

## CONTENTS

About the author .....	2
Executive Summary .....	4
<b>1. Introduction: CCUS is back on policy makers' agenda .....</b>	<b>7</b>
<b>2. Growing policy attention and support for CCUS.....</b>	<b>10</b>
2018: "The year when the stars started to again align for CCS" .....	10
New focuses .....	11
<b>3. Global status of CCUS.....</b>	<b>14</b>
<b>4. Barriers, challenges and required policies .....</b>	<b>21</b>
The cost issue .....	22
Transportation and storage challenges.....	25
<b>5. United States: Growing carbon capture &amp; CO<sub>2</sub>-EOR industry .....</b>	<b>29</b>
The US has a proven record and leadership in CCUS/CO <sub>2</sub> -EOR .....	29
New 45Q incentive .....	31
California's Low Carbon Fuel Standard .....	32
Industrial facilities to benefit .....	33
No consensus on the impact of the new incentives on power generation .....	35
CO <sub>2</sub> -EOR as the initial target, carbon utilisation to follow .....	37
<b>6. Renewed interest and policy support in Europe .....</b>	<b>39</b>
A new momentum around CCUS in Europe .....	39
United Kingdom: "CCS is a necessity, not an option" .....	44
Evolving policy .....	44
Policy clarity in 2019.....	49
Funding .....	49
A wave of real projects.....	50
Newly announced projects.....	54
Norway: Cross-border cooperation and offshore storage, the full-scale CCS chain.....	55
Netherlands: Industrial clusters at main ports.....	56
Large-scale projects .....	57
Newly announced projects.....	58
Ireland: ERVIA Cork CCUS cluster .....	59
Other European countries.....	60
<b>7. Conclusion .....</b>	<b>62</b>
A new era for CCUS driven by contrasted policies and business models .....	62
<b>Main Abbreviations .....</b>	<b>64</b>
<b>List of Figures, Tables, Maps and Boxes .....</b>	<b>66</b>