

**ESPO
ENVIRONMENTAL
REPORT 2019**
EcoPorts in Sights 2019



LIST OF COUNTRIES REPRESENTED IN THE SAMPLE AND NUMBER OF PARTICIPATING PORTS

Country	Number of ports	Percentage
United Kingdom	13	13.8
Spain	12	12.8
France	11	11.7
Germany	11	11.7
Netherlands	8	8.5
Greece	7	7.4
Denmark	7	7.4
Sweden	5	5.3
Finland	5	5.3
Norway	3	3.2

LIST OF COUNTRIES REPRESENTED IN THE SAMPLE AND NUMBER OF PARTICIPATING PORTS

Country	Number of ports	Percentage
Ireland	3	3.2
Italy	2	2.1
Croatia	1	1.1
Portugal	1	1.1
Lithuania	1	1.1
Latvia	1	1.1
Estonia	1	1.1
Romania	1	1.1
Poland	1	1.1

GEOGRAPHICAL CHARACTERISTICS OF THE SAMPLE

34.1%

Embayment, Protected Coast,
Marine Inlet

27%

Estuary

23.8%

Engineered Coastline

15.1%

River



TONNAGE CHARACTERISTICS OF THE SAMPLE

40.9%

<5

22.7%

5 < 15

21.6%

15 < 50

14.8%

> 50



PERCENTAGE OF PORTS IN TEN-T NETWORK

84%

TEN-T Network

47.9%

Core Network

36.1%

Comprehensive
Network



TOP 10 ENVIRONMENTAL PRIORITIES OF EUROPEAN PORTS FOR 2016



TOP 10 ENVIRONMENTAL PRIORITIES OF EUROPEAN PORTS FOR 2017



TOP 10 ENVIRONMENTAL PRIORITIES OF EUROPEAN PORTS FOR 2018



TOP 10 ENVIRONMENTAL PRIORITIES OF EUROPEAN PORTS FOR 2019



PERCENTAGE OF POSITIVE RESPONSES TO THE ENVIRONMENTAL MANAGEMENT INDICATORS

Indicators	2013	2016	2017	2018	2019	CHANGE 2013–2019
A Existence of a Certified Environmental Management System –EMS (ISO, EMAS, PERS)	54	70	70	73	71	+17%
B Existence of an Environmental Policy	90	92	97	96	95	+5%
C Environmental Policy makes reference to ESPO’s guideline documents	38	34	35	36	38	—
D Existence of an inventory of relevant environmental legislation	90	90	93	97	96	+6%
E Existence of an inventory of Significant Environmental Aspects (SEA)	84	89	93	93	89	+5%

PERCENTAGE OF POSITIVE RESPONSES TO THE ENVIRONMENTAL MANAGEMENT INDICATORS

Indicators	2013	2016	2017	2018	2019	CHANGE 2013–2019
F Definition of objectives and targets for environmental improvement	84	89	93	93	90	+6%
G Existence of an environmental training programme for port employees	66	55	68	58	53	-13%
H Existence of an environmental monitoring programme	79	82	89	89	82	+3%
I Environmental responsibilities of key personnel are documented	71	85	86	86	85	+14%
J Publicly available environmental report	62	66	68	68	65	+3%

