Global Energy Policy Research | GEPR

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IEA??????????????????????

?? ?? · Saturday, June 12th, 2021

??????????IEA???2050???2050????CO2??? ??

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SIphotography/iStock

???COP26??????????????????????????????????CO2????? ????????????????????????????

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Table 2.1 ▻ Fossil fuel prices in the NZE

Real terms (USD 2019)	2010	2020	2030	2040	2050
IEA crude oil (USD/barrel)	91	37	35	28	24
Natural gas (USD/MBtu)					
United States	5.1	2.1	1.9	2.0	2.0
European Union	8.7	2.0	3.8	3.8	3.5
China	7.8	5.7	5.2	4.8	4.6
Japan	12.9	5.7	4.4	4.2	4.1
Steam coal (USD/tonne)					
United States	60	45	24	24	22
European Union	108	56	51	48	43
Japan	125	75	57	53	49
Coastal China	135	81	60	54	50

Notes: MBtu = million British thermal units. The IEA crude oil prices are a weighted average import price among IEA member countries. Natural gas prices are weighted averages expressed on a gross calorific-value basis. US natural gas prices reflect the wholesale price prevailing on the domestic market. The European Union and China gas prices reflect a balance of pipeline and liquefied natural gas (LNG) imports, while Japan gas prices solely reflect LNG imports. LNG prices used are those at the customs border, prior to regasification. Steam coal prices are weighted averages adjusted to 6 000 kilocalories per kilogramme. US steam coal prices reflect mine-mouth price plus transport and handling cost. Coastal China steam coal price reflects a balance of imports and domestic sales, while the European Union and Japanese steam coal prices are solely for imports.

??????????2030??4.4???100?Btu????Btu??????????????????2010??12.9????3??1??

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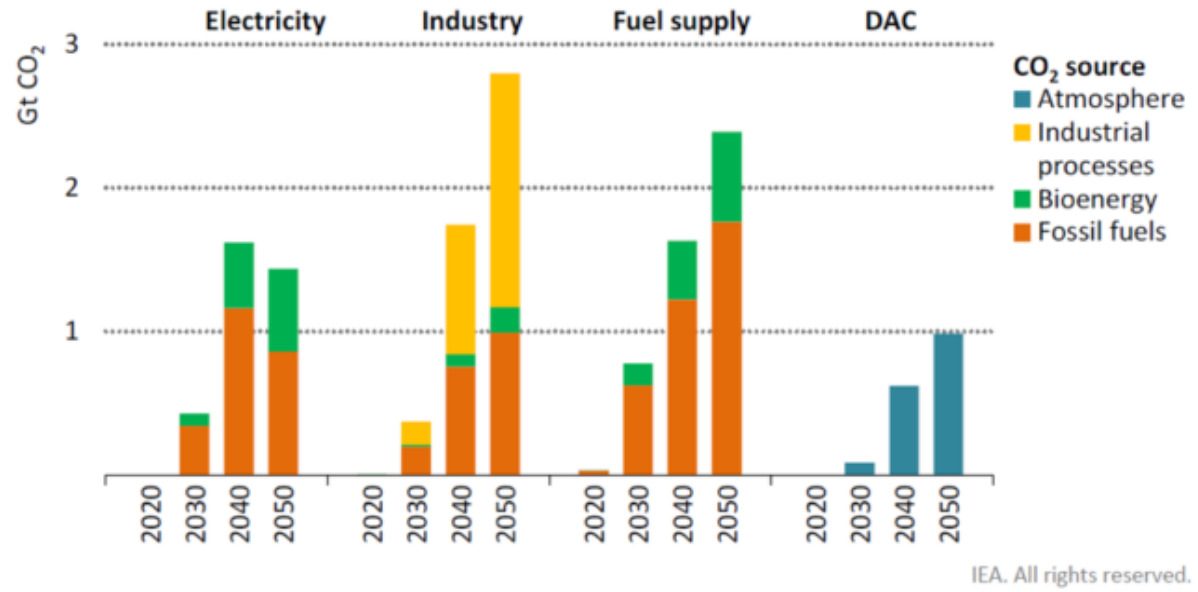
??????????(p51)?????2030????????????????????????13.9??????????8.2?????????????1.4????9.6??kWh???????????

??????4.4/13.9 *8.2 = 2.6??????????????????????????????2.6+1.4=4?????

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???2050??????????????????????????2030?????DAC?Direct Air Capture??????????????CO2??????????????????????????????????2050???10????CO2??????????????????????????????????

Figure 2.30 ▷ CCUS by sector and emissions source in the NZE



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Fossil fuel emissions account for almost 70% of total CO_2 capture in 2030 and almost 50% in 2050

Note: DAC = direct air capture.

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Table 2.2 ▷ CO_2 prices for electricity, industry and energy production in the NZE

USD (2019) per tonne of CO_2	2025	2030	2040	2050
Advanced economies	75	130	205	250
Selected emerging market and developing economies*	45	90	160	200
Other emerging market and developing economies	3	15	35	55

* Includes China, Russia, Brazil and South Africa.

?????CO2???????12????2050????????????????????????????6???????????6????DAC?????????????????????

??????????6?×13000=7.8??????????????????????????????2.4??????????????????3?????GDP?500??????????1.6%??????1??

DAC?????????????DAC?????????????CO2????????????????????????????????????

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- ????2050????????????????????????
- 2030??
- 2050?????DAC??????????????????

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??????2030??????????2050???????7.8??????

??????????DAC????????????????????????????

??2050????????????????????????????

??????????????????10%??
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