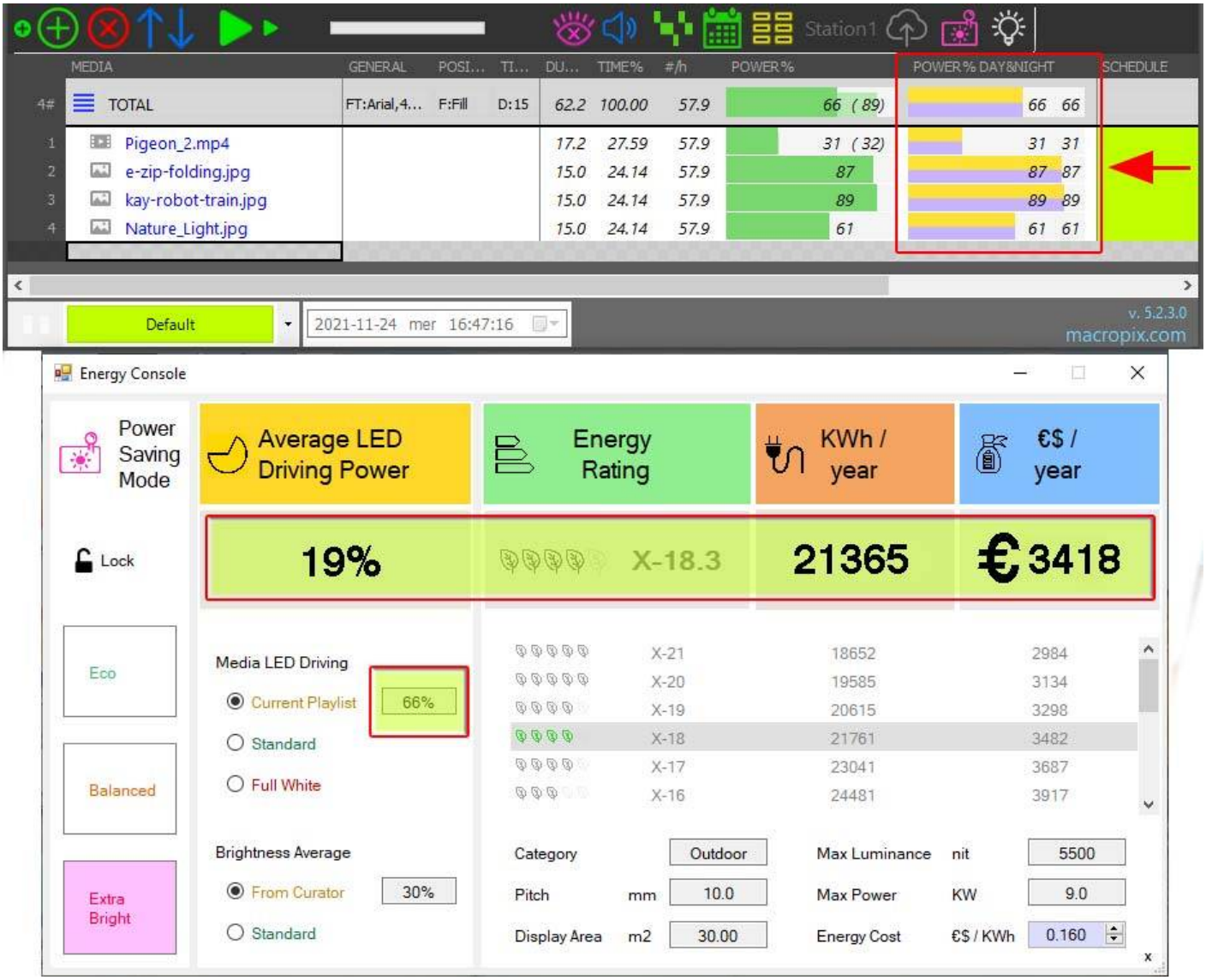
Power Saving

Ekoled



Macropix has developed and patented a proprietary system within its Omnibus digital signage software that allows you to manage and control the energy consumption of an LED display based on the visual content being shown—even down to the individual frames. This feature provides a real-time overview of both economic and environmental savings and can be applied to both outdoor and indoor LED displays.

