



INNOVATIONS POUR RENFORCER L'EFFICACITÉ DU BOIS-ENERGIE

Solutions techniques et R&D pour le
collectif et l'industriel

13 octobre 2022
à LILLE

15e COLLOQUE



Avec le soutien de :



Région
Hauts-de-France

En partenariat avec :

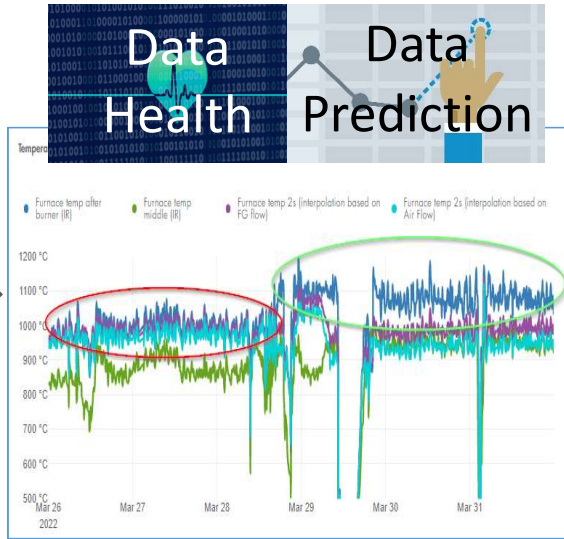
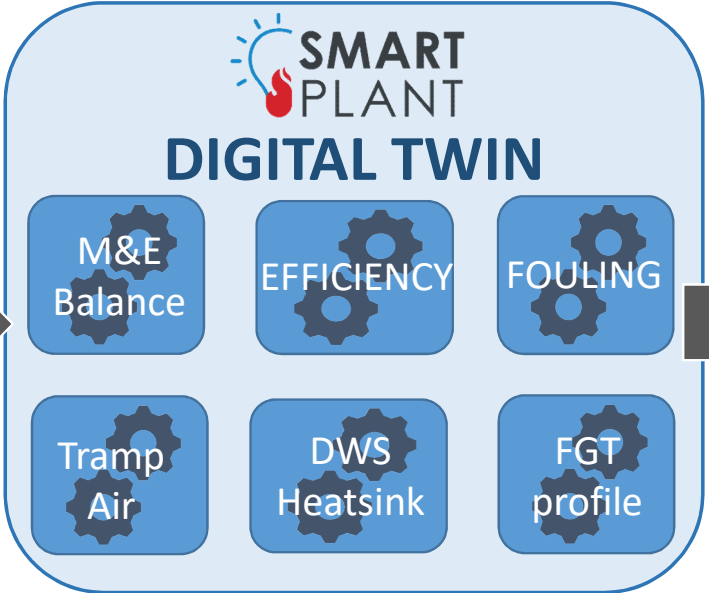
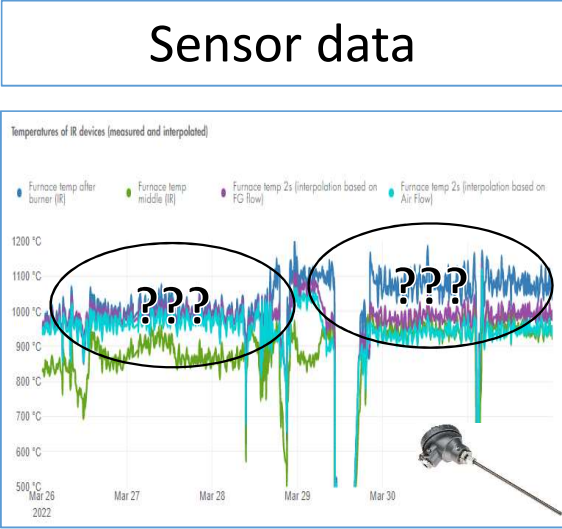


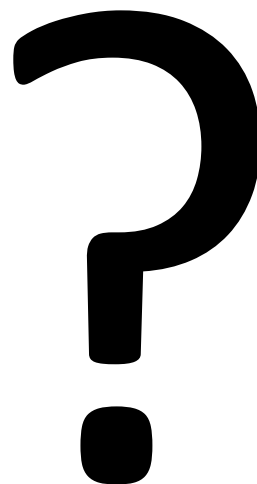


CLEAN ENERGY TECHNOLOGY

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SMARTPLANT





SMARTPLANT | Information sur les performances de fonctionnement

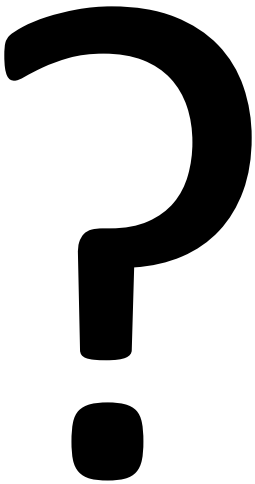


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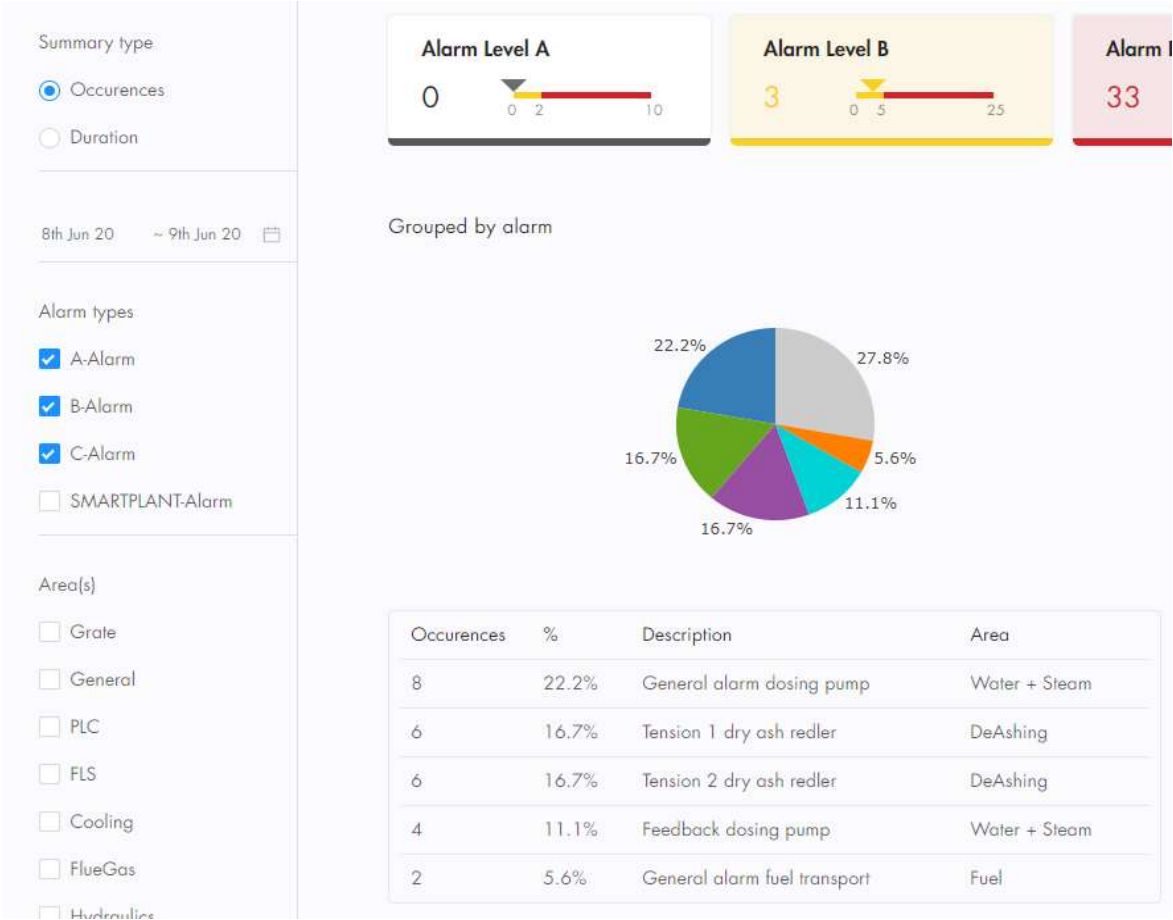


