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2030年46%削減目標の達成に向けた取り組み

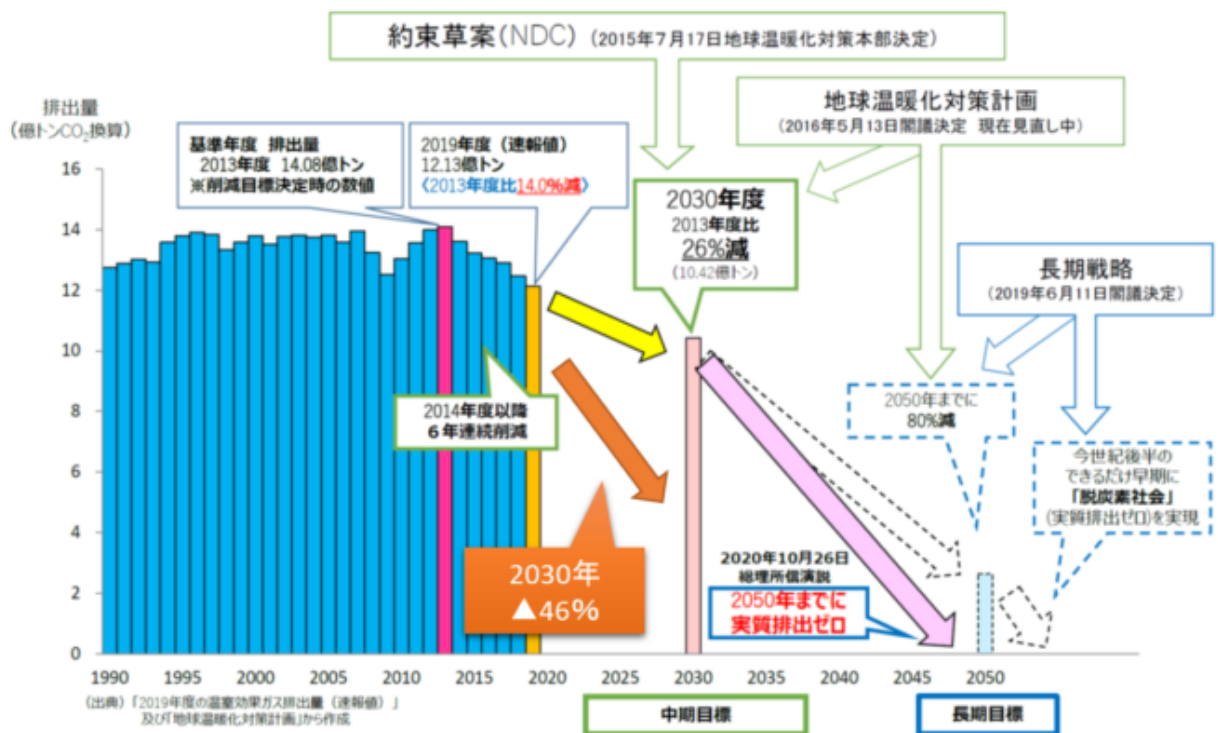
IEEI - Thursday, June 24th, 2021

2030年46%削減目標の達成に向けた取り組み

2050年80%削減目標の達成に向けた取り組み
2030年26%削減目標の達成に向けた取り組み
2013年度14.08億トン削減目標決定時の数値
2019年度(速報値)12.13億トン(2013年度比14.0%減)
2030年度2013年度比26%減(10.42億トン)
2050年までに80%減
今世紀後半のできるだけ早期に「脱炭素社会」(実質排出ゼロ)を実現
2020年10月26日 総理所信演説
2050年までに実質排出ゼロ

