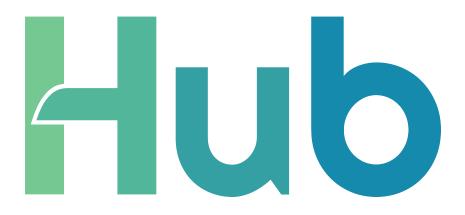
HUB Manual - Enterprise

v1.19.3



=mbion

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1 Introduction

This document describes the enterprise usage on the HUB portal. The features discribed in this document can be activated using an enterprise license.

The enterprise is mainly used to manage and monitor large amount of devices in the HUB and allow custom HUB layouts for namespaces owned by enterprises.

2 About this manual

2.1 Callouts

i Note

Used for notes in this documentation

🛕 Warning

Used for warnings in this documentation

Important

Used for important notes in this documentation

💡 Tip

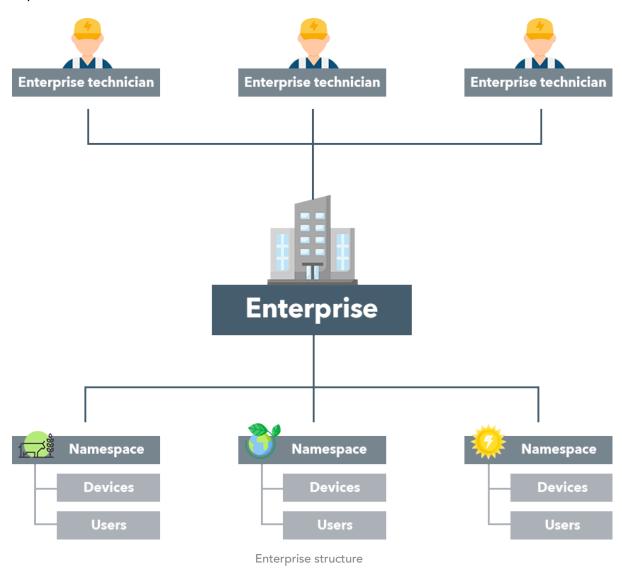
Used for tips in this documentation

b Caution

Used for caution notes in this documentation

3 Enterprise

The enterprise feature allows users to upgrade a standard namespace to an enterprise variant, offering advanced functionality to manage multiple namespaces within this enterprise. By inviting namespaces to join, enterprises enable them to gain access to manage the namespace at an enterprise level, eliminating the need for end-users to set up their namespace and providing both a simpler user experience and improved enterprise management capabilities.



Enterprises have the feature to create custom themes, enhancing the visual experience for users across namespaces within the enterprise. These themes can be crafted using company colors and logo's, ensuring a consistent organizational look across all namespaces linked to the enterprise.

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Ξ	Embion B.V. •							Û	2
8	Namespaces	田。	Enterprise >	Namespaces			${\cal C}$ Refresh	🖾 Invite 🔶	Create
	Devices		Ľ	Name	¢	\$	8	12:04 4	≈ 88
1 III	🗵 Join requests	1	ピ View	Filter		◄ Unmuted	🔗 Unlink	EcoSphere	4 <u>2</u>
		2	ピ View	Anchstead Grains		♦ Unmuted	🔗 Unlink		
	⑦ Themes⑧ Dashboard templates	3	Ľ [*] View	SunSpark Solutions		4) Unmuted	& Unlink	()	ome Sphere ged by: Embion B.V. =
								(2) Dashboard	Enterprise
								Devices	Combined views
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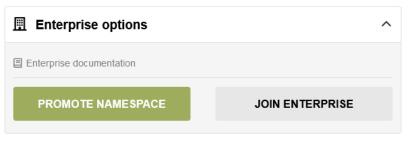
HUB Enterprise

4 Enterprise management

To create a new enterprise, navigate to the namespace settings where enterprise options can be found. Within the enterprise options, a button to promote the namespace to an enterprise can be found. This same location serves as the point of access for namespace users who wants to submit a join request for an existing enterprise.