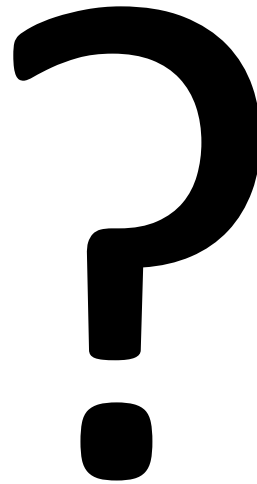


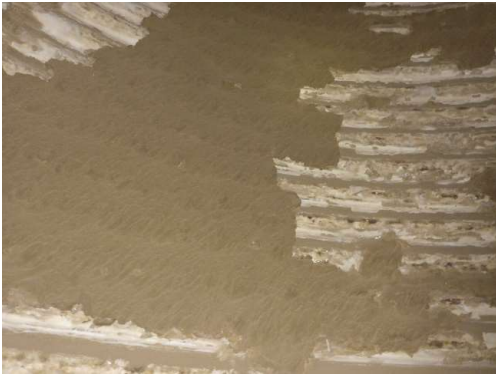
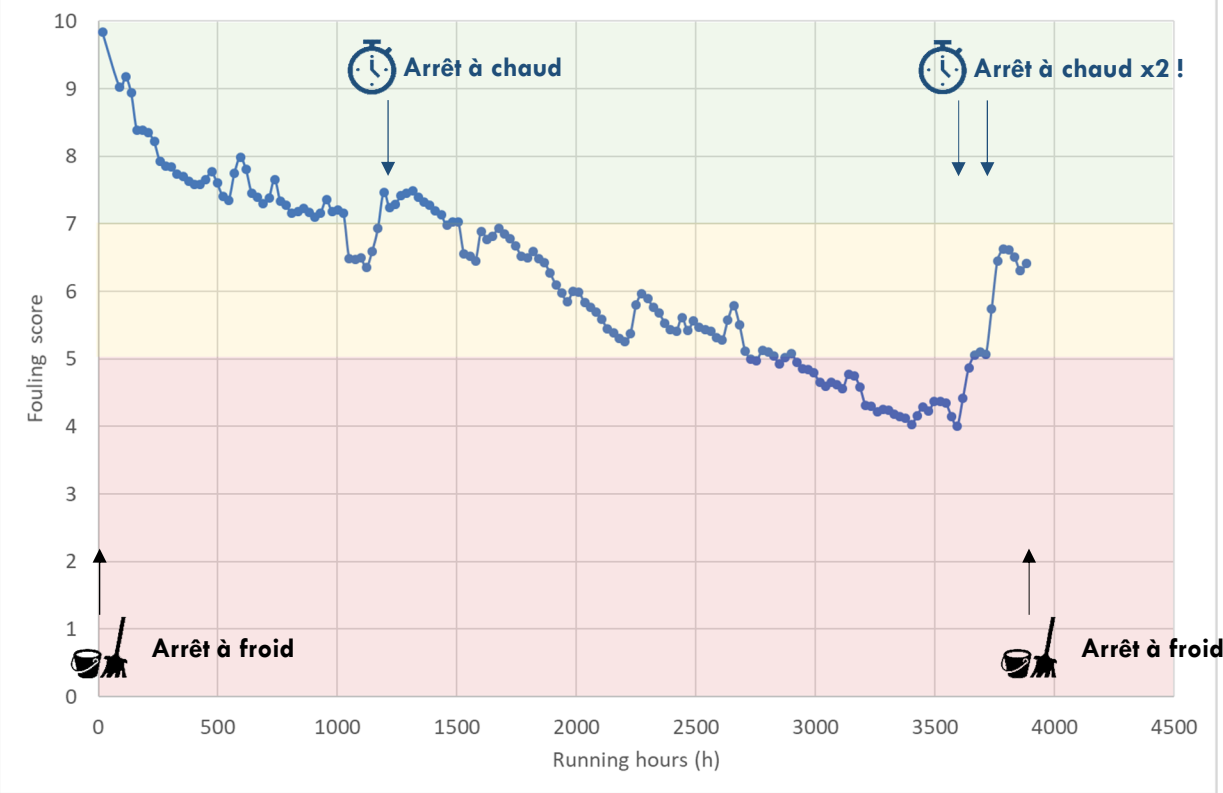


Date	Time	Group	Alarm text	Name
05/11/2020	05:56:19	AlarmC	Feedback bicar +PLC1-364-5	D125_A_FB_System
05/11/2020	05:56:08	AlarmC	Feedback bicar +PLC1-364-5	D125_A_FB_System
05/11/2020	05:52:33	AlarmA	Temperature low furnace - ignite +PLC1-457TT1	D050_A_TAL_FurnIgn
05/11/2020	05:52:29	AlarmC	Signal VENTING OK lost	D014_A_VentNotOK
05/11/2020	05:52:29	AlarmA	Temperature low furnace - ignite +PLC1-457TT1	D050_A_TAL_FurnIgn
05/11/2020	05:52:23	AlarmA	Temperature low furnace - ignite +PLC1-457TT1	D050_A_TAL_FurnIgn
05/11/2020	05:52:23	AlarmC	Signal VENTING OK lost	D014_A_VentNotOK
05/11/2020	05:50:01	AlarmC	Combustion not running	D014_A_CombNotRunning
05/11/2020	05:48:18	AlarmC	Filter general alarm +PLC1-364-2	D123_A_AlarmFilter
05/11/2020	05:46:08	AlarmC	Feedback bicar +PLC1-364-5	D125_A_FB_System
05/11/2020	05:46:04	AlarmC	Filter general alarm +PLC1-364-2	D123_A_AlarmFilter
05/11/2020	05:45:59	AlarmC	Filter general alarm +PLC1-364-2	D123_A_AlarmFilter
05/11/2020	05:44:58	AlarmC	Feedback fuel transport FLS-R +PLC-363-1	D100_A_FB_System
05/11/2020	05:44:55	AlarmC	Combustion not running	D014_A_CombNotRunning
05/11/2020	05:44:20	AlarmC	Combustion not running	D014_A_CombNotRunning
05/11/2020	05:34:33	AlarmB	Speed switch 1 deashing double flap grate +PLC1-356ZSC5	D117_A_SS_1Motor1
05/11/2020	05:34:30	AlarmB	Speed switch 1 deashing double flap grate +PLC1-356ZSC5	D117_A_SS_1Motor1
05/11/2020	05:34:18	AlarmB	Speed switch 1 deashing double flap grate +PLC1-356ZSC5	D117_A_SS_1Motor1
05/11/2020	05:34:13	AlarmB	Speed switch 1 deashing double flap grate +PLC1-356ZSC5	D117_A_SS_1Motor1
05/11/2020	05:34:13	AlarmC	Level low bunker FLS-R warning +PLC1-210LR3	D090_A_LAL_BunkerWarn
05/11/2020	05:34:10	AlarmB	Speed switch 1 deashing double flap grate +PLC1-356ZSC5	D117_A_SS_1Motor1
05/11/2020	05:33:00	AlarmB	Speed switch 1 deashing double flap grate +PLC1-356ZSC5	D117_A_SS_1Motor1
05/11/2020	05:30:30	AlarmB	Speed switch watercooled deashing screw grate +PLC1-356SS1	D116_A_SS_Motor
05/11/2020	05:30:30	AlarmC	Feedback ash transport +PLC-363-3	D122_A_FB_System
05/11/2020	05:30:30	AlarmC	Alarm ash transport +PLC-363-4	D122_A_TO_System
05/11/2020	05:30:30	AlarmB	Deashing cyclone not running warning	D123_A_NotRunWarnDeash
05/11/2020	05:30:27	AlarmB	Speed switch watercooled deashing screw grate +PLC1-356SS1	D116_A_SS_Motor
05/11/2020	05:30:27	AlarmC	Level high CO alarm CEM	D380_A_LAH_COAlarm
05/11/2020	05:30:27	AlarmC	Level high CO warning CEM	D380_A_LAH_COWarn
05/11/2020	05:28:53	AlarmC	Level high CO alarm CEM	D380_A_LAH_COAlarm
05/11/2020	05:27:51	AlarmB	Speed switch watercooled deashing screw grate +PLC1-356SS1	D116_A_SS_Motor
05/11/2020	05:24:53	AlarmC	Level high CO warning CEM	D380_A_LAH_COWarn
05/11/2020	05:19:51	AlarmC	Level low bunker FLS-R warning +PLC1-210LR3	D090_A_LAL_BunkerWarn
05/11/2020	05:19:35	AlarmC	Level low bunker FLS-R warning +PLC1-210LR3	D090_A_LAL_BunkerWarn
05/11/2020	05:19:20	AlarmA	Level low bunker FLS-R alarm +PLC1-210LR3	D090_A_LAL_BunkerAlarm
05/11/2020	05:19:20	AlarmC	Level low bunker FLS-R warning +PLC1-210LR3	D090_A_LAL_BunkerWarn
05/11/2020	05:19:17	AlarmB	Deashing cyclone not running warning	D123_A_NotRunWarnDeash
05/11/2020	05:18:28	AlarmB	Deashing cyclone not running warning	D123_A_NotRunWarnDeash