EVOLUTION OF THE ENVIRONMENTAL MANAGEMENT INDEX OVER THE YEARS



7.25 2013



7.72 2016

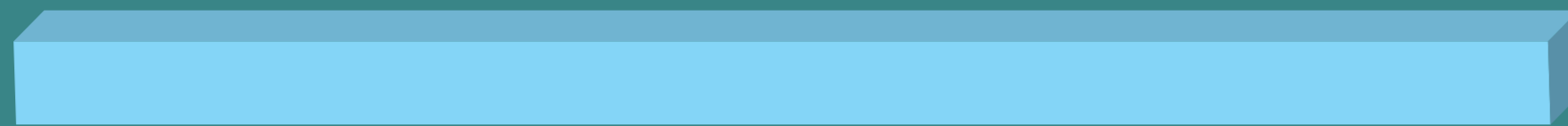


8.08 2017

EVOLUTION OF THE ENVIRONMENTAL MANAGEMENT INDEX OVER THE YEARS



8.08 2018



7.84 2019

EVOLUTION OF THE ENVIRONMENTAL MANAGEMENT INDEX OVER THE YEARS

53.7%

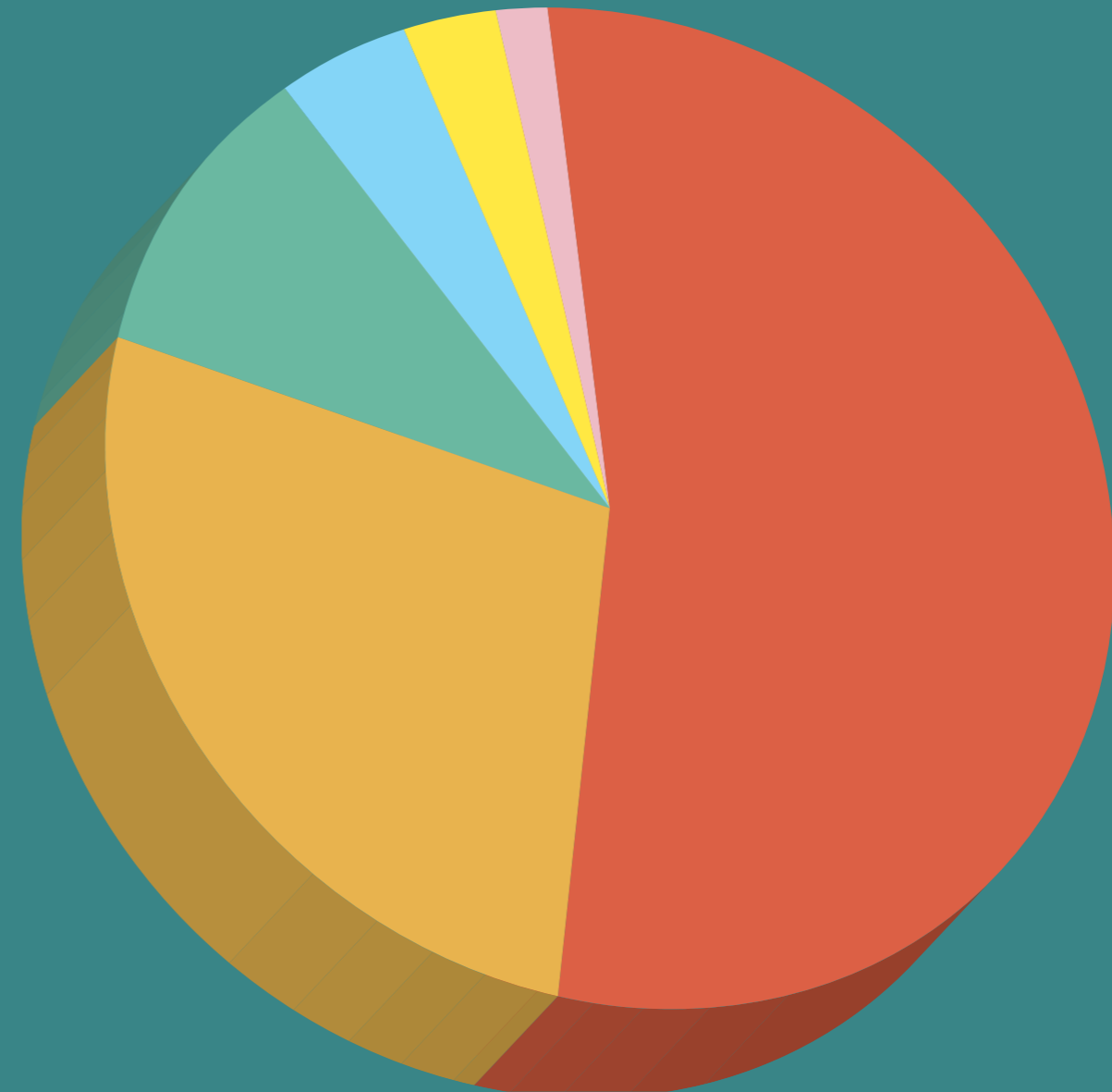
ISO

26.9%

EcoPorts' PERS

10.4%

ISO & EcoPorts' PERS



EVOLUTION OF THE ENVIRONMENTAL MANAGEMENT INDEX OVER THE YEARS

4.5%

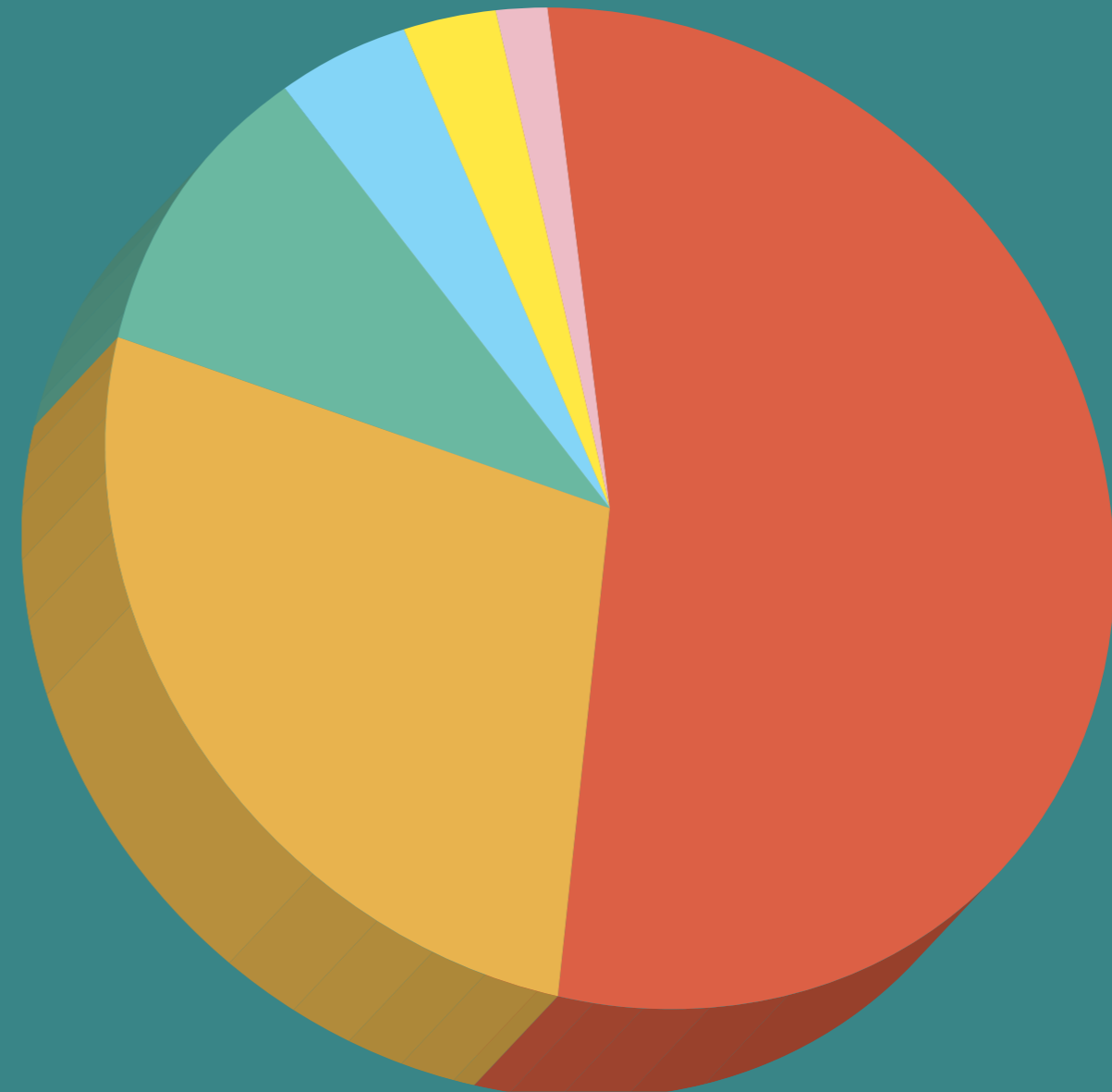
ISO, EcoPorts' PERS & EMAS

3%

ISO & EMAS

1.5%

EMAS



PERCENTAGE OF POSITIVE RESPONSES TO THESE COMMUNICATION INDICATORS

Is the policy communicated to all relevant stakeholders?



