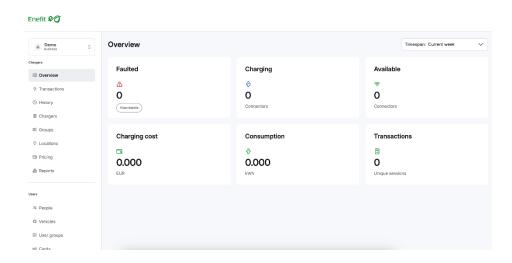
Enefit charger portal manual (end user)

Overview of the menu items

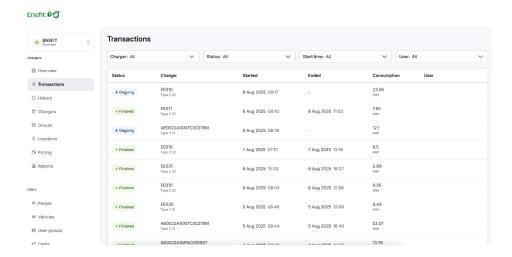


The Enefit Charger Portal is a versatile tool to handle asset management, access control and data reporting for electric vehicle charging.

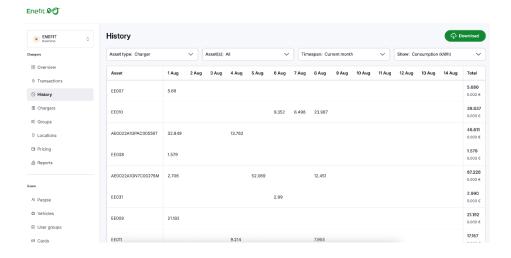
Overview - gives an at a glance overview of the charger platform.

- Faulted shows the number of connectors currently suffering from a fault with a direct link to charger list filtered view
- Charging shows the number of connectors currently in an ongoing charging transaction
- Available shows the number of connectors available for charging (does not include connectors where car is connected but no charging is taking place)
- Charging cost shows the accumulating total cost of charging for the selected time period of the overview page based on the kWh consumed and price plan
- Consumption shows the accumulating total kWh count based on the time period filter selected on the overview page
- Transactions shows the accumulating total number of charging transactions based on the time period filter on the overview page

Transactions - A running log of all ongoing and past transaction with timestamps and amounts charged.



History - historical data for charging amounts and associated costs

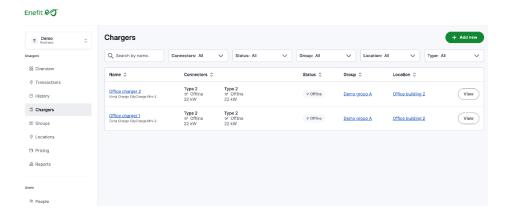


Asset types:

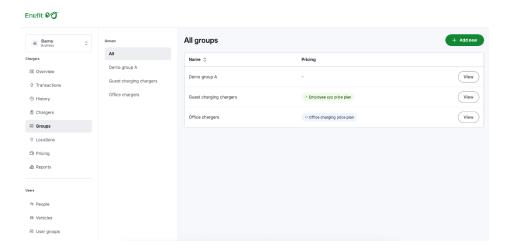
- Charger
- Person
- Vehicle
- Location
- Charger group
- User group

Charging history data can be downloaded in csv format from the "download" button. Currently set filters are taken into account in the export file

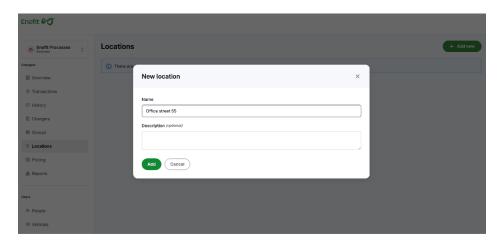
Chargers - list view of all available chargers in the account



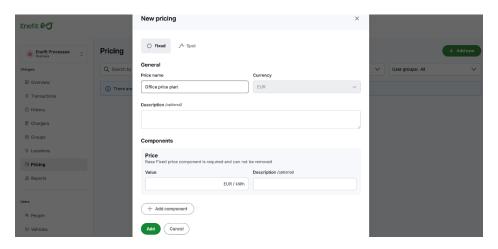
Groups - to arrange chargers into groups in order to assign them different price plans/users or to categorize charging data



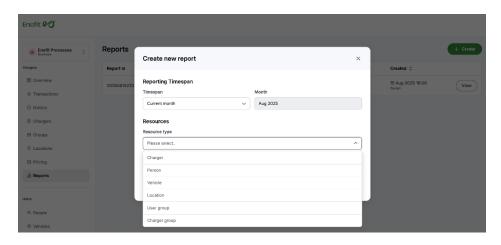
Locations - Charger locations allows to categorize chargers by locations



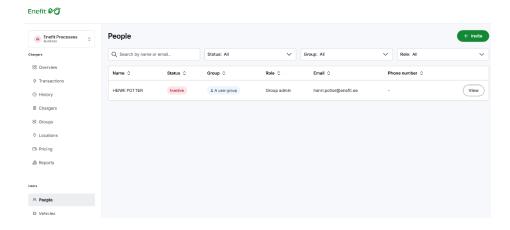
Pricing - For setting up price plans (market price and fixed) that allow to keep track of kWh price for charging transactions and for defining access for user group to charger group



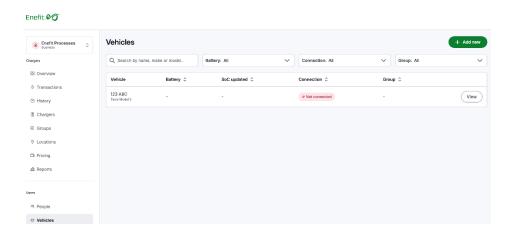
Reports - Statistics tool to produce static reports for a given time period for consumption or cost



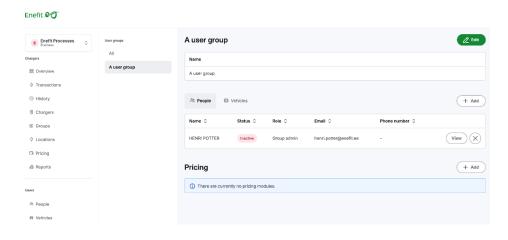
People - User management



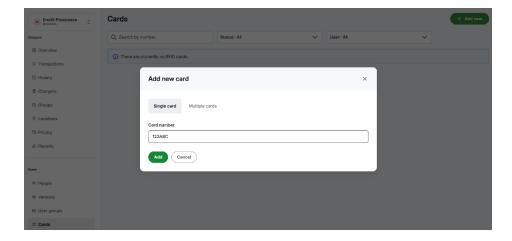
Vehicles - Allows for adding and connecting to EVs for access management and statistics and cost tracking



User groups - Allows to group users together based on required logic and access management



Cards - For charging card management



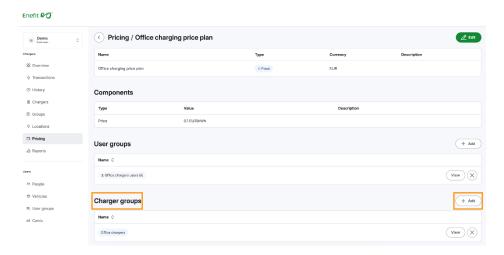
How-To's:

Giving user access to chargers

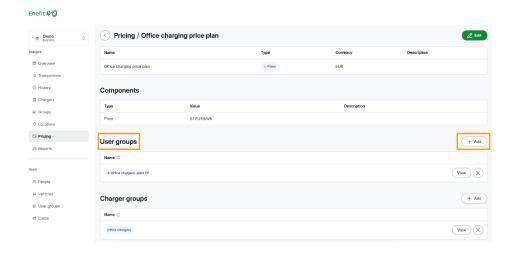
User access to chargers in Enefit Charger Portal works through price plans. In order to define the charger(s) that any given user can access means setting up a user group, a charger group and linking those via a price plan. Let's go through the process:

Create a user group and add the user you want to give access to charge to that group

Create a charger group and add the charger you want the user to charge on into that group



Create a price plan and link the user group and charger group to that price plan



And that's that. The user can now charge using the chargers you add to that charger group. Additionally any other users you add to the same user group can also charge on those chargers

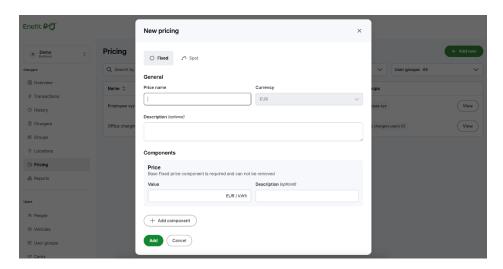
Creating Price plans

In Enefit Charger Portal price plans are the core that ties the chargers and users together giving users access to charge on chargers. It also allows for tracking cost associated with kWh consumption.

In order to create a price plan navigate to the "Pricing" menu in the main menu and click on "Add new"

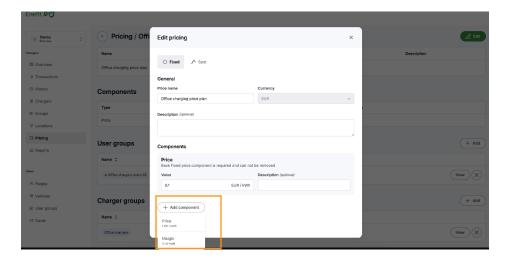
There are two types of price plan that can be created Fixed price price plan and Spot

Fixed price plan:



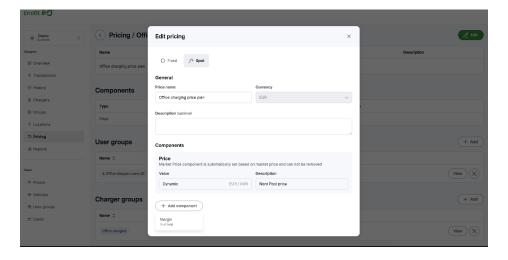
In order to create a fixed price plan you need to enter a name for the price plan and at least one price component with a price value. If you want to create a more complex price plan you can add

price components and even a margin % value to be taken into account while calculating kWh price per charging



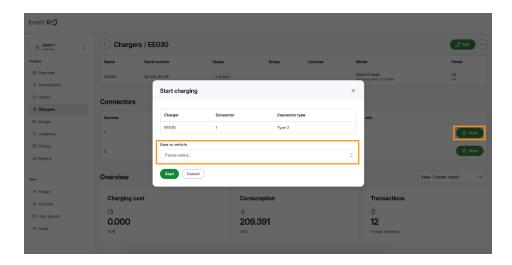
Spot price plan

Spot price plan takes the nordpool market price automatically to calculate the kWh price for charging and thats why there is no need to enter a value for price.



Starting charging

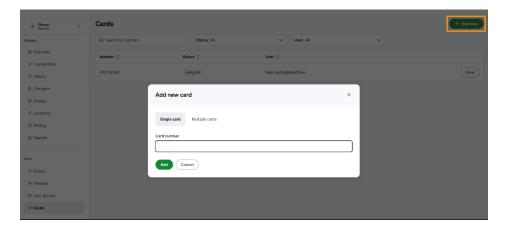
Charging can be started via charging (RFID) card that is linked to the user or EV that has access to charge in the charger or via the Enefit Charger Portal. In order to start charging via the portal navigate to the charger view of the desired charger and click start on the connector that has the EV connected you want to start charging. You also need to pick as who or which EV you want to start the charging session, this is necessary to make sure the charging session consumption can be attributed to the correct asset (user or EV)



Once the user or EV is picked, click "Start" and charging will begin and charger connector status will update to reflect the ongoing charging.