ReadyPending: 27 To acknowledge: 0 Hidden 0 List: 50







ARRÊT À FROID : 48-72h
ARRÊT À CHAUD : 4-6h











Efficiency

Overview of plant efficiency

Overview





Efficiency

Overview of plant efficiency

Overview



SMARTPLANT | V.CARE – Exemple #1 : Perte d'efficacité



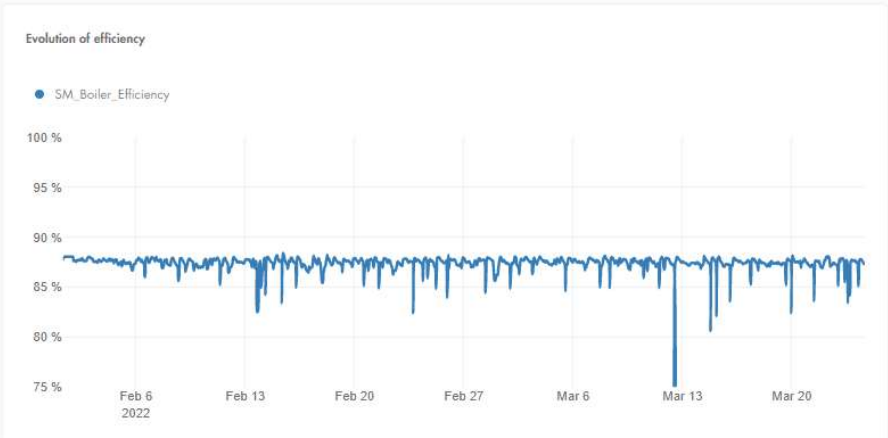
Efficiency

Overview of plant efficiency

Overview



Detailed view on efficiency



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SMARTPLANT | V.CARE – Exemple #1 : Perte d'efficacité



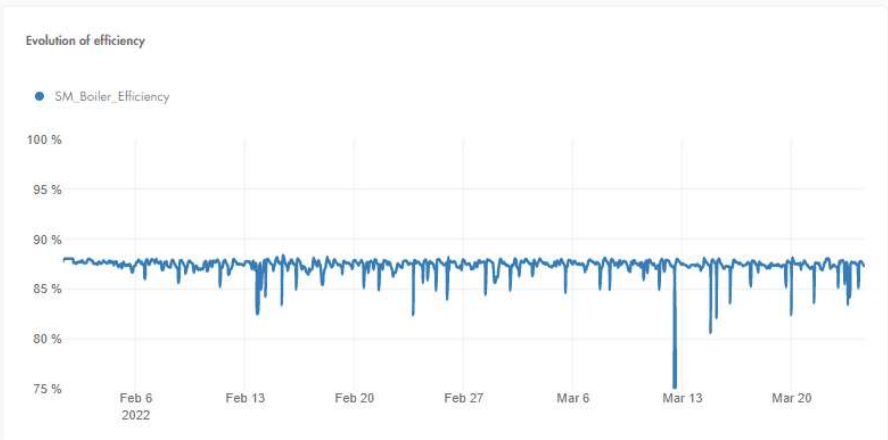
Efficiency

Overview of plant efficiency

Overview



Detailed view on efficiency



Evolution of losses



SMARTPLANT | V.CARE – Exemple #1 : Perte d'efficacité



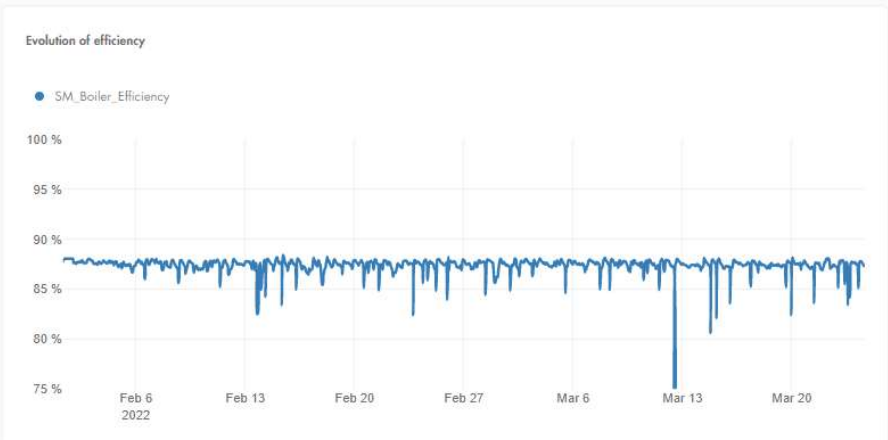
Efficiency

Overview of plant efficiency

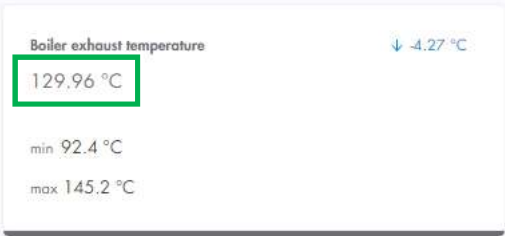
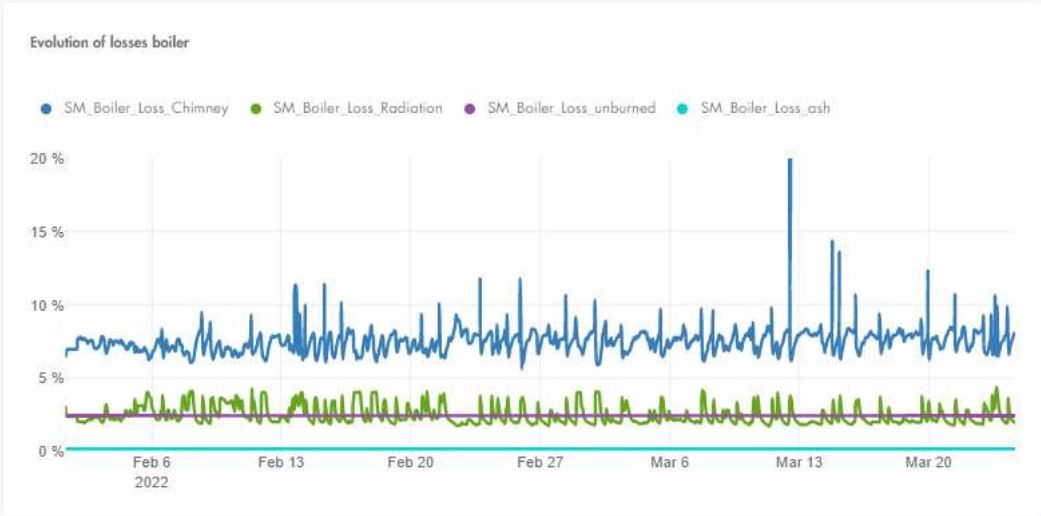
Overview



Detailed view on efficiency



Evolution of losses



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SMARTPLANT | V.CARE – Exemple #1 : Perte d'efficacité



