RETROFIT SOLUTION

RETROFITTING YOUR LIGHTING FIXTURES :
GIVE YOUR LIGHTING FIXTURES A NEW LEASE ON LIFE

PERFORMANCE

INTELLIGENCE

INNOVATION

TRATO

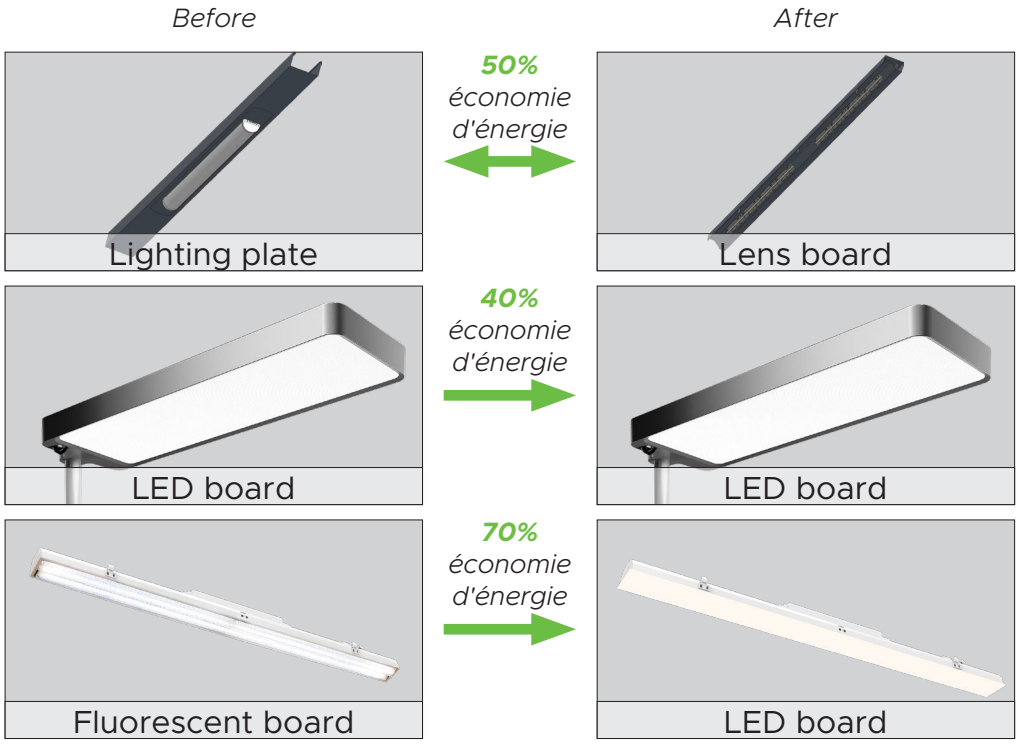
Lighting

OUR RETROFIT SOLUTION

- LED retrofitting is an innovative and sustainable solution that optimizes lighting performance, reduces energy consumption and maintenance costs, without replacing the entire infrastructure.
- Retrofitting existing lighting fixtures with LEDs is often possible.
- It is an innovative and sustainable solution for improving the performance of lighting fixtures without replacing the entire infrastructure.
- LED retrofitting is an alternative to completely replacing a light fixture.
- LED retrofitting involves replacing lighting components with more efficient LEDs, enabling energy savings while retaining the luminaire casing to limit the use of raw materials.
- Possibility of fitting light fittings other than those manufactured by TRATO.
- Our expertise in retrofitting enables us to guarantee TRATO quality on every converted luminaire.

