



# Minimising GHG Emissions from the Petroleum Sector

5 x pre-course seminars: 26 May to 23 June 2022

Virtual training: 27 June - 8 July 2022

Supported by the Norwegian Agency for Development Cooperation, Commonwealth Secretariat and the African Natural Resources Centre of the African Development Bank

## Participation Summary and Evaluation Report

# Impact Summary

## 100%

Proportion of respondents\* who indicated that the training had **enhanced their understanding** of how to minimise emissions in the petroleum sector

## 79%

Proportion of respondents\* who said they would **definitely make changes** to how they deal with emissions as a result of the training

### Planned actions following the training include:

- Carrying out a technical and regulatory feasibility study to inform national legal framework to manage emissions
- Widening scope of environmental permits to include rules on flaring, monitoring, reporting and verification, and data sharing
- Engaging with operators to ensure strict compliance to emissions limits during operations and submission of the Plan of Development

### Increase in participant awareness:

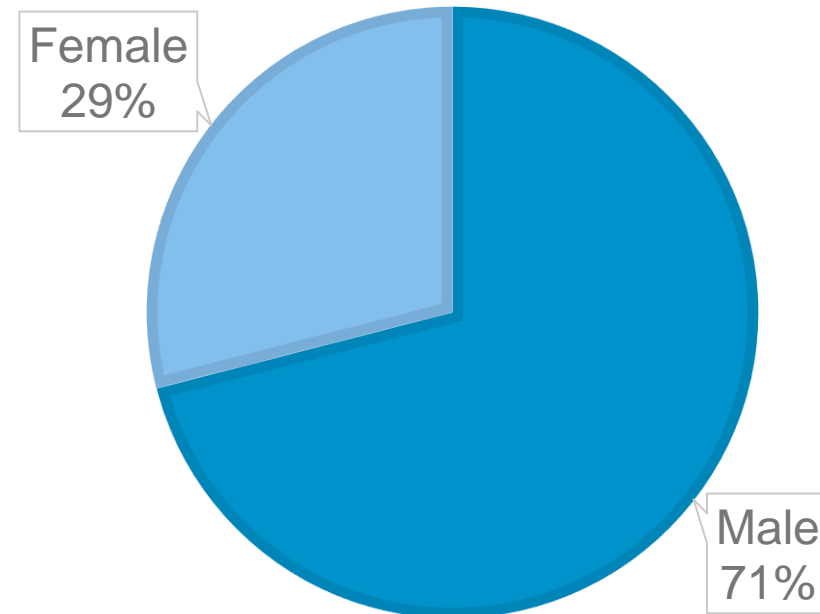
Sources of emissions in the value chain	How to estimate emissions	Strategic rationale to minimise emissions	Key levers to minimise emissions	Obstacles to implementation
<b>+24%</b>	<b>+43%</b>	<b>+33%</b>	<b>+40%</b>	<b>+42%</b>

# Participants

98 trainees across 10 countries

Delegation	#
Brazil	2
Ghana	11
Guyana	1
Kenya	2
Mauritania	9
Mozambique	15
Namibia	17
Senegal	16
Suriname	8
Uganda	17

Gender balance (estimated)