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H	Embion B.V. ~		¢ 🙎
<u>;;;</u> ;	8 General	Settings > General	Remove namespace
Ë	음일 Users		
	P Roles	Avatar for the namespace 200x200	
P.C.		*Name:	
		Embion B.V.	
		UPDATE SETTINGS	
		Enterprise options	
		Enterprise documentation	
		PROMOTE NAMESPACE	
÷		JOIN ENTERPRISE	
-65 •			

Namespace settings



Enterprise options

4.1 Create enterprise

To upgrade a namespace to enterprise, you'll need a valid license code and CCV code. If the license is valid and not expired or already used, the upgrade will be successful. Licenses can be bought from authorized resellers.

••					
Н	Embion B.V. ~			Ŷ	0
<u>(:]</u> ;)				emove nam	espace
ÊW					
		Promote to enterprise ×			
P		Please enter a valid license below to promote the current namespace to an enterprise. License code:			
		SUBMIT Cancel	^		
© •		JOIN EN TEKPRISE			

Promote enterprise with license

🛕 Warning

A license can only promote a namespace to enterprise once. When the enterprise is removed, it cannot be promoted again with the same license.

Important

Before promoting a namespace to an enterprise, ensure that it does not contain any linked devices. If so, please disconnect them before proceeding with the promotion.

After a namespace is promoted to an enterprise, the enterprise will now be displayed within the namespace selector. Users can open the enterprise by pressing the 'open' symbol.

•••			
Ξ	Ξ	Embion B.V. ×	
	0	ය Choose a namespace X	① Create
<u> </u>		Q Search namespaces	÷ 📋 💡
121		<u> ⊞</u> Enterprises	
		Embion B.V. Enterprise	
		St EcoSphere	
		O SunSpark Solutions	
		Anchstead Grains	
		Close	
£\$3		<pre><< 1 >> 1page</pre>	4 items

Enterprise displayed within namespace selector

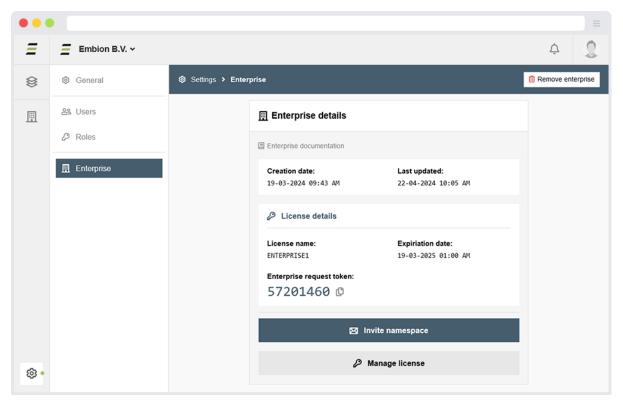
Connected namespaces are listed under the enterprise and can be toggled open or closed to hide them. From here, users can navigate to the connected namespace by pressing them.

Important

When enterprise users visit a namespace connected to the enterprise, their role within the enterprise determines their role within the connected namespace.

4.2 Enterprise details

After a namespace is promoted to an enterprise, a new 'Enterprise' page is added to the settings application. Here, users can find details of the active license and manage it as needed. Additionally, the enterprise token, which can be provided to users to create a join request with their namespace for the enterprise, can be found here.



Enterprise details

4.3 Remove enterprise

Removing the enterprise will change it back to a regular namespace and lose the ability to manage connected namespaces. All users will keep their roles within the namespace.

Important

Removing the enterprise is only possible if there is at least one administrator in all of the connected namespaces. If not, an administrator must be assigned before proceeding with the removal.

5 Enterprise features

When a namespace becomes an enterprise, users within the enterprise gain access to the enterprise application, where they can use all available enterprise features.

i Note

The enterprise application is only visible for users when inside an enterprise they member of or a connected namespace within this enterprise.

