# Global Energy Policy Research | GEPR

GEPR??????????????

**(5) ??????????**

??????????????????????????????????????????????2020???????????90 Mt??????2030???200 Mt???????2050???530 Mt???????

??????????????2020??10???2030???70??????2050??????????????2050??????????????????60????? ???????CCUS????????40??????????????????15,000 TWh??????????????20????????CCUS????????????????????????????????????50???????

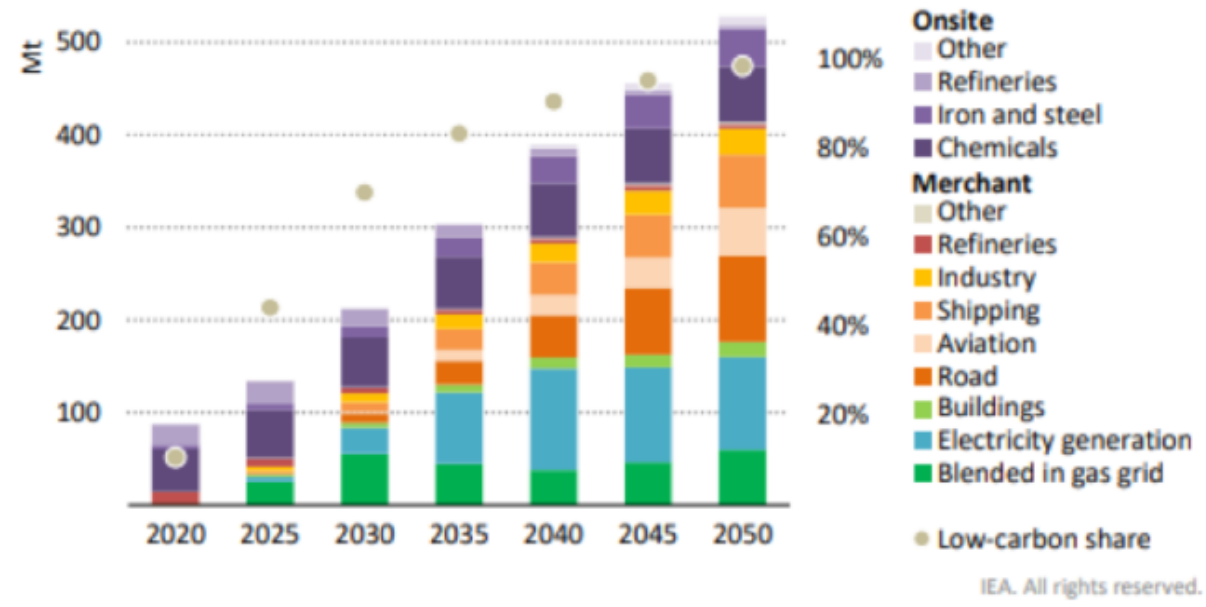
2020??????????????????????2030????1500????????????????????????????????15????????????2030??? ????????????????????????????????????????????????????????????????????????????????????????

2050??????????????????????????????????????????????2050??????????????3??1???????30??????????? ????????????????????????????????????????????????????????????????????????????????60???????? ??17????????????????????????????????????????????????

??????????????????????????????????2050??????????????????45???????????????????????????????? ???????

??????????????????2050??????????????3??1???????????2050?????CO2????????????????????????????? ??????????????????10????????

**Figure 2.19 ▷ Global hydrogen and hydrogen-based fuel use in the NZE**




*The initial focus for hydrogen is to convert existing uses to low-carbon hydrogen; hydrogen and hydrogen-based fuels then expand across all end-uses*

Note: Includes hydrogen and hydrogen contained in ammonia and synthetic fuels.

**(6) ????????**

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NZE????????????????????????????????????????????????????????????????????????????????????????????
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FT????????????????????????????????????????????????????????????????????????????????????????????
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????????????2020????????????????????????????????????????????????????????????????????2050?????
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????????????????????????????????????????????????????2030???????????????5?????????????????????
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??????????????????????????CO2??????????CCUS?????????????CO2??????????????2050?????????
?????????3,300TWh???????????5???????

????????????????????????????????????2050?????????????60?????????30????????????????????????
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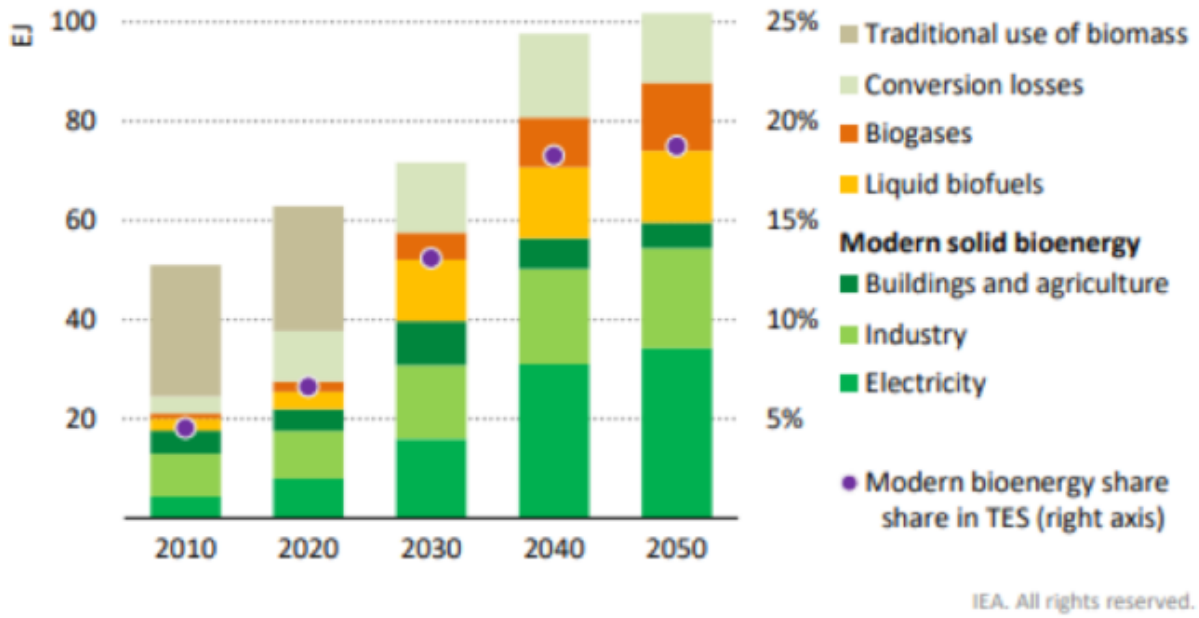
**Figure 2.20 ▻ Total bioenergy supply in the NZE**




