



Market Reports

Customer Committee 1/2018

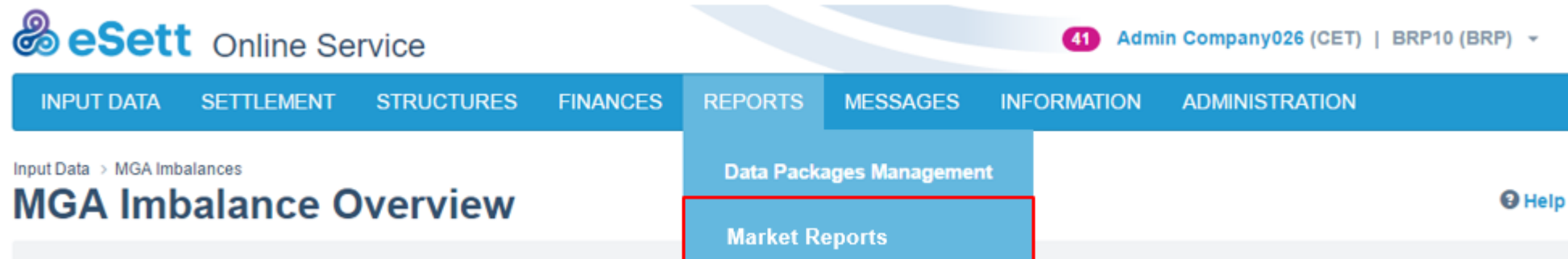
2018-04-10, Vantaa

Agenda

- Market Reports in Online Service
 - Advanced Settlement Report BRP
 - BRP Imbalance KPI
- The content of the reports
- General information about reports

When, where and whom?

- Reports will be introduced during Q4/2018
- Advanced Settlement Report BRP will be published in all countries
- BRP Imbalance KPI will be published in Norway and Sweden
- BRP will be able to display the reports via Online Service



The screenshot displays the eSett Online Service interface. At the top, the eSett logo and 'Online Service' text are on the left, and a user profile 'Admin Company026 (CET) | BRP10 (BRP)' with a dropdown arrow is on the right. A blue navigation bar contains the following menu items: INPUT DATA, SETTLEMENT, STRUCTURES, FINANCES, REPORTS, MESSAGES, INFORMATION, and ADMINISTRATION. Below this bar, the breadcrumb 'Input Data > MGA Imbalances' is shown. The main heading is 'MGA Imbalance Overview'. On the right side of the main content area, there is a 'Help' icon. A sidebar on the left shows 'Data Packages Management' and 'Market Reports' (which is highlighted with a red border).

Content of Advanced Settlement Report BRP

- BRP is able to display own data via Online Service
- Values are also presented as graphs
- User can select time aggregation for Week or Month
- Report's file format is .xls

Advanced Settlement Report BRP



Advanced Settlement Report

Week's Values

eSett's Consumption Imbalance Sales Qty	1 623
eSett's Consumption Imbalance Purchase Qty	4 141
Consumption Imbalance Result	-24 274 €
Relative Consumption Imbalance	2.54%

eSett's Production Imbalance Sales Qty	587
eSett's Production Imbalance Purchase Qty	37
Production Imbalance Loss	1 698 €
Relative Production Imbalance	5.02%

Volume	MWh
Day-ahead Purchase	200 557
Day-ahead Sell	0
Intraday Purchase	1 348
Intraday Sell	-442
Bilateral Purchase	32 758
Bilateral Sell	-20 832
Production Plan	13 170

Volume	MWh
Minor Production	50
Normal Production	12 428
Consumption	224 073

Volume	MWh
FRR-M Volume	329
FCR Volume	94
FRR-A Volume	183

BRP Name

BRP

MBA Name

All

Reported Week

7

Execution Time

13.3.2018 12:18:28

	Skewness	Min/Max allowed	Too skewed?
Consumption Imbalance	0,39	0,4/2,5	Yes
Production Imbalance	15,86	0,4/2,5	Yes

Consumption Imbalance Result and Relative Consumption Imbalance

- Consumption Imbalance Result formula:

$$(Spot Price - Consumption Imbalance Price) * (eSett Consumption Imbalance Sales Quantity - eSett Consumption Imbalance Purchase Quantity)$$