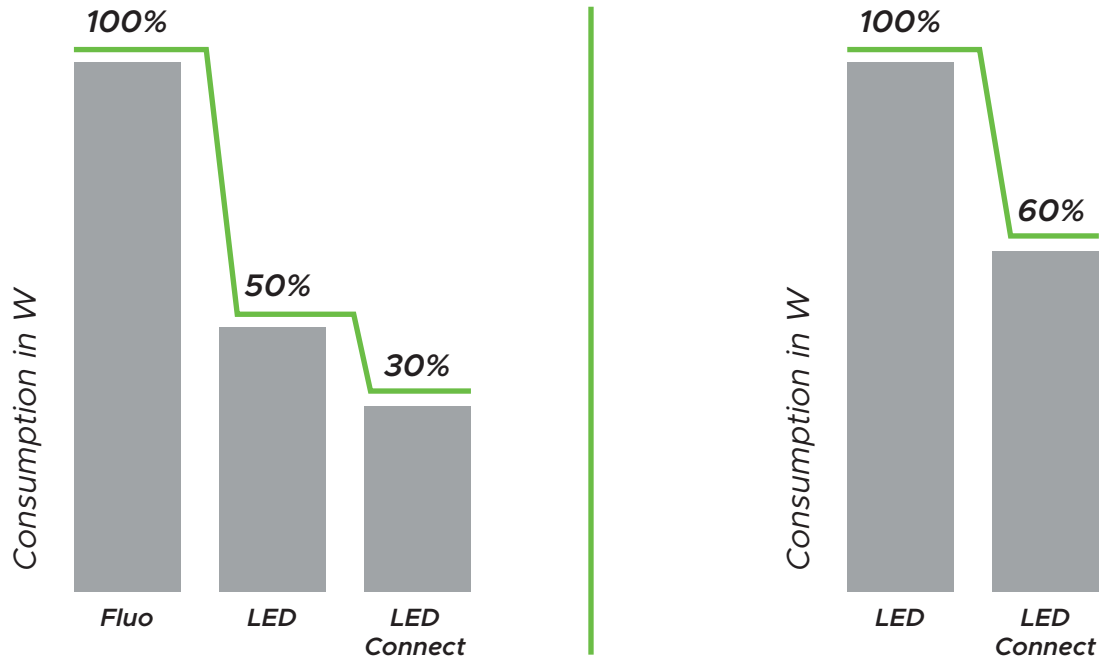
ENERGY SAVING

With our integrated design office, TRATO designs retrofit solutions and offers the possibility of converting fluorescent luminaires to LED and LED luminaires to LED.



COMPARISON OF CONSUMPTION

Example of an installation initially equipped with 2x49W fluorescent fixtures replaced by LED and Connect lighting over 6 months between 7am and 8pm.

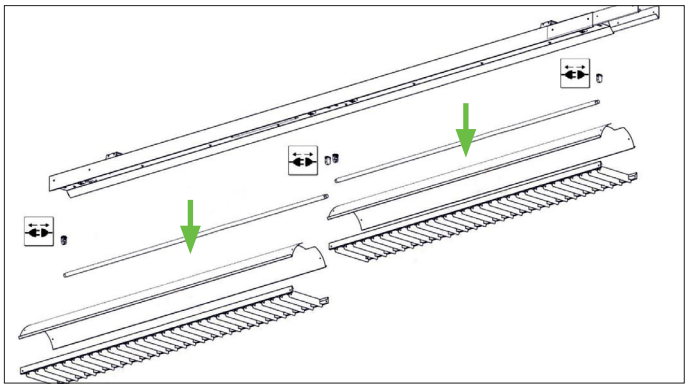


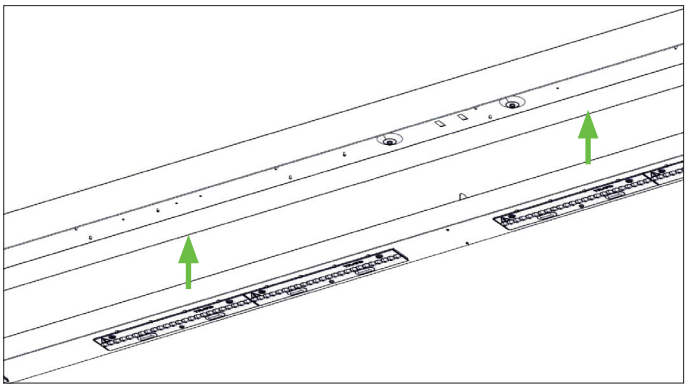
The installation of LED fixtures reduces installed power by more than 50% compared to the old 2x49W fluorescent solution.

Through to Connect technology, it is possible to adjust the power of the fixtures according to actual lighting needs and achieve energy savings of more than 70%.

