

World Ports Climate Action Program

WPCAP



WORLD PORTS CLIMATE ACTION PROGRAM (WPCAP)



World Ports Climate Action Program (WPCAP) is an **international initiative** announced September 13th 2018 on the Global Climate Action Summit.

The leading ports intent to make a **significant impact on climate action** and deliver on the call for clean air at the same time, through concerted, cooperative efforts through specific actions

In the WPCAP ports join forces on addressing climate actions to **reduce greenhouse gas emissions from maritime transport.**

WPCAP MEMBERS

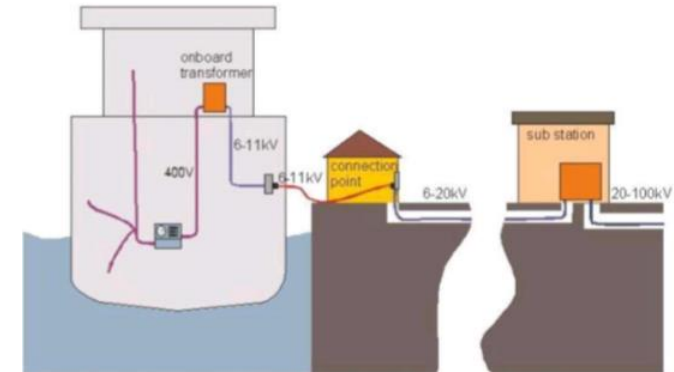


ACCELERATE ONSHORE POWER SUPPLY (OPS) SOLUTIONS- WG3



The WPCAP actions are divided in five Working Groups.

The Working Group 3 (WG3) has as a main objective to accelerate the development of in-port **renewable Onshore Power Supply (OPS) solutions** controlling at-berth emissions for ships.



WG3-SURVEY ON OPS SOLUTIONS PORTS WORLDWIDE



As a first step towards this objective, a state-of-the art analysis of Onshore Power Supply (OPS) solutions currently in operation has been developed through a survey sent to ports that have already implemented them.

The survey is intended to help ports considering to implement OPS solutions and to understand the requirements and obstacles in operating these systems

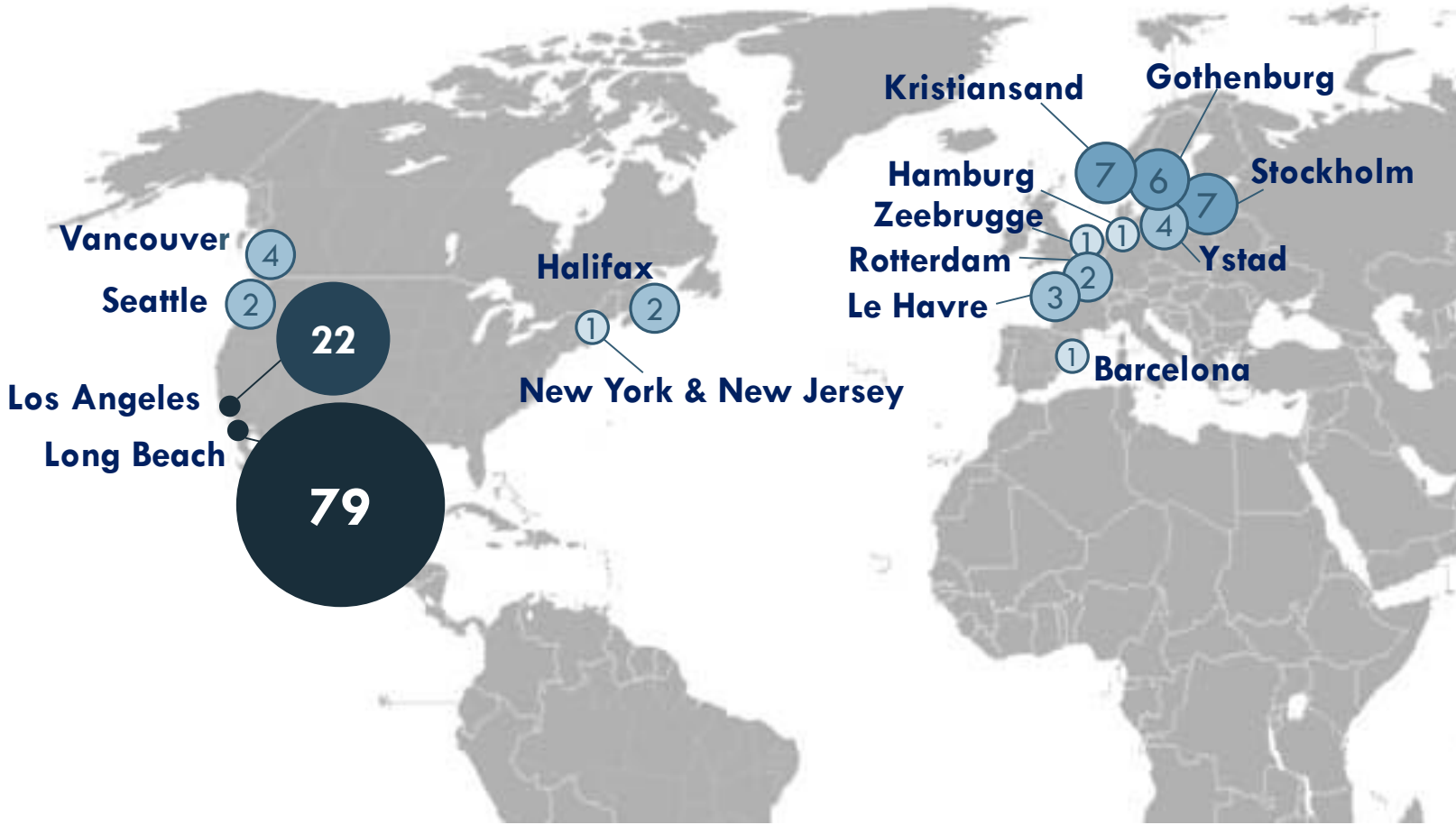
Hereafter, you will find the main results of the ports that answered it.