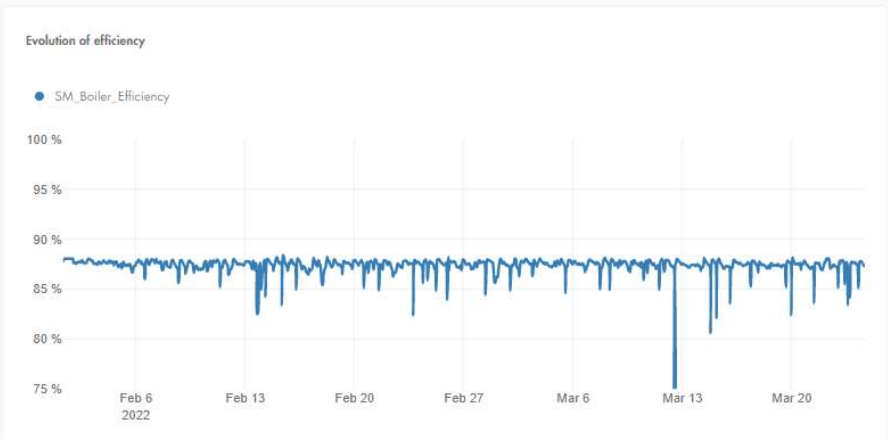
Efficiency

Overview of plant efficiency

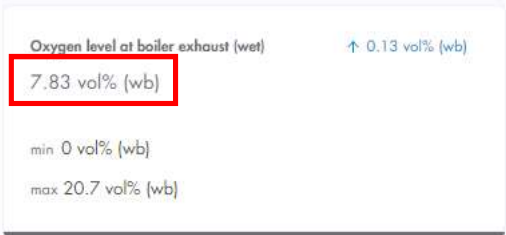
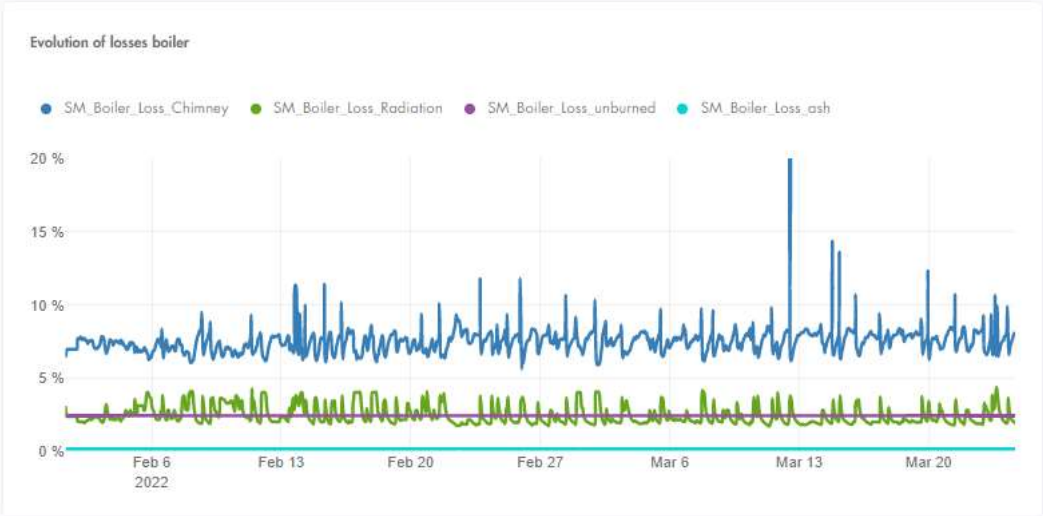
Overview



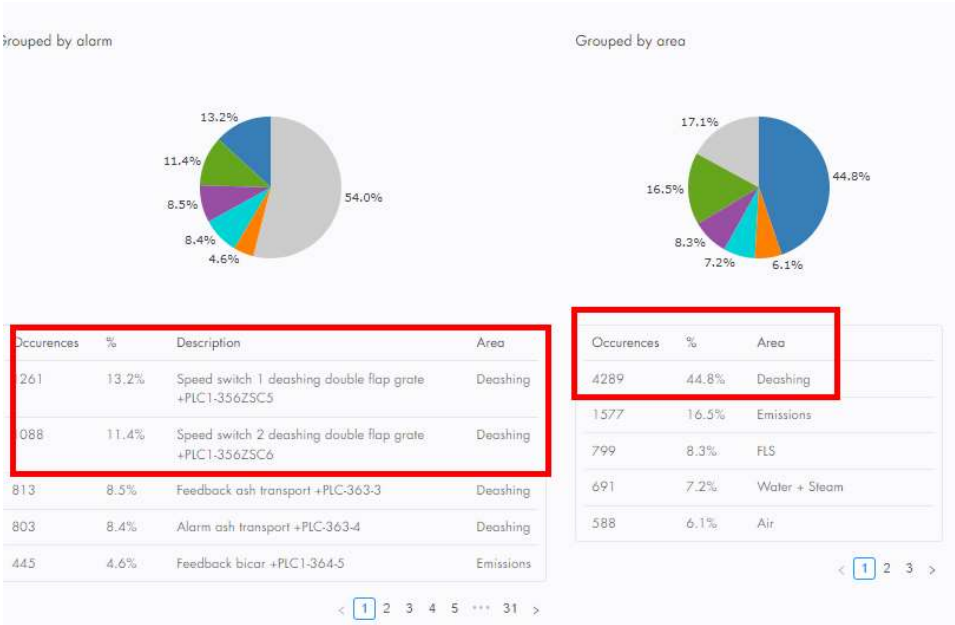
Detailed view on efficiency



Evolution of losses



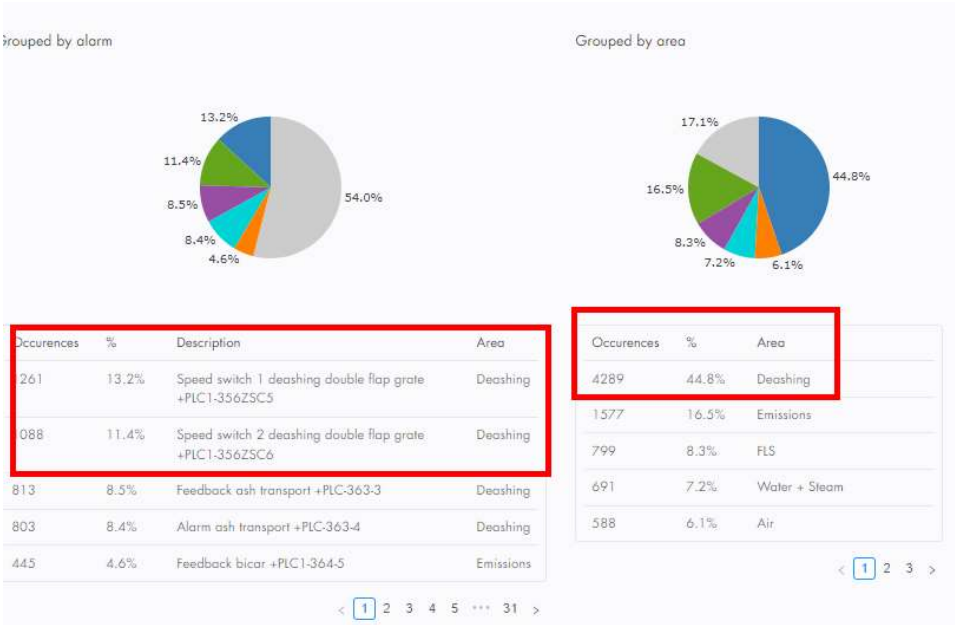
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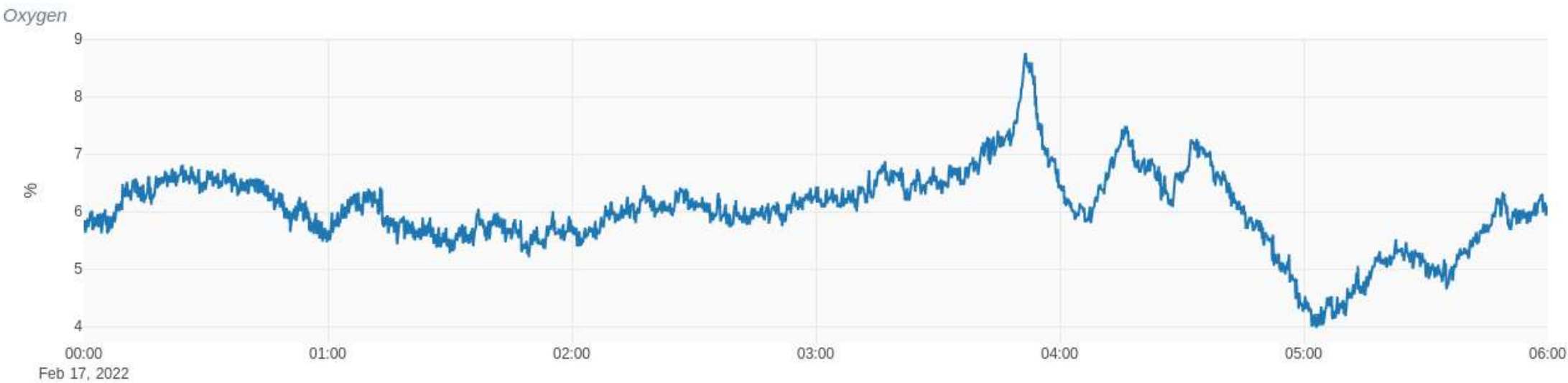
Evolution of losses



