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P1			Windpark Konings	spleij- Management Su	mmary					
Р3	This Monthly Technical Operations Report provides insights in the performance of Windpark Koningspleij, located in a line arrangement north of the high way N325 in the municipality of Arnhem, comprising of 3 wind turbines of the type Enercon E-115 EP3 - 4,2 MW. Emphasis is put upon the key figures, the owners' objectives and the relation of those to the historical trends.									
P4	and the relation of those to the historical trends.									
P6	Select all									
P7	January February March									
P8	☐ April☐ May☐ June	Monthly	1,084	98.8%	-32.0%	0				
P10	☐ July☐ August☐ September	, , , , , , , , , , , , , , , , , , , ,	Energy production [MWh]	Contractual Availability	Production vs Forecast	HSE Events				
P11	October November									
212	December									
P13		Year to date	11,740	96.60%	-34.6%	0				
P14			Energy production [MWh] YTD	Contractual Availability YTD	Production vs Forecast YTD	HSE YTD				

OutSmart Р1 P2 Р3 Р4 P5 2K P6

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OVERVIEW Monthly Data

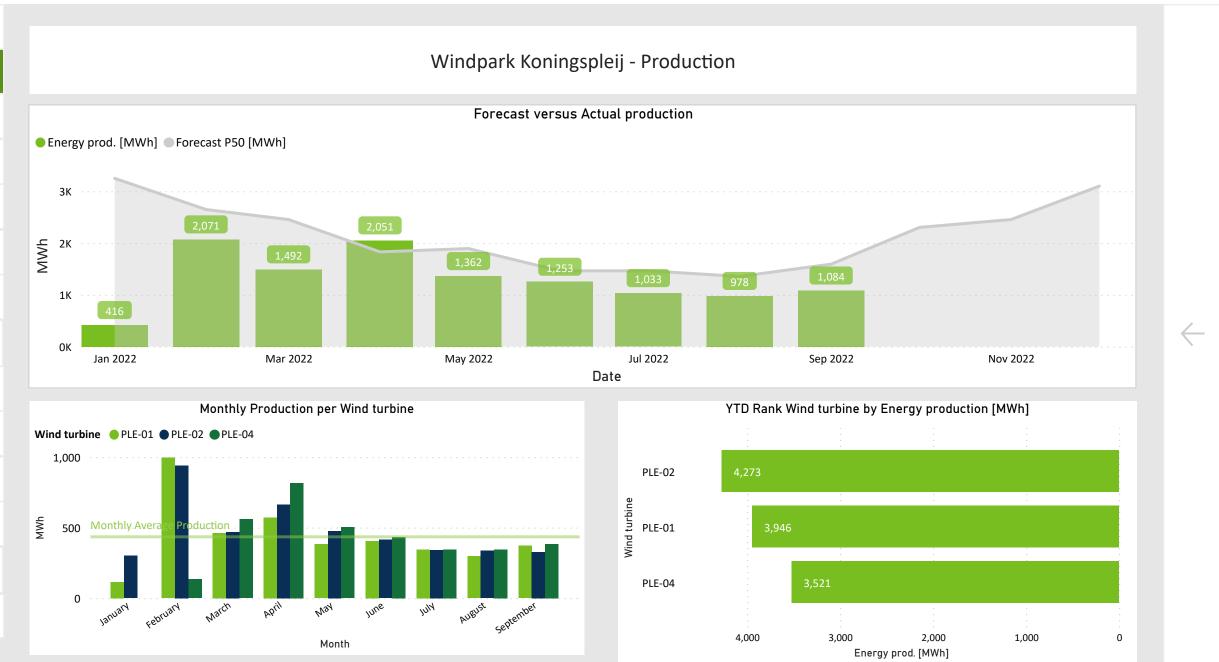
Month September

1,084 Energy prod. [MWh]

98.8% **Contractual Availability** -32.0%

0

Production vs Forecast Sum of HSE





OVERVIEW

Month September

1,084

98.8%

-32.0%

0

Monthly Data

Energy prod. [MWh]

