ANNEX 06A

Energy reduction policy

TFL has low electricity consumption due to limitation implemented through a policy of waste reduction and energy conservation based on turning on air conditioners at higher temperatures and heaters at lower temperatures, using open windows instead of air conditioning to lower the room temperature as long as possible, installing highly efficient equipment and fixtures to reduce heat loss, turning off computer monitors when workers are not at their desks, and turning off lights during the day when there is sufficient natural light.

TFL Tours converted the office to led panels, so the entire lighting system runs on energy efficient led lights to provide an overall energy efficient system. Because of the long life of LED lights, lamps are changed less frequently. And their energy efficiency also translates to cost savings. In fact, LEDs use 90% less energy* than traditional incandescent lamps. They sometimes last as long as 22 years, equivalent to 25 incandescent lamps. So not only does TFL have fewer lamps to replace, it also greatly reduces energy waste.

*** An 8.5-watt LED lamp uses up to 86% less energy than a traditional lamp.**

As for the interior air conditioning/heating system, TFL Headquarters Office is equipped with a last generation Mitsubishi Electric's system.

Mitsubishi Electric models make the environment where they are installed healthier and provide clean air, quiet operation and an energy-saving performance, backed by highly efficient and durable technology. *Inverter* technology also provides a comfortable environment in a sustainable way and respects the environment (using ecological refrigerant gas R32).

R32 is a refrigerant gas belonging to the category of fluorinated hydrocarbons already used in air conditioning. In fact, together with R125, it is the most common refrigerant used in air conditioning applications today, namely R410A. The Global Warming Potential (GWP) is the index that represents the impact that a substance can have on the global greenhouse effect, indicative of the corresponding tons of CO2 equivalent. It is a relative index, comparing the impact of 1kg of refrigerant with 1kg of CO2 in 100 years. R32 has a lower GWP than R410A currently used in air conditioning systems.

This system also provides Controlled Mechanical Ventilation. The correct ventilation inside the rooms allows to reduce the costs for air conditioning/heating by 22% and 14% on electricity consumption.

In the ranking of the Intelligent Energy for Europe program, Mitsubishi models were considered the top in the air conditioner/heating industry. This is in fact a brand that has been able to offer consumers solutions that combine high technological profiles with respect for the environment. The parameters evaluated by the program are:

- indoor or outdoor appliance,
- energy class,
- external and internal noise level (expressed in decibels),
- cooling efficiency index (SEER),
- heating efficiency index (SCOP),

- cooling and heating capacity,
- energy consumption,
- electrical costs for cooling in ten years.

Finally, TFL has purchased environmentally sustainable fixtures that have a virtuous production cycle. These are high quality, high performance windows manufactured, produced, sold and assembled by Euro Infissi. This company pays particular attention to the environment by using 100% recyclable PVC. Thanks to this material, and to the decision to avoid impregnating agents, enamels and paints that are harmful to the ecosystem, the company has set up a virtuous recycling cycle for its window frames.

Once they have become old, the windows are extracted, dismantled and then recycled. The material is then reinserted into the production cycle, creating a new profile, which is also recyclable.

In terms of innovation, the windows that have been installed in TFL's offices have two types of technology:

1. **V-perfect technology**

   Euro Infissi uses the technology V-Perfect®, the only one on the market that overcomes the imperfections of the welding process, ensuring a seam of the profiles perfectly aligned, eliminating the weld seam from the corner and allowing a very high quality and degree of the finish.

2. **STV® innovation: high-performance bonding**

   Euro Infissi has integrated the innovative technique STV® that allows to dry glue the glass to the sash, in a simple and safe way. Using a special adhesive tape, which maintains the usual thickness of the glass, the glass is glued to the profile of the sash, transferring to the latter the rigidity of the sheet and making the whole system more stable. This state-of-the-art technique has significant advantages over the usual wet process:

- more stability and safety,
- better thermal insulation (improved Uf values of up to 0.2 W/(m²K) depending on the profile combination),
- reduction of pre- and post-installation adjustments.

In addition, by combining STV® technique with traditional steel reinforcement, it is possible to build elements of extra standard dimensions ensuring maximum stability and safety.

Web pages:
https://climatizzazione.mitsubishielectric.it/it/prodotti/sistemi-vrf_3/unita-interne_63/cassette_87/plfy-p-vfm-e1_76.html
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