*Modern bioenergy use rises to 100 EJ in 2050, meeting almost 20% of total energy needs. Global demand in 2050 is well below the assessed sustainable potential*

Notes: TES = Total energy supply. Conversion losses occur during the production of biofuels and biogases.

**(7) CO2????????CCUS?**

CCUS???????????CO2?????????????????????1000 m??????????????????????

CCUS???????CO2?????????????CO2????????????????????????????CO2???????BECCS????????
???CO2??????????????CCUS?????????????????????

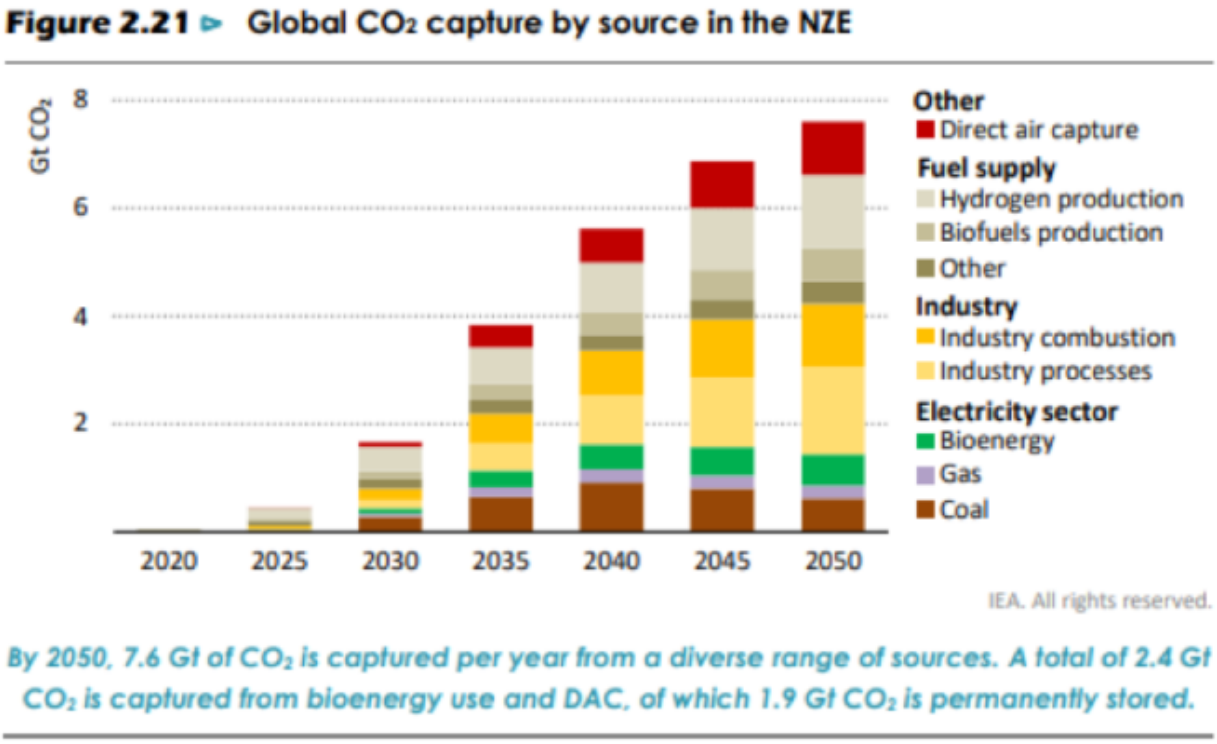
CCUS???CO2????????????????????????40 Mt
?????????5??????????????????????????25??????????2050???7.6 Gt
CO2????????????CO2??95???????????5?????????????????????????????????IEA-NZE???????????????

2050?????2.4Gt CO2????????BECCS?????????DACCS???????????????????1.9 Gt ????????0.5 Gt??????????????????

2050???????CO2????????????????????????????????40???????????????????CO2????????????CCUS?????????????????

??????2050???????CO2???20????????????????????????????????????????CCUS????????????????????????????????CCUS??????????????????????2050????220GW????????????????170 GW???????????7???CCUS????????

??????CCUS????????????????????????????????????????CO2????????????????????CO2?????????????????????CCUS?????????????????????????CCUS?????????????

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