| TYPE OF TERMINALS WITH OPS - 2020



ROPAX Gothenburg Ystad Rotterdam Stockholm	MULTIPURPOSE Zeebrugge
	FERRY Kristiansand
CONTAINER Long Beach Los Angeles Vancouver	CRUISE Halifax Hamburg Kristiansand Long Beach Los Angeles NY&NJ
LIQUID BULK Long Beach	Vancouver Seattle
YATCH Barcelona	
SMALL COASTERS Rotterdam (pilot)	RIVER BARGES Le Havre
OFFSHORE Kristiansand	

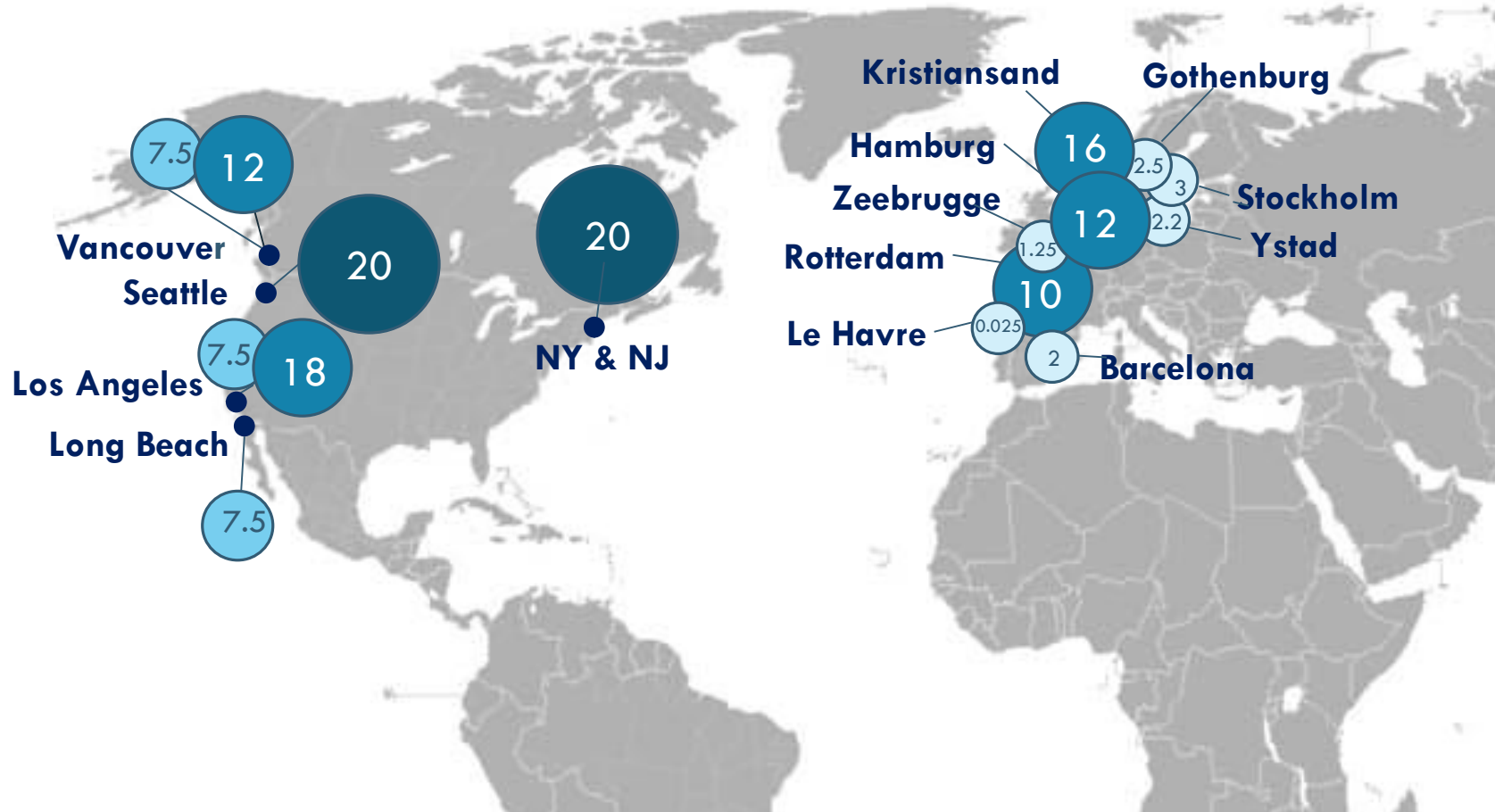
NUMBER OF BERTHS EQUIPPED WITH OPS - 2020



F: Fixed
M: Mobile

	Number	
Long Beach	79	F
Los Angeles	22-20	-
Kristiansand	7	2F+5M
Stockholm	7	F
Gothenburg	6	F
Vancouver	4	F
Ystad	4	F
Le Havre	3	F
Halifax	2	F
Rotterdam	2	F
Seattle	2	F
Barcelona	1	M
Hamburg	1	F
New York & New Jersey	1	F
Zeebrugge	1	F

CONNECTION POINT WITH MAX. POWER CAPACITY (MVA)



New York & New Jersey	20
Seattle	20
Los Angeles (cruise)	18
Kristiansand	16
Hamburg	12
Vancouver (cruise)	12
Rotterdam	10
Long Beach	7.5
Los Angeles (container)	7.5
Vancouver (container)	7.5
Stockholm	3
Gothenburg	2.5
Ystad	2.2
Barcelona	2
Zeebrugge	1.25
Le Havre	0.025