5.1 Namespaces

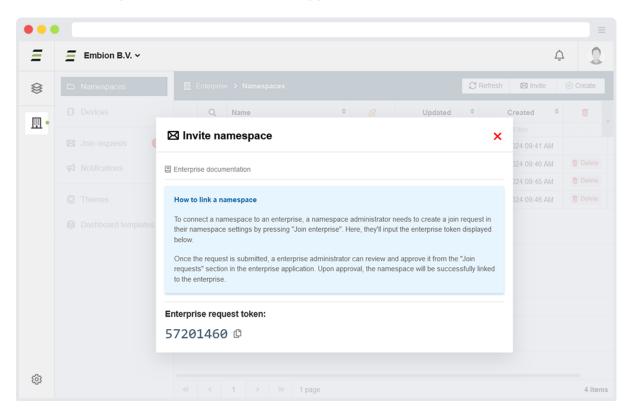
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=	Embion B.V. ~						Castat	¢ ()
\$	Namespaces	ᄪ	Interprise >	Namespaces	C Refresh	☑ Invite		
	Devices		Ľ	Name	۰	\$	8	Created 🗘
. •				Filter				Filter
	Join requests	1	Ľ [∎] View	💕 EcoSphere		♦ Unmuted	🔗 Unlink	19-03-2024 09:46 AM
	A Notifications	2	ピ View	Anchstead Grains		Onmuted	🔗 Unlink	19-03-2024 09:45 AM
		3	Ľ [∗] View	O SunSpark Solutions		 Unmuted 	🔗 Unlink	12-03-2024 15:46 PM
	Dashboard templates							
£		~	< 1	> >> 1 page				■ 3 ite

Namespaces overview

On the namespaces page, it is possible to manage all connected namespaces. It possible to create new namespaces which are directly linked to the enterprise, allowing to set them up before inviting end-users.

5.1.1 Invite namespaces

For enterprise users, adding existing namespaces to the enterprise isn't directly possible. Instead, a user within the namespace must create a join request. To do this, they need a token, which can be found by pressing the invite button on the namespace overview or within the enterprise details in the settings application.



Invite namespaces

i Note

When a namespace creates a join request, enterprise users will receive a notification within the HUB. Upon acceptance or rejection, namespace users will receive a notification informing them of the status of their request.

💡 Tip

When users require further information on joining the enterprise, documentation is accessible here.

5.1.2 Unlink namespaces

••								
Ξ	Embion B.V. ~			¢				
\$	Namespaces	Enterprise > Namespaces	🖂 Invite					
		& Unlink namespace ×	reated	¢ 🚺 _т				
	🖂 Join requests 🛛 🌔	() Warning	024 09:41 AM					
		This action is permanent, therefore it cannot be undone!	024 09:46 AM					
		Are you sure that you want to unlink the namespace EcoSphere from the enterprise? Your enterprise will lose access to the namespace, but it will remain accessible to its current users.	024 09:46 AM					
		Please confirm the action by entering the name of the namespace below.						
		Type the following to confirm:						
		EcoSphere 🗅						
		* Namespace name (case sensitive):						
		SUBMIT Cancel						
-				4 items				

Unlink namespaces

It's possible to unlink a namespace from the enterprise, which results in losing access to manage it. However, the namespace will continue to exist with its current users.

Important

Unlinking the namespace is only possible if there is at least one administrator within the connected namespace. If not, an administrator must be assigned before unlinking the namespace.

5.1.3 Visit namespaces

In the namespace overview, it is possible to access the listed namespaces by clicking on the row or the "show" button. When enterprise users visit a namespace, their role within the enterprise determines their role within the namespace.

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Ξ	💕 EcoSp	here 🗸		E Managed by: Embion B.V.	0
<u>(:]</u> ;					
i.			Welcome		
			EcoSphere		
		<u>(2)</u>	<u>III</u>	¢	
		Dashboard	Enterprise	Settings	
		il S		Combined views	
		Energy pricing	Devices	Combined views	
ŝ					

Visit namespaces

Important

When enterprise users visit a namespace connected to the enterprise, their role within the enterprise determines their role within the connected namespace.

5.1.4 Switch namespaces

When a user is a member of an enterprise, enterprises will appear within the namespace selector. This allows enterprise users to easily switch between namespaces they have access to, without needing to open the enterprise application.

•••			
Ξ	Ξ	Embion B.V. ×	
	•	路 Choose a namespace X	Create
		Q Search namespaces	÷ 📋 💡
		Enterprises	
		🚍 Embion B.V. Enterprise 🖸 🔿	
		CoSphere	
		O SunSpark Solutions	
		Anchstead Grains	
		Close	
			4 items

Switch namespaces

Important

When enterprise users visit a namespace connected to the enterprise, their role within the enterprise determines their role within the connected namespace.

5.2 Devices

On the devices page, users can view all connected devices within namespaces linked to the enterprise. Various information about the devices will be displayed here.