Contractual Availability

Production vs Forecast

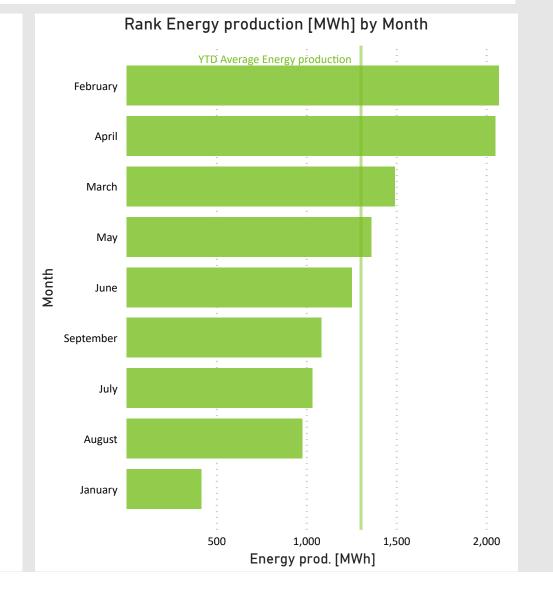
Sum of HSE

Р1

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Windpark Koningspleij - Production (2)

Month	Energy production [MWh]	Forecast P50 [MWh]	Production vs Forecast YTD
January	416.42	3,250.00	-87.2%
February	2,070.68	2,648.00	-21.8%
March	1,492.14	2,454.00	-39.2%
April	2,051.42	1,830.00	12.1%
May	1,361.91	1,894.00	-28.1%
June	1,252.74	1,464.00	-14.4%
July	1,032.94	1,464.00	-29.4%
August	978.30	1,356.00	-27.9%
September	1,083.50	1,593.00	-32.0%
Total	11,740.03	17,953.00	-34.6%



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Monthly Data

Month >

1,084
Energy prod. [MWh]

98.8%

Contractual Availability

-32.0%

0

Production vs Forecast

Sum of HSE

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Windpark Koningspleij - Availability

Contractual availability is: T1 / (T2 - T3 - T4 - T5) x 100%

The contractual availability is calculated according to the EPK Contract, however without any contractual agreed adjustments like, for example, the maintenance factor.

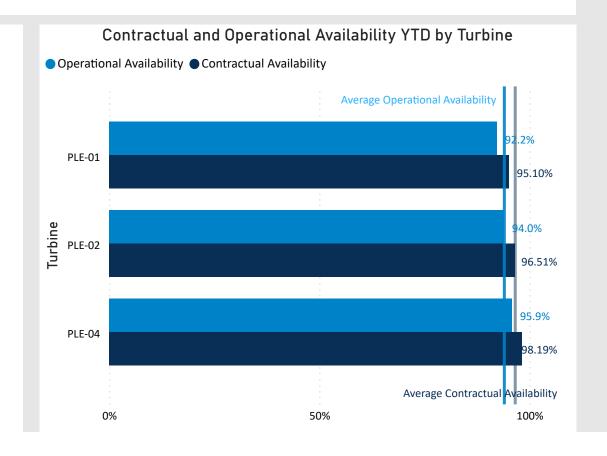
The contractual availability presented below, is based on the down time allocation performed by OutSmart.

Operational availability is: Toperationalhours / T2 x 100%

The operational availability includes all downtime except for downtime due to environmental specification such as low wind.

The operational availability is normally equal to or slightly lower than the contractual availability.

Month	Contractual	Availability	Operational Availability
April		88.77%	79.93%
May		94.72%	93.99%
June		99.11%	97.76%
July		98.99%	96.94%
August		99.20%	97.72%
September		98.81%	97.72%
Total		96.60%	94.01%





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Month September

1,084 Energy prod. [MWh] 98.8%

Contractual Availability

-32.0%

0

Production vs Forecast Sum of HSE

Monthly Data

Windpark Koningspleij - Availability (2)

Annual Technical Availability for a period of twelve consecutive full calendar months from April 2020 (rolling) is; Annual technical availability (%) =T112 months rolling/ (T2₁₂ months rolling⁻ T3₁₂ months rolling - T4₁₂ months rolling - T5₁₂ months rolling) x 100%

Maintenance Factor; Since scheduled maintenance procedures are necessary for a safe and proper WEC operation, a wind energy converter is deemed to be technically available during these periods of time. The maintenance factor for the wind turbine type E-115 EP 3 is 0,61%.

