

ClusterVision Environmental Policy

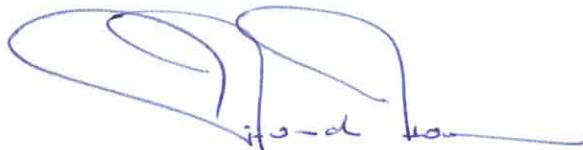
ClusterVision aims to ensure that all activities carried out by its staff are managed in such a manner so as to avoid, reduce, or control, all foreseeable risks to the environment. We foster a positive environmentally aware culture throughout the company. High standards of environmental awareness are a moral and commercial imperative. These standards are in part reflected by the fact that ClusterVision is an ISO9001 and ISO14001 company.

Please see attached our ISO14001 certificate.

High Performance Computing (HPC) in its nature a non-environmental friendly industry; relatively high amounts of electricity are required to run the HPC data-centres. Typically a fair amount of waste is produced by underutilised computers. Hence as part of the ClusterVision Green IT drive, we have optimised the software and hardware we deploy to minimise the waste. ClusterVision invests significant amounts or resources in software development in order to minimise electrical power usage. Furthermore, we:

- *Advice customers to seek different low power solutions like using GPUs.*
- *Advice creating 35C air input data-centres and appropriate hardware.*
- *Advice using Free Air cooling*
- *Where possible use high rated power supplies using with a minimum 95% efficiency*
- *In an HPC solution: Clock-down computer CPUs or possibly cores when not used*
- *Tightly integrate software and hardware and switch-off/on nodes automatically which are not in use by user applications*
- *Provide means and instructions to monitor user applications for inefficient use of the computer resources, either by not scaling or underutilising the FPU/GPU units.*
- *Deliver our products with advanced cluster manager software which reduces down-time of the cluster and maximises production time. This is achieved by continuous cluster Health-Checking and automatic repair/reprogramming of the environment.*

With the implementation of the above, ClusterVision is convinced to have a competitive offerings advantage.



Name: F.J. van der Hout

Chief Financial and Environmental Officer

Address: Gyrocoopweg 56, 1042 AC Amsterdam – the Netherlands

Phone: +31 20 4077 550

ClusterVision is conscious of their responsibility to protect the environment and accepts the obligation to manage the environmental impact of our activities whilst pursuing our business aims. We are committed to continual improvement and promotion of sound environmental practices. These good practices, have achieved the ISO 14001 standard.

Management, Engineers and Supervisors are responsible for the implementation of this policy, ensuring environmental risk assessment and protection is given priority at all stages of our operations. Additionally, they oversee the adoption of environmentally sound waste management practices, including source reduction, re-use, re-cycling and safe disposal.

Our policy and procedures are subject to audit and periodic management review. It is the responsibility of every employee to make a contribution to the meeting of our objective; and we encourage the Suppliers, who provide us with goods, to follow the principles of environmental management. We will assist our Customers to use products and services in an environmentally sensitive way.

All contractors and partners working on behalf of the Company are required to adopt environmental standards fully consistent with those of the Company and they are expected to achieve comparable levels of performance as a condition of their contract.

We are committed to the development of an Environmental Management System, (EMS) in line with ISO 14001 standards requirement, to ensure that our activities, products and services comply with the applicable legal, regulatory and other requirements to which we subscribe. We will ensure that sufficient facilities, information, instruction, training and supervision are provided as is necessary.

The contents of this policy is communicated to all employees and interested parties and is available to the public.

Use of Recyclable Materials

Whenever possible, the Company and Staff will purchase recyclable materials. Where practical, computer printout paper will be reused either for computer printing or as scrap paper for notes, drafts, etc. ClusterVision recycles its waste paper. Note that confidential paperwork should always be shredded before recycling.

Use of Materials and Products

The Company and Staff will always have regard to the environmental impact of the consumption and disposal of materials and where possible, purchase materials which limit the environmental impact.

Reduce Energy Consumption

ClusterVision endeavours to reduce energy consumption on heating and lighting and use of vehicles and equipment whenever possible.

HPC equipment requires prolonged onsite and offsite testing; our burn-facilities are optimised to minimise power usage. By using software like Bright Cluster Manager, we minimize the time onsite required to implement the HPC solution. Time-to-production is minimised which leads to maximum production usage of the equipment.

Software and hardware in our products have a requirement to be tightly integrated in order to minimise power usage. ClusterVision is convinced that by our investments in Green IT, we have a competitive advantage.

Compliance Statement WEEE Regulations and RoHS Directives

The Waste Electrical and Electronic Equipment (WEEE) Directive was agreed on 13th February 2003, along with the Directive on Restrictions of the use of certain Hazardous Substances in electrical and electronic equipment

(RoHS). The Waste Electrical and Electronic Equipment Directive (WEEE) aims to minimize the impacts of electrical and electronic equipment on the environment during their lifetimes and when they become waste. It applies to a huge spectrum of products. It encourages and sets criteria for the collection, treatment, recycling and recovery of waste electrical and electronic equipment. It makes producers responsible for financing most of these activities (producer responsibility).

ClusterVision Ltd supports the ethical use of resources and the minimising of the environmental impact of its operations. To this end, we are endeavouring to phase in compliance with the EC WEEE and RoHS initiatives as appropriate.

In the event of an environmental accident or incident at work, it is a Company requirement that the details are promptly and properly reported to the Directors who will investigate and take prompt action to make good any damage and avoid recurrence.

Objectives

In accordance with its stated policy, ClusterVision has produced the following list of objectives as a sound framework for the introduction of practices to implement the ClusterVision's Environmental Policy:

- Strongly encourage the development of products, processes and equipment with concern for the future of the environment; focus on tight integration between hardware and software products to minimise electrical power usage.
- Monitor electrical usage levels; minimize use of electrical power by smart machine testing.
- Compliance with The Site Waste Management Plans Regulations 2008 (where appropriate) and Local Government Regulations.
- The provision of advice on the safe handling of company products, their transportation and their final disposal to customers, contractors, etc.
- The disposal of any waste products in ways that show concern for the environment using only registered carriers to dispose of waste, and to recycle wherever possible.
- To communicate freely on environmental matters with government officials, employees, customers and members of the public
- To provide training for all employees, as appropriate, to enable them to carry out their job functions in a manner that shows care for the environment.
- To carry out environmental audits when required.
- To promote environmental principles by sharing experience with regulatory bodies, other companies, employees and members of the public.
- In implementing this Environmental Policy Statement, ClusterVision will focus on action to conserve resources and energy, to minimise emissions into air or water and onto land and to increase recycling rates.
- ClusterVision also seeks to influence & improve customer understanding of environmental matters concerning the products.

This policy document will be reviewed annually or when there is a change in circumstances, in work practices or the introduction of new legislation.

Name: F.J. van der Hout

Position: Director

Date: 15/08/2017

Signature:



