

The eco-solutions button (accessible from the zebrix screens page)



This button opens a window with all the energy optimisation options.

1. Fine tuning of the authorised switch-on times.
2. Management of exclusion days.
3. Compliance with Ecowatt regulations.
4. Backlight level adjustment.

1- Fine tuning of the allowed switch-on times.

Eco-solutions: 1 Screen(s) selected

Operating Schedule Closing Days Ecowatt Backlight

Authorized operating hours

Enable limit of authorized operating hours

| Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| no restrictions | no restrictions | no restrictions | no restrictions | no restrictions | no restrictions | no restrictions |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| to | to | to | to | to | to | to |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

It has been observed that, for ease of use, many customers generally manage broadcast schedules globally over very wide opening hours in order to cover the often heterogeneous opening hours of their various points of sale. This results in unnecessary switch-on times and related energy (and wear) wastage as well as local issues of non-compliance with LARs (local advertising regulations).

This feature allows the local user to accurately set their opening hours, even taking into account their lunchtime closure. The result is that the screens can be switched on at more restrictive times than the centrally defined global schedule and that energy savings are more or less significant. A screen that is switched on at 7 a.m. instead of 9 a.m. saves 15 to 20%. Moreover, a screen that works less is also a screen that wears less and whose life span is statistically extended.

To use this feature, first click on the box **Enable broadcast hours limitation**. Then you will need to select an opening time per day by choosing a start time (in the top box) and an end time (in the box just below "to").

| Monday | Tuesday |
|-------------------|-----------------|
| broadcast allowed | will remain off |
| 8:00 AM | |
| to | to |
| 12:00 PM | |
| 1:00 PM | |
| to | to |
| 7:00 PM | |

To create a break in the day, you will need to enter a first opening and closing time: e.g. the opening and closing time of the morning, then click on the “+” button to add a new opening time line. You can then enter a second opening and closing time for the same day.

If no time is entered for a day, the screen will remain off for that day.

Finally, to save the changes, press “**Save these settings**”.

2- Management of exclusion days.

| Operating Schedule | Closing Days | Ecowatt | Backlight |
|--|--------------|-----------------------|-------------------------------------|
| Days when the screen must remain off (closing days, holidays, public holidays, etc.) | | | |
| Start Date | End Date | Description | Annual recurrence |
| 4/10/23 | 4/10/23 | Easter Monday | <input type="checkbox"/> |
| 5/1/23 | 5/1/23 | Labor Holidays | <input checked="" type="checkbox"/> |
| 5/8/23 | 5/8/23 | Armistice May 8, 194! | <input checked="" type="checkbox"/> |
| 5/18/23 | 5/18/23 | Ascent | <input type="checkbox"/> |

In this tab, it is possible to enter the exceptional closing days corresponding for example to public holidays or holidays.

To enter a holiday period, you enter the start and end date included in the closure period, for an isolated day, you only need to give the same date for the start and end of the period. The description is informative for the user. Finally, the “annual recurrence” box will allow this closure period to be extended to subsequent years.

The “+” button will add a new line for a new period, the “X ” button will delete the line for the period concerned.

Eco-solutions: 1 Screen(s) selected

Operating Schedule | **Closing Days** | Ecowatt | Backlight

Days when the screen must remain off (closing days, holidays, public holidays, etc.)

| Start Date | End Date | Description | Annual recurrence | |
|----------------------|----------------------|----------------------|--------------------------|----------------------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="button" value="X"/> |
| | | | | <input type="button" value="+"/> |

Pre-filled known public holidays | French public holiday 2023

| | | |
|---|-------------------------------|-----------------------------|
| Description: Easter Monday | Start Date: 2023-04-10 | End Date: 2023-04-10 |
| Description: Labor Holidays | Start Date: 2023-05-01 | End Date: 2023-05-01 |
| Description: Armistice May 8, 1945 | Start Date: 2023-05-08 | End Date: 2023-05-08 |
| Description: Ascent | Start Date: 2023-05-18 | End Date: 2023-05-18 |
| Description: Whit Monday | Start Date: 2023-05-29 | End Date: 2023-05-29 |
| Description: July 14 National Day | Start Date: 2023-07-14 | End Date: 2023-07-14 |
| Description: Assumption | Start Date: 2023-08-15 | End Date: 2023-08-15 |
| Description: Toussaint | Start Date: 2023-11-01 | End Date: 2023-11-01 |
| Description: Armistice November 11, 1918 | Start Date: 2023-11-11 | End Date: 2023-11-11 |
| Description: Christmas | Start Date: 2023-12-25 | End Date: 2023-12-25 |

In the drop-down list “Pre-filled known public holidays”, you will be able to select the holidays of your country for the concerned year, after your choice, they will be listed below. Then to add them, you will have to click on “**Add these days** “. and these dates will be added to the list of closing days.