88% 2018



87% 2019

PERCENTAGE OF POSITIVE RESPONSES TO THESE COMMUNICATION INDICATORS

Is the policy publicly available on the port's website?



84% 2018



82% 2019

PERCENTAGE OF POSITIVE RESPONSES TO ENVIRONMENTAL MONITORING INDICATORS

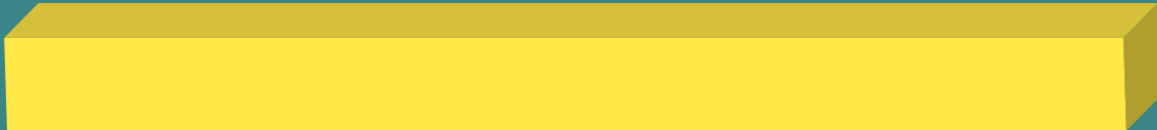
Indicators	2013	2016	2017	2018	2019	CHANGE 2013–2019
Waste	67	79	88	84	79	+12
Energy consumption	65	73	80	80	76	+11
Water quality	56	70	75	76	71	+15
Water consumption	58	62	71	72	68	+10
Air quality	52	65	69	67	62	+10
Noise	52	57	64	68	57	+5
Sediment quality	56	63	65	58	54	-2
Carbon Footprint	48	47	49	47	49	+1

PERCENTAGE OF POSITIVE RESPONSES TO ENVIRONMENTAL MONITORING INDICATORS

