Release Notes Print

Modified on: Tue, 17 Dec, 2024 at 2:59 PM

Releases featuring changes to the simulation engine can affect case outputs. Releases affecting output calculations will be marked in the release info

Release date December 16, 2024

Where Statistical

Dashboard The dashboard is now split in two tabs; one tab for the data that is sampled across all runs (Statistical), and one tab with the data from a specific run picked

PS! This feature is only used for construction cases for now, which use specific runs to display timeline data (S-curve and inventory st

Percentile Sort by

P50

Project Task-group

Dashboard

Simulation runs are based on the selected percentile value, projects or the selected task group duration. Run data conto task groups and the entire campaign timeline.

For run based data you're able to control what the runs are ranked based on with this feature. By default it still ranks runs based on the duration of the whole any of the tasks you add to your assets in the case.

Example

E.g. in a project with installation and subsequent commissioning you can rank runs based on installation end date instead of project end

Dashboard

Each chart now have an info button where you can find a definition of what the chart shows.

Release name Release Date Advanced modeling capabilities for Towing vessels November 21, 2024

Headline Tow-to-Port Operations with PBA Loss Calculations Description

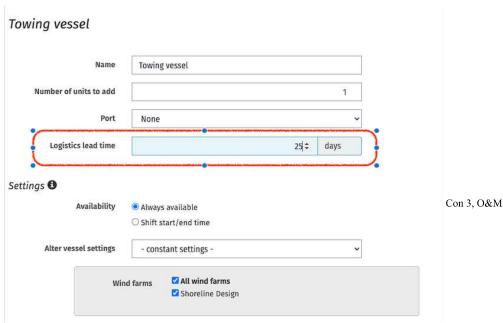
You can now model Tow-to-Port operations withadvanced precision

Shoreline Product O&M

- Compute PBA loss on the remaining WTGs in the string during Tow-to-Port operations.
- A new toggle in the Corrective Maintenance tab allows you to include or exclude PBA loss
 calculations across the string based on your modeling preferences

Corrective Maintena	MORE INTERCACE		
	Updated: Today, 11:29, coppa		
⊕			
<u> </u>	- Failure		
	Severity	Non critical	Critical
			in control of
<u> </u>	* Production curtailment from failure	100	% reduced production
	Production curtailment during work	100	% reduced production
•		100	% reduced production
⊕ P	BA loss calculations for other WTGs		}
d Li	fetime distribution	Exponential	Weibull
-			

Add lead time durations for towing vessels to model more accurate scheduling and downtime calculations



Logistic Lead Time Inputs for Towing Vessels

Charter starts after vessel's lead time in Design Shoresim

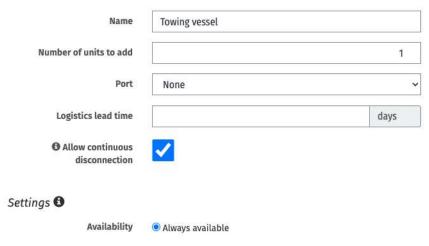
- Vessel charters now span multiple work orders without requiring lead time resets after each round trip.
- Lead time applies only at the start of the charter period, enabling uninterrupted operations.

Continuous Towing in/out modeling

Users can now model a scenario where Towing vessels towing an asset back to the wind farm can pick O&M up another for MCR during the return trip.

Enable this feature by selecting the new "Allow Continuous Disconnection" option on towing vessel instances

Towing vessel



- Shoresim now prioritize available chartered vessels before initiating new charters, reducing redundancy and costs.
- Vessel charters remain active during towing-in and towing-out phases to avoid operational gaps.
- Enhanced coordination for multiple towing vessels ensures charters end only after their respective operations are complete.
- Towing operation days are calculated only for the period between mobilization and demobilization.

Release version Release date Design v3.51.0.7 (hotfix) November 20, 2024

Headline Description Shoreline product
Users should be able to import corrective maintenance tasks using the Input library - Asset import button or

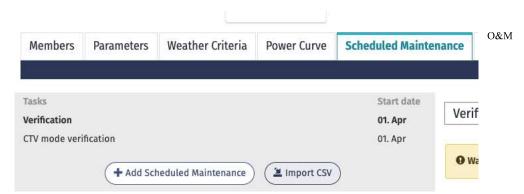
Input library - Assets - Import assets

Scheduled maintenance tab



Scheduled Maintenance tab

New corrective maintenance tab



Please perform a hard refresh of your browser to view the updates made to the map in the Design application.

Headline

Description

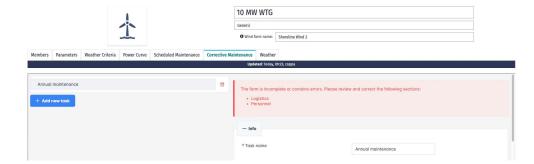
Shoreline Product O&M

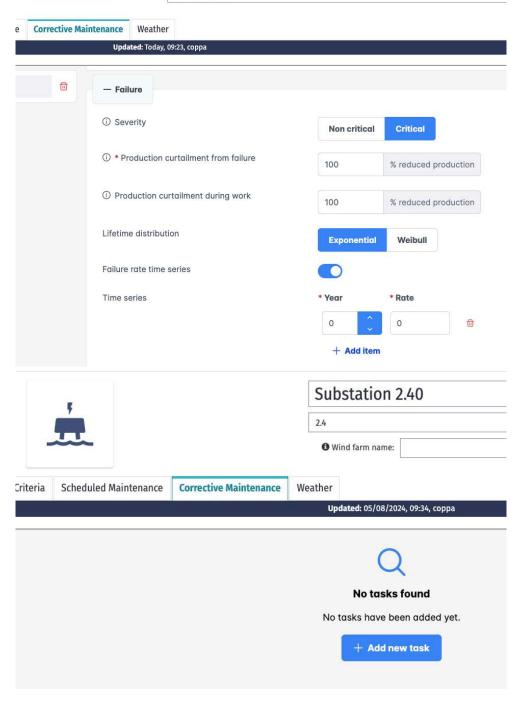
New corrective maintenance tab

As part of ongoing efforts to improve user experience, performance, and scalability, the Corrective Maintenance tab - Design O&M has been updated with a modernized layout.

Key Enhancements:

- Data has been migrated 1:1 from the old framework to a new, modern framework.
- All input data and core functionalities for corrective maintenance remain the same
- The updated design delivers a more intuitive and visually modern experience with consistency in design and workflow.





Expected Benefits:

- Users will experience improved performance within the Corrective Maintenance tab.
- This release lays the groundwork for further enhancements to scalability and usability, with additional
 improvements planned in upcoming releases.

We hope these changes contribute to a smoother and more efficient experience on the platform. Please reach out to the support team with any feedback or questions regarding this update.

Planned improvements in future releases:

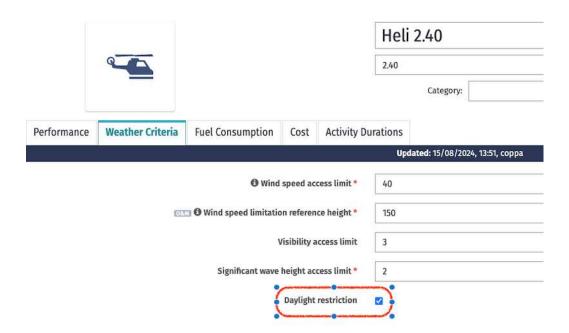
- 1. Users will only be able to save new tasks in the Corrective Maintenance tab once all required inputs are completed and validated for each task. Currently, the error notification does not indicate which specific tasks or fields need correction. In the next release, this will be improved to provide more detailed guidance for user corrections.
- 2. Improvement in general error and warnings notifications

Helicopter - day light restrictions

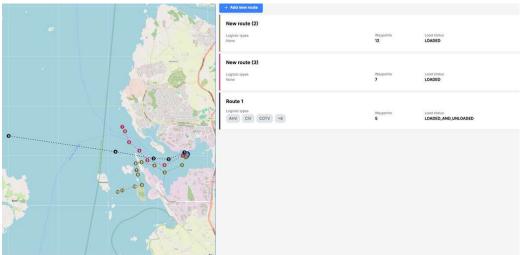
Users can now toggle the daylight restriction setting on or off under the Weather Criteriatab for helicopter logistics.

Con 3, O&M

- **Default Setting**: ON, maintaining the current daylight restriction application.
- New Option: OFF, allowing helicopter operations based solely on weather conditions, independent of daylight restrictions.

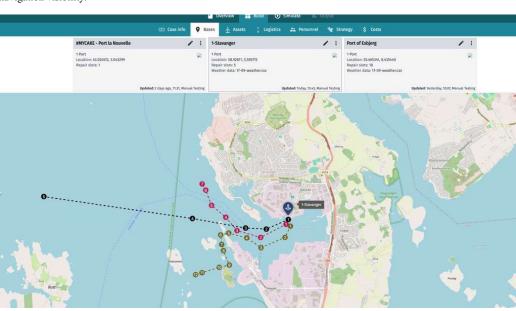


With this release, users can now view **all waypoints for all routes** modeled using the Route Planner feature directly on the **main application map** in Design.



Users will get a comprehensive, visual overview of route details within each case, improving route planning and navigation visibility.

Con 3, O&M



Map updates

Release version Design v3.50.0 Release date October 26th, 2024

Headline Description Shoreline product

We resolved a minor bug causing inconsistencies between the report and dashboard for feeder logistics utilization where the report displayed the correct utilization but the dashboard cha

feeder utilization, where the report displayed the correct utilization but the dashboard chart $\,$ Construction 3 incorrectly showed it as 0

Release version Design v3.49.0

October 7th, 2024

Headline

Feeder scenario modeling enhancements for Wind farm construction projects modeling

Release Date

Description

Shoreline Product

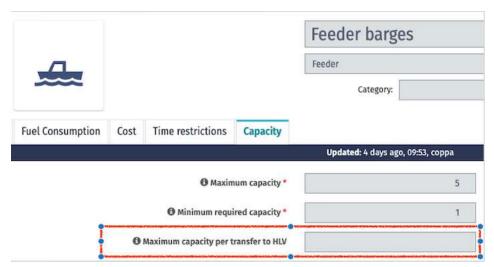
We are pleased to announce the launch of the Enhanced Feeder Modeling feature in our Design Construction software. This update Construction 3 introduces the ability for feeders to remain offshore for extended periods, delivering multiple assets sequentially to installation vessels with limited space. The new capabilities aim to enhance operational planning, improve installation workflow, and optimize feeder/barge usage in offshore wind projects.

