EHS
Decalogue

2014 - 2020

Content

Introduction
by Carlo Bozotti

At STMicroelectronics we believe that a responsible company must strive to reach the highest levels of performance in every aspect of sustainability – from people and community, to products and processes and health and safety. This is what we have been doing for the past twenty-six years.

Our ambition is to continue to develop innovative and Sustainable Technologies(*), ensure employees health, safety and well-being, contribute to preserving the planet, and actively engage with our local communities. At the same time we continue to create a strong link among our sustainability and operational goals to drive ST's leadership in Sense & Power and Automotive products and Embedded Processing Solutions.

Our enriched 5th edition of our EHS Decalogue shows our ten key engagement areas for the coming years and details the operational objectives that we will focus on.

All sites and organizations worldwide are responsible for the implementation of appropriate programs in order to meet our goals.

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Products & Processes

I count on your support today and in the future to continue to make ST a great place to work and on your engagement as an active contributor to help solve the world's sustainability challenges.

Carlo Bozotti

President and CEO

*   Sustainable Technology is our program to design more environmentally friendly technology, providing new possibilities to solve societal challenges and improve end-user quality of life (see more in our Products and Processes chapter)

1.1. Design products continuously decreasing energy consumption and enabling more energy efficient applications that create value for all stakeholders, with a focus on healthcare, safety/security, society and environment

1.2. Strive towards a «product greening strategy» through Ecopack® program deployment and 100% recyclable packing materials free of hazardous substances

1.3. Continuously apply the eco-design process for new products with a company-wide approach

SUSTAINABLE TECHNOLOGY

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People & Community

Health and Safety

2.1. Support local initiatives for sponsoring EHS projects, local EHS events at each of our sites, encourage our people to lead or participate in EHS committees, conferences

2.2. Strengthen our EHS culture through dedicated trainings and communications

2.3. Promote volunteer activities and philanthropic contributions through dedicated programs

2.4. Develop, coordinate and sponsor projects, that employ the use of high technology to promote human progress and sustainable development of less privileged communities around the world

2.5. Support and promote equal opportunities and global diversity through dedicated policies and programs

3.1. Number of work-related injuries and illnesses: remain among the best in class companies and with a medium term target Recordable Cases Rate* at 0.2 or less

3.2. Severity of work-related injuries and illnesses: remain among the best in class companies and with a medium term target Severity Rate* at 2 or less

3.3. Subcontractors: improve the main on-site subcontractors Lost Work Days Cases Rate* until 0.2 and then remain at 0.2 or less

3.4. Expand and promote employees' health and well-being with programs such as "Health Plan", local initiatives and campaigns

3.5. Ensure high ergonomics standards for our working environment

* OSHA (Occupational Safety and Health Administration – USA) model

4 Risk Management

4.1. Adopt an approach based on precautionary principles when assessing the EHS impacts of new operational processes, chemicals and materials

4.2. Strive towards continuous control, reduction or elimination of risks and of substances of concern in our processes and activities for an environmentally friendlier, safer and healthier working place

4.3. Align material management with Hazardous Substances Process Management System Requirements (HSPM standard IECQ 080000) and responsible sources initiatives (GeSI*)

4.4. Within our Loss Prevention Program**, rate all our manufacturing and largest non-manufacturing sites HPR (Highly Protected Risk) or APR (Adequately Protected Risk)

4.5. Continuously improve the management of the Supply Chain requesting our suppliers to meet the Social, Environmental, Health and Safety ST requirements, including ISO 14001 and OHSAS 18001 or equivalent certifications

*   GeSI: Global e-Sustainability Initiative
** Program to ensure our sites have an appropriate level of protection against fire, associated perils (smoke, corrosion, heat and water) and other risks
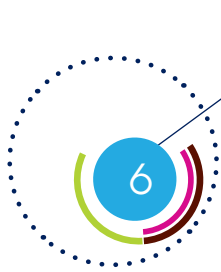
5 Energy Management

5.1. Continuously improve energy efficiency at equivalent production level (kWh per production unit) through process and facilities optimization, conservation and building design

5.2. Adopt, whenever possible, renewable energy sources through energy procurement and/or green energy installations

5.3. Design and assess all new building and manufacturing sites according to «LEED™»* or equivalent standard

5.4. Integrate energy efficiency performance as a key criteria for design and execution of new facility projects

* LEED™: Leadership in Energy and Environmental Design

6 Water Management

6.1. Continuously improve water efficiency at equivalent production level through water saving programs and water recycling projects (cubic meters per production unit)

6.2. Control any risks of pollution before discharging wastewater into the natural environment

6.3. Assess and evaluate the water stress assessment of all our manufacturing sites considering local constraints

7 GHG* & Air Emissions

7.1. Direct emissions (Scope 1**) : reduce PFCs emissions (tons CO_2 per production unit) by 30% in 2020 from 2010 baseline.

7.2. Indirect emissions (Scope 2**) : decrease CO_2 indirect emissions through our energy management programs (see section 5)

7.3. Transportation emissions (Scope 3**): reduce CO_2 emissions (tons CO_2 per production unit) from transportation and logistics for our products, materials and employees

7.4. Continue to compensate our direct emissions through reforestation programs and/or compensation voluntary projects

7.5. Treat air emissions in appropriate abatement systems to control risks of pollution before discharging them into the natural environment

* GHG - Greenhouse Gases
** Scope 1, 2 and 3 are defined in the GHG Protocol

8 Waste management

8.1. Strive to reduce to zero the quantity of hazardous waste in landfill (except where legally required)

8.2. Remain among the best in class companies with a reuse and recycle waste rate at 90% or more

8.3. Remain among the best in class companies with landfilled waste rate at 3% or less

8.4. Strive to minimize our product packing waste generation

9 Measurement & Validation

9.1. Continuously monitor our progress, including periodic audits of all our largest sites worldwide and cooperation with external stakeholders

9.2. Maintain EHS certifications and validations* of all our sites

9.3. Certify and validate* new manufacturing sites within 18 months of their operational start-up

* ISO 14001, ISO 14064 for scope 1 and 2 GHG emissions (as defined in the GHG Protocol), ISO 50001, OHSAS 18001 and EMAS

10 Regulation & Compliance

10.1. Comply at all of our locations (including housing services provided) with all applicable national, regional and local Environment, Health and Safety (EHS) regulations

10.2. Meet at all of our locations, the most stringent of, either their national/local EHS regulations, or the Company EHS policies and procedures

10.3. Ensure compliance to EHS legal requirements for all products delivered worldwide

10.4. Strive towards "green procurement" and purchase Eco-Label™ or other "green label" (when available) materials and products

10.5. Establish long standing partnerships with our customers to comply to their sustainability and EHS requirements

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