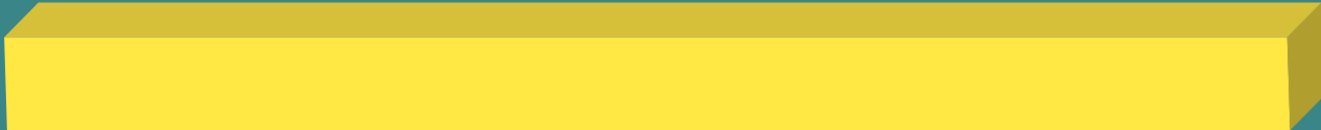
Indicators	2013	2016	2017	2018	2019	CHANGE 2013–2019
Marine ecosystems	35	36	44	40	40	+5
Terrestrial habitats	38	30	37	38	37	-1
Soil quality	42	44	48	38	32	-10

PERCENTAGE OF POSITIVE RESPONSES TO INDICATORS RELATED TO CLIMATE CHANGE

Does your port experience operational challenges that could be related to climate change (e.g. more frequent storms, flooding, changes in wind or wave conditions)?



41% 2018



47% 2019

PERCENTAGE OF POSITIVE RESPONSES TO INDICATORS RELATED TO CLIMATE CHANGE

Does your port take steps to strengthen the resilience of its existing infrastructure in order to adapt to climate change?