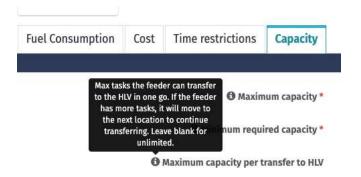
Key Benefits:

- 1. Feeders now have the ability to carry multiple components simultaneously and deliver them one at a time as installation vessel deck space becomes available in the case.
- Feeders can stay offshore longer, reducing the need for frequent returns to port, which lowers fuel costs and increases efficiency in the simulation model.

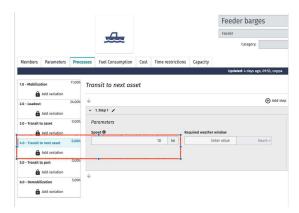
Technical Overview:

• We've added a "Maximum capacity per transfer to HLV" field to define how many components a feeder can deliver in one trip. If more tasks remain, the feeder will automatically move to the next location and await further transfers.





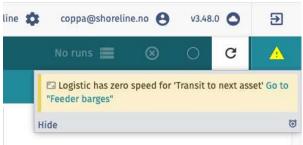
• A new "Transit to Next Asset" process has been introduced to handle feeder movement between locations. By default, the speed for this step is set to 0, following standard configuration rules.



User Action for Existing Cases:

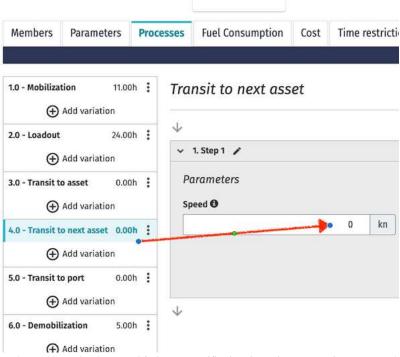
Important: In existing cases, the default speed for this step is set to 0, which will result in the case failing.

A case checker will notify users to configure the speed for the new "Transit to Next Asset" step.



Users must manually set the speed to an appropriate

value before running the simulation again.



Bug fix

We have addressed and removed faulty error notifications in Design construction- Asset- task tab to improve the user experience and reduce confusion.

Con 3

Release date Feature

October 1, 2024 Route planner - Advanced options

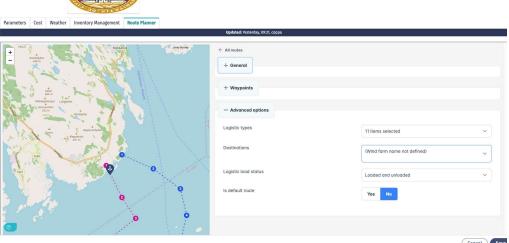
Headline Route Planner -Advanced options for Design

Description

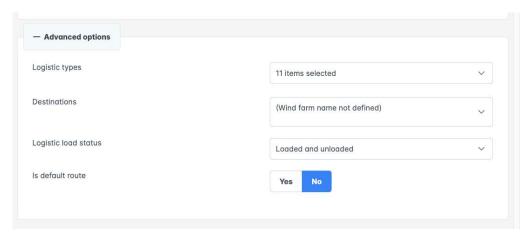
Key Features - Advanced options

Shoreline Product Con 3, O&M

- 1. Model various routes tailored to different logistic types, such as vessels and helicopters.
- 2. Choose the destination of each route from the base.
- 3. Define the logistic load conditions for each route.



For more details: Refer to this guide This feature is available for all users of Design Con, O&M.



Practical application

- 10 Knot Speed Restriction: Model the 10-knot speed restriction for the first 30 nautical miles outside the US coast, meeting US developers' requirements.
- Helicopter Routing: Differentiate helicopter routes from sailing routes, addressing longstanding industry demands.
- Heavy Lift Vessels (HLVs): Plan different routes for HLVs entering and exiting harbors to minimize delays.
- Onshore Transportation: Enhance modeling for specialized trucks, such as those transporting nacelles and blades.
- Floating Wind: Distinguish between towing routes for semisub tows and regular sailing routes.
- Long Voyages: Plan distinct routes to ports and fabrication yards, considering cost-effective options like avoiding the Suez Canal.

Start exploring the advanced modeling capabilities with Shoreline Design!

Release date

Feature

24 September, 2024

 $\underline{\textbf{Logistics Charter and Lead time management for O\&M\ Major\ component\ repair\ modeling}$

Headline

Description

This is one of the important updates to our Logistics charter management in O&M. This will optimize logistics lead times and charter periods, to enable users to be able to model the practical needs of real-world operations.

Key Improvements:

- Shoresim, the simulation engine, will allow a logistics charter period to cover multiple work
 orders without needing a lead time reset after each trip. Once a vessel is chartered and available,
 it remains ready for subsequent tasks until all assigned work orders are completed.
- Previously, each roundtrip triggered a new lead time before the vessel could begin the next task. With this implementation, lead time is only applied once at the start of the charter period, enabling continuous, uninterrupted operations.

Logistics charter and Lead time management

Now, chartering logistics ensures full utilization during the contracted period. The logistics will transition from one work order to the next, maximizing efficiency and reducing idle time. Benefits:

Reduced Operational Downtime: By eliminating unnecessary lead time resets, vessels can now
operate continuously, minimizing delays between tasks.

Please note that Charter starts after Logistics's lead time in Design Shoresim

Shoreline product

Applicable for major component replacement corrective maintenance tasks (HLV)

0&M

New Map Update for Design Con 3 and O&M

Until now, users have been seeing a new map (Open street map) for the Route planner feature from the release since April, 2024.

Consistent Design with OpenStreetMap

Migration to a modern, new With this release, the application will use OpenStreetMap as the background everywhere in the Design map for Design application application (for the main map and weather maps). This switch from Bing Maps by Microsoft to Open Street Maps provides unified and modern visual experience.

Con 3, O&M

While the current update improves visual consistency, it also opens doors to address customer requests for more detailed map features, such as info about existing wind farms, grids, water levels, etc. Stay tuned for the release updates

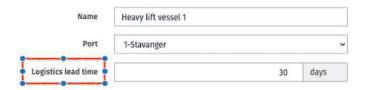
User experience improvements

• Lead time labels have been updated to include a prefix based on the application input settings context. They will now be prefixed with either "Logistics" or "Task" to provide clearer context and improve

Con 3, O&M



Heavy lift vessel

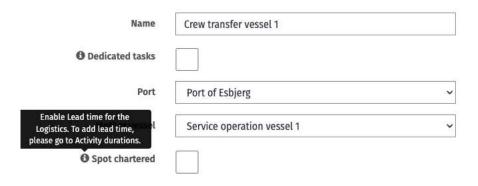


• Tooltips: Users can now find tooltips explaining spot chartered and Dedicated tasks inputs labels

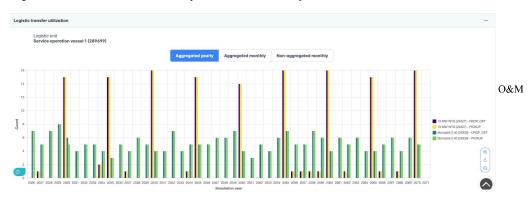
Crew transfer vessel

Major component replacement only to accompany HLV, no scheduled maintenance or crew transfer.	Crew transfer vessel 1	
1 Dedicated tasks		
Port	Port of Esbjerg	~
Mother vessel	Service operation vessel 1	~
Spot chartered		

Crew transfer vessel



Logistics transfer chart has been added as part of the new O&M output dashboard



Logistics transfer chart

Release number Release date Design v3.47.0 09 September 2024

Note: This release will have an impact on the simulation outputs due to updates in the Design Shoresim simulation engine. If you want the outputs to remain the same, please do not rerun the specific case.

Slight changes can be expected in PBA loss per root cause categorization, Logistics routing to wind farm

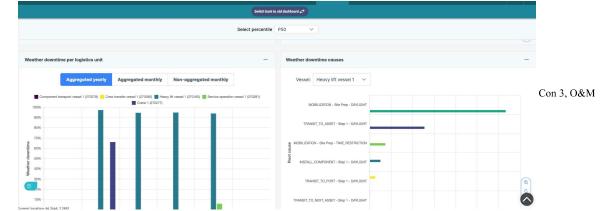
Headline

Output dashboard

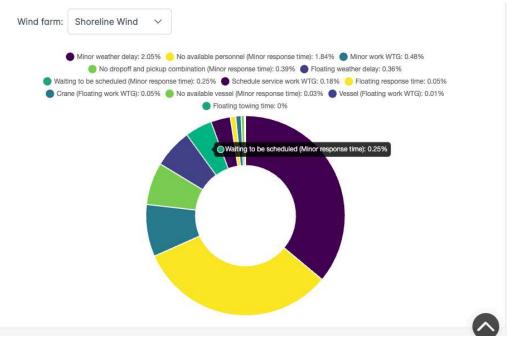
Description

Shoreline product

The New Output Dashboard has been set as the default main dashboard for all users.



PBA loss per root cause PBA loss per root cause chart is now available in the new output dashboard with improved user experience and design. O&M chart - Output dashboard

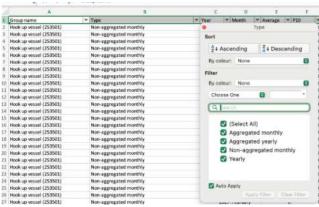


The new "Type" column is introduced across all output report sheets with the following values:

- Non-aggregated Monthly
- Aggregated Monthly
- Yearly
- Aggregated Yearly

This will help users filter and visualize data more easily and quickly, providing a better user experience.

Output report- Data structure enhancements



ERA 5 Weather data enhancements

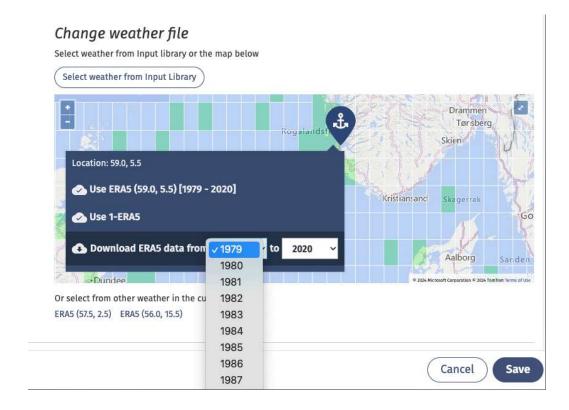
ERA 5 weather data enhancement:

In addition to behind-the-scenes important technical optimization and updates,

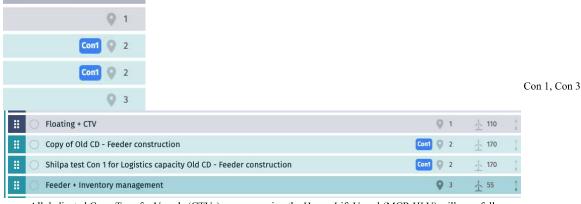
Con 3, O&M

Con 3, O&M

- When a user selects a year range for ERA 5 weather data the simulation will consider weather from the selected period only.
- When a user clicks download file, then the file will only contain the data from the selected time range



Users can now differentiate con 1 and con 3 cases in the project overview page with a tag name con 1



Con 1 vs Con 3 identification

Route planner enhancement

- All dedicated Crew Transfer Vessels (CTVs) accompanying the Heavy Lift Vessel (MCR HLV) will now follow
 the designated CTV logistics route as set in the route planner feature.
- Previously, sometimes logistics entered the wind farm from the south side. With this release, all logistics will
 directly approach the wind turbine for operations and maintenance.