EPK availability (%) = Annual Technical Availability + Maintenance Factor

Calculation of Compensation in case the warranted availability is not reached: Closs=(Ag-AEPK)*AEP*PPP Where Ag is the warranted availability [%]*, AEPK the calculated availability [%], AEP the energy yield for the previous operational year plus the compensation for the lack of availability for the previous operation year, and PPP the compensation rate.

*As by Particular Conditions EPK Contract No. S-11971-V01 the warranted availability per Wind Farm is 98% while per WEC it is 95% (related to the operational year).

Bazefield ID	Contractual Availability YTD	Warranted Availability	Maintenance Factor	EPK Availability
PLE-WTG001	95.10%	98.00%	0.61%	95.71%
PLE-WTG002	96.51%	98.00%	0.61%	97.12%
PLE-WTG004	98.19%	98.00%	0.61%	98.80%
Total	96.60%	98.00%	0.61%	97.21%





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OVERVIEWMonthly Data

Month ✓
September ✓

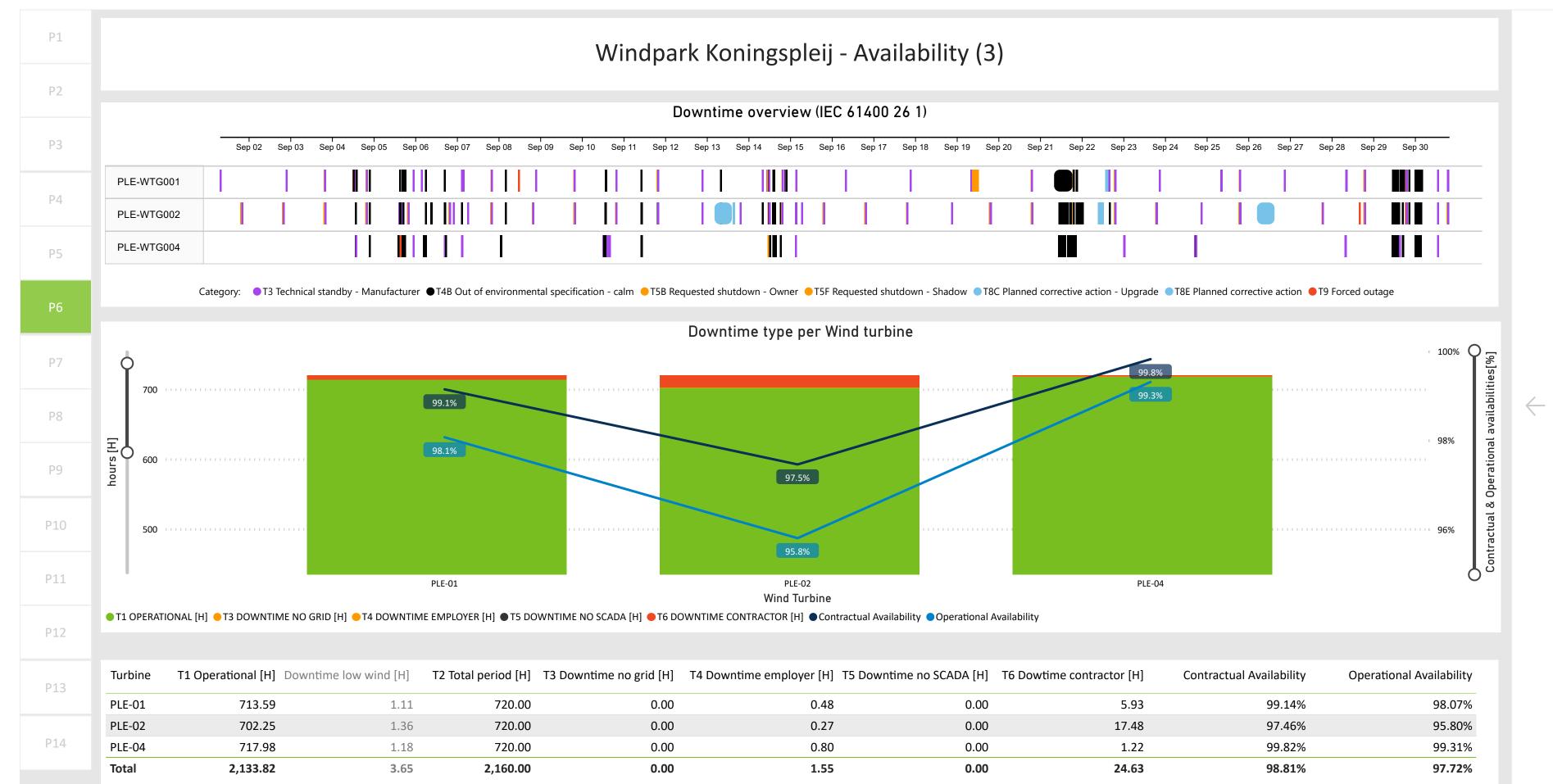
1,084
Energy prod. [MWh]