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| | 従来の中期目標 | 目標引き上げ | 2050年 ネットゼロ |
|-----|---|----------------------------|------------------|
| 中国 | 2030年までにピークアウト GDPあたり排出原単位 ▲65%以上(2005年比) | 引き上げ表明なし | 2060年 ネットゼロ表明 |
| 米国 | 2025年▲26~28% (2005年比) | ▲50~52% (2005年比) | 表明 |
| インド | 2030年GDPあたり排出原単位 ▲33~35%(2005年比) | 引き上げ表明なし | 表明なし |
| EU | 2030年▲40% (1990年比) | ▲55% (1990年比) | 表明 |
| ロシア | 2030年▲30% (1990年比) | 引き上げ表明なし | 表明なし |
| 日本 | 2030年▲26% (2013年比) | ▲46%(2013年比) ▲50%の高みに挑戦 | 表明 |
| カナダ | 2030年▲32~40% (2005年比) | ▲40~45% (2005年比) | 表明 |

????????????????????????????????????

?????2030?50?52%???????

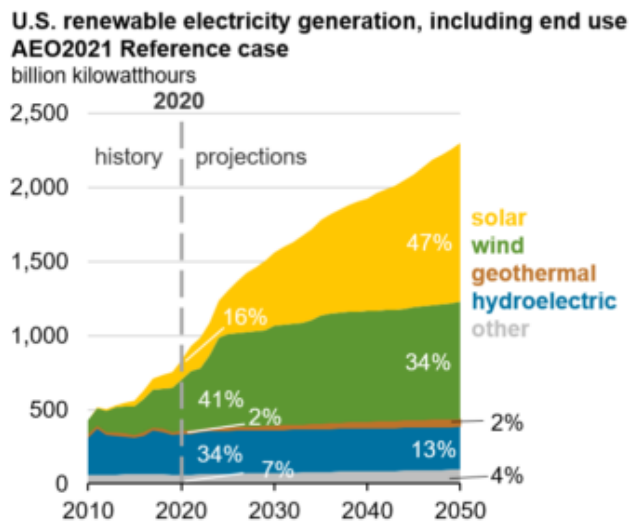
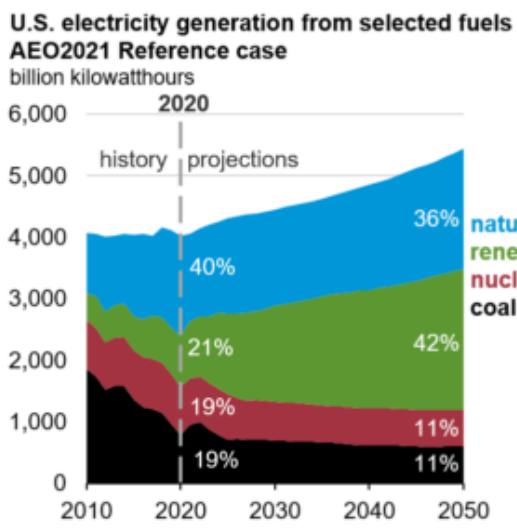
????2030????50?52????2035??EIA??20

21?2??????” Annual Energy Outlook 2021²³⁾

”?????2050??

??

??40%????21%????19%???19%???????