Con 3, O&M

O&M

- PBA loss per root cause enhancement
- The internal function related to the calculation of PBA (Production-Based Availability) loss root causes has been updated. However, there will be **no changes** to the calculation results.
- Prior to this release, there were instances where, apart from the work shift, the simulation categorized loss per root cause as part of the full-day in-route logistics instead of weather delays. This primarily occurred when moving from inspection to preparation stages.
- After this release, these losses will now be correctly categorized under major weather delays, rather than major response time delays.

Headline Description Shoreline Product

The PBA Loss Root Cause chart's downloadable sheet is now integrated into the main Output report, saving users time and eliminating the need for additional downloads.

PBA loss root cause report

Producti	ion Based A	vailability	Time E	lased Availa	bility	PBA Root C	Causes	Case ba	+
897759 26	6869143.5	11519576.6	208421314	223713695	245321116	0	252929735	10498	1399.8
3963790,2	6778224,02	9595597,01	214340683	222041846	236463223	597357,957	250599134	10183	6443,5
709822,03	4309874,35	9276814,93	222232737	224920339	246510221	210281,744	266762660	10555	7563,5
530045,84	2814506,23	9731805,83	208415323	225456128	236520377	130310,851	250999024	10253	4775,2
857862,49	4306015,34	6839480,94	185446516	214336919	232569218	293359,894	265859450	10130	7518,8
1375444,3	2887472,31	4179439,88	7254256,66	209331327	232166493	132096,974	248765185	95891	370,77
406305,44	7867882,78	11255458,4	14362440,5	212433043	228191469	300134,31	266946790	95826	693,06
584167,61	3665095,62	6387494,77	11477778,8	34440952,4	222717618	62246,718	250901863	89592	299,32
779506,38	3726091,37	9538071,23	10794135,4	17637399,7	228707310	185628,574	252942799	91734	356,84
713332,79	4538251,31	7820240,54	11011222,2	19869905,3	228133758	67715,0214	252913077	89214	821,02
512602,08	5377617,35	7662807,03	10335399,5	12567665	232439237	22317,0372	250283902	90872	199,48
202012,00		2000102,11	100100	0002220,00		310320,100		20100	,

O&M

Release number Release Date Design v3.45.0

August 8, 2024

Note: This release will have an impact on the simulation outputs due to updates in the Design Shoresim simulation engine. If you want the outputs to remain the same, please do not rerun the specific case.

For cases involving cables, foundations, or substations, users can find differences in PBA outputs as the new release includes an updated approach for evaluating their impact.

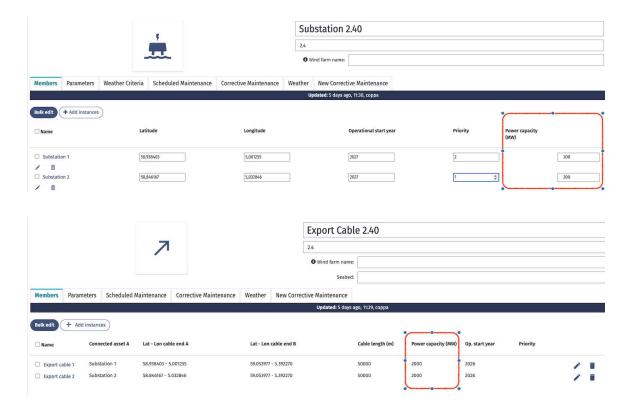
Headline Description

Shoreline Product O&M

New feature Wind farm system level reliability modeling

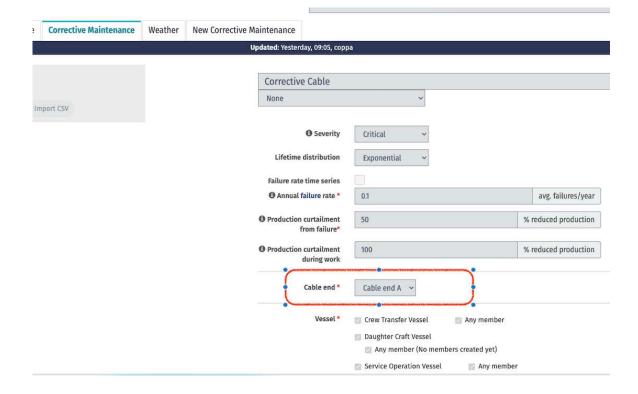
Power Capacity Definition by Assets

Users can define power capacities for wind farm components to calculate the accurate power output of the wind farm.



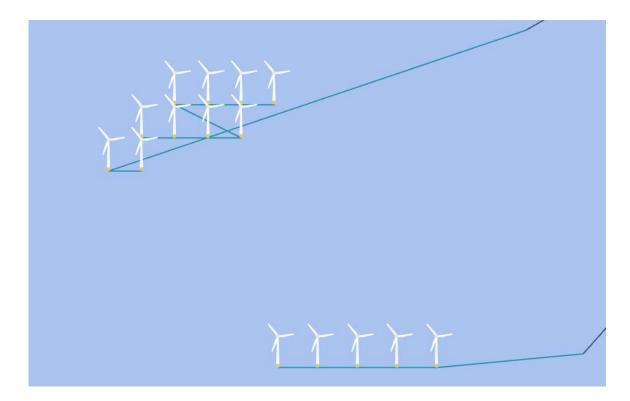
Cable failures:

Users can now define which end of the cable will undergo scheduled or corrective maintenance, for precise and efficient maintenance planning



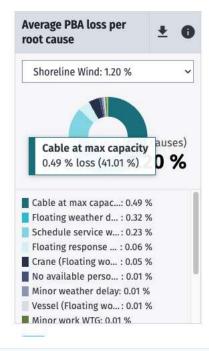
Dynamic Power Adjustment

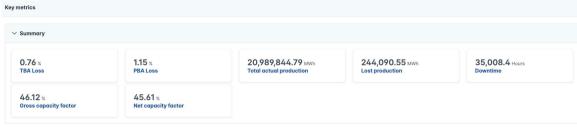
User can simulate real world scenario to prevents overloading of the power transport infrastructure with this implementation to reduce WTG power production when the associated cable or Offshore Substation (OSS) reaches its maximum power capacity or encounters a failure.



Impact of BOP on Production-Based Availability (PBA)

Users can simulate failures of cable, OSS, and foundations impacting wind farm power production and analyze the influence of foundations, cables, and OSS BOP components on the PBA outputs.





Please note:

- You can also add foundations to your case that impact power production by adding them as related instances to the relevant asset.
- If you don't add cables to your case with power capacity inputs, the wind turbines in your case will generate power according to
 the windspeed and WTG power curve.
- If you only have an OSS and no cables, the OSS will reduce energy production on every WTG in the wind farm to which it is connected according to the percentage you set on the maintenance activity.
- Finally, if you want cables in your case without them influencing site-wide power production, you can add the cables to your case without linking them to an asset.

Detailed steps for Wind farm reliability modeling is available here

PBA loss root cause:

Users can now find long weather delays categorized under the Major weather delay category in the PBA loss root cause.

Improvement

TBA calculation

With this release, Users can see TBA outputs based on the impact of Wind turbines only. BoP assets will not have any influence on TBA calculations.

Release number Release Date Design v3.44.0 July 25, 2024 O&M

Headline

Description

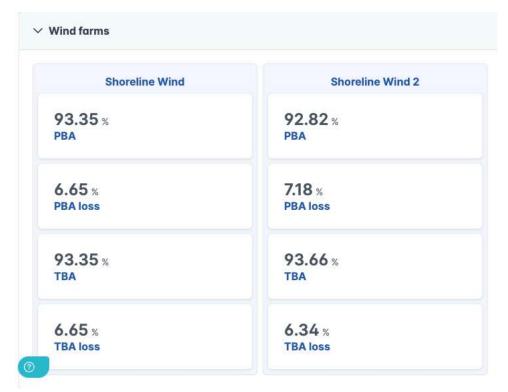
Key metrics on the Output dashboard

Duration of Campaign
 Campaign end date

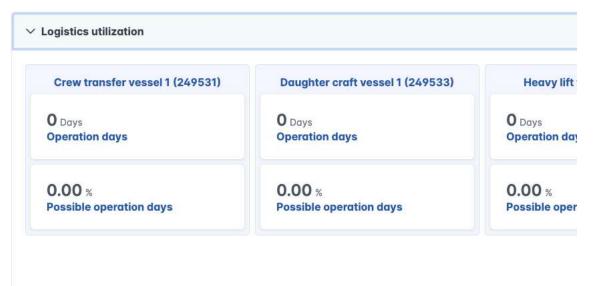


Key metrics on the Output dashboard

- 1. PBA total for each wind farm
- 2. TBA total for each wind farm



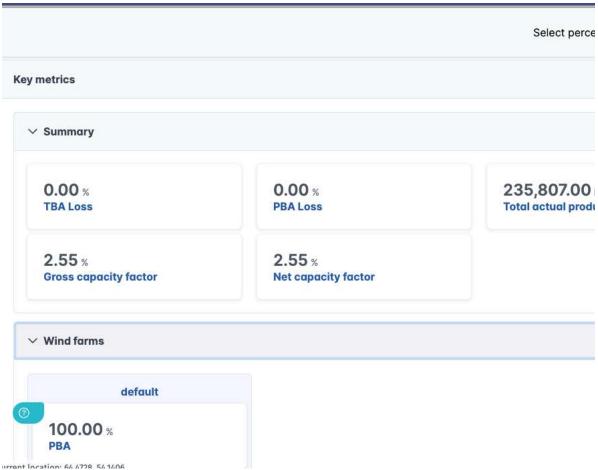
3. Logistics utilization total for each vessel



4. Personnel utilization total for each personnel group



- 5. Total Production (MW/GW)
- 6. TBA loss
- 7. 100% TBA for full simulation (all years and all wind farms)
- $8.\ PBA\ loss$
- 9. 100% PBA for full simulation (all years and all wind farms)
- 10. Lost production for full simulation (all years and all wind farms)
- 11. Downtime hours for full simulation (all years and all wind farms)
- 12. Gross capacity factor
- 13. Net capacity factor

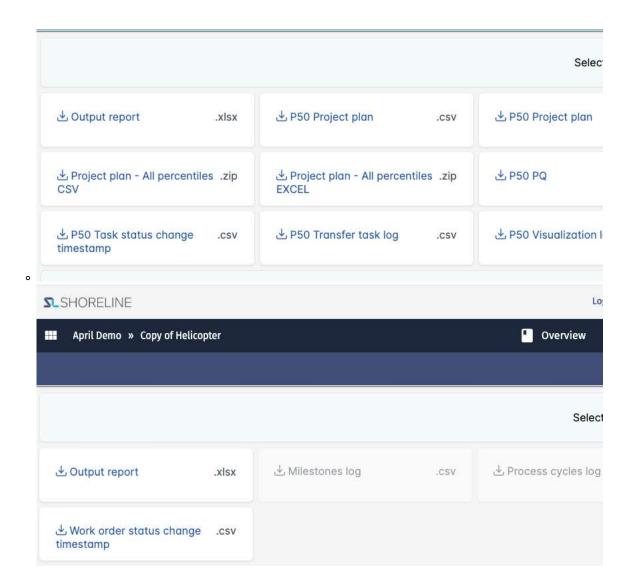


Output Dashboard -**Download options** enhancements, Simulation log downloads

Added the ability to download simulation logs on the new output page.

