

ASN Sustainability Overview

PTC - Honolulu

ASN Sustainability

- Alain Biston said “connecting the world in a responsible and sustainable way”
- Sustainability is no longer a nice to have but a must have for submarine business.
- ASN established its own Green Charter and completed a gap analysis against ISO26000 Standard in order to promote its leadership and commitment on Corporate Social Responsibilities matters.



Through the four pillars of the **Green Charter**, ASN has established environmental targets and actions to meet its environmental objectives.



What is ASN doing for sustainability?

Continuous investment in energy efficiency across products and services lifecycle

Research & Development

- **Spacial Division Multiplexing (SDM):** First to deploy SDM, delivering greater power efficiency per bit: ~70% reduction in power per bit
- **SLTE :** Increase of wavelength line speed: ~up to 40% reductions in power per bit

Fleet & Operations

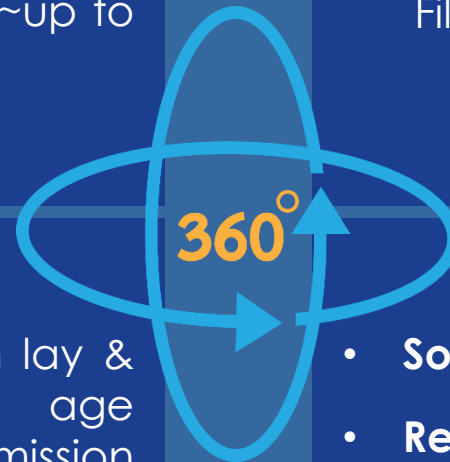
- **Fleet rejuvenation :** Delivery of new main lay & maintenance vessels; -30% fleet age rejuvenation; -11% expected CO2 emission reduction
- **Marine Operations :** continuing investment: efficient deck lightening, water fountains, biodegradable tie raps, garbage processing...

Facilities

- **Use of renewable energy** for ASN Manufacturing sites: Solar panels, heat recovery and reuse, Increase of natural lightning and LED implementation
- **Volatile Organic Compound (VOC):** Installation Filtering System to aim 0 air emission pollution

Projects / Services

- **Solar panels** in the Cable landing stations
- **Remote FAT:** reduction 46T CO2 emission
- **SMART Glasses:** Remote support and training ensuring secure communication
- **Business Travel emission:** Reduce CO2 emission by 895 tons of CO2 in 2020/21



What actions are we taking to become more sustainable?

- Nokia /ASN is committed to actively participate through concrete initiatives and actions to align its strategy with United Nations' **Sustainable Development Goals**
- On Dec 14th, Nokia signed a new three-year partnership agreement with the John Nurminen Foundation to protect the Baltic Sea and support the **regeneration of a healthy biodiverse ecosystem**
- **DAS** : Sensing system to record acoustics and elastic waves in order to build seismic images from the seabed & subsurface
- **Climate Change solution** : SMART Telecom subsea cable with sensors to **monitor main climate change and geophysical events** (earthquake, tsunami etc...)
- **Marine**: Ballast water management, Shore Power project supplies two ships at the same time during loading operations in Calais.





ALCATEL
SUBMARINE
NETWORKS

Think ahead, trust ASN