•••											
Ξ	Embion B.V. ~						Ŷ	0			
	Namespaces Interprise > Devices										
	Devices		Online 🗘	Namespace 🗘	Name 🗘	Actual plant power	Actual solar power	Actu			
			Filter	Filter	Filter						
	🖾 Join requests 🛛 🙆	1	Online	EcoSphere	0100234334007U	3630 W	2301 W	86			
	Notifications	2	Ø Online	Ranchstead Grains	0100234534007T	2312 W	829 W	12			
	-	3	Ø Online	SunSpark Solutions	0100224633001K	1232 W	1021 W	16			
	C Themes	4	① Offline	SunSpark Solutions	0100234753007Y						
	Dashboard templates										
٩		~	۲ ۲	> >> 1 page				4 items			

Devices overview

The following details can be read from the devices:

- Online / offline status
- Name of the device
- Namespace where the device is registered in
- Actual plant, solar and grid power
- Run status, error and warning amount
- Plant control status
- Status message
- Device software status
- Product and serial number
- Dates of last data and status calls

5.3 Join requests

When a namespace wants to join the enterprise and has created a join request, those requests are listed here, giving the enterprise the ability to accept or reject them.

Embion B.V. ~						Ĺ	2 د			
Namespaces	Namespaces III Enterprise > Join requests									
Devices		Name	⊘ ≎	⊘ ≎	Created	\$	т			
☑ Join requests 2	1	SecoCharge Solutions	⊘ Accept	🔗 Reject	22-04-2024 10:42 AM					
A Notifications	2	SolarCity	⊘ Accept	🖉 Reject	22-04-2024 10:46 AM					
Themes										
Dashboard templates										
	~~	< 1 > >> 1 page					2 items			
	 Embion B.V. ~ Namespaces Devices Join requests (2) Notifications Themes 	Embion B.V. > Namespaces Devices Join requests Join requests Notifications Themes Dashboard templates	 Embion B.V. × Namespaces Devices Mame Join requests I G Enterprise > Join requests I G EcoCharge Solutions SolarCity Themes Dashboard templates 	 Embion B.V. × Namespaces Devices Join requests Name C Join requests I Enterprise > Join requests I EcoCharge Solutions Accept SolarCity Accept 	 Embion B.V. × Namespaces Devices Doin requests Process Process	Embion B.V. ~ Namespaces Devices Join requests I I Cocharge Solutions I I EcoCharge Solutions I <tr< th=""><th>Embion B.V. ~ Namespaces Devices Image: Contraguests Image: Contraguests</th></tr<>	Embion B.V. ~ Namespaces Devices Image: Contraguests Image: Contraguests			

Join requests

i Note

When a namespace creates a join request, enterprise users will receive a notification within the HUB. Upon acceptance or rejection, namespace users will receive a notification informing them of the status of their request.

5.4 Notifications

As an enterprise, it is possible to receive notifications from managed namespaces. This means when, for example, a device goes offline or a pricing scheme expires in a namespace managed by the enterprise, the enterprise users can receive these notifications based on their personal and enterprise notification settings. Additionally, an entire namespace within the enterprise can be completely muted if preferred, which can be done within the namespace overview.

Notification preferences for each user can be changed by selecting the user and adjusting the settings.

•••												
Ξ	Embion B.V										Ŷ	0
\$	D Namespaces	E E	Interpri	se > Notifications							📢 Send noti	fication
	Devices			Name	¢	al +	₩ +	₽ 3 ≎	₩ +	€3 ≎	\	٤
111	☑ Join requests 2	1		Filter Harper Stone		Filter	Filter	Filter	Filter	Filter	Filter	Filt
	A Notifications	2		Jordan Wells			×			 Image: A start of the start of		
	C Themes											
	Source Dashboard templates											
ŵ			-		-							
ŝ												

Notifications

💡 Tip

Namespaces within the enterprise can be completely muted if preferred, which can be done within the namespace overview.

5.4.1 Settings

Enterprises can manage notification settings for each user. Administrators can customize which types of notifications users receive and decide which notifications will (also) send an email.

Ξ	Embion B.V. ~					Ŷ	0
\$						📢 Send notif	
		Name	÷ 🕁 ÷	e3 ÷ e3 ÷	78 ÷ 78		E
	🖂 Join requests 🛛 🍕	Jordan Wells			×		
	⊊4 Notifications						
	C Themes	St Portal notification	0	0			
		Announcement Success	() Warning	Error	Verified		
		23 Mail					
		Announcement Success		Error	Verified		
		SAVE SETTINGS		Cancel			
\$\$\$							

Notifications settings

Important

These settings do not override personal account settings. For example, if a user disables warnings in their personal account settings, they will not receive any warnings notifications, even if the enterprise settings enable them.