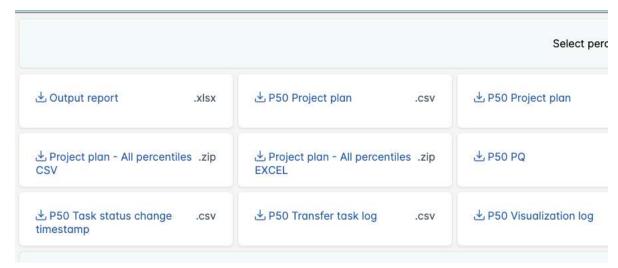
Log Naming and Structure:

- Logistics Log: Renamed as "Transfer task log" for Con 3 and "Transfer work order log" for O&M.
- Raw Log: Renamed as "Task status change timestamp log" for Con 3 and "Work order status change timestamp log" for O&M.
 Visualization Log: The "Visualization log" remains for both Con 3 and O&M.



- File Naming Format: projectID_caseID_fileName_SimulationRunStartTime_RunID.csv (e.g., 232_3090_SomeLog_2024-04-15-06 Run Selection:
- a. O&M: Logs will always be generated for the first run of the simulation.
- b. Con 3: Logs will correspond to the P-run for the selected P-value.

Process Cycle Download on S-Curve: Made available as a separate download button, similar to other reports.

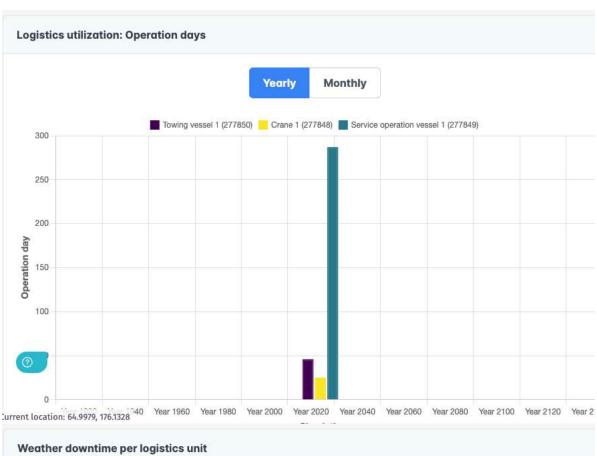


Please note that the Graph CSV download options from the charts have been removed, as the same data is available in the output reports.

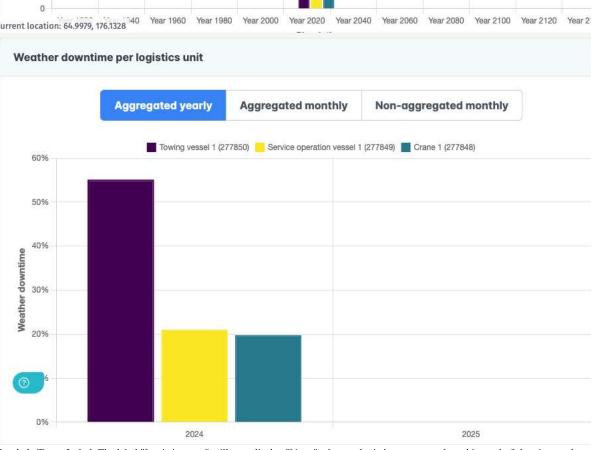
Compressed CSV Logs: Due to large file sizes, the system now compresses CSV logs into zip format to optimize storage and performance

Key Metrics Section Redesign: The "Summary" section has been renamed "Key metrics" and made collapsible. Each metric section now

Restructured and arranged the charts for a better user experience



UI/UX improvements in the Output dashboard



Advanced Route Planner Logistic Types Label: The label "Logistic types" will now display "None" when no logistic types are selected instead of showing no data. UI improvements

Loading Indicator during data processing: Implemented a loading indicator for multiple routes to provide users with visual feedback that

Project plan reports are now available in **Excel format** in the output dashboard.

Project plan report as an Excel download



Weather file data handling: Users can now upload weather data for current m/s and will be able to choose the option Current m/s as wea

Daughter Craft Base Location

Feature: Automatically use the SOV base location as the default daughter craft base location to save time and reduce confusion. This chang Additional Check: a case checker is implemented to verify that all logistic instances have a valid port.

General enhancements

Simulations failed when a Daughter Craft with unlimited availability had an SOV with limited availability specified as the mother vessel. I

Fixed an issue where simulations froze if a personnel group was not removed from a deleted SOV. The system now checks if personnel are

Release number Release Date

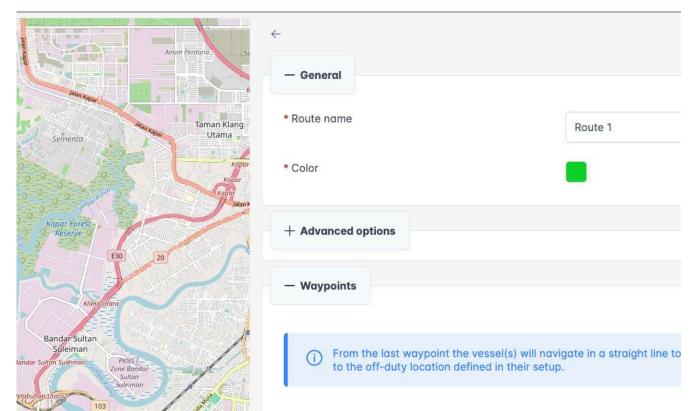
Design v3.43.0 June 12, 2024

Headline Description

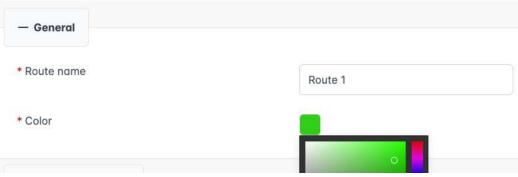
Route Custom route - Waypoints feature data will be migrated and placed under the Route planner tab on all bases as Default Route 1. Changes apply to Planner
Basic



Updated: 2 days ago, 22:32, coppa

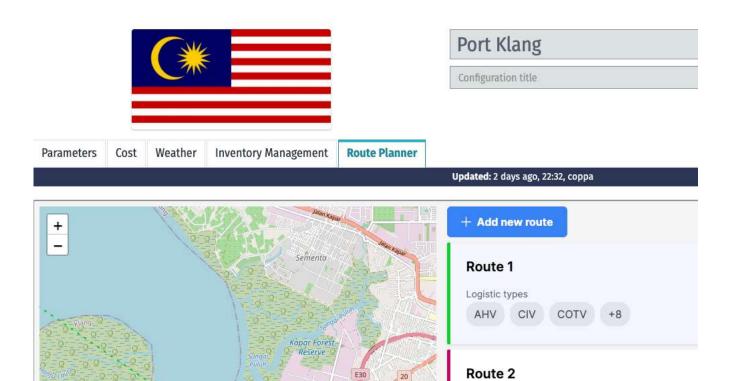


New addition: Users can set the route color.



Route Planner Advanced options (available on request)

- 1. Model multiple routes suitable for each logistic type
- 2. Specify wait times and speed limitation criteria for each waypoint on each route
- 3. Choose the destination of each route from the base
- 4. Set the Logistic load condition



Logistic types AHV

CIV

COTV

Design Shoresim API

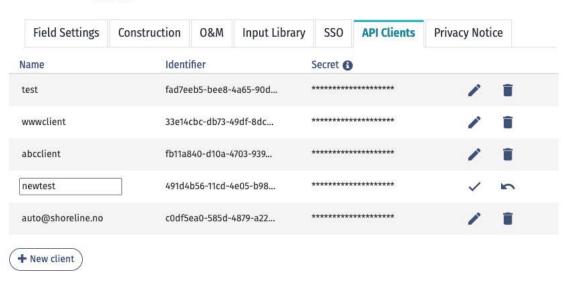
pan mg

Integrate and automate Shoresim functionality into your workflows with robust enterprise-grade security.



Team settings

Shoreline



Custom workflows

Embed Shoresim functionalities into your existing workflows for a more integrated and efficient process.

Develop scripts to automatically create and run sensitivity cases, drastically reducing the time and effort associated with manual workflows.

To enhance efficiency, users can schedule batch processing within your scripts to execute case simulations and run multiple sensitivity cases concur Automated sensitivity analysis and output retrieval

Easily extract output files from sensitivity analyses through the API.

Data pipelining

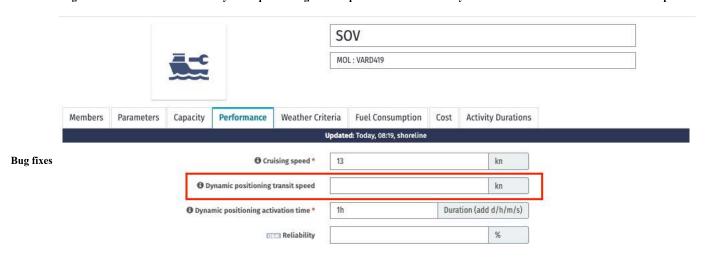
Directly pipe output data into BI tools for enhanced visualization and reporting.