59% 2018



62% 2019

PERCENTAGE OF POSITIVE RESPONSES TO INDICATORS RELATED TO CLIMATE CHANGE

Does your port consider climate change adaptation as part of new infrastructure development projects?



78% 2018



75% 2019

IS ON-SHORE POWER SUPPLY (OPS) AVAILABLE AT ONE OR MORE BERTHS?

53%

IN 2019



53%	48%	51%	53%
2016	2017	2018	2019

AMONG OPS-EQUIPPED PORTS

48%
IN 2019



86%
IN 2019



HIGH VOLTAGE

38%	40%	47%	48%
2016	2017	2018	2019

LOW VOLTAGE

90%	84%	82%	86%
2016	2017	2018	2019

AMONG OPS-EQUIPPED PORTS

96%
IN 2019



16%
IN 2019



BY FIXED INSTALLATION

—	—	96%	96%
2016	2017	2018	2019

BY MOBILE INSTALLATION

—	—	13%	16%
2016	2017	2018	2019

DOES THE PORT PLAN TO OFFER OPS DURING THE NEXT 2 YEARS?

29%

IN 2019



—	—	27%	29%
2016	2017	2018	2019

IS LIQUEFIED NATURAL GAS (LNG) BUNKERING AVAILABLE IN THE PORT TODAY?

32%

IN 2019



22%	22%	30%	32%
2016	2017	2018	2019

AMONG PORTS WITH LNG BUNKERING FACILITIES

13%

IN 2019



90%

IN 2019



BY NON-MOBILE INSTALLATION

—	—	7%	13%
2016	2017	2018	2019

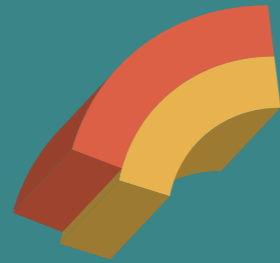
BY TRUCK

—	—	85%	90%
2016	2017	2018	2019

AMONG PORTS WITH LNG BUNKERING FACILITIES

20%

IN 2019



BY BARGE

—	—	19%	20%
2016	2017	2018	2019

ARE THERE CURRENTLY ONGOING LNG BUNKERING INFRASTRUCTURE PROJECTS IN THE PORT?

24%

IN 2019



—	—	24%	24%
2016	2017	2018	2019

DOES THE PORT OFFER DIFFERENTIATE DUES FOR “GREENER” VESSELS?

56%

IN 2019



62%	51%	54%	56%
2016	2017	2018	2019

AMONG PORTS WITH DIFFERENTIATED DUES

45%

IN 2019



50%

IN 2019



WASTE MANAGEMENT/ SEGREGATION

—	—	—	45%
2016	2017	2018	2019

AIR EMISSIONS (NOX, SOX, PM)

—	—	—	50%
2016	2017	2018	2019

AMONG PORTS WITH DIFFERENTIATED DUES

34%

IN 2019

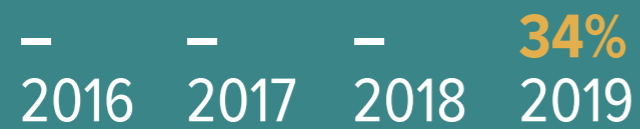


15%

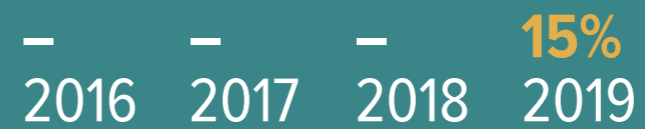
IN 2019



GHG EMISSIONS



NOISE



AMONG PORTS WITH DIFFERENTIATED DUES

42%

IN 2019



ENVIRONMENTAL CERTIFICATION

—	—	—	42%
2016	2017	2018	2019

DOES THE PORT PLAN TO INTRODUCE ENVIRONMENTALLY DIFFERENTIATED PORT DUES DURING THE NEXT 2 YEARS?

28%

IN 2019