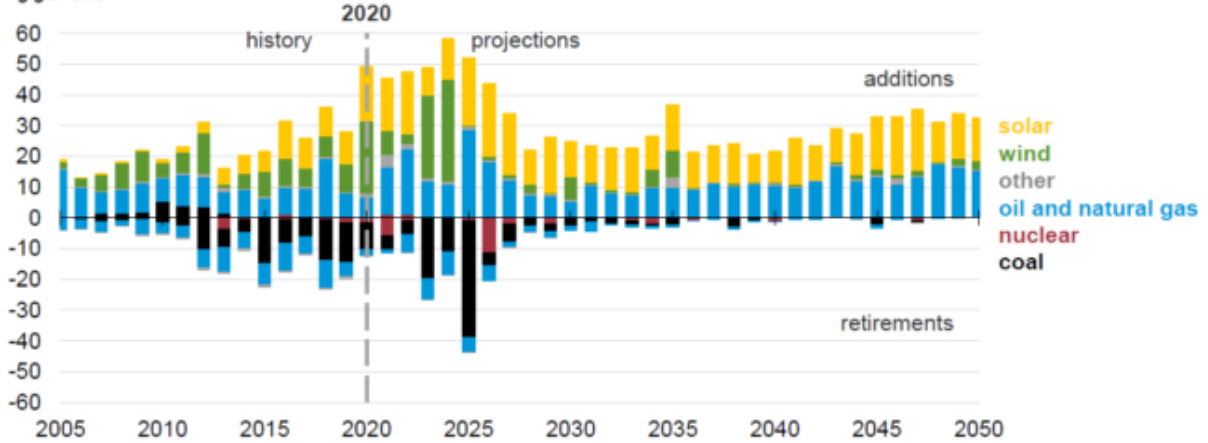


??????(?)??????(?)????????????EIA

Annual electricity generating capacity additions and retirements

AEO2021 Reference case

gigawatts



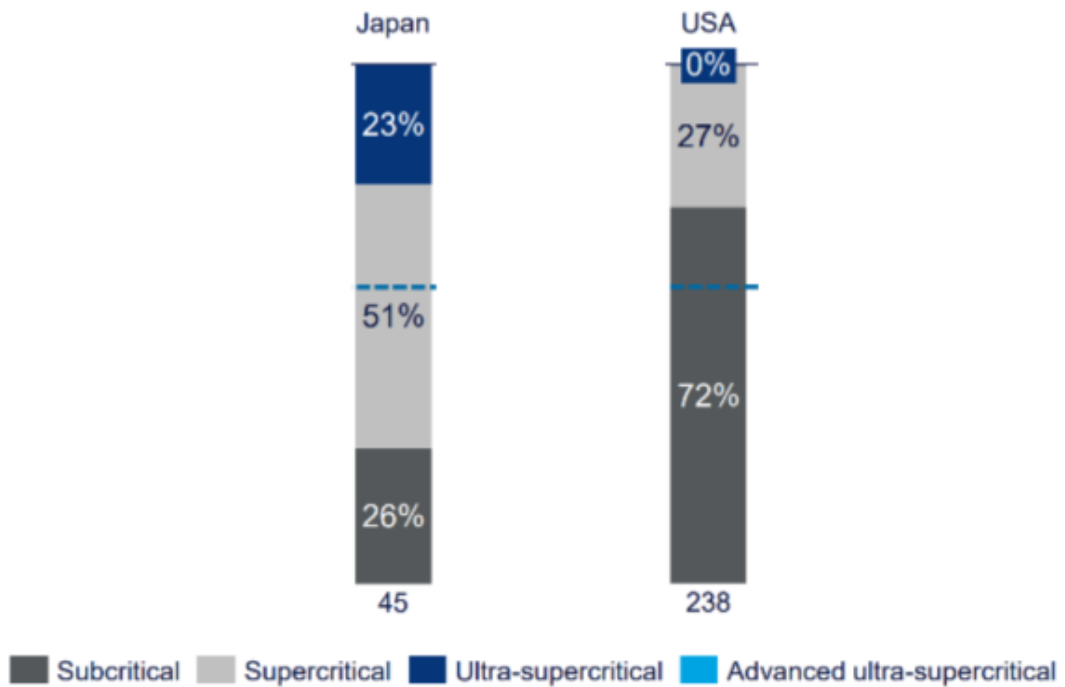
Source: Form EIA-860M, Monthly Update to the Annual Electric Generator Report, July 2020