O&M Output Report -Case

We've finalized the Case Inputs feature by adding Bases, Assets, Personnel, and the strategy output. Now, users can access all parameters inputted in their case built

Logistics SOV- Performance tab - Dynamic positioning transit speed will be a mandatory field. The simulation will fail if the transit speed is undef



When the user Saves the Personnel page without entering the required title field on the personnel page, an error message will be displayed and the



09:24

Headline Description

Our <u>O&M Output report</u> undergoes a significant makeover, providing a renewed format for easy processing. Users will find the data mor Improvements in the new report

- 1. Removal of empty columns/rows
- 2. Uniform structure
- 3. Compatible data layout
- 4. Data accessibility

In the new beta output dashboard, only the newly formatted O&M output report is available.



Both existing and new O&M output reports are available in the existing output dashboard.



New outputs to O&M report O&M output -

- 1. Weather-downtime-causes report
- 2. Logistics transfer utilization: count Asset drop off /pick up
- 3. Personnel time spent outputs
- 4. Case inputs logistics and more

O&M output dashboard new graphs demo

New outputs to Design -Operation days: Sailing days

Sailing days—Vessel operation days or sailing days are the number of days a vessel has been used, regardless of how many hours that day Operation days, including processes loadout, jack-up time, etc. = Sailing days

Users can find this output in the Logistics utilization output sheet in the report.

Operation days: Total refers to sailing/flying days depending on the type of logistics

	A		В		
1	Group name		Operation Days		
2	Daughter craft vessel 1	(254291)	Total		
3	Daughter craft vessel 1	(254291)	Total		
4	Daughter craft vessel 1	(254291)	Total		
5	Daughter craft vessel 1	(254291)	Total		
6	Daughter craft vessel 1	(254291)	Total		
7	Daughter craft vessel 1	(254291)	Total		
8	Daughter craft vessel 1	(254291)	Total		
9	Daughter craft vessel 1	(254291)	Total		
10	Daughter craft vessel 1	(254291)	Total		
11	Daughter craft vessel 1	(254291)	Total		
12	Daughter craft vessel 1	(254291)	Total		
13	Daughter craft vessel 1	(254291)	Total		
14	Daughter craft vessel 1	(254291)	Total Total		
15	Daughter craft vessel 1	(254291)			
16	Daughter craft vessel 1	(254291)	Total		
17	Daughter craft vessel 1	(254291)	Total		
18	Daughter craft vessel 1	(254291)	Total		
19	Daughter craft vessel 1	(254291)	Total		
20	Daughter craft vessel 1	(254291)	Total		
21	Daughter craft vessel 1	(254291)	Total		
22	Daughter craft vessel 1	(254291)	Total		
23	Daughter craft vessel 1	(254291)	Total		
24	Daughter craft vessel 1	(254291)	Total		
25	Daughter craft vessel 1	(254291)	Total		
26	Daughter craft vessel 1	(254291)	Total		

New outputs to Design - Operation days: Flying days

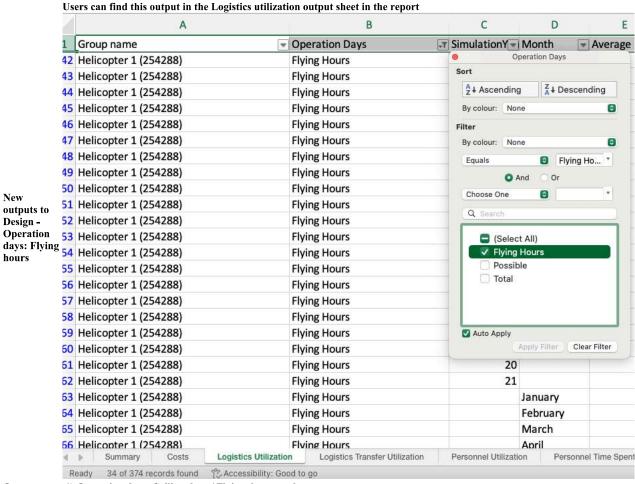
The number of days a Helicopter has been used, regardless of how many hours that day and regardless of how many drop-offs/pick-ups

Users can find this output in the Logistics utilization output sheet in the report

Operation days: Total refers to sailing/flying days depending on the type of logistics

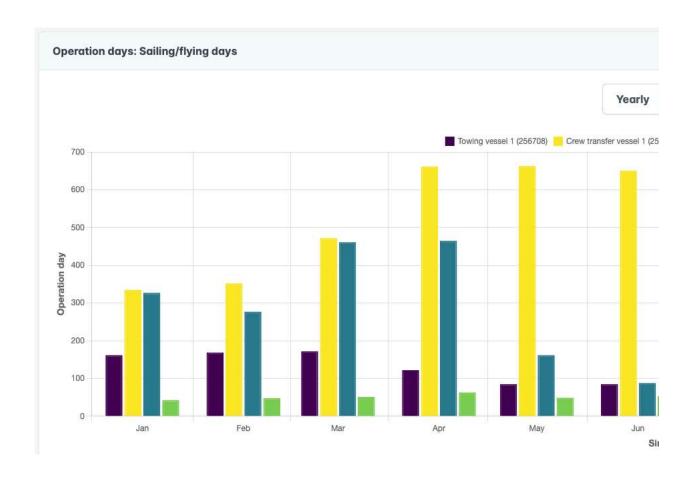
	A	В	С		D
	Group name	Operation Days	SimulationY →	Mont	h 🖪
3	Helicopter 1 (254288)	Total	10		
1	Helicopter 1 (254288)	Total	11		
,	Helicopter 1 (254288)	Total	12		
	Helicopter 1 (254288)	Total	13		
,	Helicopter 1 (254288)	Total	14		
	Helicopter 1 (254288)	Total	15		
)	Helicopter 1 (254288)	Total	16		
)	Helicopter 1 (254288)	Total	17		
	Helicopter 1 (254288)	Total	18		
	Helicopter 1 (254288)	Total	19		
	Helicopter 1 (254288)	Total	20		
	Helicopter 1 (254288)	Total	21		
,	Helicopter 1 (254288)	Total		Janua	ary
,	Helicopter 1 (254288)	Total		Febru	ary
	Helicopter 1 (254288)	Total		Marc	h
	Helicopter 1 (254288)	Total		April	
)	Helicopter 1 (254288)	Total		May	
)	Helicopter 1 (254288)	Total		June	
	Helicopter 1 (254288)	Total		July	
	Helicopter 1 (254288)	Total		Augu	st
3	Helicopter 1 (254288)	Total		Septe	ember
-	Helicopter 1 (254288)	Total		Octo	ber
,	Helicopter 1 (254288)	Total		Nove	mber
;	Helicopter 1 (254288)	Total		Dece	mber
7	Heliconter 1 (254288)	Total		Total	
	▶ Summary Costs Logistics Utilizatio	Logistics Transfer Utilization	Personnel Utilizati	on	Personn

The total number of days a helicopter is used for flight operations, regardless of the duration of each flight, is called Flying days. In contra

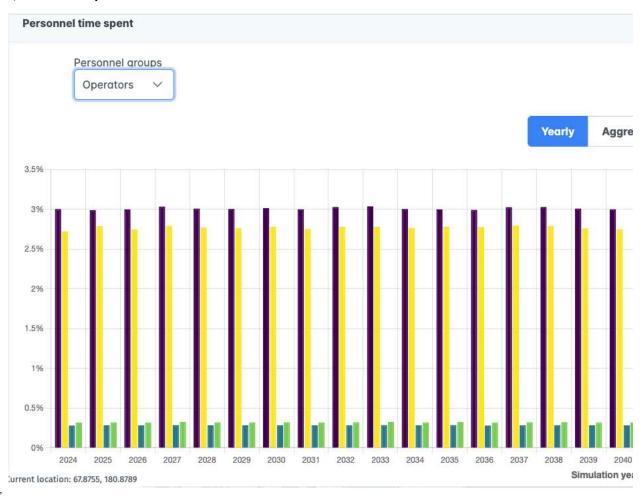


Output 1) Operation days: Sailing days / Flying days graph Dashboard -

Dashboard -New graphs



2) Personnel time spent



Removal of presentation We want to inform you that the Presentation mode feature will be discontinued starting this release. All cases previously accessible under mode

Case Several case checkers have been refined to improve scenario validation, reducing the likelihood of case failures. checkers

Release number Design v3.41.0.1 (Hotfix)

Release Date 11 Apr 2024

Headline Description Shoreline Product

Importing Scheduled or Corrective maintenance tasks from CSV to an asset on an O&M case should persist in new logistics type Daughter

Data mapping using Import CSV for Tasks in craft selection.

O&M

O&M

Release number Design v3.41.0.0
Release Date 08 Apr 2024



16:59

Headline Description

New output: We've introduced <u>a new output called Technician Time Spent data</u>, which offers detailed insights into how efficiently personnel allocate

Personnel/technician

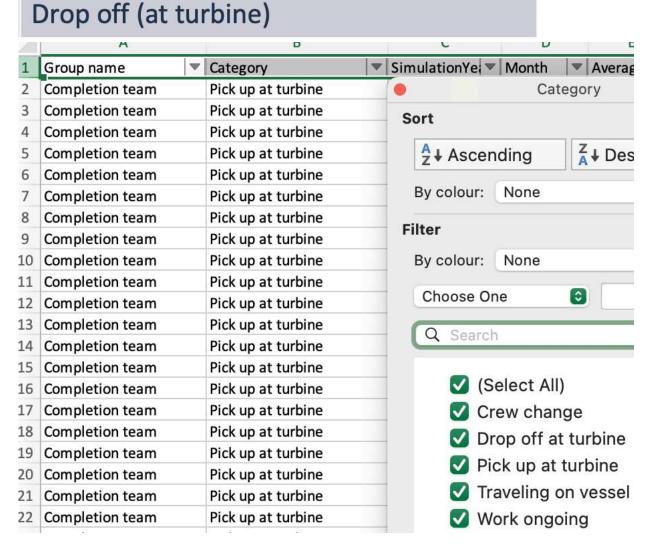
time spent on output In this release, we have projected the data in the Construction output report.

- Output report

In the next release, the same output will have an output dashboard view.