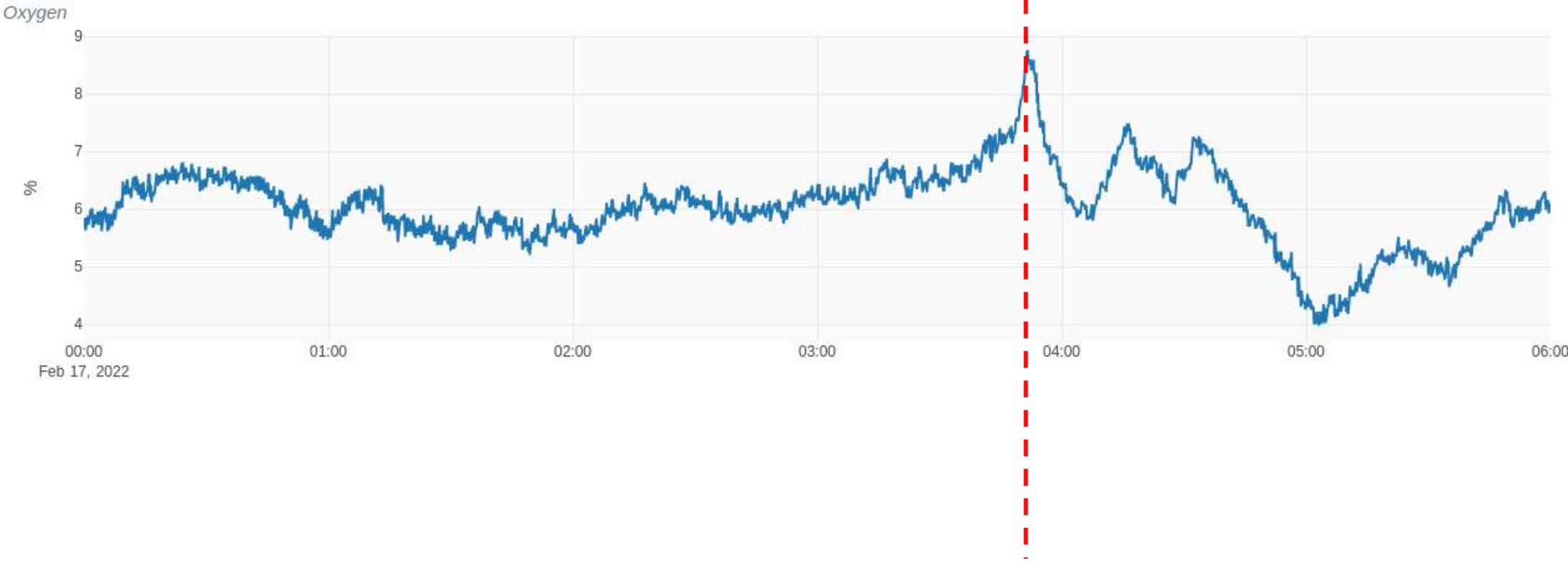
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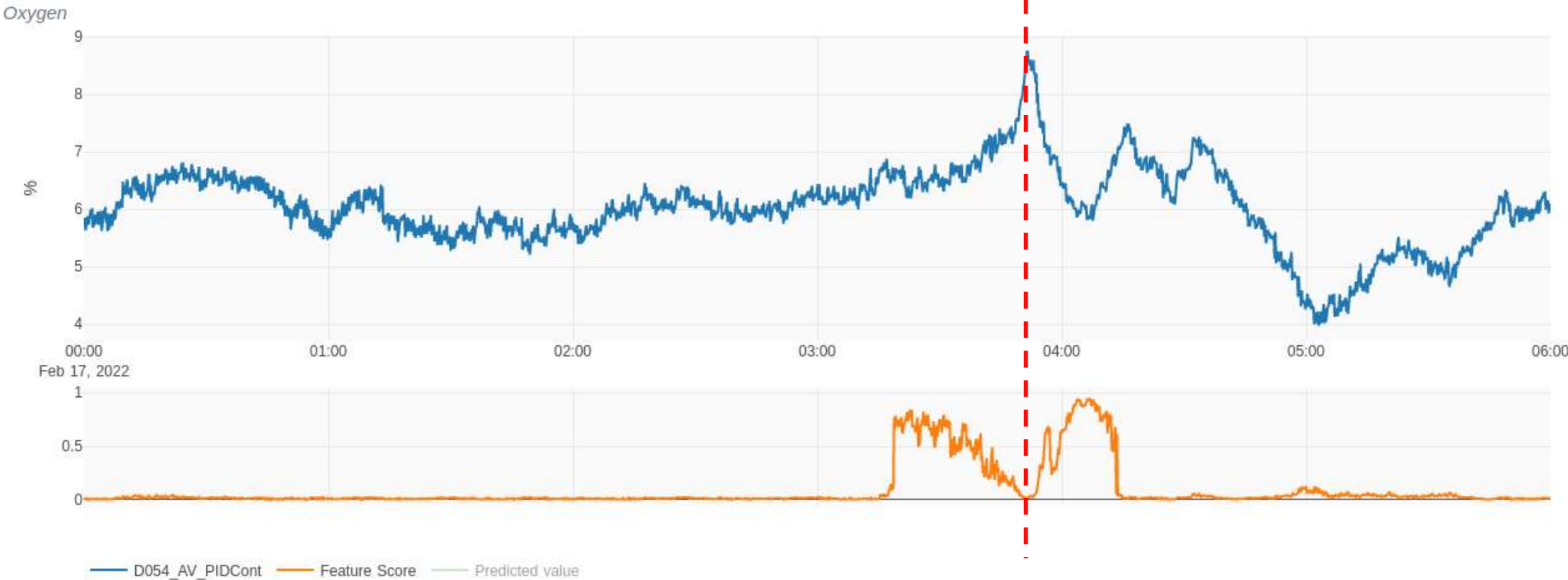