????????????????????EIA

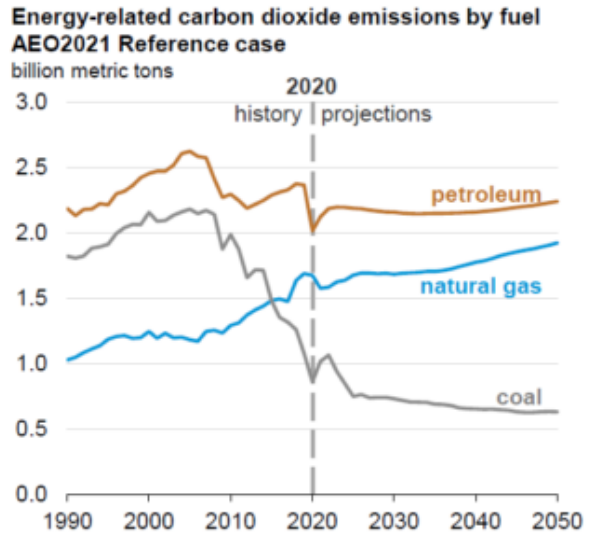
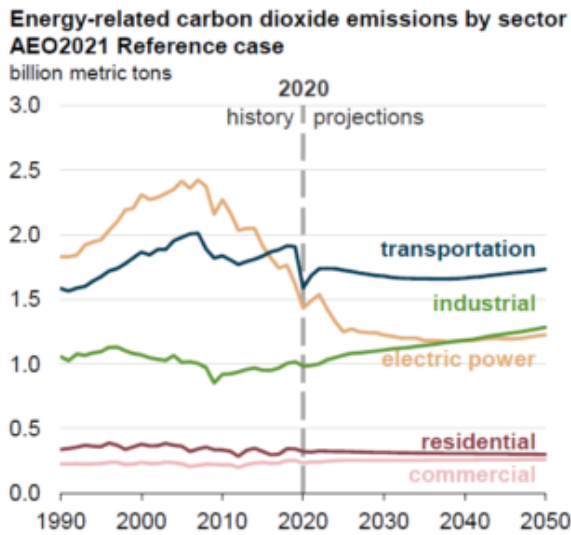
????????2020??2050????????1,000GW????6????
 ??2024????PTC: Production Tax Credit????ITC: Investment Tax
 Credit????2050????42????

??4????EIA??\$3.50/MMBTu????
 ?????EIA????intermittent????

????????CO₂????CO₂????



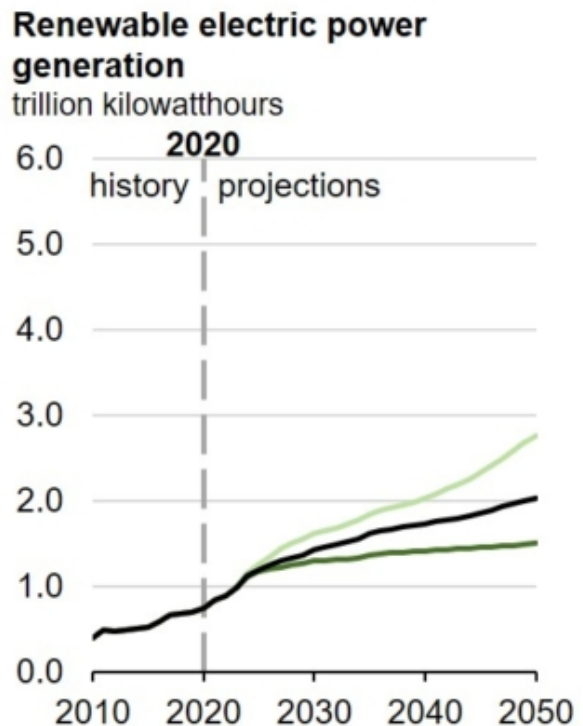
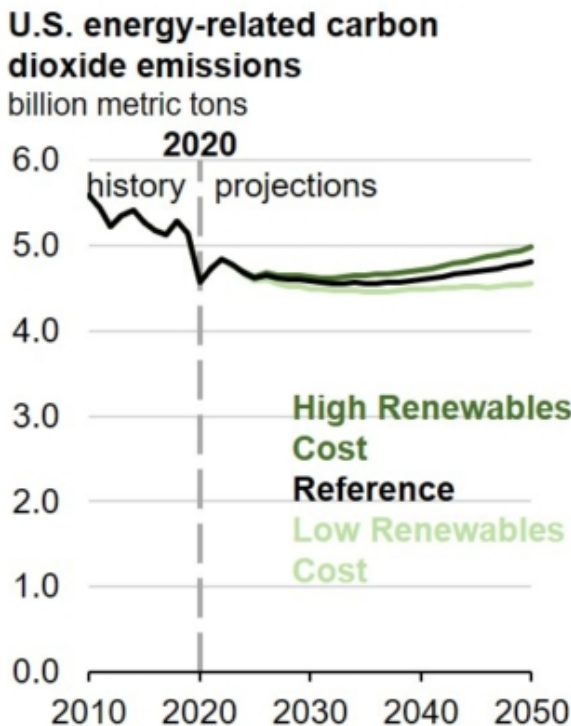
????????National Mining Assosiation