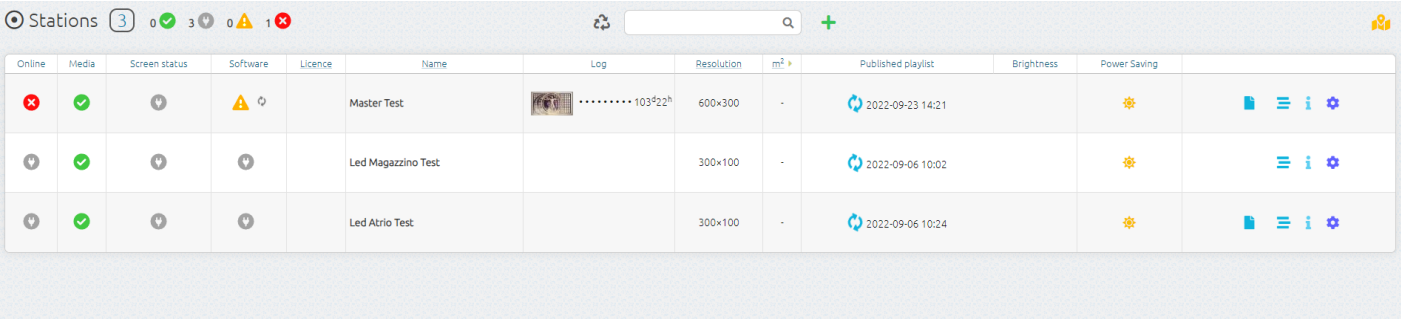
The software monitors and manages in real time:

- the **physical characteristics** of the display (e.g., nominal power consumption)
- the **brightness settings** throughout the day, ensuring compliance with local regulations, especially during nighttime
- **power-consumption thresholds**, which can be set according to the required maximum load for technical or commercial reasons

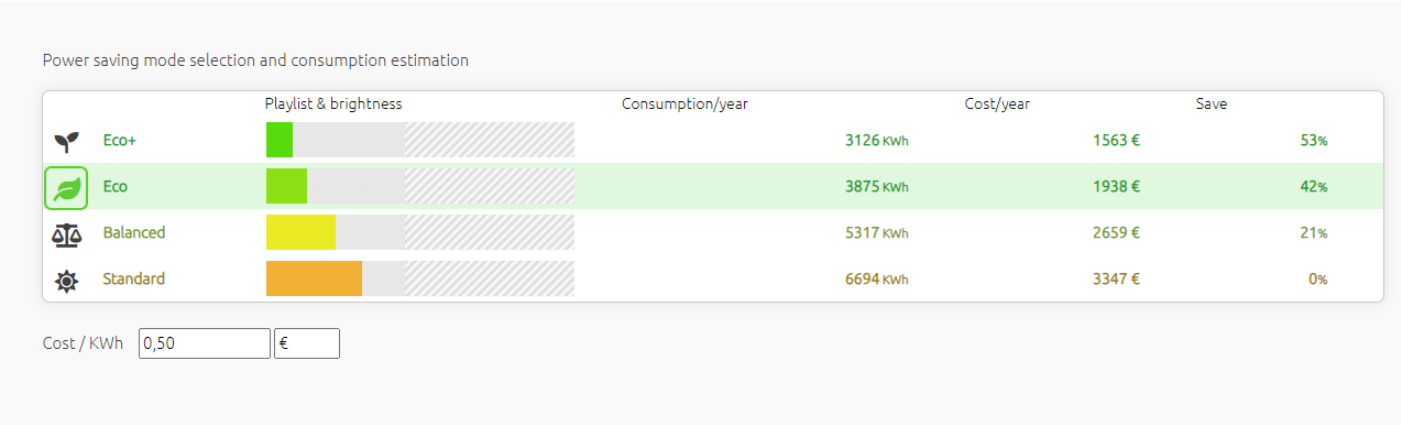
- **daylight brightness management**, ensuring regulatory compliance while maintaining optimal visibility
- **switch-on and switch-off** control of receiving cards

Omnibus analyzes each frame of every video or image in the playlist, calculating an average total power consumption. Each piece of content can also be previewed, allowing creative teams to immediately verify energy-saving performance before publication.

Energy Saving function



In the **Power Saving** column, you can view the currently selected energy-saving mode.



It is possible to select the desired saving mode and set the electricity cost per kWh.

Omnibus will then calculate the operating hours of the LED wall, the brightness table, and the contents loaded in the playlists, allowing you to obtain an estimate of the annual power consumption.