

Position Paper Regarding PFC Emission Reduction Goal

World LCD Industry Cooperation Committee

January 20th, 2003, Taiwan

Emission reduction for PFCs proposed by the World LCD Industry Cooperation Committee (WLICC) Working Group 1 (WG1) has been approved by members of the WLICC (the LCD Industries Research Committee in Japan, or LIREC/JEITA, the Environment Association of LCD in Korea, or EALCD/EDIRAK, and the Taiwan TFT-LCD Association, or TTLA) at the second WLICC main committee meeting held in Taiwan on January 20th, 2002. The WLICC is committed to proactively seeking to reduce the emissions of PFCs from their TFT-LCD (Thin-Film-Transistor Liquid Crystal Display) manufacturing processes.

1. Consensus on the PFC emission reduction goal

LIREC, EALCD and TTLA have reached a consensus to reduce the aggregate absolute emissions of PFCs from the TFT-LCD fabrication facilities to less than 0.82 MMTCE (million metric tons of carbon equivalent) by the year of 2010. The target emissions correspond to approximately 0.013% of global climate change gas emissions of the world for 1998. Unless countermeasures are taken, the aggregate emissions in 2010 might reach more than ten times of the target emissions and exceed the target emissions of the semiconductor industry. The reduction goal will be applied among LIREC, EALCD and TTLA, and be reviewed based on the latest progress as appropriate and necessary.

2. Background of the emission reduction goal

The TFT-LCD industry made a conscious choice to proactively pursue an international objective reflecting the global nature of the industry and the issue. This global commitment is an outgrowth of our earlier voluntary efforts based on activities on this issue of the World Semiconductor Council (WSC).

The TFT-LCD industry business started to soar practically at the beginning of the nineties in Japan, in 1998 in Korea and in 2000 in Taiwan, and it will continue to soar from now on. It seemed to be very difficult for such a developing industry to set goal emissions of PFCs for 2010 at this point, but WLICC members have overcome difficulties by making up their minds to take whatever measures they consider best; an abatement tool shall be attached to all new production lines, etc. It is expected that such measures will be taken to newly starting manufacturers in the other associations as well.

The WLICC will continue its efforts to identify sustainable and cost-effective alternatives that will reduce PFC emissions while not hindering the growth of global LCD industries.

3. Publication

The information of PFC emissions will be made available from each participating association according to their existing respective agreements.

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