Below is the categorization available in Design application

Output Crew change Drop off at start location Pick up at start location Traveling on vessel Work ongoing (or On asset) Pick up (at turbine)



Group name	▼ Category	▼ SimulationYea ▼
Completion team	Pick up at turbine	2023
Completion team	Pick up at turbine	2024
Completion team	Pick up at turbine	2026
Completion team	Pick up at turbine	
Completion team	Work ongoing	2023
Completion team	Work ongoing	2024
Completion team	Work ongoing	2026
Completion team	Work ongoing	
Completion team	Crew change	2023
Completion team	Crew change	2024
Completion team	Crew change	2026
Completion team	Crew change	
Completion team	Drop off at turbine	2023
Completion team	Drop off at turbine	2024
Completion team	Drop off at turbine	2026
Completion team	Drop off at turbine	
Completion team	Traveling on vessel	2023
Completion team	Traveling on vessel	2024
Completion team	Traveling on vessel	2026
. Completion team	Traveling on vessel	

New output -Logistics transfer count /utilization -Output report Users currently have access to vessel utilization data through our existing outputs. To enhance granularity and complement this information of the complement of the complemen

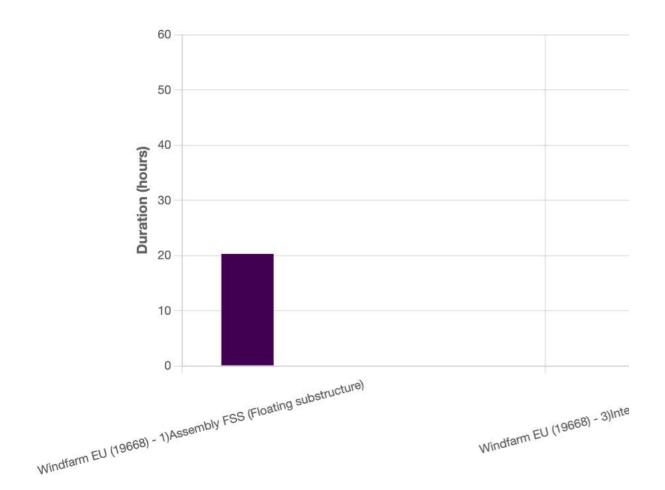
30	Cre	w transfer v	essel 1 (24	9515)	Offshore	Offshore Wind Turb		
4	•	Summary	Costs	Logistics	Utilization	Logistics Tr		
R	Ready	13 Accessibi	ility: Good to	go				

	Α	В
83	Logistics name	Asset name
	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
F(Crew transfer vessel 1 (249515)	Offshore Wind Turbine
e)	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
ı.	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
0	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
C	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
1	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
2	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
3	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
1	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
5	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
5	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
7	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
3	Crew transfer vessel 1 (249515)	Offshore Wind Turbine
Э	Crew transfer vessel 1 (249515)	Offshore Wind Turbine

we output A new dashboard view displays the average task duration for each task group, offering quick insights into project timelines ashboard - Average

New output dashboard - Average task duration in a task group output chart

Task group and average task duration



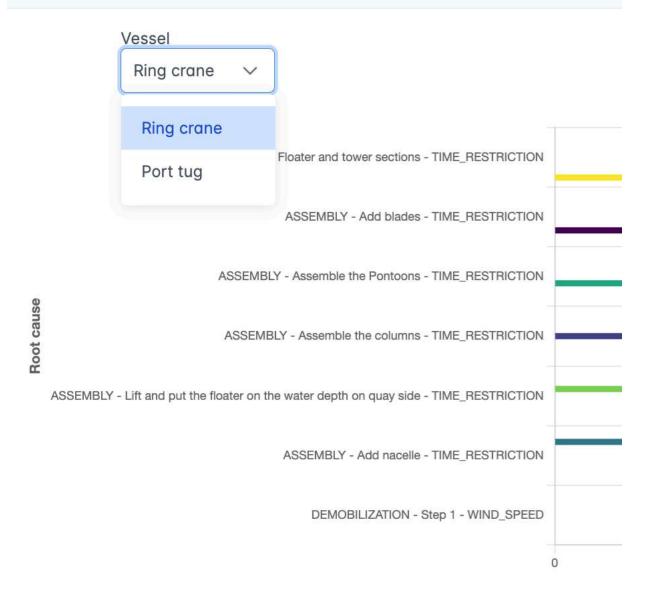
New outputs - Case input parameters output as part of the Output report

New output dashboard
Weather downtime root causesper logistics chart

We've finalized the Case Inputs feature by adding the strategy output. Now, users can access all parameters inputted in their case building for comparisc

We've introduced a new chart displaying the top ten major root causes affecting vessels and their processes during simulations. This hel

Weather downtime causes

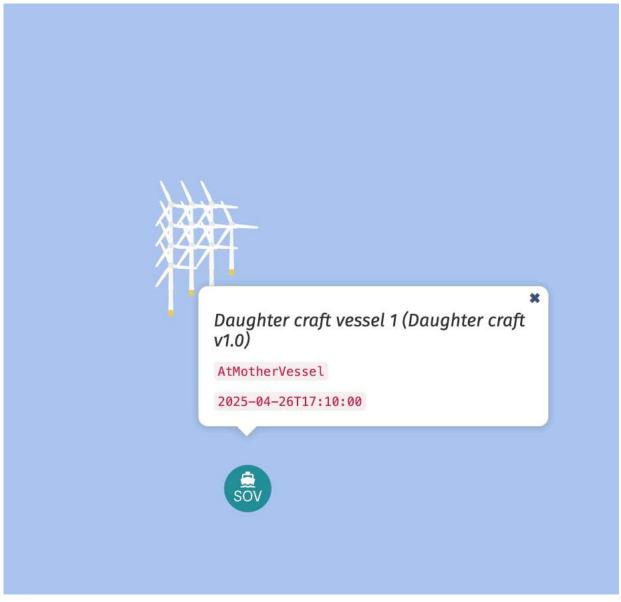


New output dashboard UI improvements

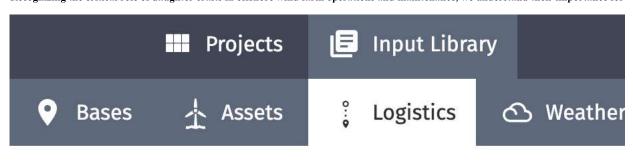
vessel

- We've increased the size of plotted dots on task end-time graphs for better visibility.
- We've also standardized color schemes across charts for a more intuitive user experience.

New logistics type - Presently, our users face limitations when modeling scenarios involving a daughter craft attached to an SOV in Design, Construction, an Daughter craft



Recognizing the critical role of daughter crafts in offshore wind farm operations and maintenance, we understand their importance for



ble installation vessel	Towing vessel	Crane	Anchor handling ves
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Daughter craft vessel

Name	Daughter craft vessel			
Number of units to add		8		
Port	2)Bergen - Marshalling port			
Mother vessel	Service operation vessel 1			
Spot chartered				

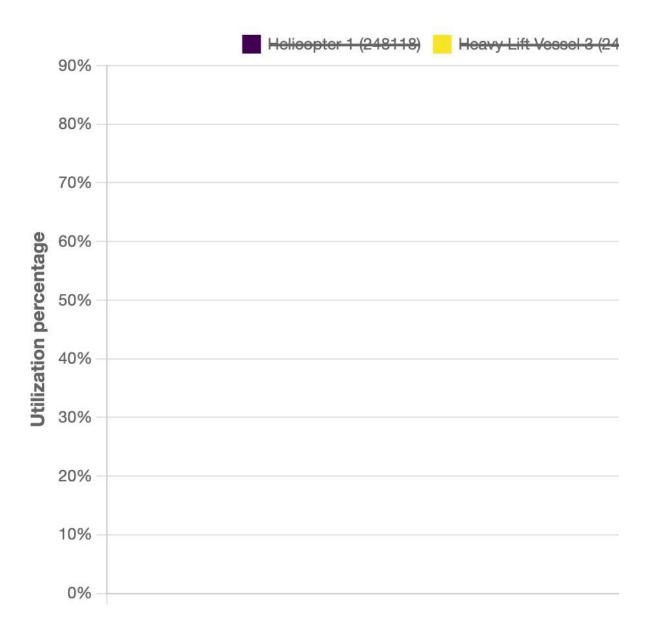
Members Pa

Parameters

Weather Criteria

Power Curve

Tasks	Start date		
Manual HSE checkup	01. Jan		
Service Nacelle	01. Jun		
Service Turbine Hub	01. Jul		
Statuatory inspection	20. Mar		
Annual Service	01. Jan		
+ Add Scheduled Maintenance	Import CSV		



Others Alongside introducing new features, we have consistently enhanced the technical aspects of our platform to ensure seamless and uninter

Release number Release Date Design v3.40.0.0 12 Mar 2024

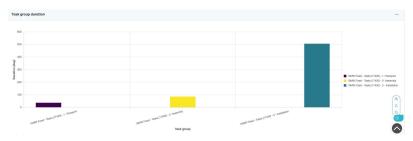


20:47

Headline Description

In response to customer requests, a chart displaying the duration of each task group from the start of the first work order/task to the end of tl Construction 3 Design. This offers a more intuitive visualization compared to the milestone log based on P-run data.

New dashboard view: Chart -Task group duration



New dashboard view: Chart -Task group end date

The new Task Groups end-time graph will allow users to see the completion date of each group of tasks for different percentiles. We will improve the visualization of this chart in the subsequent releases

Average task duration per task group -**Output report** Users can now find the output data for average duration of a task from a Task group

Users can now generate a comprehensive report detailing important case input parameters or configurations for a case model. This feature en leading to specific outputs within the Design application.

S	Case bases Case assets	Case logistics Ca	se personnel			
	К	L	M Process step speed [kn]		N Process step duration	O Process step required weather wind
tude	Process name	Process step name				
	Mobilising	Site Prep			0.0h	
	Mobilising	Structure Tower			0.0h	
	Mobilising	Structure Blades			0.0h	
	Loadout	Step 1			0.0h	
	Transit to wind farm	Step 1		13		
	Jack up	Step 1			0.0h	
	Jack down	Step 1			0.0h	
	Transit to next asset	Step 1		13		
	Transit to port	Sten 1		12		

Case Inputs -Output Report

Next iterations - Will be available for O&M in subsequent releases

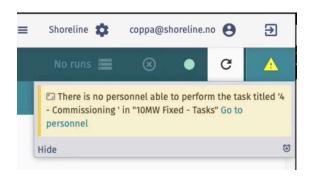
access

Input Library The customer Account Admin role can now have the highest permission access to all templates in the input library, streamlining template man

Enhanced Skill Validation for Transfer Tasks

Modelers will now receive notifications if they forget to set required skills on transfer tasks or omit these skills from personnel groups. Addition personnel with the required skills and consider vessel transportation capabilities for the tasks.



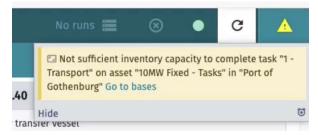


Task and Personnel Group Validation

Users editing tasks on assets or personnel groups will be prompted to add necessary skill groups or skills, respectively, before saving changes. sets assigned to transfer tasks that have not been allocated to any personnel group.

Implemented a validation check to address simulation failures from vessel capacity exceeding port capacity. Users will now receive an error n simulation failure.