98.8%Contractual Availability

-32.0%
Production vs Forecast

Sum of HSE

0





Р1

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OVERVIEW

Monthly Data

Month ∨
September ∨

1,084
Energy prod. [MWh]

98.8%Contractual Availability

-32.0%

0

Production vs Forecast

Sum of HSE

Windpark Koningspleij - Technical Condition Event List

Events	Duration [H]	Lost Production [kWh]	Occurrence
STATUS : Maintenance () (8)	23.27	18,854	
PLE-02	17.44	16,291	
PLE-01	5.83	2,563	
STATUS: Shadow shutdown (Active (internal)) (4)	11.40	4,297	
PLE-02	8.90	3,777	
PLE-01	2.50	519	
STATUS : Calibration of load control (0)	5.51	1,823	
PLE-01	2.39	1,061	
PLE-02	1.89	608	
PLE-04	1.23	153	
STATUS: Cable twisted (Right (2-3 turns)) (21)	5.13	274	
PLE-02	1.71	89	
PLE-04	1.71	20	
PLE-01	1.70	165	
STATUS: Fault wind measurement (No wind speed 1) (20)	1.14	7	
PLE-04	1.14	7	
STATUS: Cable twisted (Right (>3 turns)) (21)	0.93	301	
PLE-01	0.93	301	
STATUS: Ice detection (Abandon nacelle positioning) (14)	0.85	23	
PLE-04	0.61	15	
PLE-01	0.17	6	
PLE-02	0.08	2	
STATUS : Ice detection (SCADA (external)) (14)	0.70	25	
PLE-01	0.31	15	
PLE-02	0.19	7	
PLE-04	0.19	3	
STATUS: Overcurrent inverter (Cross short circuit inverter 13) (64)	0.09	8	
PLE-01	0.09	8	
STATUS: Inverter bus error (Fastcom Inv. Ctrl. 4 CPU1) (202)	0.04	2	
PLE-02	0.04	2	
Total	49.06	25,614	1