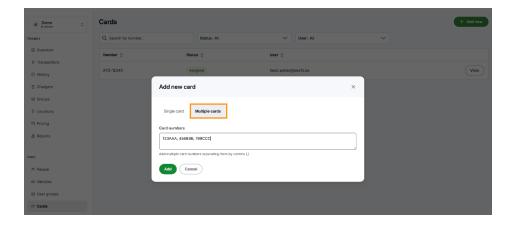
Adding Charging (RFID) card(s)

RFID cards can be added from the "Cards" menu item of the users section of the menu. Navigate the the "Cards" view and click on "Add new" on the top right.



Enter the RFID card id tag found either printed on the card or read from the card itself and click "Add" As a result the card now appears in the "Cards" view list. For the card to work it will need to be linked to either a user or an EV.

If you have multiple cards to add you can use the second tab "Multiple cards" where you need to enter each card ID tag separated by a comma (,) and add cards in bulk.

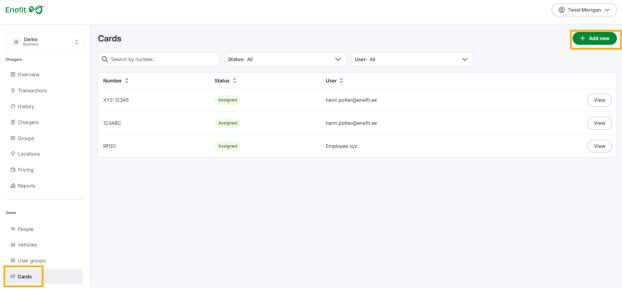


! You can try adding non-official Enefit RFID card tags as well but they are not guaranteed to work, it depends on the type of ID Tag on the card or the card itself.

Adding charging (RFID) cards to specific user or vehicle

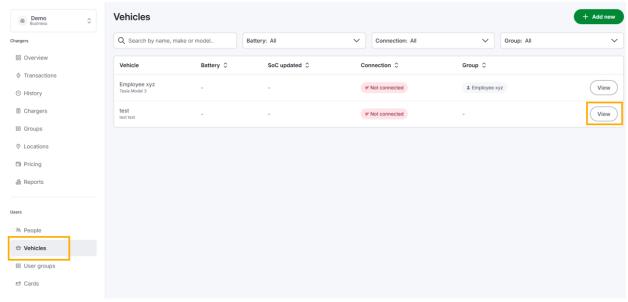
In order to add an RFID card to a user, navigate to the "People" view under the "Users" section of the main menu and view the details of the user who you want to assign the RFID card to

Adding RFID card to user:

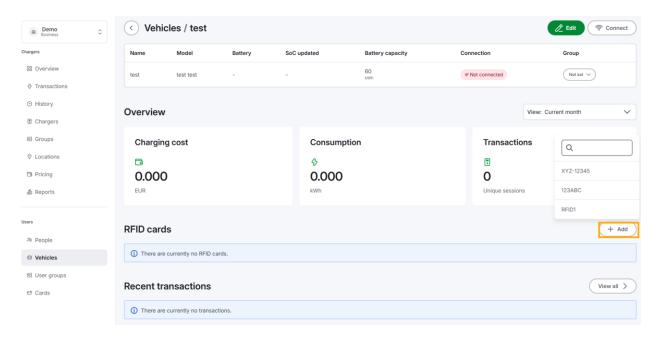


Adding RFID card to vehicle:

Select vehicle:



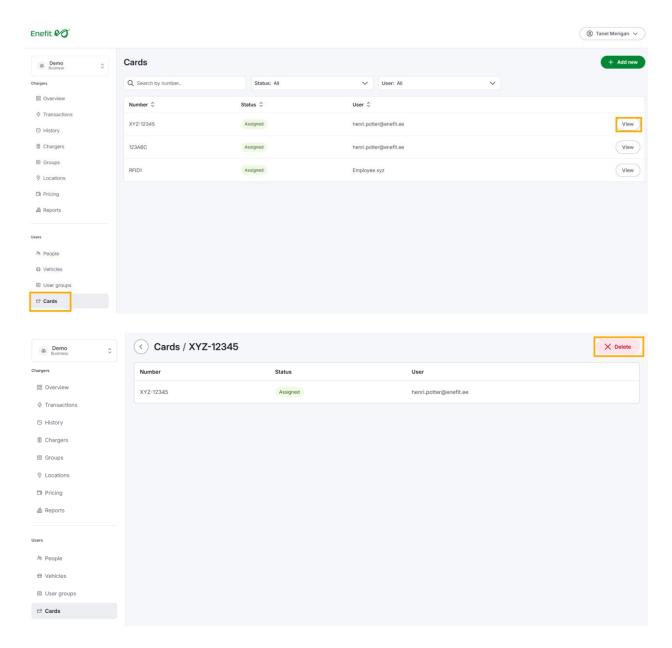
Select pre-defined rfid card:



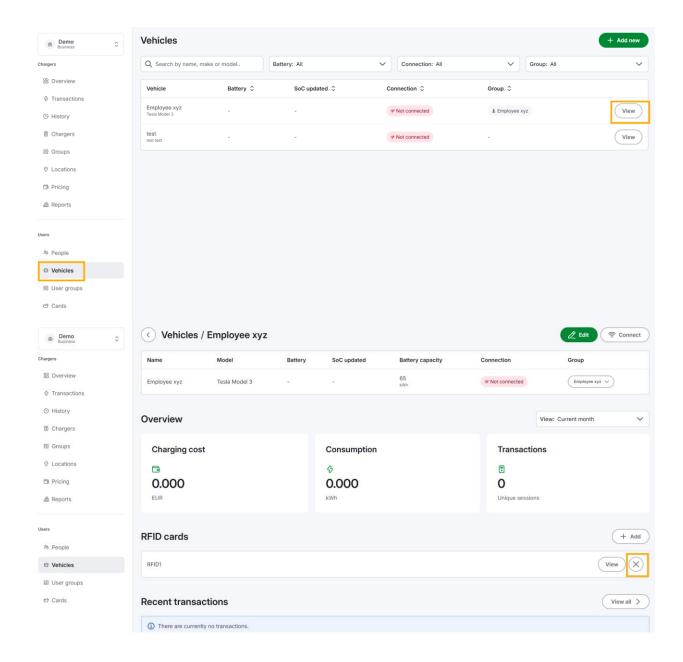
Removing charging (RFID) cards from user or EV

There are two ways to remove an RFID card from a user or an EV.

• Delete the RFID card from the RFID card from "Cards" list view



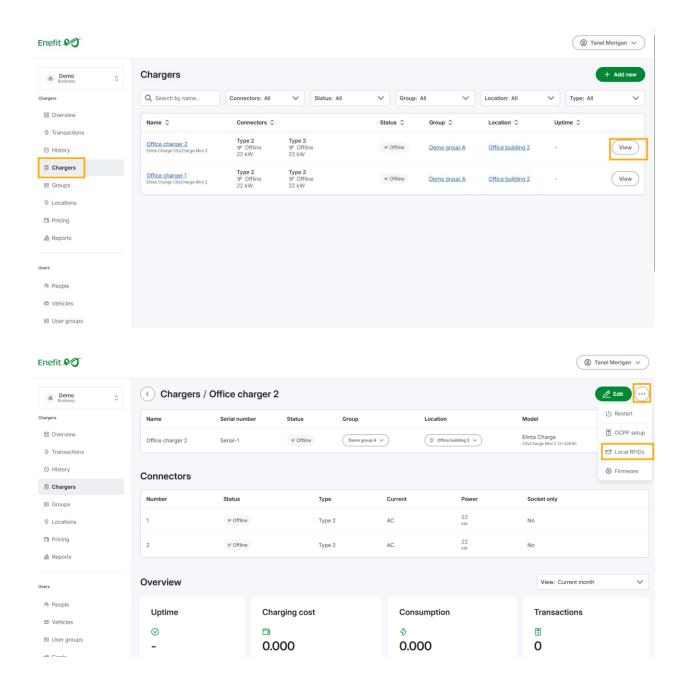
• Navigate to the user or EV from which you want to remove the RFID card and from the RFID category click the remove button (X). This way the card is unassigned from the current user/EV but remains in the "Cards" list view so it can be assigned again