Case validation to check vessel vs. Port capacity -Inventory



The asset access limitations settings can now be modeled for Crew transfer vessels to improve case accuracy.

More weather criteria inputs on CTV

- Wind speed access limit values in m/s (similar to SOV)
- Wind speed limitation reference height in m (similar to SOV)

Enhancements Technical improvements

Release Number Release Date Design v3.39.0.0 27 Feb 2024



12:33

Headline Description

The "weather causes output" feature provides insights into the factors contributing to the total weather downtime experienced by logistics u

•The weather causes report explains how various weather conditions affect the total downtime of a vessel during a simulation period or camp

output

Weather causes •For example, suppose there's a 20% occurrence of wind speed exceeding limits during step 1 of process A on vessel X. In that case, this conti



Configurations We have removed some of the old Construction 1 fields on the product to make the workflow for Construction 3 users easier and clearer. (no Design Construction 3 new output dashboard has all the listed additions now.

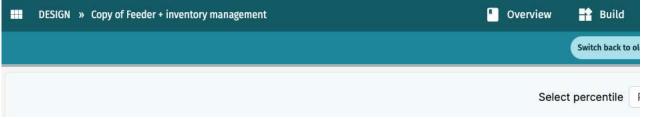
Charts

- 1. S-Curve
- 2. Inventory Management
- 3. Vessel Utilization
- 4. Personnel Utilization
- 5. Weather downtime per logistics unit

Reports

New output dashboard Beta

- 1. Output report
- 2. Project Plan



New output dashboard Beta

Design O&M's new output dashboard has all the listed additions now

- 1. Time-based availability (TBA)
- 2. Production-based availability (PBA)
- 3. Vessel Utilization
- 4. Personnel Utilization
- 5. Scheduled maintenance completion per year
- 6. Weather downtime per logistics unit

Reports

1. Output report



Enhancements Technical improvements

Release Number Design v3.38.0 Release Date 07 Feb 2024



08:58

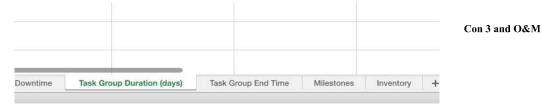
Headline

Description

Shoreline Design p

The new Task group duration and Task group end time output will allow users to see the duration of each group of tasks for different percentiles to identify the individual risk each task has at each percentile. This will remove the need for them to look at the milestone log to find this detail. In this release, we are releasing the output data as part of the Output report, and the chart in the dashboard will be implemented iteratively in future releases.

New Outputs to Design



Project plan for all P values

It has been possible to download one Project Plan report per percentile. For users wishing to compare the reports for all percentiles without lots of manual clicking, we have now released the option to download a zip folder that contains the CSV files for all the percentiles. The folder is called 'All percentiles csv'

Con 3



It is now possible to duplicate the configurations of Base, Asset, and Logistics and reuse it in the same case instantaneously without saving them to the Input library by choice.

Duplicate the configuration template within a case



Con 3 and O&M

Enhancement and Bug fixes

General technical improvements

Con 3, O&M

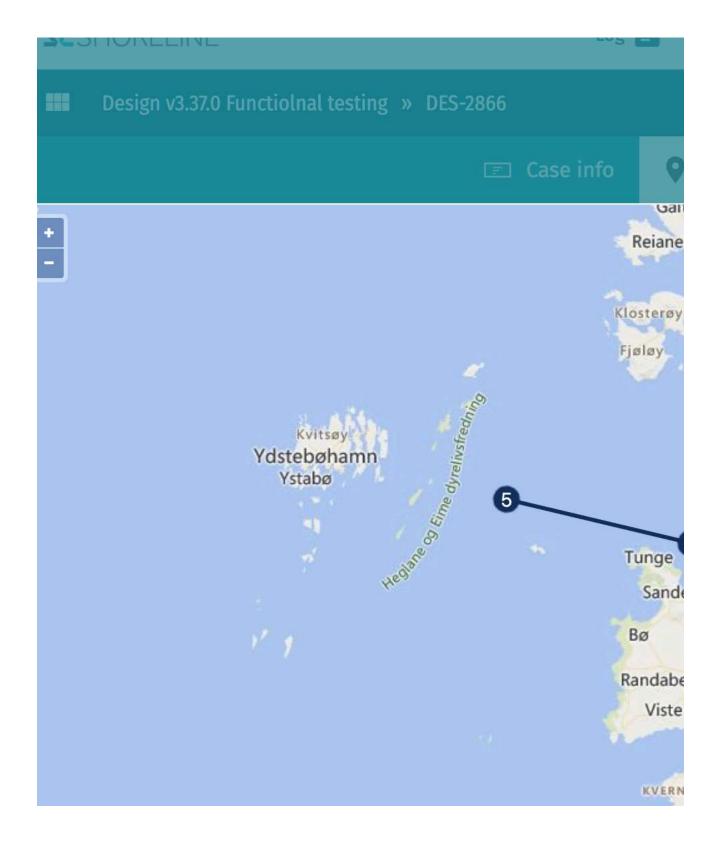
Release Number Design v3.37.0 Release Date 24.01.2024

Headline Description

Additional Construction 3 & O&M route inputs

such as Speed We have added the ability to set speed limits (Max speed) at bases and the wait times ('Time delay') at each waypoint. This is an excellent additimit and
Time Delays
for

Waypoints



These local restrictions could include:

- Designated zone areas within the port (anchorage areas, gates, customs & security checkpoints)
- Environmental restrictions, e.g., whale movements, sea animals' mating season, etc.,
- Local laws to manage local community relations e.g., as regards reducing noise and disturbance caused by fast-moving vessels

The impact of setting these restrictions can be viewed in the Visualisation Log and the visualization.

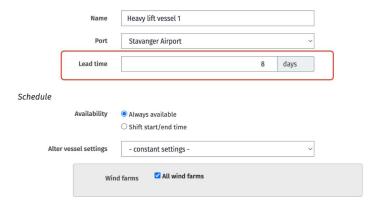
Lead Time I for individual vessel

instances

d Time In Shoreline Design, lead time is the amount of time needed to make preparations before a vessel carries out a task.

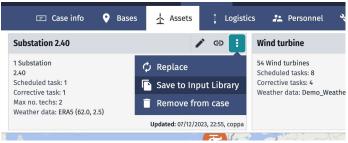
It was previously possible to set lead time for all the major vessels on the Strategy tab, which meant the same lead time was applied to all vessels. In reality, there can be a k

Heavy lift vessel

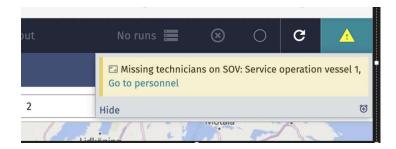


It is now possible to save Base, Asset, or Logistics configuration settings in a case back to the Input Library so they can be reused in other case:

Saving data from the Case of the project to Input Library

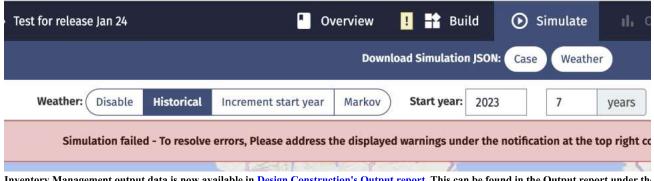


We have increased Shoreline Design's performance! Previously, we have been continually validating cases as users build them; now, we only va

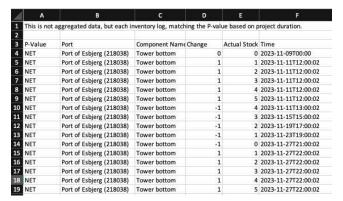


Enhanced case validation function

You may also have observed that we have improved the hints and warnings given to users so that they don't always appear and only notify who warned of how this change will impact the rest of their case.



Inventory Management Output report Inventory Management output data is now available in <u>Design Construction's Output report</u>. This can be found in the Output report under the



We're making some changes to the Design application's Output Dashboard for Construction and O&M.

Check out the development by selecting to view the beta version.

Note: the Inventory Management graph can only be found on the beta dashboard.

Caution: The new output page is in beta and undergoing active development. You might encounter bugs and limited functionality.



In future releases during Q1, we will continue to add new output data (charts, widgets, tables) to the dashboard for both construction and O&

Highlights:

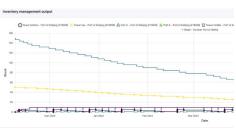
- The percentile selector applies to all items on the page, including the reports.
- All reports can be found at the top of the page.
- · All graphs have zooming functionality, colors, and icons designed to improve readability and accessibility.

Construction 3

The 3 Weather Downtime per Logistics Unit graphs are now amalgamated into one, with tabs for Yearly, Aggregated, and Monthly. This reduc

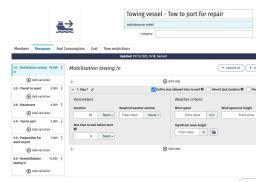
New Output dashboard





The Inventory Management graph is now on the beta dashboard and has improved visuals.

Process cycle We have <u>restructured the towing vessel process cycle</u> to optimize O&M specially for floating scenarios, enabling more efficient execution of tov for towing vessel



Enhancement and bug fixes

- 1. Tasks will now be completed if the Inspection, Preparation, Replacement, and Finalisation fields are empty or have a default value of 0. I
- 2. Scheduled Maintenance recurrence should be based on the number of operational years.

Release Number Design v3.36.0 **Release Date** 14.12.2023

Headline Description

Optimization Improved process scheduling: Fix in response to user feedback regarding process initiation times. Previously, processes commenced on the hou minute discrepancies, especially within larger campaigns, this fix ensures that processes start the next minute following the previous process cy

Bulk Edit permissions will be applied correctly without refreshing the page twice.



Enhancement and bug fixes

1. In cases involving feeder vessels for installation tasks, there was a minor bug causing them to go unreported in the process cycle log. We have successfully

2. Fixed the bug around cable installation vessel (CIV) capacity. The project timeline now accurately reflects CIV capacity

Release Number Release Date

Enhancement and Bug fixes

Design v3.35.1 08.12.2023

Headline

Description

We have fixed a minor bug around vessel selection not replicated on copied case.

Shoreline Design I O&M

Release Number Release Date Design v3.35.0 30.11.2023

Headline

Description

Design Construction: Inventory Management feature release

Shoreline Design product (s)

Inventory Management is a feature that enables the users to strategically control every component in the construction of wind farm project simulation in Design software.

Users can now model all the components required to construct a wind farm project on Shoreline Design, such as tower components, tower assemblies, nacelles, blades, and floating foundations.

Port Capacity: The storage of components can now be modeled on bases, allowing users to itemize the exact number of each component that can be stored at each base. The flow of components between the manufacturing base, marshaling harbor, and wet storage can be easily tracked using the new Inventory Management graph on the Output page, and Construction 3 stock levels can be set to reflect real-world space limitations.