# Posts Represented



- Advisor
- Advisor: Environment and Climate Change
- Assistant Commissioner - Renewable Energy
- Chief Agricultural Scientific Officer
- Chief Geoscientist
- Chief National Development Advisor
- Commercial Analyst
- Coordinator: Oil and Gas
- Corporate Strategy Officer
- Deputy Chief: National Development Advice
- Deputy Director
- Director of Energy
- Director of Upstream Petroleum
- Economist
- Electrical engineer, ESG committee member
- Environment Officer
- Environment Project Manager
- Environment Specialist
- Environmental Advisor
- Environmental and Social Assessment Field Officer
- Environmental policy officer
- Environmental Specialist
- Executive Upstream Development and Production
- Executive: Upstream Exploration
- Exploration Manager
- Field Officer at Environmental and Monitoring Office
- General Manager
- Geologist
- Geophysicist
- Geoscientist
- Head of Division
- Head of Health, Safety, Environment and Quality
- Head of Health, Safety, Security and Environment
- Head of Office
- Head service of norms and risks prevention
- Health, Safety and Environment Officer
- Health, Safety, Environment and Quality Engineer
- Hydrocarbon Economics Expert
- Hydrocarbon Expert
- Management Assistant
- Manager
- Manager: OD, Training and Wellness
- Managing Director
- Modeler
- National Service Personnel
- Natural Resources Manager
- Oil and Gas Consultant
- Petroleum Commissioner
- Petroleum Environmental Analyst
- Petroleum Inspector
- Policy Officer
- President of Mitigation
- Principal Economist
- Principal Petroleum Officer/Standards
- Programme Officer
- Reservoir Engineer
- Senior Energy Officer
- Senior Geologist/Reservoir
- Senior Petroleum Officer
- Senior Petroleum Officer/Licensing
- Senior Planner, Chemical Industry
- Senior Programme Officer
- Technical Adviser
- Technician
- Upstream Economist and Financial Analyst
- Upstream Office Manager

# Agencies Represented



## **Brazil**

Agência Nacional do  
Petróleo, Gás Natural e  
Biocombustíveis

## **Ghana**

Environmental Protection  
Agency  
Ghana National Petroleum  
Corporation  
Ministry of Energy  
Petroleum Commission

## **Guyana**

Ministry of Natural  
Resources

## **Kenya**

Ministry of Petroleum and  
Mining

## **Mauritania**

Ministry of Petroleum,  
Mines and Energy  
Société Mauritanienne  
des Hydrocarbures

## **Mozambique**

Empresa Nacional de  
Hidrocarbonetos  
Instituto Nacional de  
Petróleo

## **Namibia**

Ministry of Agriculture  
Ministry of Mines and  
Energy  
National Petroleum  
Corporation of Namibia  
National Planning  
Commission

## **Senegal**

Agence Nationale des Affaires  
Maritimes  
Air Quality Center of Dakar  
Comite national Changement  
climatique du Sénégal  
Direction de l'Environnement et  
des Etablissements Classés  
Ministère des Pêches et de  
l'Economie Maritime  
ENERTEC-SARL  
HASSMAR  
Ministère de l'Environnement et  
du Développement Durable  
Ministry of Petroleum and  
Energy  
PETROSEN E&P