5.4.2 Custom notification

Enterprises have the ability to send custom notifications to all or selected namespaces they manage. They can choose the type of notification and decide whether it will be sent to all users or only to namespace administrators.

Embion B.V. •		Ŷ	0
Send notification		📢 Send notif	
Devices	¢	\$	Σ
□ B I U □ P P			
Votifications Type something			
C Themes O O O O O			
Dashboard templates Announcement Success Warning Error Verified			
Create namespace selection			
<u>음</u> :			
All namespaces within enterprise			
<u>ک</u>			
All users Administrators			
SEND Cancel			

Sent notifications

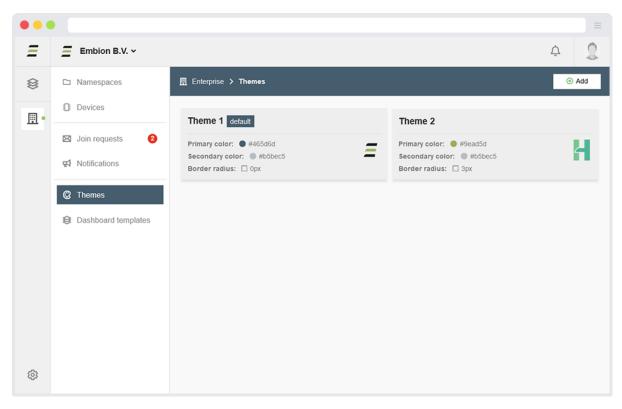
💡 Tip

Text within custom notifications can be styled within the input field and links can be created.

5.5 Themes

Enterprises have the feature to create custom themes, enhancing the visual experience for users across namespaces within the enterprise. These themes can be crafted using company colors and logo's, ensuring a consistent organizational look across all namespaces linked to the enterprise.

When a new namespace is created or linked to the enterprise, the default theme is automatically set for the users within the namespace.



Themes

🔮 Tip

Multiple themes can be created, allowing users within connected namespaces to choose one based on their preferences.

•••			
Ξ	Embion B.V	<i>I.</i> ~	4 Q
\$		(C) Theme	⊕ Add
		Theme details	
		Name Theme 1	
		ය Portal	Н
	C Themes	⑦ Create the overall look and feel of the portal, several elements in application will appear in these colors.	
		Portal styling	
		Primary color #465d6d	
		Secondary color #b5bec5	
		Accent color #e8eaec	
		Shadow color rgba(0, 0, 0, 0.20)	
		Rounded Squared	
¢		Dashboard	
		⑦ Colors will appear in basic widgets and EPEX charts on dashboards.	

Create theme

5.5.1 Portal style

When creating a theme, several colors can be changed to change the overal look accross the HUB platform. For now these colors and settings can be defined within the portal section of the theme.

- Primary color Used in the header, badges, and titles throughout the portal
- Secondary color Used as background on pages and element throughout the portal
- Accent color Used as background within several elements throughout the portal
- Shadow color Used as shadow on several element throughout the portal
- Border radius Change the border radius of element throughout the portal

i Note

When defining a theme, HEX, RGB, and RGBA colors are supported.

5.5.2 Graph colors

•••				
Ξ	Embion B.V.	. •		4 🙎
\$		Dashboard		⊕ Add
		⑦ Colors will appear in basic w	idgets and EPEX charts on dashboards.	
•		Basic data		
		Solar power	#edbe30	
		Grid power	#2c84c7	
	-	Plant power	#a3d0f4	
	C Themes	Plant power direct solar	#ef9c1f	
		Plant power direct grid	#aab3b9	
		Relative plant solar	#ffdd3c	
		Relative plant grid	#D1D1D1	- I
		Battery power	#66bb6a	
		EV charger power	#6a51a1	
		Actual reduction	#EA7180	
-		EPEX positive		
с ²		Positive 1	#a75de6	

Namespaces overview

Custom graph colors can also be defined when creating a theme.

