



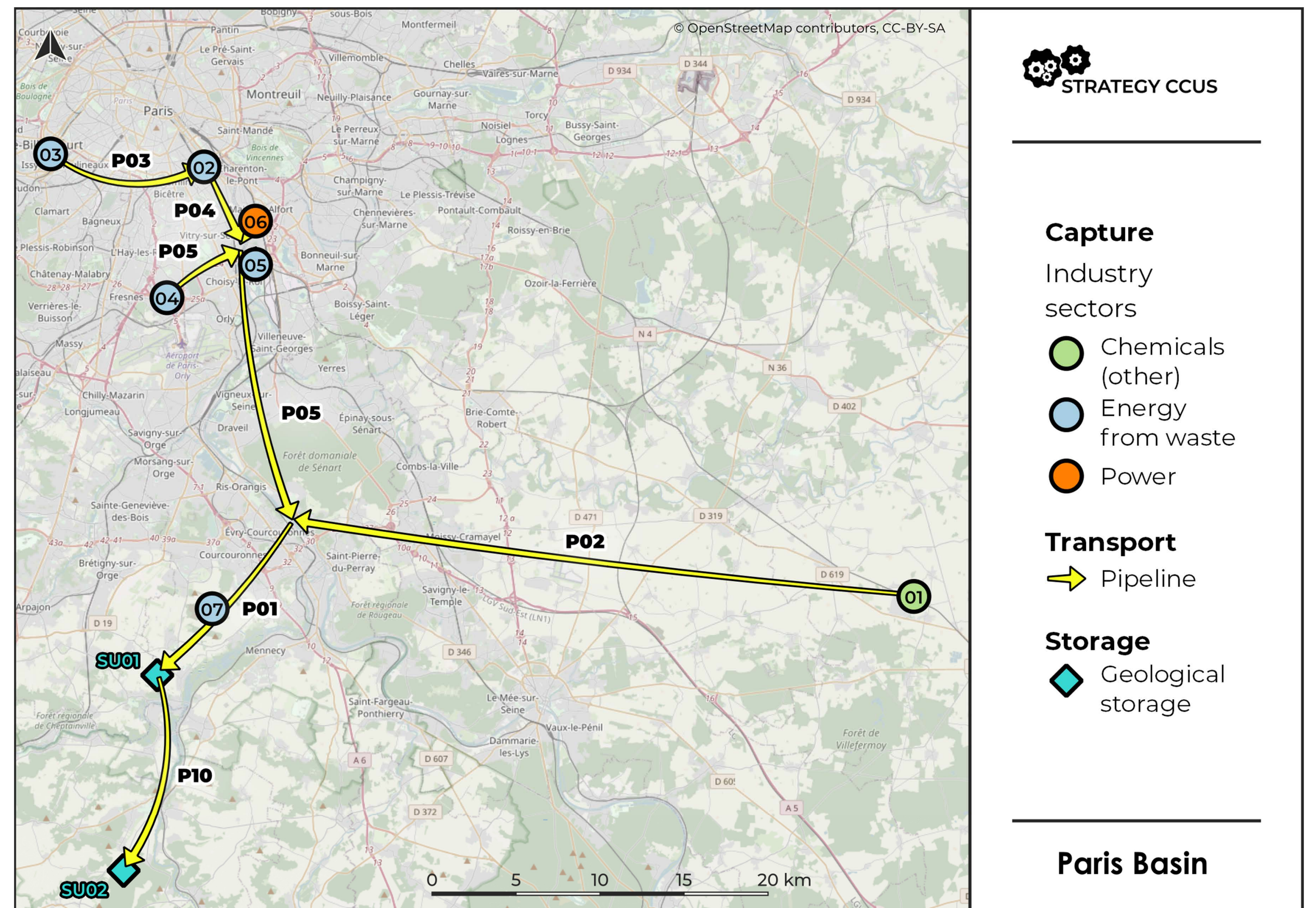
## Paris Basin (France)

Main Scenario	Capture	Transport	Storage
- Period 2025-2050 - 29,8 Mt CO <sub>2</sub> captured and stored (9,1 Mt from biomass)	- 7 emitters (3 by 2035, and 4 more by 2050)	- 120 km of pipelines	- 2 storage sites (the second after 2035) - Keuper (Trias) formation