- Relative Consumption Imbalance formula:

$$\frac{Absolute Consumption Imbalance Quantity}{|Purchases + Production Plan + Minor Production + Sales|}$$

where Sales are negative values

Production Imbalance Loss and Relative Production Imbalance

- Production Imbalance Loss formula:

*(Spot Price – Consumption Imbalance Price) *
(eSett Production Imbalance Purchase Quantity – eSett Production Imbalance Sales Quantity),*
only positive values are taken into account to the sum

- Relative Production imbalance formula:

$$\frac{\text{Absolute Production Imbalance Quantity}}{\text{Normal Production}}$$

Imbalance Skewness for BRP

	Skewness value formula	Min/Max allowed value from formula	Too skewed?
Consumption Imbalance	$\frac{eSett\ Consumption\ Imbalance\ Sales\ Qty}{eSett\ Consumption\ Imbalance\ Purchase\ Qty}$	0,4/2,5	Yes/No
Production Imbalance	$\frac{eSett\ Production\ Imbalance\ Sales\ Qty}{eSett\ Production\ Imbalance\ Purchase\ Qty}$	0,4/2,5	Yes/No

Content of BRP Imbalance KPI

- BRPs operating in Norway or Sweden are able to display the data of own country
 - Report includes results of all other BRPs which are active in that specific country
- Report displays last 12 months data for closed settlement period
- The KPI colors are defined by BRP's Imbalance results and the predefined threshold limits

Consumption/Production Imbalance Factor







- Cons/Prod Imbalance Factor formula:

IF (eSett Cons/Prod Imbalance Purchase Qty > eSett Cons/Prod Imbalance Qty)

$$THEN \left(\frac{eSett \text{ Cons/Prod Imbalance Purchase Qty}}{eSett \text{ Cons/Prod Imbalance Sales Qty}} \right)$$

$$ELSE \left(\frac{eSett \text{ Cons/Prod Imbalance Sales Qty}}{eSett \text{ Cons/Prod Imbalance Purchase Qty}} \right)$$

Formula for BRP Imbalance KPI (Consumption) colors

Measure	Threshold	NO/SE value
Absolute Consumption Imbalance	ACI – absolute consumption imbalance	1800 MWh
Consumption Imbalance Factor	CIF ₁ – 1. threshold 	1,5
	CIF ₂ – 2. threshold 	2
	CIF ₃ – 3. threshold 	2,5
Relative Consumption Imbalance	RCI ₁ – 1. threshold 	6 %
	RCI ₂ – 2. threshold 	10 %
	RCI ₃ – 3. threshold 	12,50 %







[(Relative Consumption Imbalance < RCI₁) AND
 (Absolute Consumption Imbalance < ACI)]
 OR
 [(Relative Consumption Imbalance < RCI₁) AND
 (Consumption Imbalance Factor < CIF₁)]

GREEN Indicator = FALSE AND
RED Indicator = FALSE

doesn't apply for BRPs <1800 MWh/month Absolut Consumption Imbalance

(Relative Consumption Imbalance > RCI₃)
 OR
(Consumption Imbalance Factor > CIF₃)
 OR
**[(Relative Consumption Imbalance > RCI₂) AND
 (Consumption Imbalance Factor > CIF₂) AND
 (Absolute Consumption Imbalance > ACI)]**

Formula for BRP Imbalance KPI (Production) colors

Measure	Threshold	NO/SE value
Absolute Production Imbalance	API – absolute production imbalance	1800 MWh
Production Imbalance Factor	PIF ₁ – 1. threshold 	1,5
	PIF ₂ – 2. threshold 	2
	PIF ₃ – 3. threshold 	2,5
Relative Production Imbalance	RPI ₁ – 1. threshold 	2,5 %
	RPI ₂ – 2. threshold 	5 %
	RPI ₃ – 3. threshold 	6 %

[(Relative Production Imbalance < RPI₁) AND
(Absolute Production Imbalance < API)]

OR

[(Relative Production Imbalance < RPI₁) AND
(Production Imbalance Factor < PIF₁)]

**GREEN Indicator = FALSE AND
RED Indicator = FALSE**

doesn't apply for BRPs < 1800 MWh/month Absolut Production Imbalance

(Relative Production Imbalance > RPI₃)

OR

**[(Relative Production Imbalance > RPI₂ AND
(Production Imbalance Factor > PIF₂)]**

OR

**[(Production Imbalance Factor > PIF₃) AND
(Absolute Production Imbalance > API)]**