5.5.2.1 Basic data

Colors for the following data within **basic widgets** on dashboards can be set:

- Solar power
- Grid power
- Plant power
- Plant power direct solar
- Plant power direct grid
- Relative plant solar
- Relative plant grid
- Battery power
- EV charger power
- Actual reduction

5.5.2.2 EPEX data

Colors for the data within **EPEX widgets** on dashboards can be set. There are four sets, where positive 1 corresponds to negative 1, and so forth.

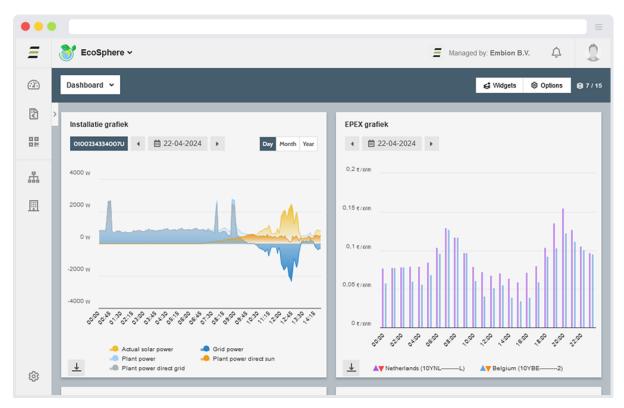
- EPEX positive (1-4)
- EPEX negative (1-4)

5.5.2.3 Advanced data

Colors for data within **Advanced widgets** on dashboard can be set. There is a total of ten colors that can be defined. Advanted widgets will use these colors based on how many graphs get drawn. For example: A advanced widget with four data sets will use the first four colors defined here.

5.5.2.4 Example

Example of a dashboard with the use of custom colors defined in a theme.



Dashboard example with theming

5.6 Dashboard templates

Enterprises can create dashboard templates, making it easier to configure dashboards across all linked namespaces.

When a new namespace is created or linked to the enterprise, users within the namespace can select from these pre-configured dashboard templates when creating a new dashboard.

This feature reduces the time and effort needed to set up new dashboards.

•••							
Ξ	Embion B.V. ~					1	÷
\$	Namespaces	<u>∏</u> Enterprise	> Namespaces				${\cal C}$ Refresh
	Devices	്	Name	¢	Template	Created 🗘	Upda
•			Filter			Filter	Filte
	Join requests 2	1 🕑 View	F EPEX PRICING		() Enabled	12-06-2024 11:27 AM	18-06-2024 1
	A Notifications	2 🗷 View	PLANT OVERVIEW BASIC		() Enabled	12-06-2024 11:15 AM	17-06-2024 1
		3 🖉 View	S PLANT OVERVIEW EXPERT		() Enabled	20-02-2024 16:24 PM	17-06-2024 16
¢			1 > >> 1 page				3 items

Templates

Within the enterprise application a template plugin is added where enterprise users can manage their templates. In this overview the following options can be found:

- **View templates** This will open the dashboard application where the templates can be made
- **Enable or disable templates** This will enable or disable the ability for linked namespaces to select the template
- **Delete templates** This will remove the dashboard template (and dashboard itself within the dashboard application)

5.6.1 Create dashboard template

Templates can be created by opening the 'Dashboard templates' application within the enterprise namespace. When creating a new dashboard, there is an option to enable the dashboard as a template.

All available widgets can be used to create the template. The configuration settings of the widgets will also be saved within the template, allowing enterprise users to pre-define widget configurations based on the template.

•••			
Ξ	Embion B.V. ~		¢ 🙎
\$•	EPEX PRICING 👻		St Widgets Options 4 / 15
<u> </u>	EPEX chart	Actual EPEX price	
	∢	S Create dashboard template	6:23
		* Name:	
		TEMPLATE NAME	
		Icon: Color:	
		a ~	ahead price (EPEX)
		Enable template	1€/kWh
	O CTANN	SUBMIT Cancel	
¢	Avelherlands (10YNL		

Create template

💡 Tip

Enterprise users can create new dashboard templates and enable them later. This allows them to set up and configure the dashboard before making it available to users in the linked namespaces.