Main scenario features– Paris Basin




Chemical plant – Paris Basin

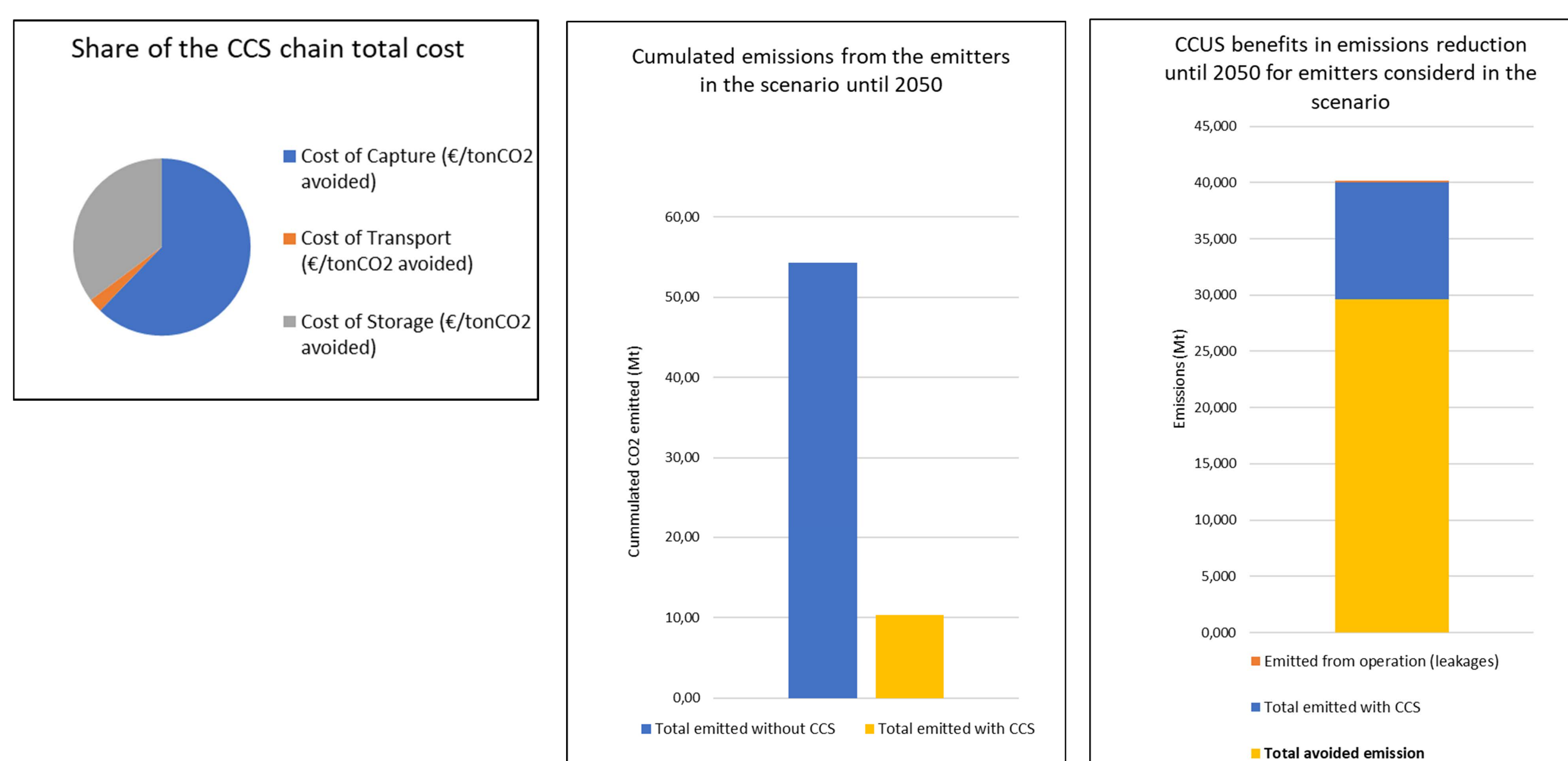


Main scenario of Paris Basin

### Strategy CCUS Region KPIs (Discounted)

Analysis of the CCS system		Analysis of CO <sub>2</sub> volumes (Mt)		Analysis of ETS allowances	
<b>Total CCS value chain</b>		<b>Total CO<sub>2</sub> Captured</b>		<b>EU ETS parameters</b>	
CCS value chain (€/tonCO <sub>2</sub> avoided)	-39,4	CO <sub>2</sub> utilized	29,8	Price of allowances in 2025 (€/tonCO <sub>2</sub> )	70
<b>Total CAPEX per block</b>		CO <sub>2</sub> for mineralization (perm. avoided)	0,0	Price of allowances in 2045 (€/tonCO <sub>2</sub> )	212
Cost of Capture (€/tonCO <sub>2</sub> avoided)	-4,2	Stored	29,8	<b>Whole regional expense without CCUS:</b>	
Cost of Transport (€/tonCO <sub>2</sub> avoided)	-0,7	Total emitted with CCS	10,4	ETS costs without CCUS (M€)	3 566,9
Cost of Storage (€/tonCO <sub>2</sub> avoided)	-4,3	Total avoided emission	29,7	<b>Whole region expense with CCUS</b>	
<b>OPEX per block</b>		BIO CO <sub>2</sub> captured, neg. Emissions	9,1	ETS costs with CCUS, remaining emissions (M€)	985,7
Cost of Capture (€/tonCO <sub>2</sub> avoided)	-20,3	<b>Total CO<sub>2</sub> fed into transport network</b>	<b>30</b>	Cost of CCUS (M€)	1 169,3
Cost of Transport (€/tonCO <sub>2</sub> avoided)	-0,3	CCUS National Objectives	320	TOTAL costs with CCUS (M€)	<b>2 154,9</b>
Cost of Storage (€/tonCO <sub>2</sub> avoided)	-9,6	Share in national objectives	9,3 %	<b>Cost difference, with minus without CCUS (M€)</b>	
Transport cost (€/tonCO <sub>2</sub> transported)	-1,0	 <p><b>STRATEGY CCUS</b> A viable solution for a sustainable future</p>		<b>Average yearly energy need, TWh/year</b>	
<b>Utilisation (income from CO<sub>2</sub> sales) (M€)</b>				1,04	
EUA/ETS credit savings in the region (M€)	2581,2			<b>Peak energy need, TWh/year</b>	
				1,62	
				<b>Breakeven CO<sub>2</sub> price (€/tonCO<sub>2</sub>)</b>	
				42	
				<b>First year of profit</b>	
				2028	

### Economic evaluation results for Paris Basin (Main scenario)



STRATEGY CCUS Regional Event FRANCE  
March 31<sup>st</sup> 2022