

SMART Workforce

The UN IPCC GHG guidelines (2019) and the impact on the semiconductor industry; what are the Changes & Implications?



M. Czerniak
Environmental Solutions Business Development
Manager
Edwards, North Somerset, United Kingdom



Abstract

For the last 4 years, a team of 190 lead authors working for the United Nations' Intergovernmental Panel on Climate Change have been refining the 2006 Guidelines document for calculating Greenhouse Gas (GHG) emissions from all anthropogenic (i.e. human activity) sources, which has recently been published on the IPCC website. This presentation discusses the motivation for undertaking this work, compares and contrasts the 2006 and 2019 documents, and assesses the implications for the electronics and semiconductor industries, including additional gases that are now included, two new mechanisms for by-product PFC formation (including their magnitude), and the inclusion of PFC emissions from printed circuit board (PCB) waterproofing (the first time this has been considered).

Biography

Dr./Mr./Ms.: Professor

Name: Mike Czerniak

Job Title: Environmental Solutions Business Development Manager

Dept.: Marketing

Company: Edwards

Education:

1982 PhD Electrical Engineering, University of Manchester

Experience:

2016-now, Lead Author on UN IPCC 2019 GHG Guidelines

2016-now, Visiting Industrial Professor, University of Bristol

2014-now, Co-Chair SEMI E167 & 175 Energy-Saving standards

1995-now, Marketing & Business Developpt., Edwards

1982-1995, Semiconductor Manufacturing Technology: Philips, Cambridge Instruments, VSW, Vacuum Generators

Harrington Claire



C. Harrington
VP - Global HR
SPTS Technologies Ltd, Newport, United Kingdom



Biography

As Vice President of Global HR at SPTS Technologies Claire is responsible for all aspects of SPTS's global HR organisation and also oversees the Health and Safety team at the Newport headquarters. Claire joined SPTS in September 2012 as HR Director and promoted to her current role in February 2018. Prior to joining SPTS, Claire worked for a number of years in the food, steel manufacturing, and semiconductor industries. Claire has a wealth of experience in Human Resources and Training, and holds a degree in Psychology and an MSc in Human Resource Management.