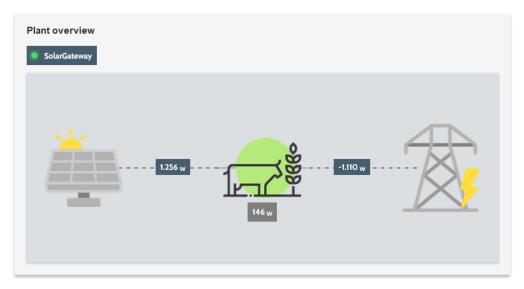
5.6.2 Widget feautures

Enterprises can use additional configuration settings in widgets while creating dashboard templates. Currently, only the Plant Overview widget contains these extra settings, but more widgets will include them in future updates.

5.6.2.1 Plant overview

Namespace image instead of icon

In additional of the default icons, Enterprise users can enable the option to display the uploaded namespace image as icon within the Plant Overview widget.

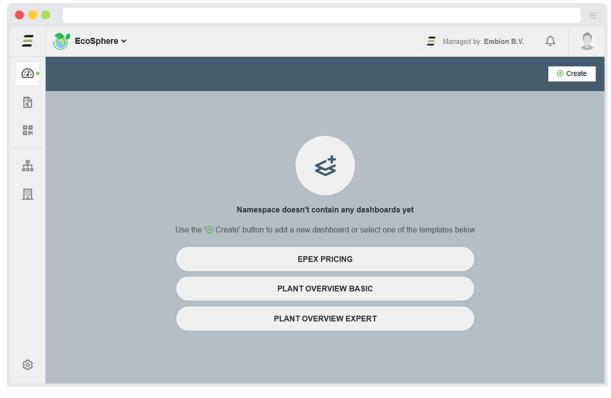


Namespace image within plant overview widget

5.6.3 Select dashboard template

Dashboard templates can be selected and used within all linked namespaces. When a user in a linked namespace opens the dashboard application and no dashboards are created yet, a list of available templates is displayed. Users can press on a template to create a dashboard based on it.

When a dashboard template is selected, all configuration settings of the widgets are copied from the template. If a namespace has only one device connected, the device will automatically be selected in the configuration for the widgets that need a device configuration. Otherwise, the user has to open the configuration settings and select one of the connected devices.



Select template with no dashboards created yet

i Note

If a namespace has only one device connected, the device will automatically be selected in the configuration for the widgets that need a device configuration. Otherwise, the user has to open the configuration settings on first usage and select one of the connected devices. Additionally, users can open the create dashboard form and select one of the templates if desired. If no template is selected, an empty dashboard is created.

••				
Ξ	CoSphere ~	a	Managed by: Embion B.V.	¢
•				
i.				
		Create dashboard	¢ l	
-		* Name: Plant overview		
<u>II</u>	Use the 1	Icon: Color:	es below	
		Template:		
	_	Q Search		
		Empty dashboard EPEX PRICING		
		PLANT OVERVIEW BASIC		
		PLANT OVERVIEW EXPERT		
ŝ				

Select template within the dashboard create form

6 Enterprise user management

6.1 Users

•••				
Ξ	Embion B.V. ~		Ļ	0
	General	Settings > Users	Search	
	용 Users	Active users		
	Harper Stone			
		Jordan Wells		¢
• ھ				

Enterprise users

The users page shows all active and pending users within the enterprise, new or existing users of the HUB can be added by pressing the invite button. By pressing the user, roles can be applied.

When enterprise users visit a connected namespace, their role within the enterprise determines their role within the namespace.

By pressing the settings icon the user can be made admin or can be removed.

6.2 Roles

•••				
Ξ	Embion B.V. ~		Ċ	0
\$	General	Settings > Roles Create role Q Search		
	음을 Users	Roles		
	P Roles	Manager 1 month ago		Û
	Enterprise	Member		Û
		1 month ago		
		1 month ago		Û
• ھ				

Enterprise roles

In each enterprise, custom roles can be assigned to users. By default, certain roles are available, but they can be modified as per the requirements. If needed, new custom roles can be created.

i Note

When enterprise users visit a connected namespace, their role within the enterprise determines their role within the namespace.

6.3 Connected enterprise

••						
Ξ	💕 EcoSphere 🗸		Ξ	Managed by: Embion B.V.	Ţ	0
<u>(:]</u> .)	General	Settings > Users		☑ Invite Q Search		
Ê	路 Users	Enterprise				
	P Roles	Embion B.V.				
뷺		Enterprise				
<u>.</u>						
÷ ئ						

Enterprise shown in user overview

When a namespace is connected to an enterprise, the enterprise will be displayed in the user overview within that namespace.

*=*mbion

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