

WEEE & RoHS

European Green Directives

Impact & Solutions
for distributors & manufacturers
of electrical equipment.

Presentation summary

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Content.

- Introduction on EATCA.
- What means European Union and how does it work?
- EU green introduction.
- EU Waste Electrical and Electronic Equipment directive (WEEE)
- EU Restriction of the use of certain Hazardous Substances directive (RoHS)
- Consequences, Cost impacts, Penalties, Risks, Summaries.
- EU's RoHS versus China's RoHS.
- EU Next steps for EuP's
 - Ecodesign and Eco label
- Questions & Answers.

EU green directives

Way of working and consequences.

- While the EU commission lays out directives to the different states, it leaves the methods of enforcement and compliance to the discretion of the Member States.
 - The states are responsible to translate the directives in their national laws and for execution and follow up by a targeted date.
 - The in 2004 latest joined states (10) have more time to implement and become compliant.
 - The enforcement authorities of each EU will share expertise and intelligence.
- It might be a false assumption to think that the EU is the only region implementing those environmental rules....
 - Countries such as China, Taiwan, and Japan, along with 27 US states are currently developing legislation that will follow the example of the EU.
 - California, which will adopt the EU's RoHS Directive in January 2007, only six months after the EU's effective date.
 - 1st RoHS implementation by China effective 1Mar2007.

EU green **WEEE** regulations.

Waste of **E**lectrical and **E**lectronic
Equipment directive.



WEEE - summary

- Applies to 10 categories of electrical equipment from 13Aug2005
- Equipment producers responsible for end of life costs – collection, treatment and recycling.
- Planning is needed to minimise costs and stay competitive.
- Information requirements for users, recyclers and authorities.
- Users may want to return products.
- Professional support might be needed.

EU green **RoHS** regulations.

Restriction of **Hazardous Substances**.

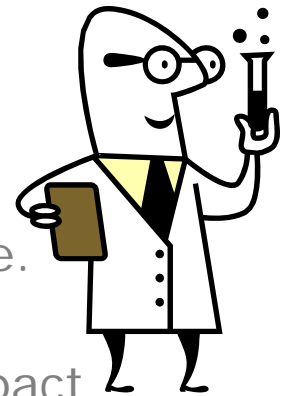


RoHS is most important
for Manufacturers
and a subpart of **WEEE**.

Demonstration of RoHS compliance



- Options
 - Reliance on information from component manufacturers
 - Self declaration.
 - Carry out spot checks and where is doubt.
 - Analyse everything. (Lowest preference and too expensive)
- Problems which can occur:
 - Is supplier information accurate? > Audit him...
 - Grey market for components.
 - Counterfeit components.
 - How many spot checks are needed and how?
 - To analyse everything would be prohibitively expensive.
- Protection of the environment
 - Products sold in millions would have a much larger impact than specialist equipment sold in 10's or 100's.



RoHS summary & conclusions.

- Effective **1 July 2006** onwards,
 - **8 product categories** are effected
 - **where 6 Hazardous substances are banned** from.
- RoHS Directive may affect prices and reliability.
- Information requirement is needed for component users.
- Advice/assistance is needed with lead-free and lead-free soldering process.
- You will have to **manage component changeover** to lead-free.
 - Component management has to be improved.
 - Suppliers need to be audited/assessed.
 - Warehouse management must be improved to limit obsolescence.
 - Need supporting IT systems.
- Documentation & information has to be managed.
 - Penalties might have severe consequences.
- Will require from you a more process oriented organisation.
- Professional advice and help might be needed to reduce your risks and time and costs.

your success, our passion

Consequences of non-compliance.

- Lost competitiveness.
- Recall of all goods sold.
- Fines.
- Blocked for import.
- Impounding.
- Lost Customers...



EU's next green regulations.

EuP's
Energy using Products.

Eco-Design & Eco Label



End summary & advices...

- Aim for the highest Eco-design label as a starting point to design a new product.
 - It keeps you ahead of competition...
 - It saves you a lot of rework afterwards...
 - It will pay off in the end...
- EU regulations are followed by many other countries.
- Keep you informed.
 - Talk to your suppliers, customers and different organisations.
- Look for help to assist you to limit the risks, time and costs. >EATCA can help you

we don't cost...

...as we save you costs!

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Thanks !