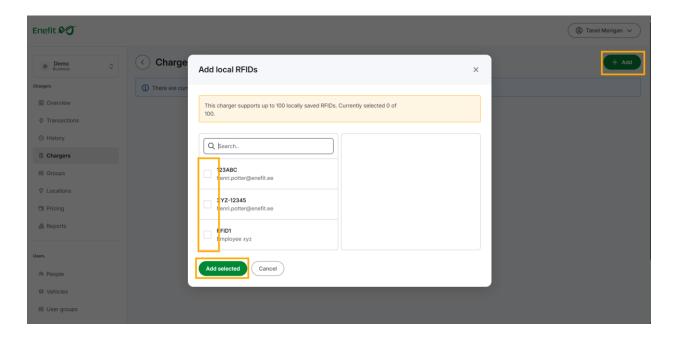


Adding charging cards to charger local list for offline usage

Charging (RFID) cards can be added to chargers local lists - this means the card ID tag is stored locally on the charger itself and this ensures that if the charger should for any reason lose internet connection, charging can still be started with the RFID card stored on the charger locally.

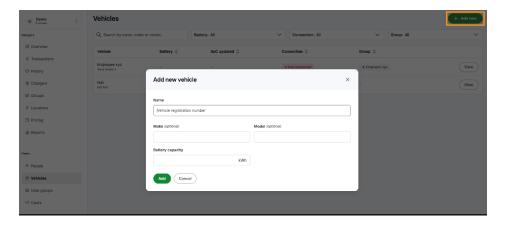
- ! In order to add a charging (RFID) card to the local list, it first needs to be assigned to a user or vehicle and the user/vehicle needs to have access to the charger (via price plan and charger group and user group linking)
- ! RFID cards can only be added to the charger local list by Tenant Admin user





Add Vehicles

Open the "Vehicles" view from the "Users" section of the main menu and click on the "Add new" from the top right



Enter the name or license plate number of the vehicle and battery capacity of the vehicle and click "Add"

The newly added vehicle appears in the "Vehicles" list view.

Connecting Vehicles for battery state of charge and remaining range information

Connecting Vehicles for battery state of charge and remaining range information

Supported vehicle models can be connected to the portal via Enode service to fetch EV battery state of charge information and remaining range.

In order to connect a vehicle for its battery state of charge information and remaining range data the vehicle must first be added from under the "Vehicles" list view. Navigate to "Vehicles" in the main menu and click on the "Add new" button on the top right corner of the window. (See Add vehicles section)

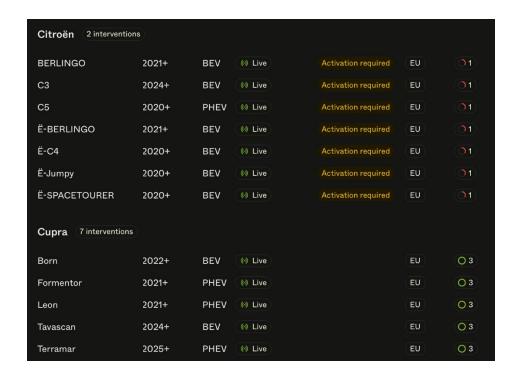
Once the vehicle is added, navigate to the vehicle detail view (Main menu "Vehicles" \rightarrow find the vehicle you want to use \rightarrow click view on the right side of the window

On the vehicle details view find the "Connect" button at the top right of the window and click on it \rightarrow this opens up vehicle connection window where you can log in with your vehicle credentials to grant access to the data.

! Depending on the type and make of the vehicle the time when new information about battery SOC and/or range is updated can differe, that is why enefit charger portal also shows a timestamp when this data was last updated.



! Support is limited only to good connection EVs. Full list is available <u>here</u>. Level 3 reliability EVs are supported.



Exampe of Level 3 and Level 1 reliability EVs.

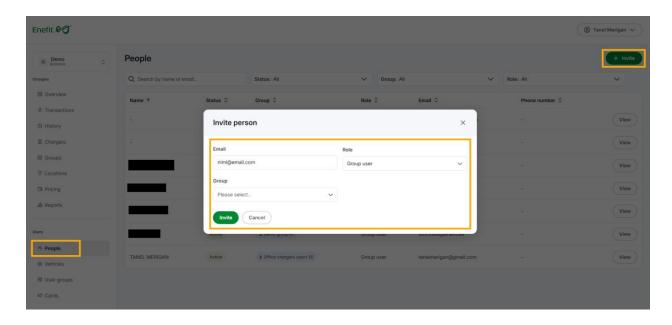
Inviting users

New users to your company or private user account can be added by the admin role level users. Either Tenant admin or group admin. Group admin can only add users to the group they are the admin in.

Navigate to "People" menu item in the main menu which opens the "People" list view. Click the "Invite" button on the top right corner of the window

Enter the email address where the invitation should be sent to, specify the role of the invitee and if necessary the group they should be assigned to. Then click "Invite"

- ! Email address is not the account name, any email address that receives the invitation link can activate this invitation. In order to activate the account the recipient has to click on the invitation link in the email and follow the instructions to log in via strong authentication. Once log in occurs the user name will be taken from the account that logged in.
- ! Users only gain access to charging once their account has been activated, even if they have charging cards added to them already, charging is only allowed after they have activated the account



Managing user permissions

There are three levels of permissions on Enefit Charger portal or three different roles: Admin, Group admin and group user. Admin has access to the whole account, to every charger, group and user and all generated meter data. They can set up price plan, create group and reports and invite users.

In order to change the permission navigate to the "People" main menu item and open the people list.

Find the person whose permissions you want to edit and click "View" on the right side.

On the person detail view click "Edit" on the top right of the window.

An edit window opens where you can pick the role of the user, confirm the selection by clicking "Save" at the bottom.

! Make sure the user is in the correct group before attempting to change their permissions.

Deactivating users

Deactivating users removes all permissions from the user including their access to charge on chargers.

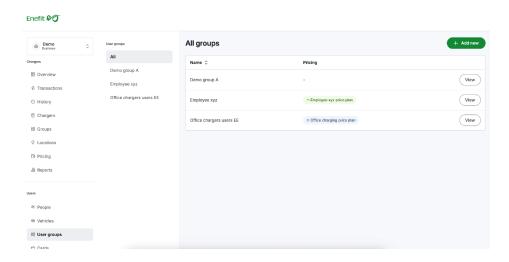
Navigate to "People" menu item in the main menu and open the people list view.

Navigate to the user you want to deactivate and open their detail view by clicking on the "View" button on the right side.

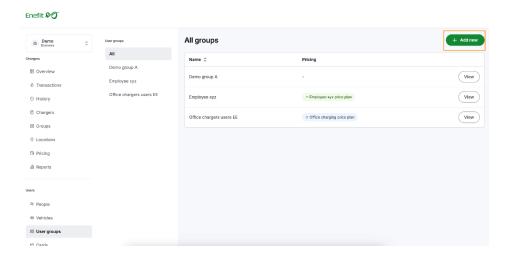
Find and click on the "Deactivate" button on the top right of the window and confirm the action by clicking "Deactivate" a second time in the open dialogue window.

Creating user groups

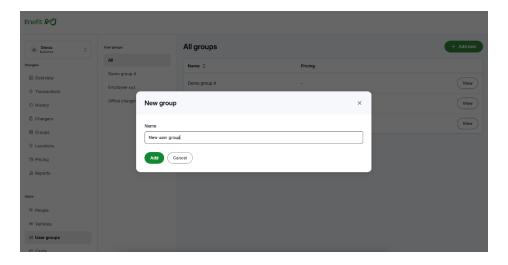
Navigate to the user group view under Users section