Enercon alarm code YTD overview

Alarm with highest Duration

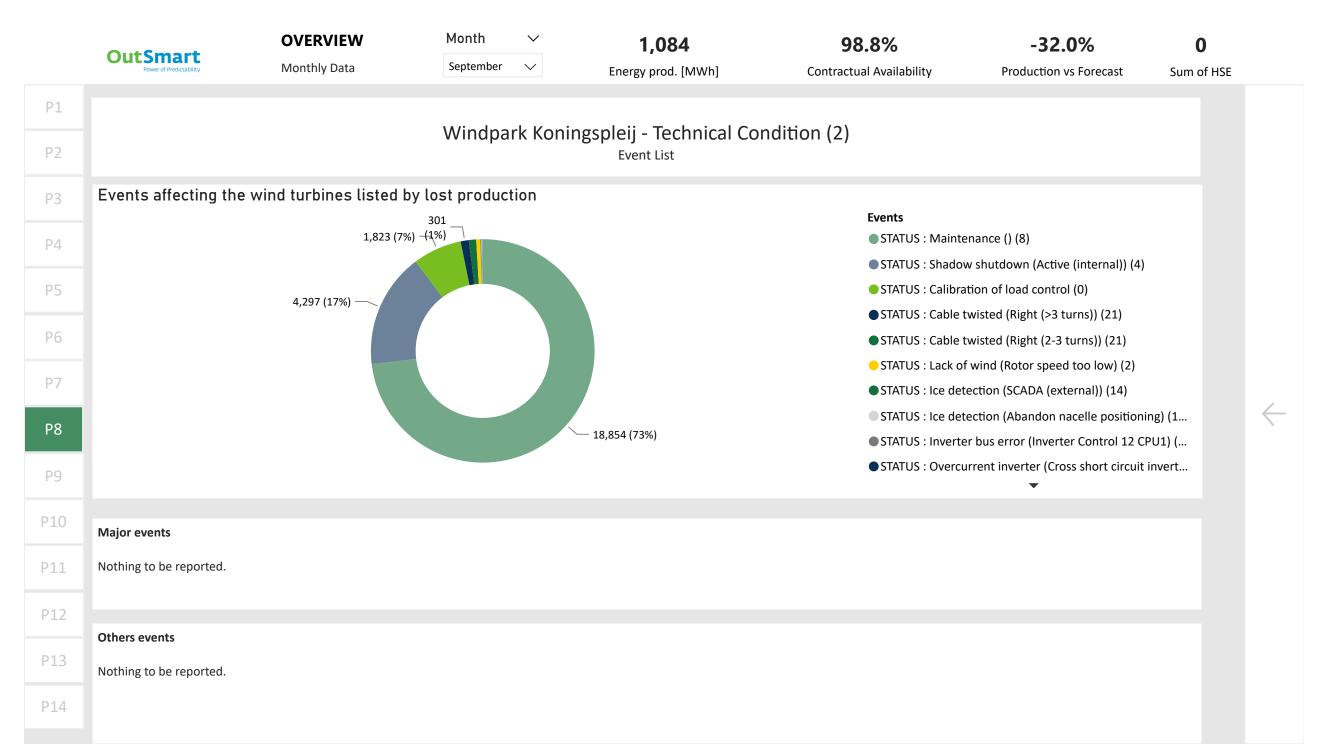
STATUS: Ice detection (Power measurement) (14)

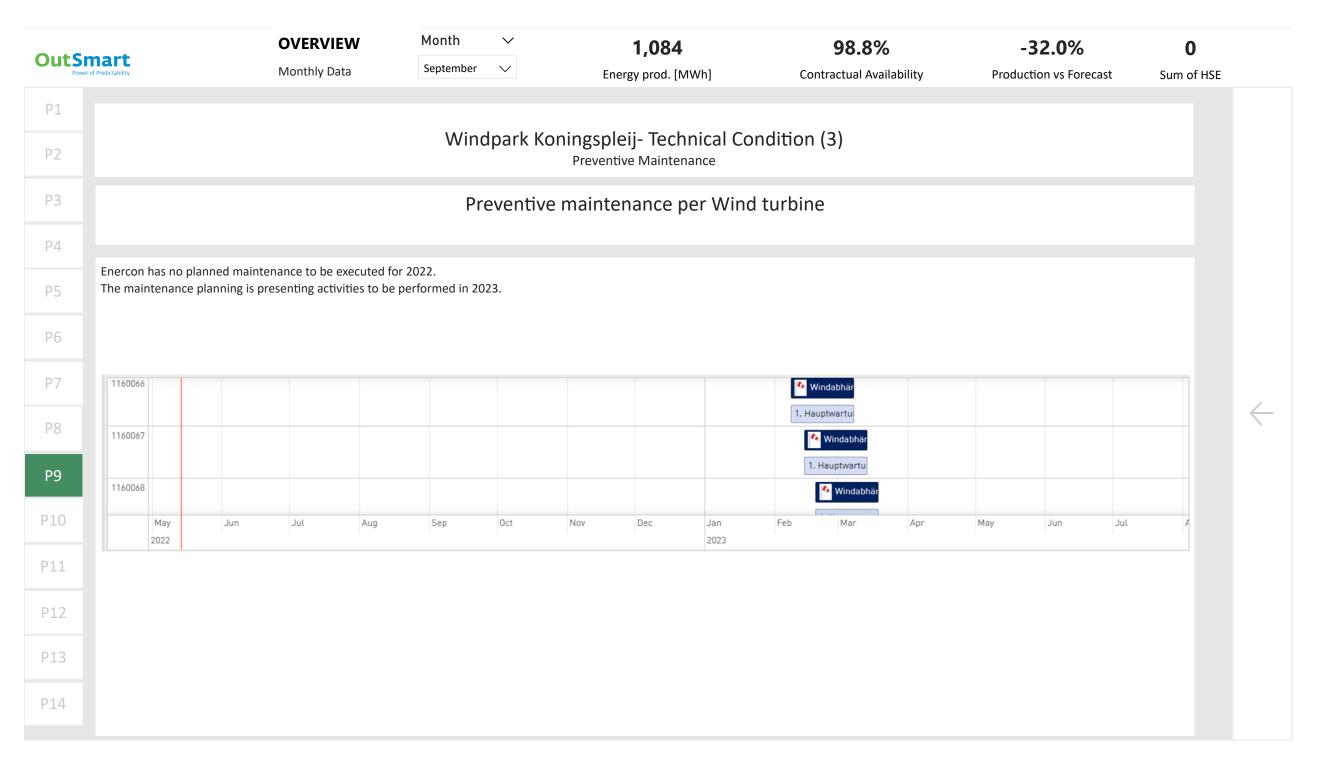
Alarm with the highest Ocurrences

STATUS: Shadow shutdown (Active (internal)) (4)

Alarm with the highest Lost Production

STATUS : Maintenance () (8)







OutSmart



1,084
Energy prod. [MWh]