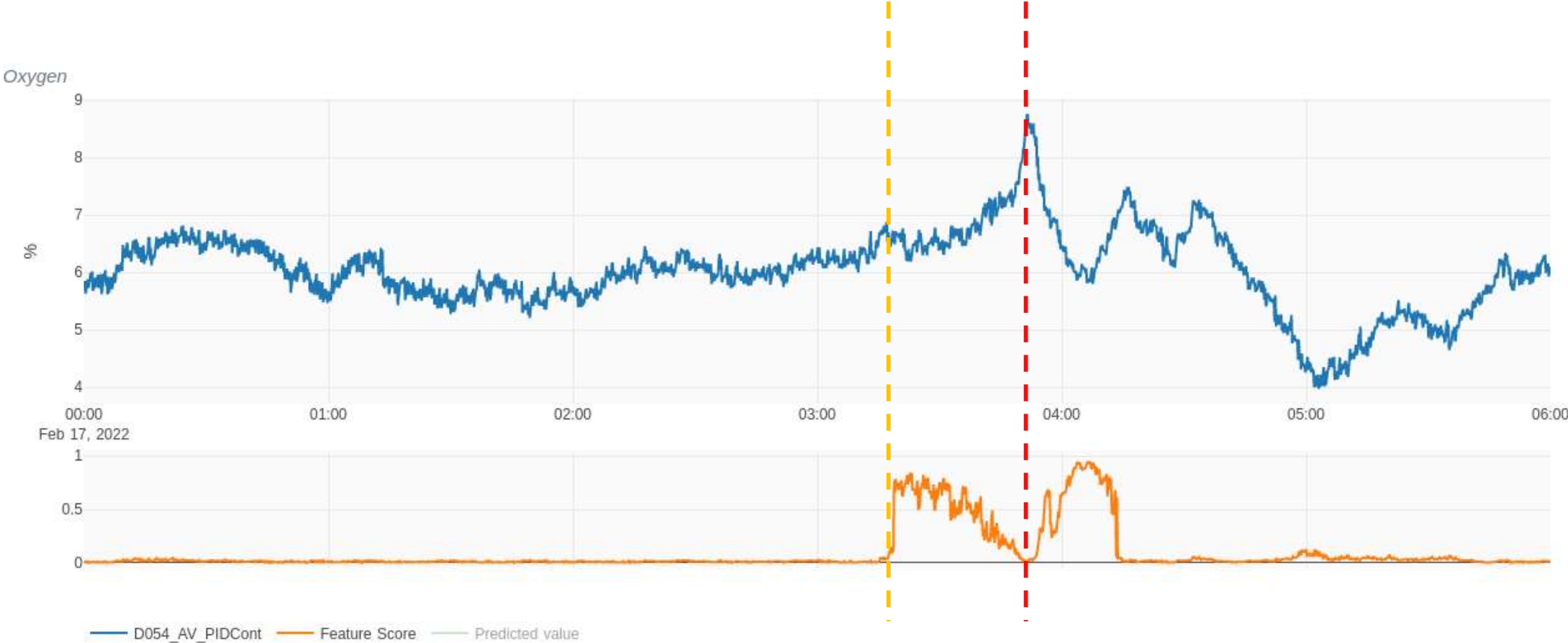
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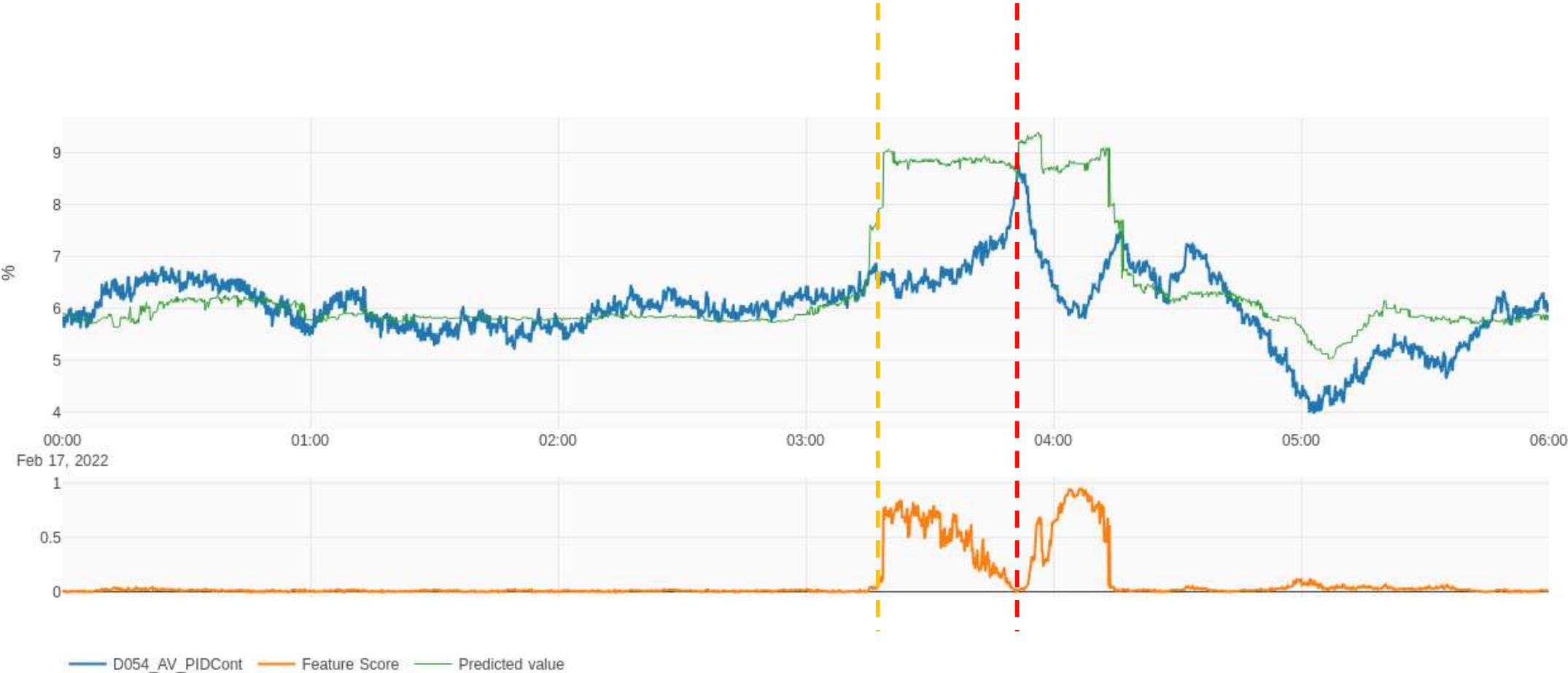
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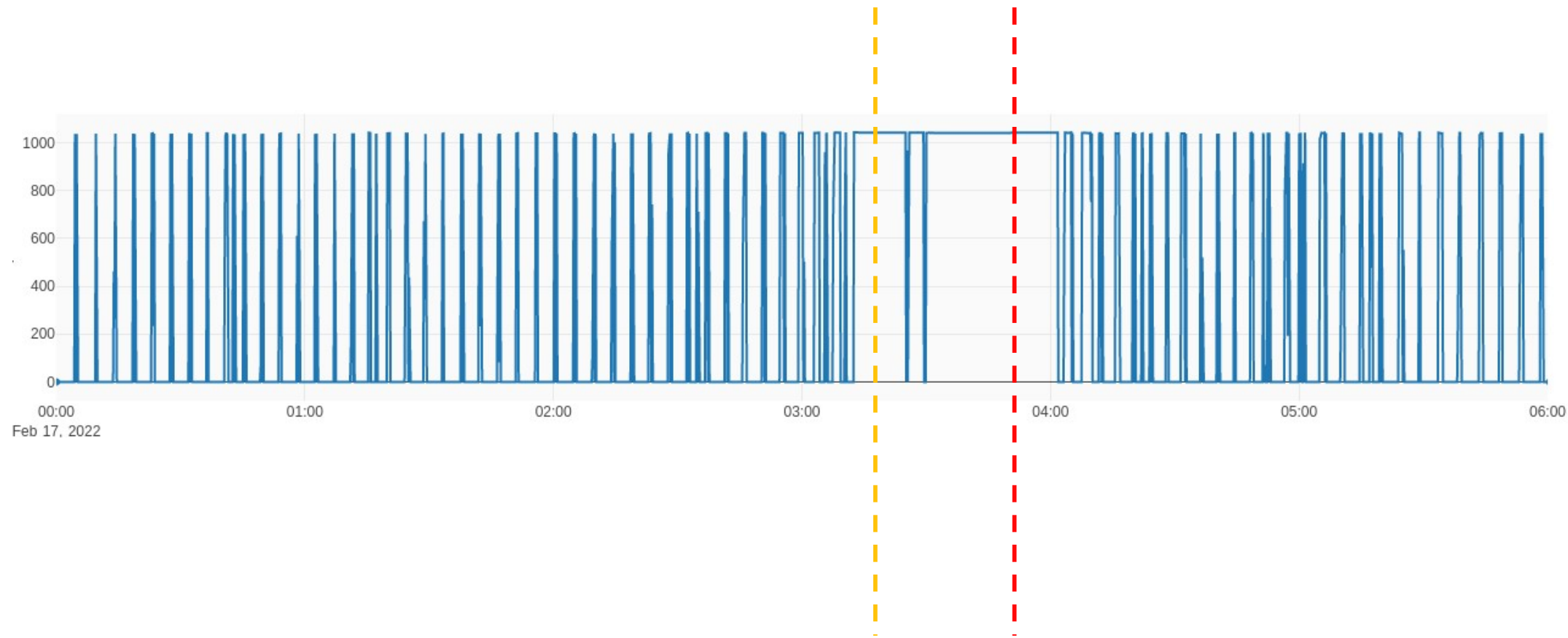
SMARTPLANT | V.CARE – Exemple #2 : Anticipation