Strategic movement of components: The movement of components can be modeled on transport tasks, allowing users to itemize what is being transported from one location to another and in which quantity.

Complex assemblies and installations: The assembly of components, such as several tower components into a tower assembly, can now be modeled on an asset's tasks. This aids in greater visibility of what is being performed in each assembly and installation task and allows for modeling more complex scenarios, such as floating installations. Find out more about how Inventory Management can help:

New Feature

Optimisation

Inventory Management

1)We have now added more Statistical selector Percentile values such as Min, Max, 25, 50, 75 with the existing ones P10, P20, P30, P40, P50, P60, P70, P80, P90 are available in the project plan report the output report, Statistical p-Selector in the output dashboard.

Construction 3, O&M

2) Users can now validate their cases using Check Case button. This triggers case checkers run on demand and notify all the errors and warnings under Notifications.





3) We've integrated a permanent link within the Design application, allowing users to conveniently access release notes whenever they prefer.



Minor Changes

- 1. We have removed MS Project and Primavera format Milestones and Process cycle Log from S-Curve download section.
- **Construction 3**

Shoreline Design product (s)

- 1. The users can export the assets without any error messages in O&M
- 2. The users can upload a corrective maintenance task without any errors in O&M
- **Enhancements and Bug Fixes** 3. The user can save changes by clicking the newly added Save button at the bottom section of the Scheduled Maintenance task page in O&M.

O&M

Release Number Release Date

Design v3.34.0 21.11.2023

Headline

O&M - Corrective maintenance tasks

Addressing Location Mismatches between Personnel and Vessels (CTVs and Helicopters Without **Mother Vessels**)

Enhancements and Bug Fixes

Description

Design O&M In a wind farm with Operations start year X+2 (X being the simulation start year), we have had a bug $0\&\mathrm{M}$ where failure rates were not started X+2 but X. This has been fixed in this release.

In our previous tool version, a discrepancy between personnel and vessel locations allowed the simulation to proceed, marking tasks as completed inaccurately. This occurred ONLY with CTVs and helicopters lacking a mother vessel. We've rectified this Construction 3, O&M problem by implementing a fix, ensuring tasks progress only when the site/location

 $1. \ When \ multiple \ cranes \ work \ on \ the \ same \ assembly \ tasks, \ the \ simulation \ will \ run$ successfully without failing.

matches. The simulation now correctly fails when there is a mismatch.

- 2. We have also improved our scheduling algorithm to handle the interaction between Con 3, O&M the daylight restriction of the helicopter and the personnel work shift.
- 3. Users can delete projects without any issues

Release Number Release Date

O&M - Corrective

maintenance tasks

Design v3.33.0 18.10.2023

Headline

Description

Design O&M can now have major Vessels(with Processes) for Offshore Substation Corrective maintenance Task.

Available major vessels: Heavy Lift Vessel (Jack-up vessel), Towing Vessel

- 1. You can now bulk select and apply date and time restrictions in multiple process' steps by using the Bulk Manage Limitation option on the three-dot menu.
- 2. If the user did not save the rule by clicking apply, a warning message will notify the user that

Date and Time Restrictions

the rule is not saved Construction 3, O&M

How to use: Date and Time Restrictions document

Enhancements and Bug Fixes

We have removed the Case Comparison tab from the Design tool

Con 3, O&M

O&M

Shoreline Design product (s)

Release Number Release Date 3.32.0 28.09.2023

Headline Description

Project Plan Report

Shoreline Design product (s)

New Feature

- Managing wind farm simulation projects is now simpler and more insightful with the Project Plan Report.
- Get a comprehensive view of your entire project timeline in one report.
- Tasks are organized hierarchically and can be expanded or collapsed as needed using software like MS Project, Construction 3 Primavera P6(Oracle)
- Visualize task hierarchies and dependencies effortlessly.
- Make informed decisions and streamline project management.

How to use: Project Plan Report document

Date and Time Restrictions

- You can now specify certain timeframes during which logistics are unavailable for use on a project at a task's Process and Step level of logistics.
- **New Feature**
- This feature empowers you to accurately represent real-world constraints within your projects.

Construction 3, O&M

- Constraints may include Local Laws, Environmental restrictions, Cost reduction and financial planning, Authority body rules, and more.
- Enhance your project modeling experience with unparalleled flexibility and realism

How to use: Date and Time Restrictions document

Release Number Release Date 3.30.0 19.09.2023

Headline

Description

Shoreline Design product (s) affected

Improvements

The feeder vessels can be assigned different feeder task combinations as long as all the feeder tasks Construction 3 main task is assigned to the same HLV. However there was an edge case scenario of a feeder task combination on the same feeder vessels, that broke the HLVs work flow. The scenarios we could handle without problems:

- Same feeder task type, but for different main tasks (on the feeder vessel would be:)
 - Feeder task type A for installation task 1
 - Feeder task type A for installation task 2
- Different feeder task types, but for the same main task (on the feeder vessel would be:)
 - Feeder task type A for installation task 1
 - Feeder task type B for installation task 1

The scenario we could not handle before, but we can now

Release Number 3.29.0 Release Date 06.09.2023 Headline Description Shoreline Design product (s) affected 1. Addressing variations for multiple feeder tasks under Logistics - process **Bug fix and Improvements** Construction 1, 3 2. Removed invalid warning for Construction 1 -When you add assets with tasks from input library Release Number 3.26.0 17.08.2023 **Release Date** Headline Description Shoreline Design product (s) affected **Bug fix and Improvements** Adding related instances on the asset **Construction 3** Release Number 3.25.0 Release Date 10.08.2023 Headline Description Shoreline Design product (s) affected 1. Modelling cases with multiple feeder vessels 2. Adding steps for anchor Handling vessel -**Bug fix and Improvements Construction 3 Processes** Release Number 3.24.2 10.07.2023 Release Date Headline Description Shoreline Design product (s) affected We have updated how the S-curve is calculated. **Construction 3** S-curve Please see here and here for more information. Addressed bug fixes in relation to deletion of new **Bug fix and Improvements** customers and users that are not assigned with Construction 3 and O&M projects or cases

• Different feeder task types, and different main task (on the feeder vessel would be:)

Feeder task type A for installation task 1
 Feeder task type B for installation task 2

Release Number 3.23.0 Release Date 29.06.2023

Headline Description Shoreline Design product (s) affected

Bug fix and Improvements

Bug fix and Improvements

Addressed bug fixes in relation to deletion of new customers and users that are not assigned with

projects or cases

Construction 3 and O&M

Release Number 3.22.0 **Release Date** 16.06.2023

Headline Description Shoreline Design product (s) affected

Addressed bug fixes in relation to uploading CSV files for Power curve of Asset -Turbines, Inter-Array Cables and edition of Asset member

locations

Construction 3 and O&M

Release Number 3.21.0 Release Date 01. 06. 2023

Headline Shoreline Design product (s) affected Description

We fixed a bug related to deletion of Skill set under Tasks module of Bug fix **Construction 3**

Release number 3.20 Release date 04.05.2023

Distances and Transit Times

Shoreline Design Headline Description product(s) affected

> Distances and Transit Times between port and wind farm, and between assets: All information which was available on the Cycle Overview tab on Construction 1 is now available on Construction 3 on the processes for each Logistic. More information can be found here.

Construction 3

In Construction 1 the Learning Curve indexes started from "1". In Construction 3 they start from "0". We have added some clarifying



Construction 3

Construction 3

O&M

Learning Curves

Bug fix

Weather data

information in the product:

See the Learning Curves page for more information.

We continued work on the bug fix identified in 3.19 regarding limitations due Construction 3

to daylight restrictions.

Construction 3 We have added weather data for South India.

O&M

3.19 Release number Release date 27.04.2023

Shoreline Design Headline Description products(s) affected

When these weather files are uploaded, historically both boolean values were registered for Lightning and for Limited by Daylight.

Some weather files (not ERA-5) contain data on daylight and lightning.

Bug fix However for some time we have only been simulating on "it is dark" = 0 and

"there is not lightning" = 0. This is a bug, which we have now fixed so that daylight and lightning are taken into consideration in the simulation.

We will investigate how long this has been a bug and the likely impact on customers' cases.

Release number 3.18

Release date 19.04.2023

Shoreline Design Headline Description products(s) affected

The Output Report is now available for download on the Outputs Page. Please **Construction 3 Output Report**

find more information here.

3.17 Release number 12.04.2023 Release date

Headline Description

Bug fix We have fixed a bug related to the creation of new cases.

Shoreline Design product(s) affected **Construction 3** O&M

Construction 3

3.16 Release number 30.03.2023 Release date

Bug fix

Bug fix

Headline Description

The fuel cost implications of all steps of cable laying were not fully

considered in Shoresim calculations. The cable laying vessel now registers fuel consumption when it is in transit (per km) and when

doing the cable lying cycle, in line with other vessels.

Max time to wait before start (Process Builder)

Reworked "Max time to wait before start". This is a feature which has Construction 3 caused many users confusion so we have made some adjustments. See

the Process Builder in Construction 3 page for more information. We found that when the SOV is working at highest utilisation during a

day we don't count the day rate. Now the day rate includes the count of every date.

Construction 3

affected

Shoreline Design product(s)

Construction

3.15 Release number 22.03.2023 Release date

Headline Description

Improved usability

The Lead time on the Strategy tab now defaults to "0" if left blank, making it clearer for users

Shoreline Design product(s)

affected Construction O&M

Release number 3.14 Release date 16.03.2023

No customer-facing updates

Release number 3.13 13.03.2023 Release date

Headline

Housekeeping Bug fix

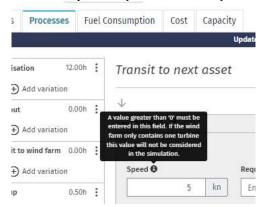
Transit to next asset

Description

Clean up of old accessibility logs

When copying a case it is now only possible to click the 'Add' button once. The dialog box is then closed and a copy is made behind the

Added a tooltip for clarity on this functionality:



Shoreline Design product(s)

affected Shoresim Construction O&M

Construction 3

3.12 Release number Release date 03.03.2023

No customer-facing updates

Release number

3.11

Release date

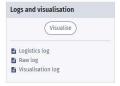
28.02.2023

Headline Description **Shoreline Design** product(s) affected

We have made some improvements to the Output Page which will make opening files in Logs and

Visualisation faster. Some unused fields and files were removed.

Logs and Visualisation



Construction O&M

Performance

We made some improvements to Shoresim 3 which should make cases with lots of runs complete faster.

Shoresim

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