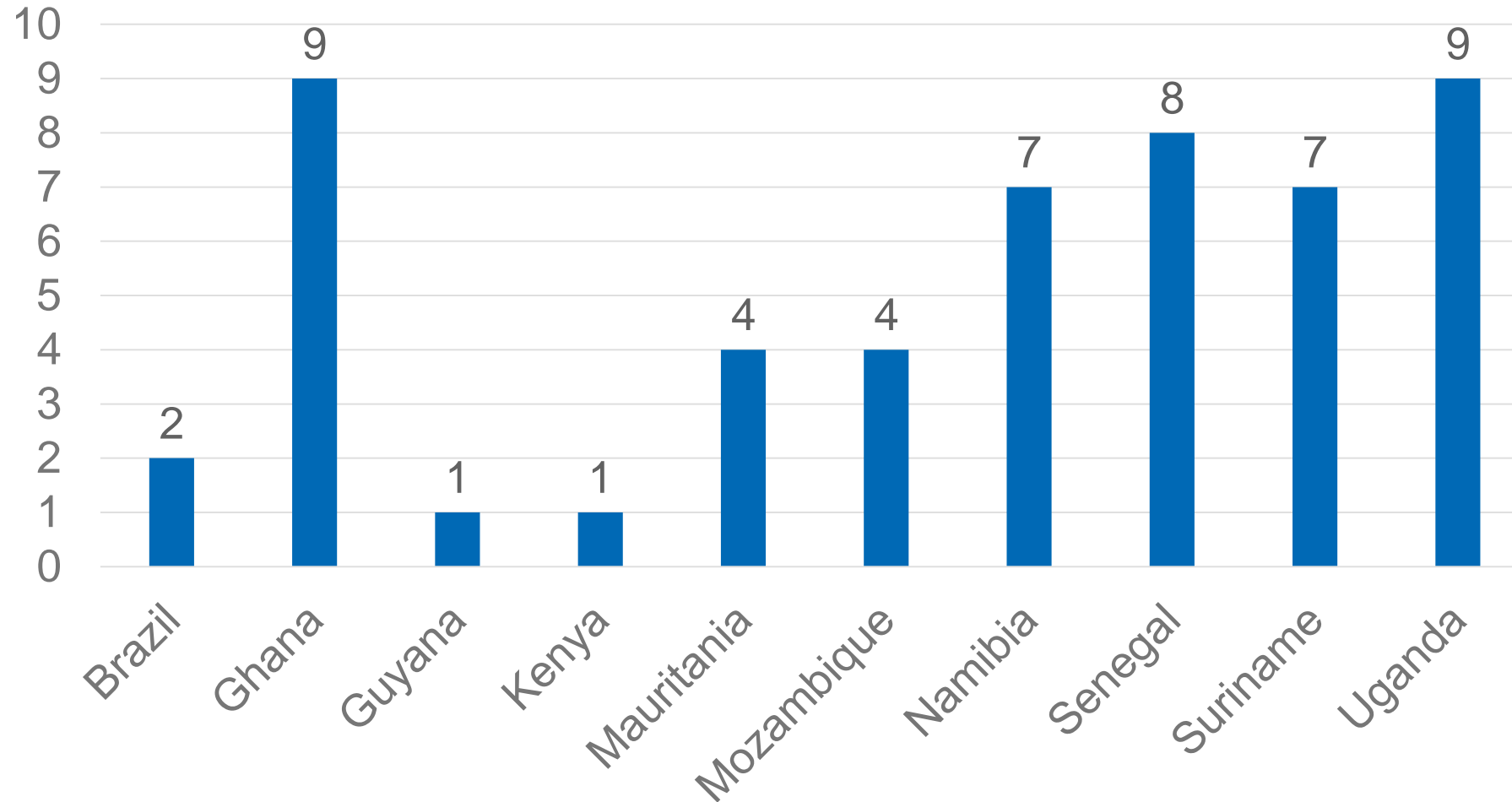
## **Suriname**

Energie Autoriteit Suriname  
Ministry of Natural Resources  
Ministry of Spatial Planning and  
Environment  
National Institute for  
Environment and Development  
in Suriname  
NV Energiebedrijven Suriname  
Energy Authority of Suriname