SMARTPLANT | V.CARE – Exemple #2 : Anticipation

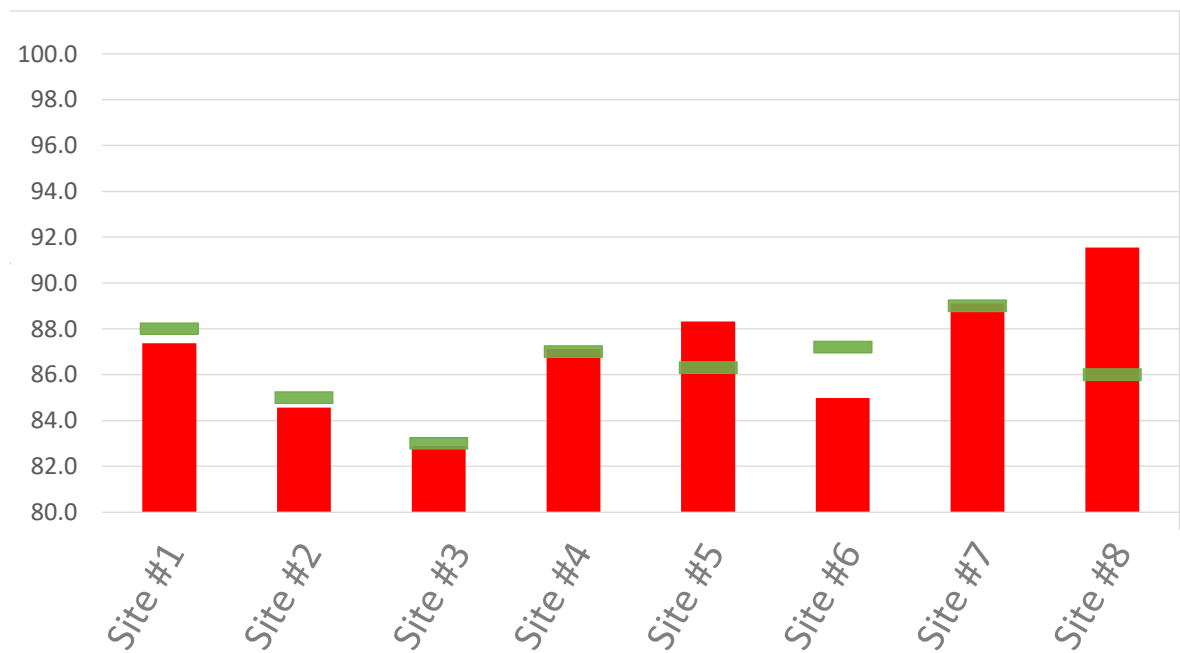


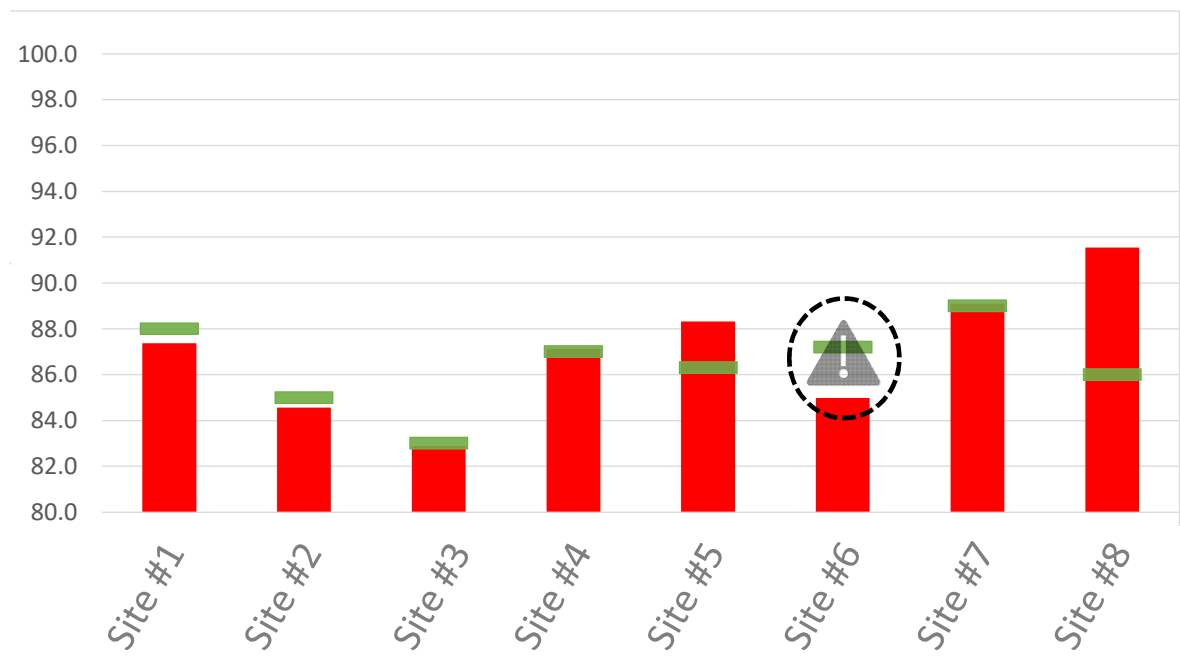
SMARTPLANT | V.CARE – Exemple #2 : Anticipation





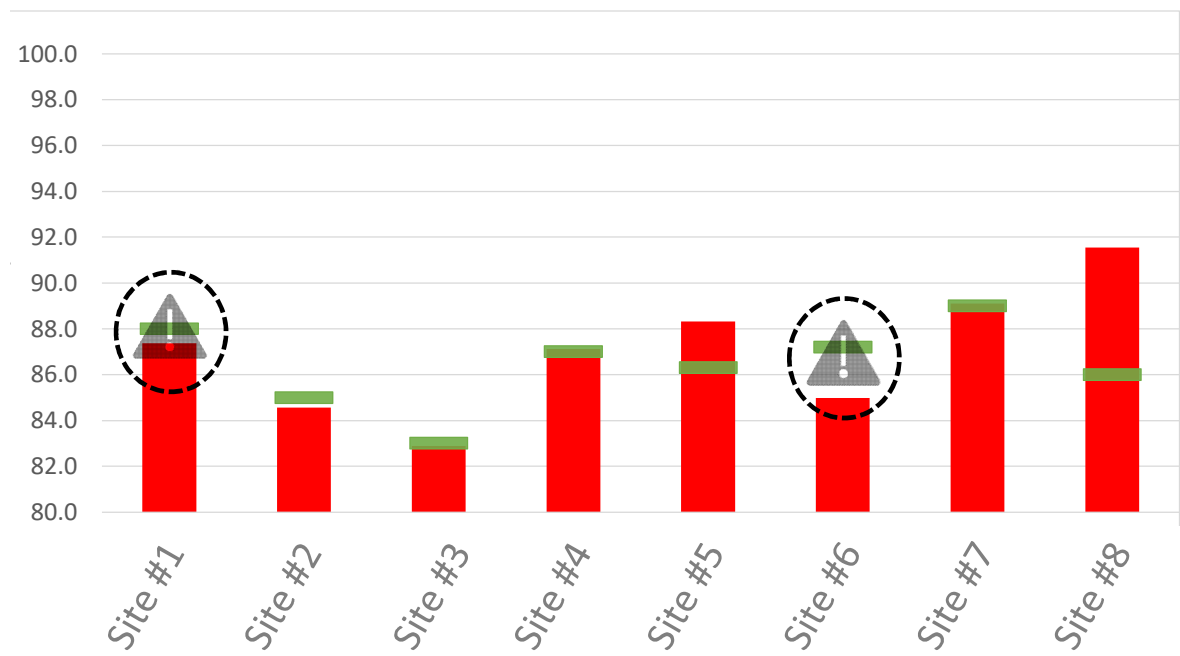
SMARTPLANT | V.CARE – Benchmarking anonyme au profit de TOUS nos clients