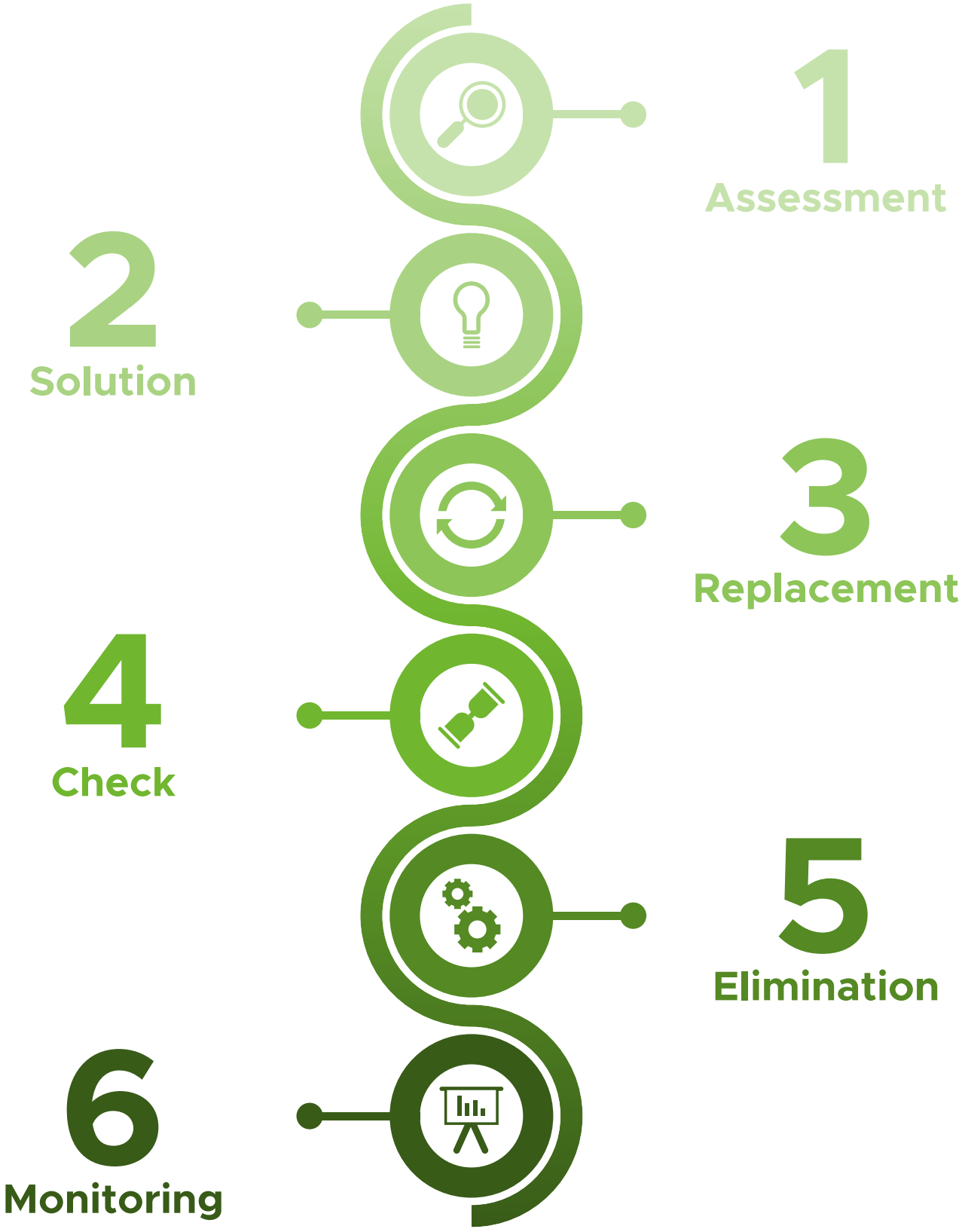
INSTALLATION

Example of dismantling a fluorescent board replaced by an LED board.





THE TYPICAL STEPS IN THE TRATO RETROFIT PROCESS



1. TRATO CARRIES OUT AN INITIAL ASSESSMENT

Before starting the retrofit operation, an assessment of the existing lighting fixtures is necessary :

- **Type of light fixtures :** We identify the type and model of light fixtures to be replaced (incandescent bulbs, halogen bulbs, fluorescent bulbs, etc...).
- **Operating conditions :** We assess the condition of the light fittings and the environmental conditions.
- **Lighting requirements :** We analyse the requirements in terms of brightness, colour temperature and light distribution with the customer.

2. TRATO OFFERS A LED CONVERSION SOLUTION

Based on the initial assessment, we will select the appropriate LED components :

- **Compatibility :** We ensure that the new LED components are compatible with the existing luminaires. If this is not the case, we will decide to replace the luminaires entirely.
- **Energy efficiency :** We offer a solution that guarantees the expected energy savings.
- **Light quality :** We select an LED module with the colour temperature and colour rendering index (CRI) suited to the customer's requirements.
- **Lens :** We assess the compatibility of the optics with the LED module. If there is an incompatibility, we will decide to replace the lenses.
- **Sustainability :** We take into account the lifespan and warranty of LED products thanks to thermal testing carried out in our laboratories.

3. TRATO PREPARES AN INSTRUCTION MANUAL AND REPLACES COMPONENTS.

Before proceeding with the replacement work, we first produce a prototype to assess compatibility with our customer. We will evaluate the assembly time required for the new retrofit board.

- **Security :** In most cases, the power supply will need to be switched off for safety reasons. The replacement process depends on the type of light fittings.
- **Modification of lighting fixtures :** For integrated light fixtures, we offer to replace internal components: converters, LED modules, lenses, etc...
- **Retrofitting :** Installation of the LED board with its converter.

4. VERIFICATION AND TESTING BY TRATO AND/OR ITS ELECTRICAL PARTNER

After installing the retrofit LED board :

- **Inspection :** Verify that all components are correctly installed.
- **Functionality test :** Restoration of power supply and testing of lighting fixtures to ensure proper functioning.

5. DISPOSAL OF OLD COMPONENTS

- **Treatment of old components :** In accordance with WEEE PRO, the installer is required to dispose of replaced components correctly.

6. DOCUMENTATION AND MONITORING

TRATO will document the retrofit operation :

- **Intervention report :** Preparation of a report detailing the modifications made, projected energy savings, and warranties for the new equipment.
- **Performance monitoring :** Schedule regular checks to verify the performance of the new LED lights and ensure that they meet lighting expectations.

The LED retrofit solutions provided by TRATO offer many advantages.

- They enable significant energy savings to be achieved at lower costs.
- Maintenance costs will also be significantly reduced.
- In some cases, it will be possible to add connectivity solutions to further optimise energy savings.
- This means our customers do not have to purchase new lighting fixtures, and we help conserve raw materials by retaining the existing lighting fixture casing.

TRATO
Lighting

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