



Environmental Mission Statement

WEY Group is committed to promoting a clean environment. We encourage the development and diffusion of environmentally friendly technologies and we take initiatives to proactively protect the environment. These principles are evident throughout the life cycle of our solutions.



Energy Consumption and Sustainability

Debates about the sustainability of systems and their CO₂ footprints are becoming commonplace.

Today's IT systems are designed around the principles of information distribution and decentralised processing and visualisation. In this environment, it is interesting to note that the vast majority of total energy consumed relates directly to the actual workplaces. Individual workstations and their screens account for more than 90% of the total energy consumption of an IT system.

As a rule of thumb, one PC uses ≈ 50W for the processor (including memory, interfaces and drives), 50W for each graphic card port and an additional 50W for each screen. These approximations assume modern energy-efficient settings and an average load.

A PC with two screens, therefore, needs ≈ 250W of electricity, which is subsequently dissipated as heat. This adds up to an energy requirement of 2 megawatt hours (MWH) per year when the PC remains in constant use, or a minimum of 0.5MWH when it is turned off at night and on the weekends.

Green Aspects of WEY Solutions

In general, WEY Solutions reduce energy consumption by reducing the number of PCs and improving the efficiency of cooling processes. Even though the WEY components also produce heat, it is a minimal amount compared to the energy which is saved. Measurable savings of up to 1 metric ton of CO₂ emissions per workplace per year are achievable. The long term impact on the carbon footprint is clearly positive.

Desktop Integration

The installation of multifunctional WEY Keyboards provides shared access to in-

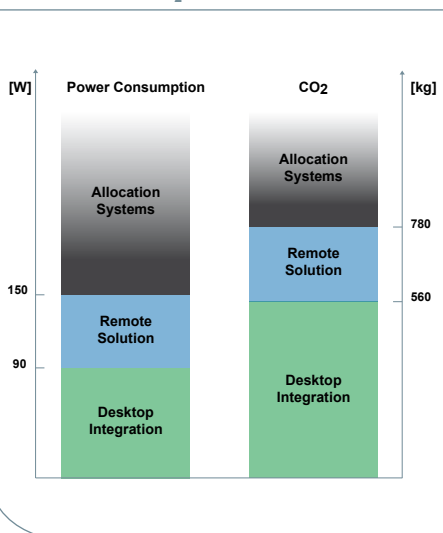
formation sources and also enables PC sharing, resulting in significant reductions in the overall number of PCs required. The example below illustrates the impact on CO₂ emissions of eliminating just two PCs.

For comparison - a small car with a CO₂ emission ratio of 140g/km can travel almost 8000km to produce 1 metric ton of CO₂.

Remote Solutions

The implementation of the WEY Remote Solutions allows centralised placement of the computers in an environmentally managed system room. In addition to enhanced climate control, which prolongs computers' life expectancy and improves

Power and CO₂ Savings per Workplace per Year



The following assumptions have been used to calculate savings per workplace per year.

Desktop Integration:	
Number of Keyboards (Users)	2
Total number of PCs	6
Number of shared PCs	2
Dual Screen PCs (Y/N)	N
Power Savings (W)	180
CO ₂ Savings (kg)	1130
Remote Solutions:	
Number of Desks (Users)	100
Screens per Desk	4
PC s per Desk	2
Power Savings (KW)	3500
CO ₂ Savings (kg)	21500
Allocation Systems:	
Number of Keyboards (Users)	100
Number of shared PCs (Sources)	30
Power Savings (W)	18750
CO ₂ Savings (kg)	115000

THE GREEN WEY FORWARD

comfort at the workplace, remoting PCs results in lower noise levels and maximized office space. Cooling systems can be optimised because computer rooms impose far fewer restrictions on ambient conditions like noise levels, air outlets and air conditioning thermal hubs. Air conditioners operate 25% more efficiently in system room environments.

Allocation Systems

The shared information and PC user access provided by the implementation of WEY Allocation Systems reduces PC requirements, produces CO₂ emission savings (see Desktop Integration) and delivers energy efficiency benefits from cooling system centralisation.

Life Cycle Management

WEY promotes ecology through engineering, re-engineering and process modification. Our hardware products are durable and our manufacturing and customer service processes ensure the longevity of components and systems.

Production

Sustainability analysis includes the measurement of energy consumption as well as the use of non-toxic materials during the production process. WEY's commitment to environmental protection in manufacturing starts with the choice of welding compounds and includes stock management and our approach to product packaging.

WEY has been soldering lead-free since 2004, and our soldering processes fully conform to the RoHS (Restriction of Hazardous Substances) directive.



We use a water-based and halide-free soldering flux which is environmentally friendly and free of any VOCs (volatile organic compounds). This eliminates emissions caused by flux thinner and evaporation as well as the risk of fire due to flux inflammation.

Production machines are turned off on evenings and weekends to reduce the

temperature of our soldering alloys from 265°C to 230°. This saves energy as well as electricity costs.

WEY avoids over-production by using demand forecasting and planning techniques. Careful assessment of stock quantities and "just in time" production runs prevent waste.

Packaging

By tailoring packaging to the product, WEY optimises the protection of hardware components and keeps packaging to a minimum.

Maintenance and Repairs

Customer Service programs are designed to promote the longevity of all our hardware. It is not uncommon to have WEY Keyboards in operation for more than ten years. WEY Multifunctional Keyboards look and function like new after the annual maintenance and cleaning. And when a device or a component is damaged, we have our own in-house repair service.

Waste Management

WEY collects and dismantles equipment when systems are taken out of service. 20-30% of the components can be re-used (i.e. key caps) without compromising the quality and reliability of new systems.

Waste products are recycled or disposed of efficiently. Recycling has become a vital way of conducting business at WEY. Re-using commodities preserves natural resources and protects the availability and pricing levels for raw materials.



Together with local authorities and recycling partners (i.e. Immark in Switzerland and London Recycling in the UK), WEY recycles a broad range of industrial and office materials.

Recycled Material per Year

Copper	1.0t
Printed Circuit Boards	1.5t
Paper	2.5t
Electronics	3.5t
Cardboard	3.6t
Styrofoam	8.0m ³

Conclusion

At WEY, sustainability begins with the green aspects of our IT solutions for trading floors and control centres. It is astounding to realise how much energy can be saved by sharing PCs and maximising the efficiency of temperature control systems. But our corporate green policy also integrates environmentally responsible production processes as well as our long-standing commitment to recycling. WEY continues to audit internal policies and re-engineer processes to maximise sustainability and minimise waste. ●●●



Sustainability

Sustainability is the ability of systems to maintain processes, diversity and productivity into the future.

The term is most frequently used in an ecological context but is also expressed in human organisations concepts such as management, technology and infrastructure. Human sustainability has become associated with the integration of economic, social and environmental spheres.

The Earth's resources must be used at a replenishable rate. But there is clear evidence that humanity is living unsustainably. A collective effort is required to meet present needs without compromising future generations.