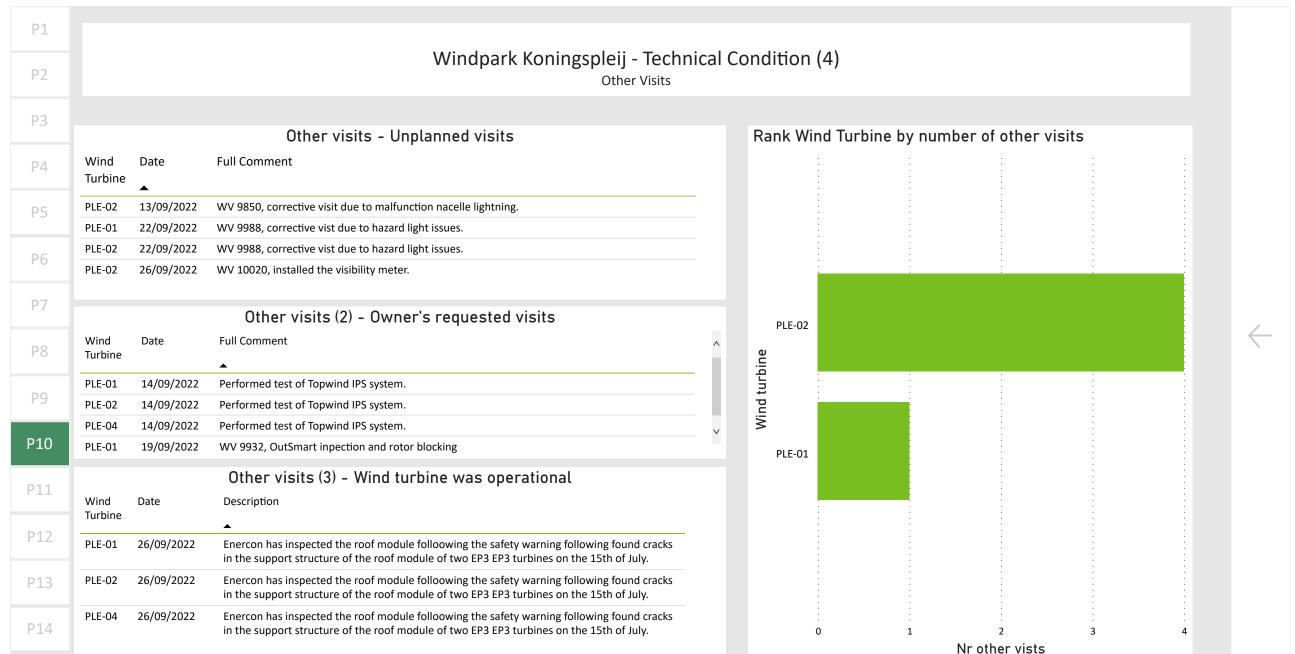
98.8%
Contractual Availability

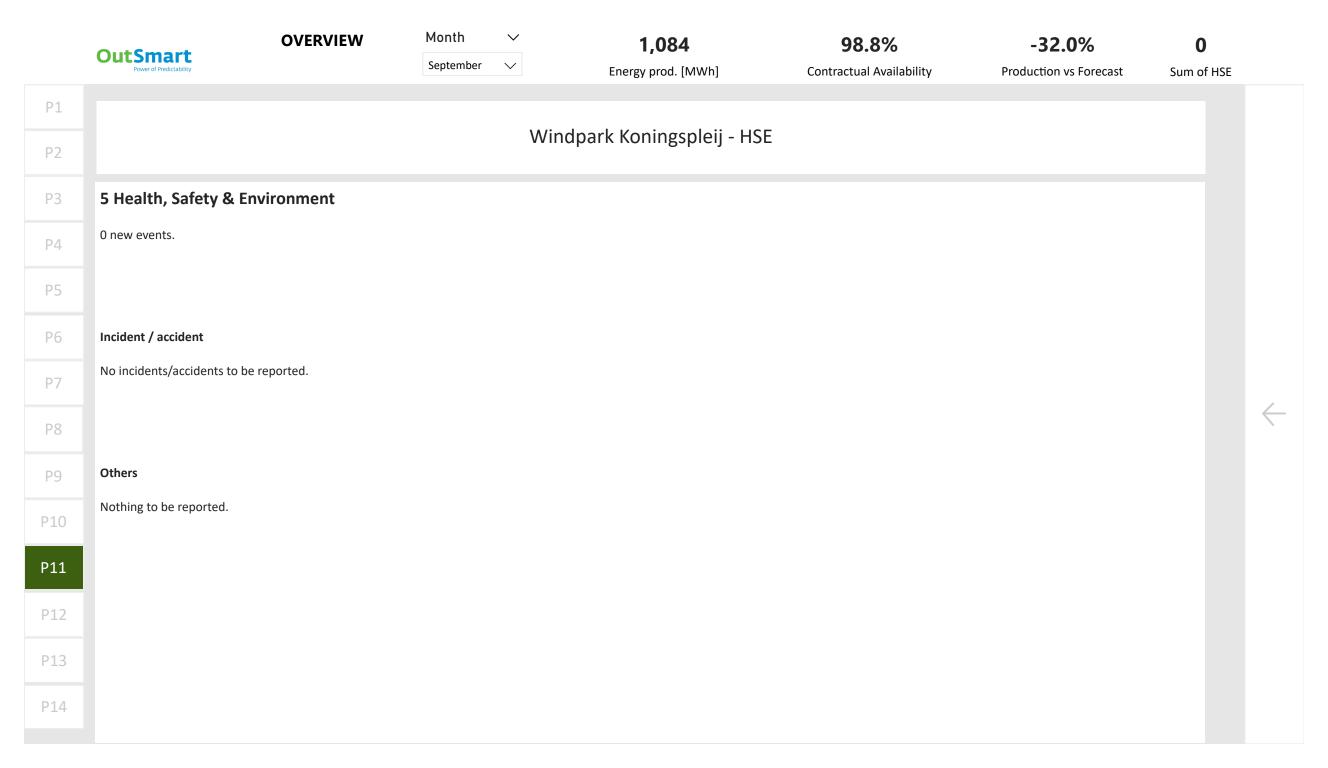
-32.0%

0

Production vs Forecast

Sum of HSE





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OVERVIEW

September

Month

1,084

Energy prod. [MWh]

98.8%

Contractual Availability

-32.0%

0

Production vs Forecast

Sum of HSE

P2	Windpark Koningspleij - Recommendations for Improvement	
Р3		
P4	Recommendations: production No recommendation.	
P5		
P6	Recommendations: availability / performance No recommendation.	
P7		
P8	Recommendations: health, safety & environment	
P9	No recommendation.	
P10		
P11	Recommendations: technical condition No recommendation.	
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OVERVIEW

