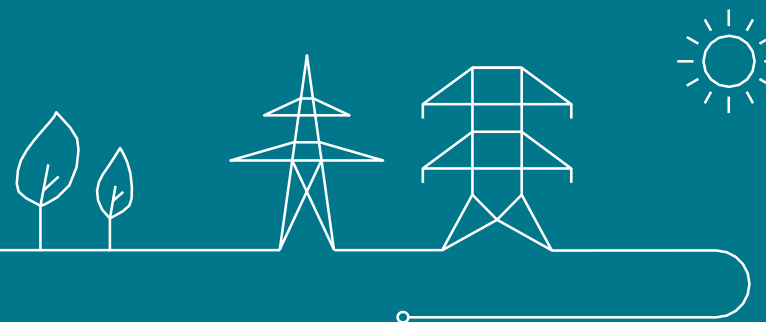
AOB – EMS for aFRR

Presented by Nicolas Pierreux



AOB – Next WG Balacing

Presented by Didier Chim



Next WG Balancing

2021

- Workshop on the future of Imbalance Price - 13/12/2021 – 9:30 – 12:30

2022

- WG Balancing 27/01/2022 9:00 – 13:00
- WG Balancing 22/03/2022 9:00 – 13:00
- WG Balancing 05/05/2022 9:00 – 13:00
- WG Balancing 22/06/2022 9:00 – 13:00
- WG Balancing 15/09/2022 9:00 – 13:00
- WG Balancing 27/10/2022 9:00 – 13:00
- WG Balancing 07/12/2022 9:00 – 13:00

Dates will be upload into the agenda of the [WG Balancing](#) page and [usergroups](#).