Score **calculé** < Score **cdesign**

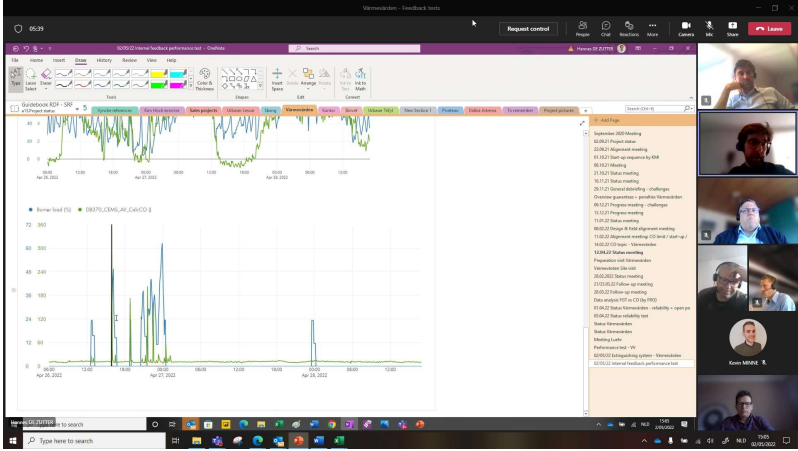
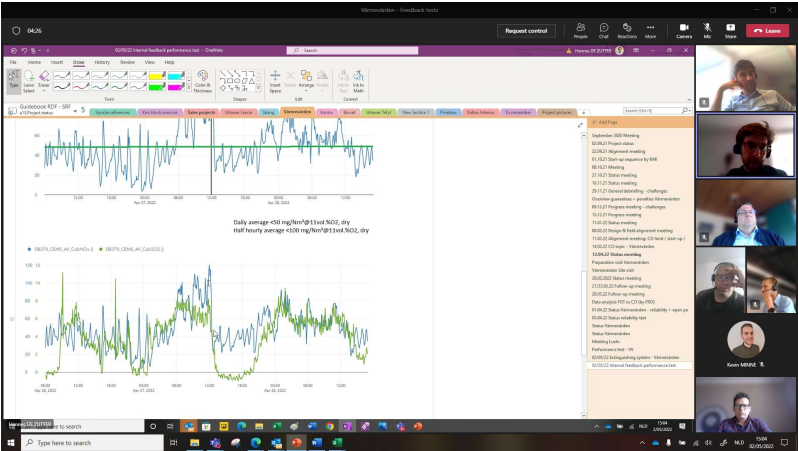
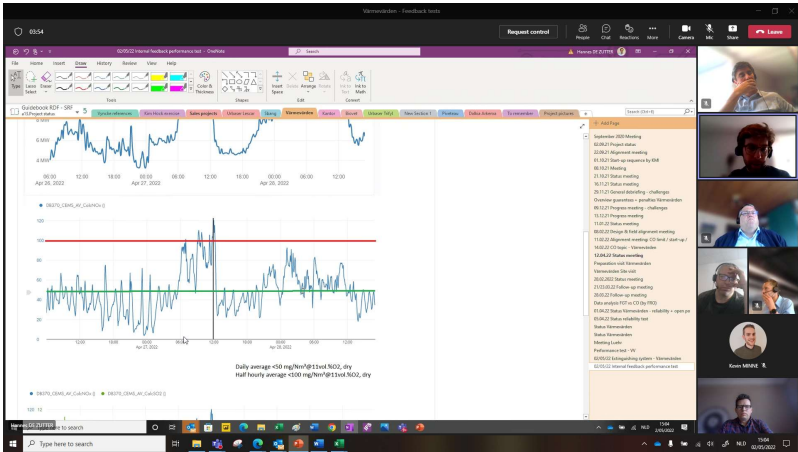
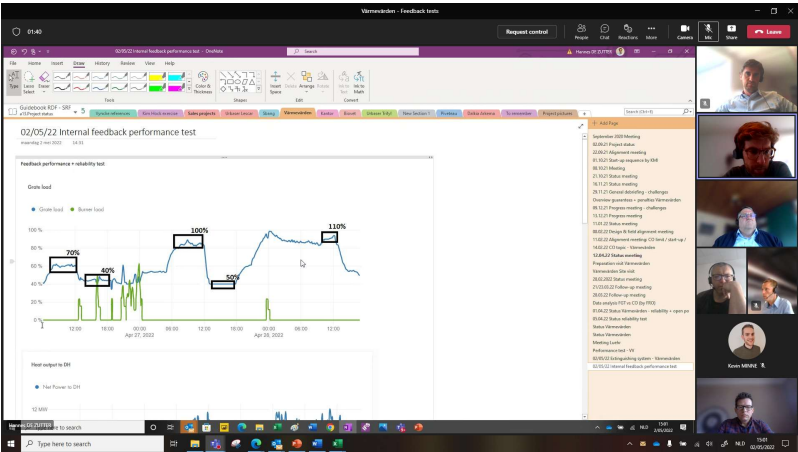




Score **calculé** < Score **cdesign**



SMARTPLANT | V.CARE – Benchmarking anonyme au profit de TOUS nos clients



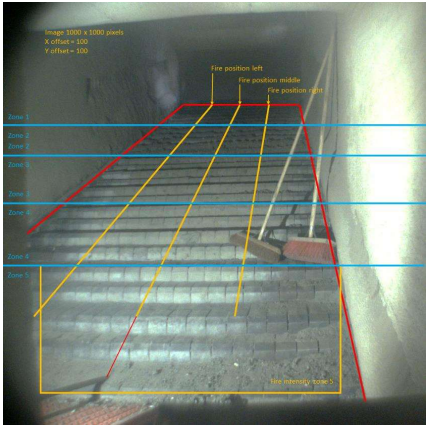
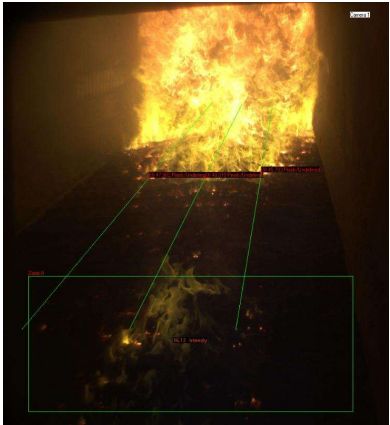
SMARTPLANT | Et encore bien d'autres possibilités... existantes et à venir !



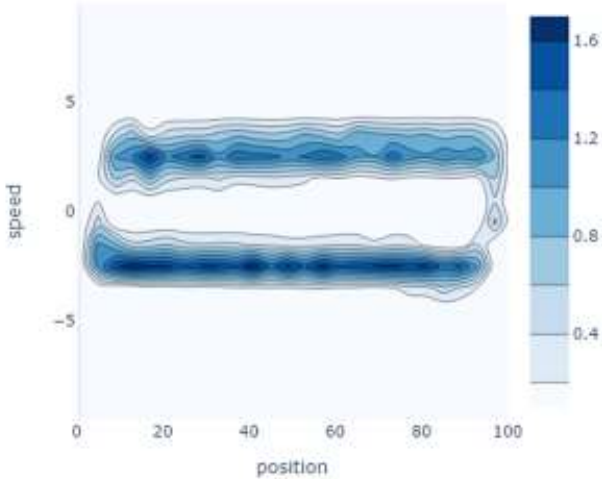
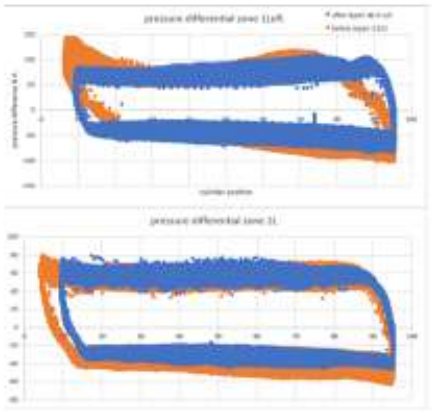
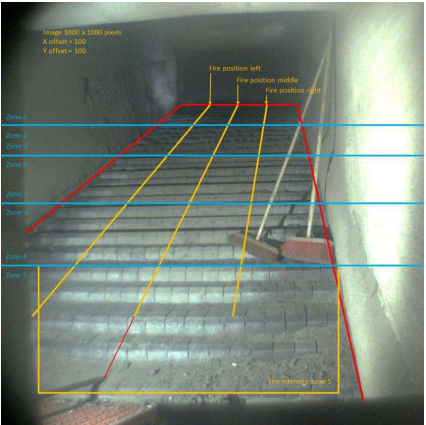
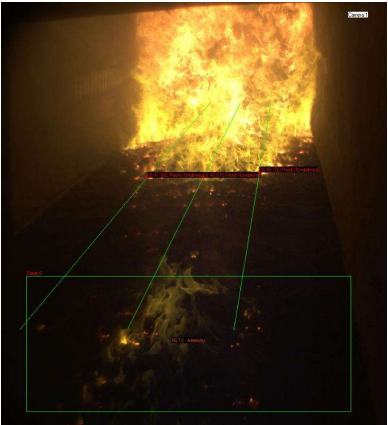
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SMARTPLANT | Et encore bien d'autres possibilités... existantes et à venir !



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LA COMBUSTION

Nous sommes des vrais igniteurs ! Vous aider à maîtriser l'énergie de la combustion, c'est notre passion.

L'INDUSTRIE

Notre mission est d'énergiser l'industrie en respectant notre milieu de vie.

BIOMASSE ET CSR

En combustion, la matière organique est une source d'énergie neutre en CO₂.

CLEAN

ENERGY

TECHNOLOGY



EAU CHAUDE

| 1 - 80 MW



EAU FROIDE

| 1 - 60 MW



VAPEUR SATURÉE

| 1 - 80 MW



HUILE THERMIQUE

| 3 - 40 MW



AIR CHAUD

| 1 - 100 MW



ÉLECTRICITÉ

| 0.5 - 20 MWe