Month September

1,084

98.8%

-32.0%

0

Energy prod. [MWh] Contractual Availability Production vs Forecast Sum of HSE

P1 Windpark Koningspleij - Action List P2 Р3 On the 14th of September was performed the test on Topwind IPS system. The result was satisfying. P4 P5 P6 P7 P8 **Contact Information Your Contact** P9 OutSmart Nederland B.V. Jacco Witteveen Westervoortsedijk 73-HB +31 (0) 6 53 29 21 73 6827AV Arnhem P10 The Netherlands jacco.witteveen@out-smart.eu P11 www.out-smart.eu https://linkedin.com/company/outsmart-bv P12 Disclaimer OutSmart shall not be held responsible for the application or use of findings, data and analysis contained in this report. OutSmart shall have no liability to recipients of this information P13 or third parties for the consequences arising from errors or discrepancies in this information, for recipients' or third parties' reliance upon such information, or for any claim, loss or damage of any kind or nature whatsoever arising out of or in connection with (1) the deficiency or inadequacy of this information for any purpose, whether or not known or disclosed to the authors, (2) any error or discrepancy in this information, or (4) any loss of business or other consequential P14 loss or damage whether or not resulting from any of the foregoing.

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Month September

1,084

Energy prod. [MWh]

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Production vs Forecast

Sum of HSE

Windpark Koningspleij - PPA P2

Commissioning Phase

Month	APX	APX weighted	Production MWh	Discount for Production	Final Production Price	Turnover Production	Consumption MWh	Consumption Premium	Final Consumption Price	Turnover consumption	GOO Quantity	GOO Price	Turnover GOO	Total Turnover
Jan-2022	189.10 €	€ 177.63	411.9030	0.91	€ 161.64	€ 66,581.11	0.032	1.05	€ 186.51	€ 5.97	411.94	€ 5.50	€ 2,265.64	€ 68,840.79
Feb-2022	168.37 €	€ 157.40	2049.2140	0.91	€ 143.23	€ 293,508.29	4.370	1.05	€ 165.27	€ 722.21	2,053.58	€ 5.50	€ 11,294.71	€ 304,080.79
Mar-2022	261.18€	€ 257.48	1476.7280	0.91	€ 234.31	€ 346,007.17	3.725	1.05	€ 270.35	€ 1,007.07	1,480.45	€ 5.50	€ 8,142.49	€ 353,142.59
Total			3937.8450			€ 2,118,283.75	8.127			€ 5,044.33	3,945.97		€ 65,108.54	€ 2,178,347.96

Pre-Operational Phase

Month	Avg. APX Prices	CFSDE Provisional Factor	Improvemen t Factor	Final Production & Consumption Price	Production MWh	Turnover production	Consumption MWh	Turnover Consumption	GOO Quantity	GOO Price	GOO Turnover	Total Turnover
Apr-2022	195.20	0.785	0.00	153.23	2032.1240	311,388.20	2,233.00	342.17	2,034.36	€ 5.50	€ 11,188.96	322,234.99
May-2022	181.37	0.785	0.00	142.37	1348.7120	192,021.86	4,234.00	602.81	1,352.95	€ 5.50	€ 7,441.20	198,860.25
Jun-2022	210.55	0.785	0.00	165.28	1241.3910	205,181.89	2,668.00	440.98	1,244.06	€ 5.50	€ 6,842.32	211,583.24
Jul-2022	306.60	0.785	0.00	240.68	1022.7250	246,153.80	4,542.00	1,093.19	1,027.27	€ 5.50	€ 5,649.97	250,710.58
Aug-2022	447.06	0.785	0.00	350.94	968.8580	340,010.85	3,624.00	1,271.81	972.48	€ 5.50	€ 5,348.65	344,087.70
Sep-2022	341.88	0.785	0.00	268.38	1072.7940	287,911.21	3,758.00	1,008.55	1,076.55	€ 5.50	€ 5,921.04	292,823.69
Total					7686.6040	10,171,696.44	21,059.00	27,867.41	7,707.66		€ 254,352.88	10,398,181.91

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