CO2 EIA

2035

CO2 2030 50%



CO2 EIA

2021 Jobs Plan Investment Tax Credit:

ITC????2035??ITC????????PTC??10????????????????
????????????????????????????????????Energy Efficiency and Clean Electricity Standard:
EECES??CO₂??
????CCS: Carbon Capture and Storage????????????????advanced nuclear????????150????????????????

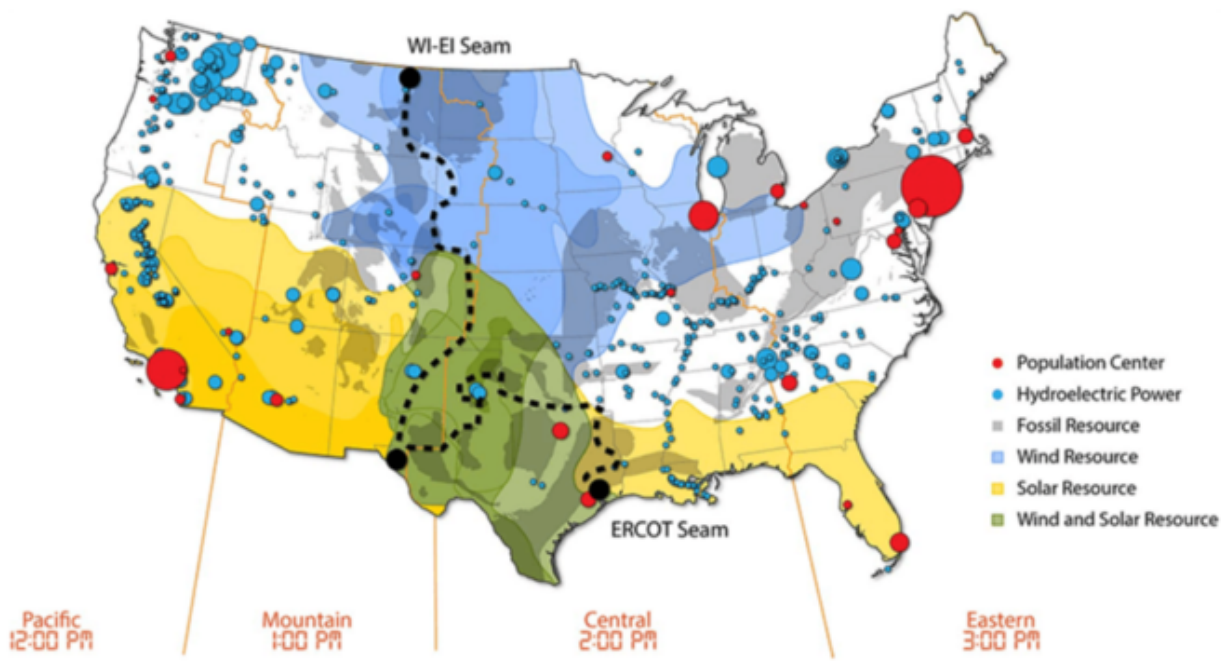
????????????????????????????21??28??
??
????????????????28????????????????25????????????²⁵⁾??
????????Reconciliation??²⁶⁾ ?

????????2030??50% ?52????2035??
??

3????????????????????

