

Survey Results of Refinery CO2 Management Strategies around the World

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Company	Country	Energy efficiency	Combined heat and power	Renewable energy (excluding biofuels)	Carbon capture and storage (CCS)	Position in carbon pricing (CT or CCT)
United States						
Chevron		✓	✓	✓	✓ ^a	CT
ConocoPhillips		✓	✓	✓	✓ ^a	CCT ^b
ExxonMobil		✓	✓		✓	CT
Flint Hills Resources		✓	✓			
LyondellBasell		✓				
Marathon Petroleum		✓	✓		✓	CT
Valero Energy		✓	✓	✓		
Canada						
Husky Energy		✓	✓		✓ ^a	
Imperial Oil		✓	✓ ^a		✓ ^a	CT
Irving oil		✓	✓	✓	✓ ^a	
Suncor Energy		✓	✓	✓	✓ ^a	CCT ^b
Latin America and Caribbean						
Ecopetrol	Colombia	✓				
Petrobras	Brazil	✓	✓	✓	✓ ^a	
Pemex	Mexico	✓	✓			CCT
Petroperu	Peru		✓			
Western Europe						
BP	UK	✓	✓	✓	✓	CCT
CEPSA	Spain	✓	✓		✓ ^a	
Eni	Italy	✓	✓	✓	✓ ^a	CCT
ERG	Italy	✓	✓	✓	✓ ^a	CCT
Galp Energia	Portugal	✓	✓	✓	✓ ^a	
Hellenic Petroleum	Greece	✓	✓	✓		
Motor Oil Hellas	Greece	✓	✓	✓		
OMV	Austria	✓	✓	✓	✓ ^a	CCT
Repsol YPF	Spain	✓	✓	✓	✓ ^a	CCT
Royal Dutch Shell	UK/ Netherlands	✓	✓	✓	✓	CCT

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Saras	Italy	✓	✓	✓	✓ ^a	CCT
Statoil	Norway	✓	✓	✓	✓	CCT
Total	France	✓	✓	✓	✓	
Eastern Europe, CIS						
Czech Refining	Czech Republic	✓				
MOL	Hungary	✓	✓	✓	✓ ^a	
Rosneft	Russia	✓	✓			
Middle East						
ADNOC (Takreer)	UAE	✓		✓	✓ ^a	
Saudi Aramco	Saudi Arabia	✓	✓		✓ ^a	
Tupras	Turkey	✓	✓	✓		
Asia-Pacific						
Attock Refinery	Pakistan	✓		✓		
Caltex Australia	Australia	✓				CCT
Cosmo Oil	Japan	✓	✓	✓	✓ ^a	CCT
CPC	Taiwan	✓			✓ ^a	
Hindustan Petroleum	India	✓	✓	✓		
Idemitsu Kosan	Japan	✓		✓		
Indian Oil	India	✓	✓	✓		
Japan Energy	Japan	✓				
New Zealand Refining	New Zealand	✓				
Nippon Oil	Japan	✓	✓	✓		
Pertamina	Indonesia			✓		
PetroChina	China	✓		✓	✓ ^a	
Petronas	Malaysia	✓	✓			
Sinopec	China	✓		✓		
SK Energy	South Korea	✓			✓ ^a	
^a Not a commercial carbon-capture project, but part of consortium researching CCS possibilities ^b Not final company decision, but leaning toward						