Eco-solutions: 1 Screen(s) selected

Operating Schedule | **Closing Days** | Ecowatt | Backlight

Days when the screen must remain off (closing days, holidays, public holidays, etc.)

| Start Date | End Date | Description | Annual recurrence | |
|------------|----------|-----------------------|-------------------------------------|----------------------------------|
| 4/10/23 | 4/10/23 | Easter Monday | <input type="checkbox"/> | <input type="button" value="X"/> |
| 5/1/23 | 5/1/23 | Labor Holidays | <input checked="" type="checkbox"/> | <input type="button" value="X"/> |
| 5/8/23 | 5/8/23 | Armistice May 8, 194! | <input checked="" type="checkbox"/> | <input type="button" value="X"/> |
| 5/18/23 | 5/18/23 | Ascent | <input type="checkbox"/> | <input type="button" value="X"/> |
| 5/29/23 | 5/29/23 | Whit Monday | <input type="checkbox"/> | <input type="button" value="X"/> |
| 7/14/23 | 7/14/23 | July 14 National Day | <input checked="" type="checkbox"/> | <input type="button" value="X"/> |
| 8/15/23 | 8/15/23 | Assumption | <input type="checkbox"/> | <input type="button" value="X"/> |
| 11/1/23 | 11/1/23 | Toussaint | <input checked="" type="checkbox"/> | <input type="button" value="X"/> |
| 11/11/23 | 11/11/23 | Armistice November | <input checked="" type="checkbox"/> | <input type="button" value="X"/> |

Finally, to save the changes, you must press **“Save these settings “**.

3- Compliance with Ecowatt regulations.

Operating Schedule Closing Days **Ecowatt** Backlight

France only!

Automatically turn off this screen on a red Ecowatt day

Enabling this option on a screen will automatically keep it off during an "Red Ecowatt Day". The screen must have a properly working internet connection and has to be online on zebrix.

What is "Red Ecowatt Day"?

In France, a law came into force on October 1, 2022 concerning the obligation to extinguish all illuminated advertising (including screens) in the event of a threat to the security of electricity supply (these days are qualified of "Red Ecowatt Days").

According to the RTE (the company that manages the electricity transmission network in France), a "Red Ecowatt Day" is a day when the electricity supply situation is very tense and when power cuts are inevitable if we do not reduce our electricity consumption.

However, these blackouts can be avoided if electricity consumption is voluntarily and substantially reduced. During these days, efforts of eco-consumption are thus asked to both companies and individuals. Some laws also impose obligations for specific sectors of activity. This is the case for advertising screens.

[More information here \(In French only\)](#)

Zebrix now interacts directly with the RTE APIs and is therefore automatically informed in the case of a red Ecowatt day when the regulation requires the switch-off of controllable advertising screens.

If this option is activated by clicking on the box "Automatically switch off this/these screen(s) on a Red Ecowatt day" on a screen, it will automatically remain switched off on a Red Ecowatt day and will resume its normal operation the following day.

4- Adjustable backlight level

Operating Schedule Closing Days Ecowatt **Backlight**

Backlight:

The backlight of the screen panel is the component that consumes the most electrical energy. Reducing the level of backlight is therefore a relevant measure to reduce the consumption of a screen.

Depending on the ambient brightness of the place where the screen is located, the backlight does not necessarily have to be set to its maximum value to keep the image bright enough.

- at 90% the energy saving is approximately 7%.
- at 80% the energy saving is approximately 15%.
- at 70% the energy saving is approximately 23%.
- at 60% the energy saving is approximately 32%.
- at 50% the energy saving is approximately 40%.

Please note than only SAMSUNG screens will take this setting into account.

The backlight of the screen is the component that consumes the most energy (between 80% and 95% of its consumption). Reducing the level of backlighting is therefore an effective measure to reduce the power consumption of a display.

The local user is now able to change this value from the zebrix CMS.

Depending on the ambient brightness of the display location, the backlight does not necessarily have to be set to its maximum value to provide a sufficiently bright image.

- 90%, the energy saving is about 7%.
- 80%, the energy saving is about 15%.
- 70%, the energy saving is about 23%.
- 60%, the energy saving is about 32%.
- 50%, the energy saving is about 40%.

Finally, to save the changes, press **“Save these settings “**.

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