HOLDER OF THE OPS SYSTEM



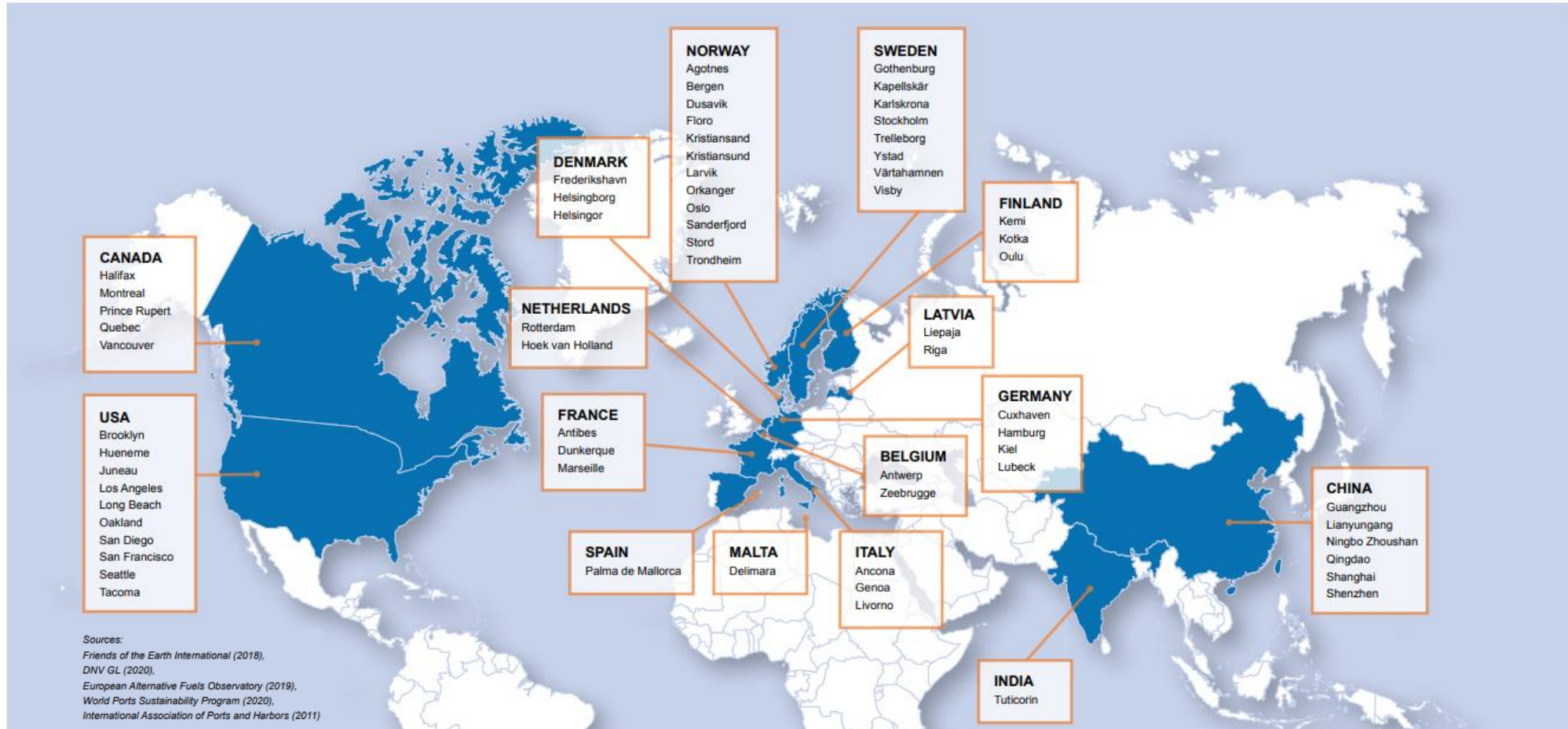
PORT AUTHORITY
Gothenburg (and Terminal Operator)
Hamburg
Kristiansand
Le Havre
Los Angeles (cruise)
New York & New Jersey
Rotterdam (offshore 20%)
Stockholm
Ystad
Vancouver

TERMINAL OPERATOR
Barcelona
Gothenburg (and Port Authority)
Rotterdam (offshore 80%)
Long Beach
Los Angeles
Zeebrugge

SHIPPING COMPANY
Rotterdam (RoPax)

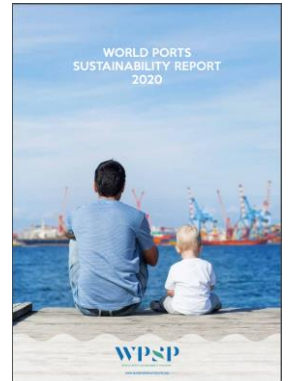
EXTERNAL OPERATOR
Rotterdam (offshore)
Seattle

HIGH VOLTAGE OPS FACILITIES



SOURCE

WORLD PORTS SUSTAINABILITY REPORT 2020



INFORMATION SOURCES

- **Detailed WG3 Survey, answered by 16 ports**
- Supplemented with cross-further referenced information on ports:
 - **IAPH World Ports Sustainability Program (WPSP)**
 - **European Alternative Fuels Observatory (EAFO)**
 - **DNV GL Alternative Fuels Insight portal**
 - **Annex submission by Friends of the Earth to the IMO's 73 Marine Environment Protection Committee (MEPC 73)**

Total: 68 ports