Click the "Add new" button on the user groups view top right



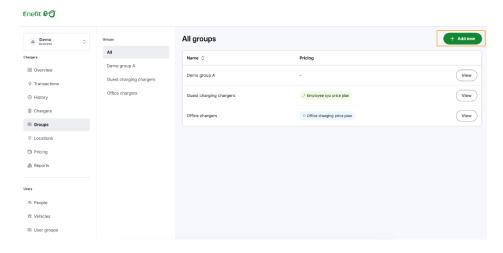
Enter a desired name for the group and click "Add"



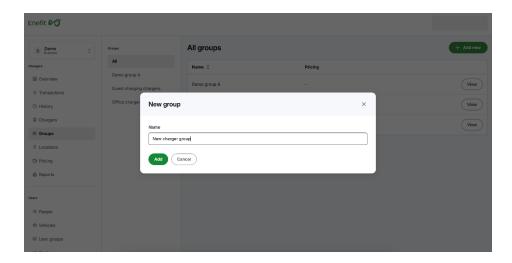
Newly created group appears in the user groups view and users can be added to the group

Creating charger groups

Navigate the Groups option in main menu under chargers category and click "Add new" on the top right corner on the Groups view



Enter the desired group name and click "Add" - the new group will be created and is visible in the groups view



Creating reports

Reports can be generated to provide a static overview for a time period for charging kWh consumption or cost based on chargers, charger groups, users or groups, vehicles or locations.

New report can be generated by navigating to the "Reports" main menu item.

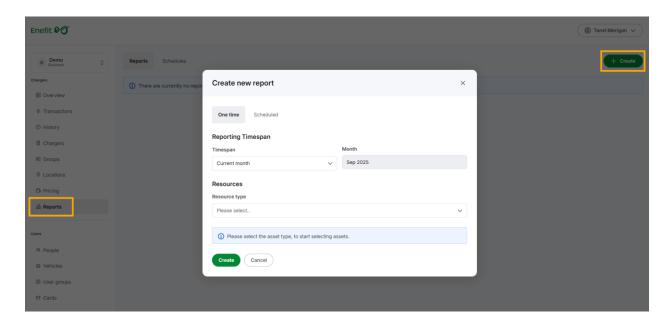
Click on the "Create" button on the top right of the window.

Select the timespan for what period of time you want the report to cover

Select the resource type (Charger, person, vehicle, location, user group, charger group)

Select the specific assets you want included in the report and click "Create" at the bottom.

Reports can be exported and downloaded in csv format from the report view by clicking on "Download" on the top right of the window

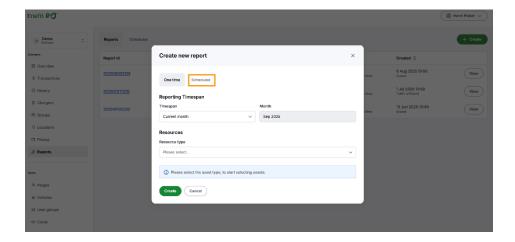


Scheduling reports

Charging reports can also be scheduled for cases where you want regular consumption reports each month for a certain charger, vehicle, location, user or groups. You can even assign a recipient and their email address this ensures that the report is also sent out to any email addresses you define when a new one is ready.

In order to schedule a report open the reports view from the "Reports" main menu item and click on "create" on the upper right side of the window

Select the "schedule" tab on the opened new report creation modal



Write a name for your report so you can recognize it later

Pick the resource type for what you want the report to be about

Then pick the specific assets in the resource type to choose what you want reflected in the report

Optionally you can add email addresses if you want the report to also be automatically sent out when a new report is generated each month

And finally click "Create" at the bottom of the modal to create your scheduled report

Charger uptime

Enefit charger portal allows users to monitor the charger connectivity uptime in various views in order to see how the charger connection is performing. Uptime shows the chargers connection to the internet in percentage values. The chargers list view shows uptime for each charger for the current month. If you want to see uptime values for a different time period you would need to navigate the specific charger view and using the time filter on the right side of the window you can pick the desired timeframe.

Charger uptime is also calculated for locations. So for example if you'd like to see the uptime of all chargers in any given location open the locations view and navigate to the location of interest, scroll down and find the uptime statistic card available there.