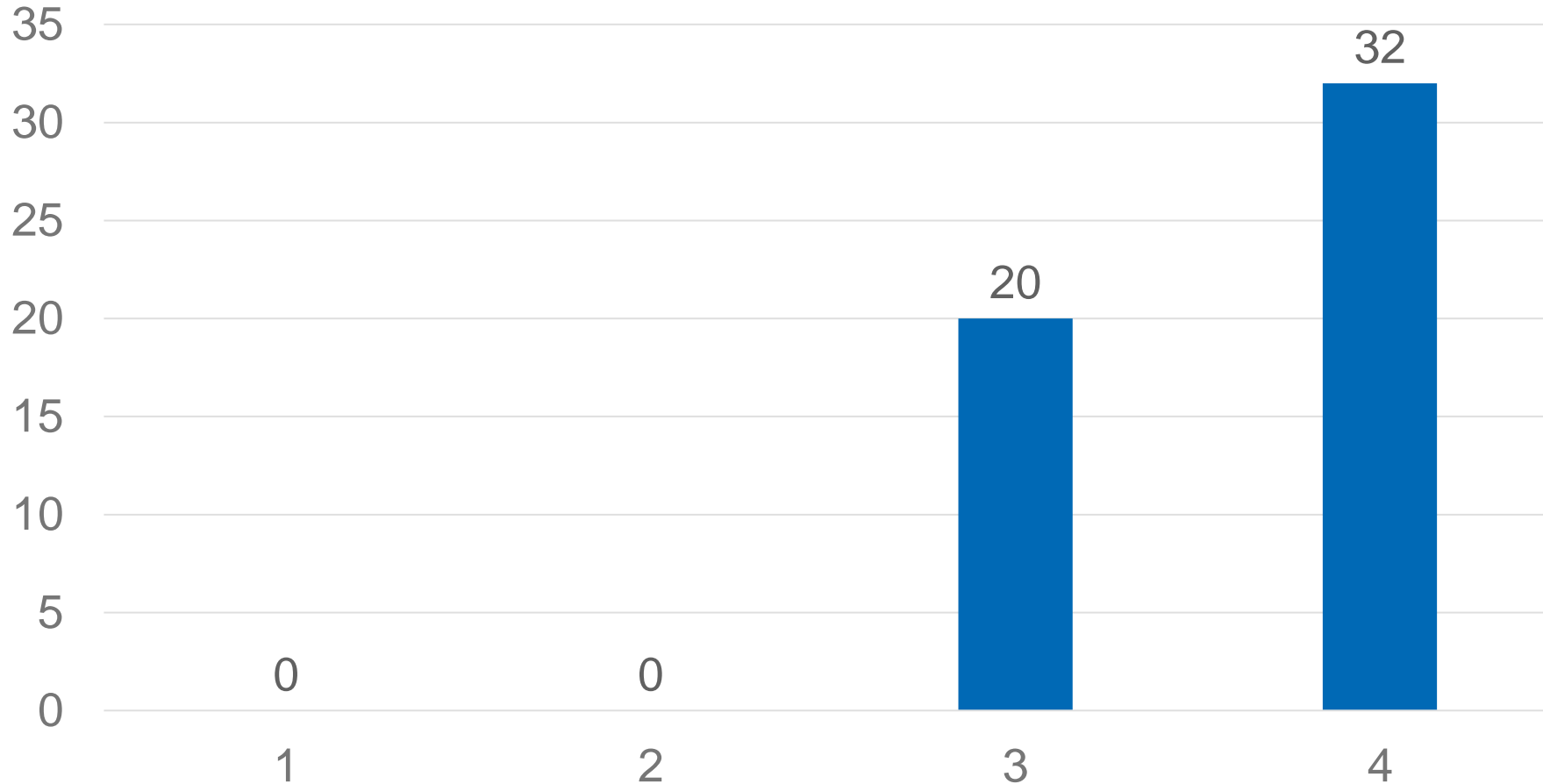
## **Uganda**

Ministry of Energy and Mineral  
Development  
Ministry of Finance, Planning  
and Economic Development  
Ministry of Water and  
Environment  
National Environment  
Management Authority  
National Planning Authority  
Petroleum Authority of Uganda  
Uganda National Oil Company

## Evaluation Respondents by Country Delegation (n=52)



Has the training enhanced your understanding of how to minimise emissions in the petroleum sector? (1 = not at all, 4 = very much so)



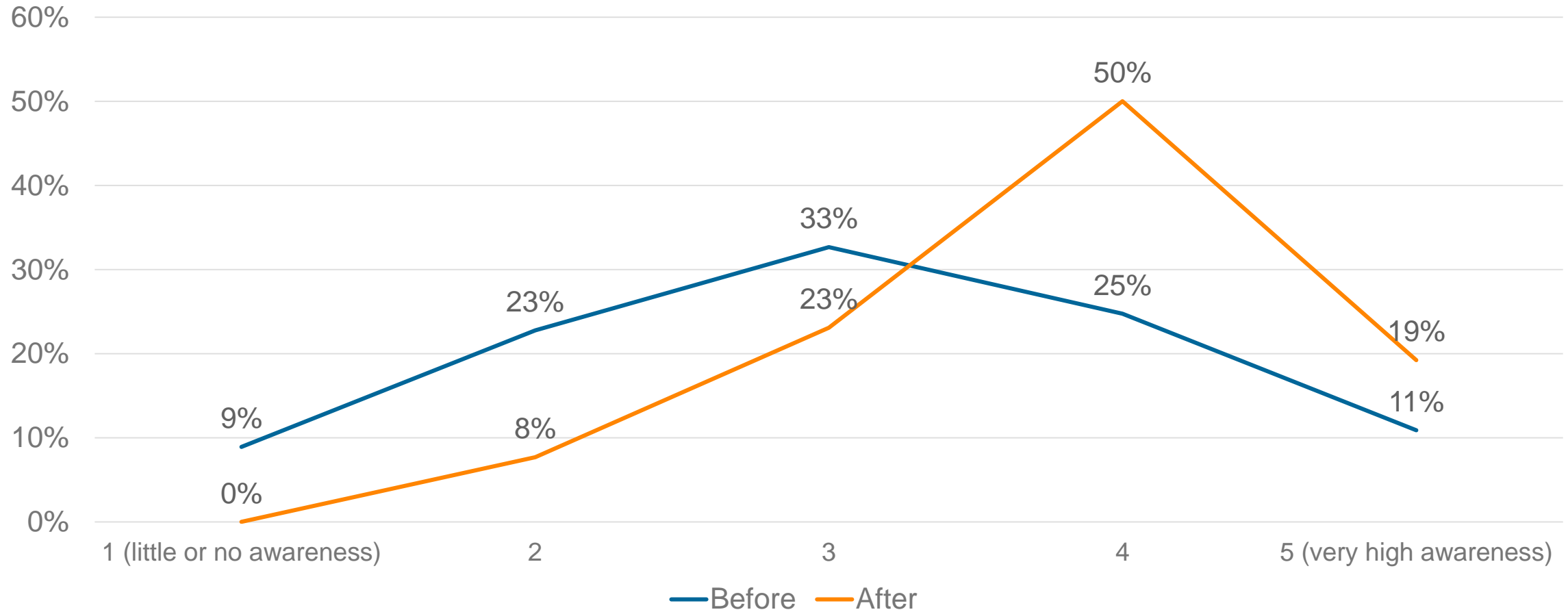
Please rate your awareness of the following, specifically in reference to the petroleum sector:

	Awareness, average rating by participants (1 = little or no, 4 = very high)		
	Before	After	Change
The sources of GHG emissions in the value chain	3.06	3.81	+24%
How to estimate project emissions	2.23	3.19	+43%
Strategic rationale to minimise oil and gas emissions	2.68	3.56	+33%
Key levers to minimise emissions	2.45	3.42	+40%
Obstacles to implementation	2.59	3.69	+42%



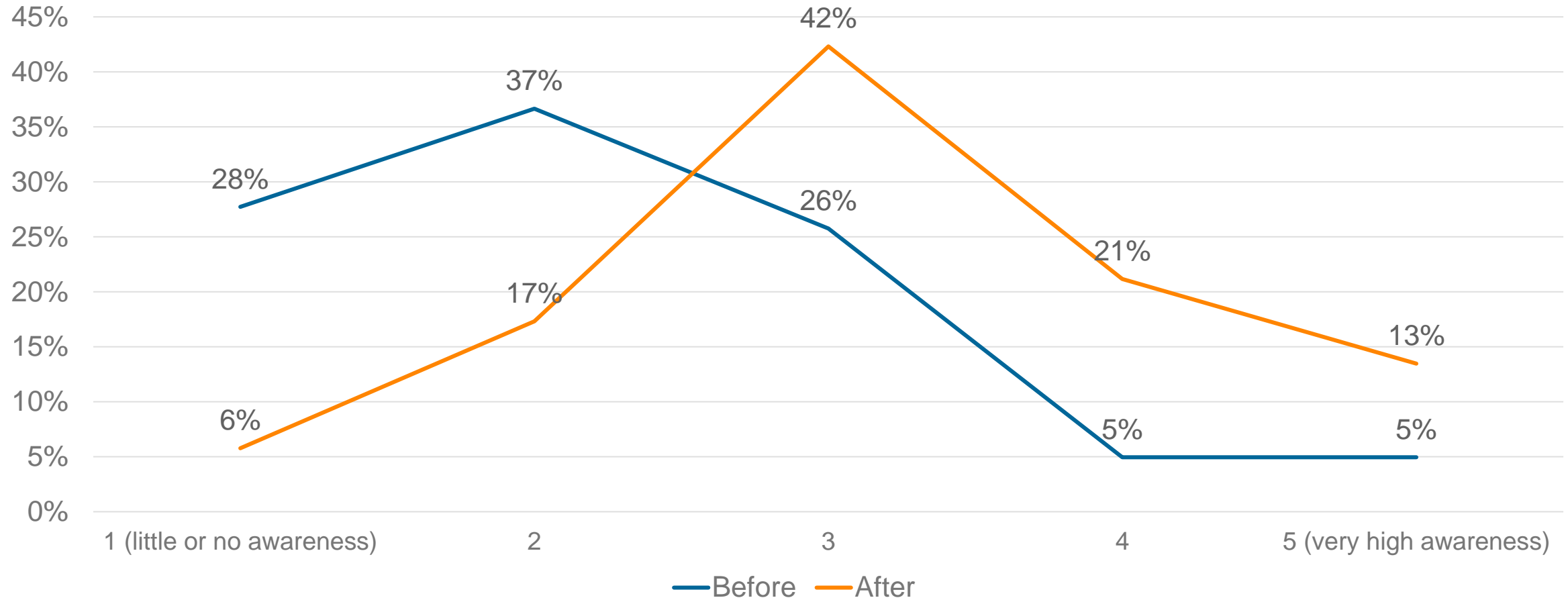
Please rate your awareness of the following, specifically in reference to the petroleum sector:

### The sources of GHG emissions in the value chain



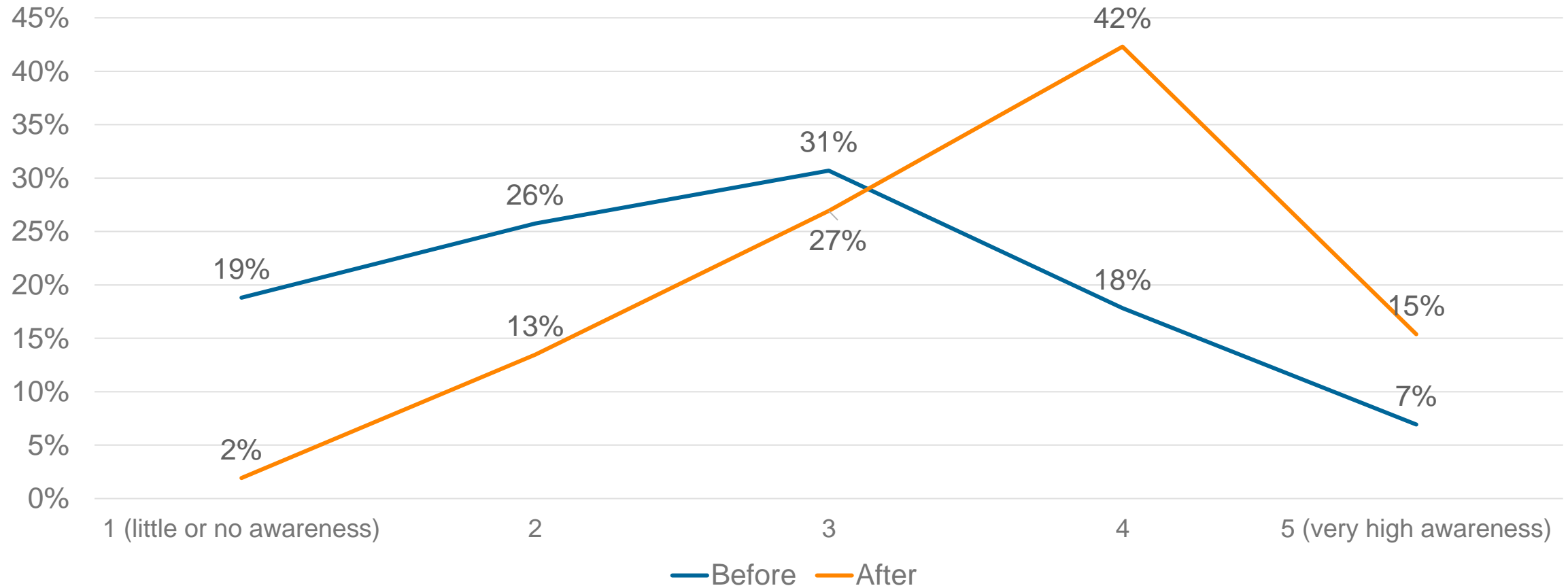
Please rate your awareness of the following, specifically in reference to the petroleum sector:

### How to estimate project emissions



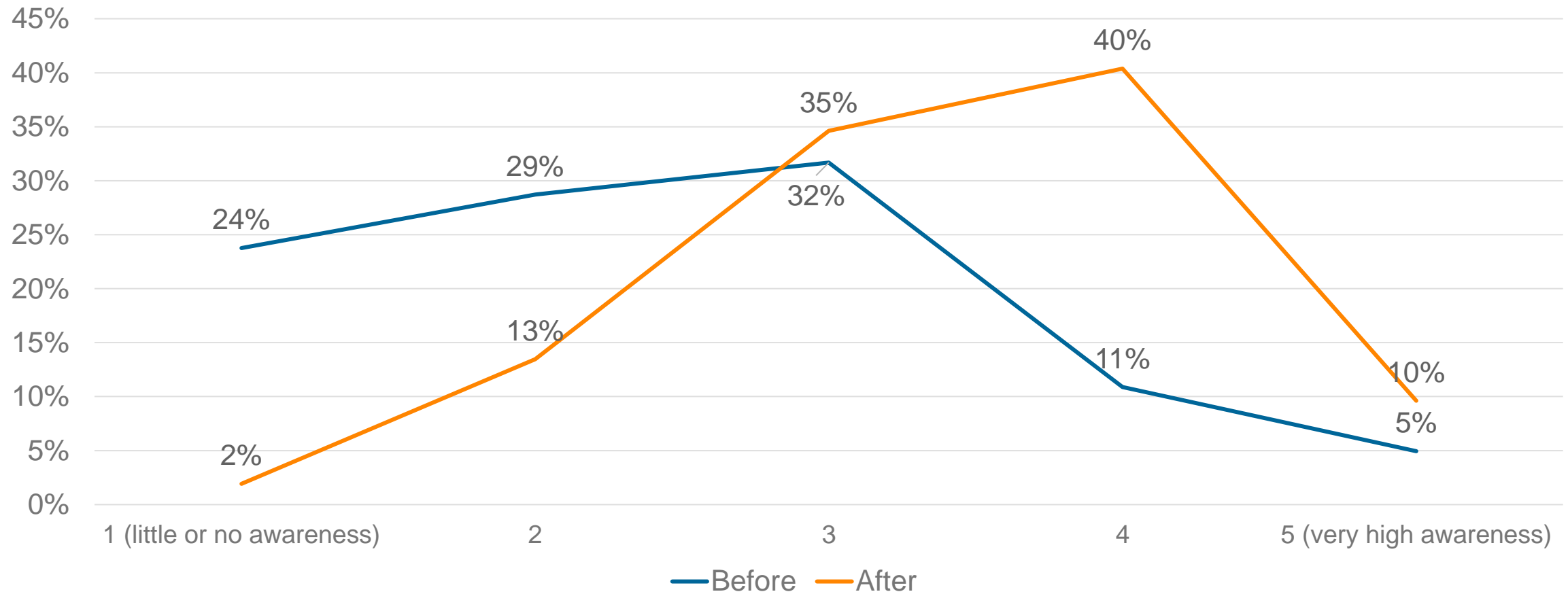
Please rate your awareness of the following, specifically in reference to the petroleum sector:

### Strategic rationale to minimise oil and gas emissions



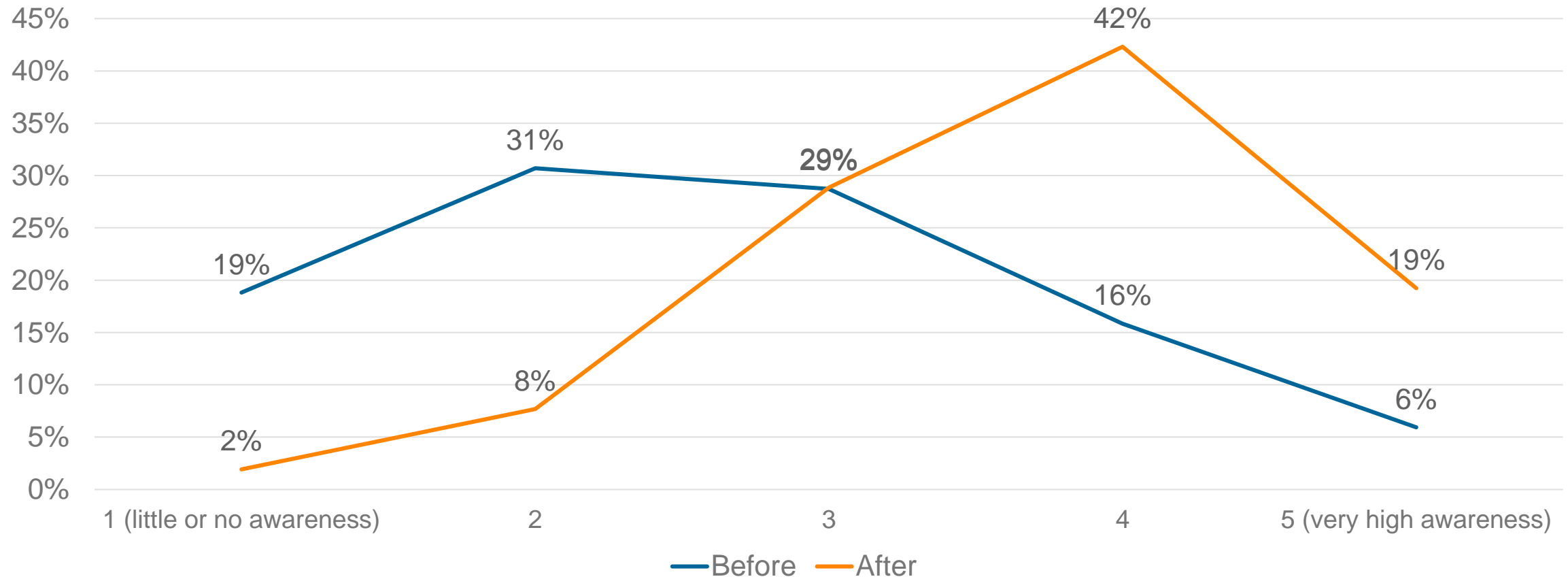
Please rate your awareness of the following, specifically in reference to the petroleum sector:

### Key levers to minimise emissions



Please rate your awareness of the following, specifically in reference to the petroleum sector:

### Obstacles to implementation



As a result of the training will you make any changes to how you deal with emissions? (e.g, policies, regulations, national pledges, MRV, information sharing, engaging operators/other agencies, etc)\*