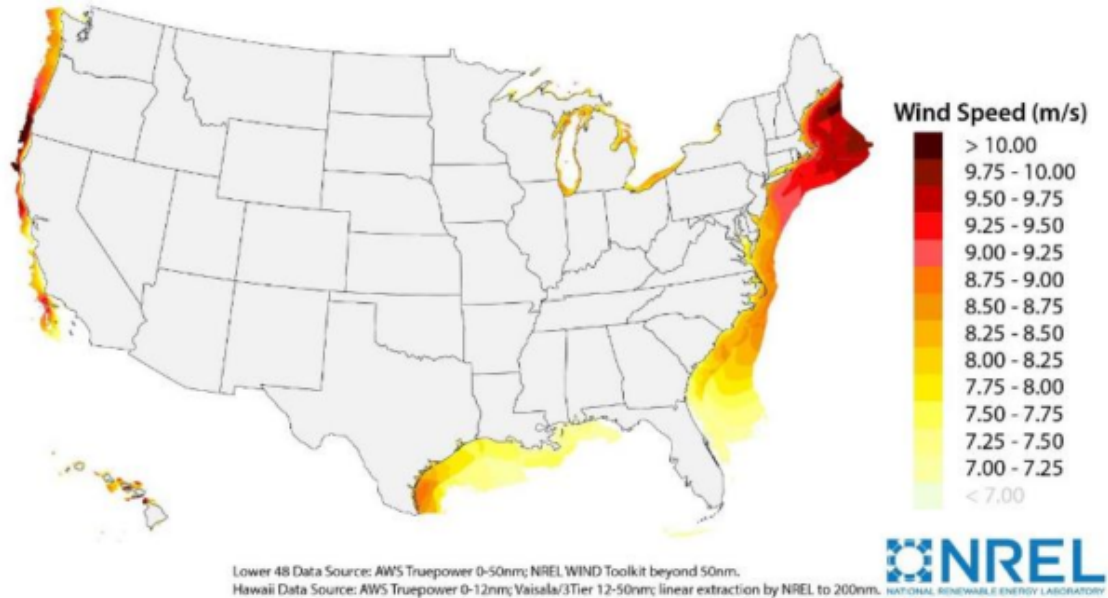
????????????????????????1990????????????????????RPS: Renewables Portfolio
Standard??CCS????????????????????
??

????????????????NREL??
??



????????????????????????NREL

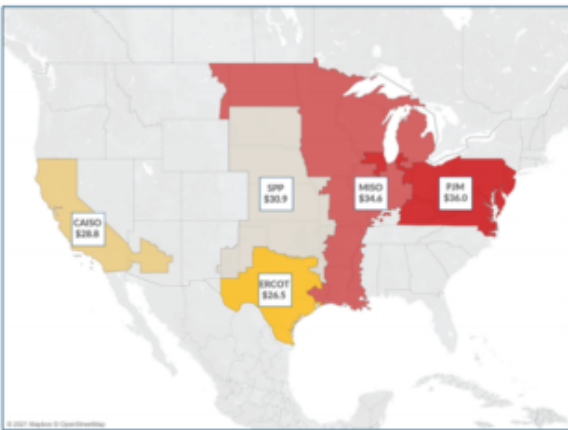
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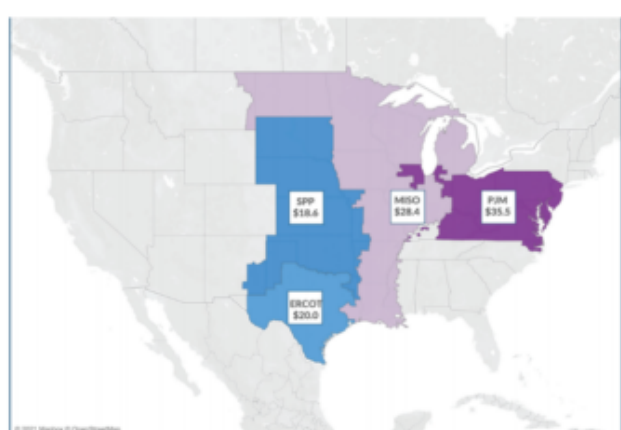
????????????????????NREL

????????????????????LCOE: Levelised Cost of
 Electricity????????????PPA????????????????????Level 10
 Energy?????????) ?????????????????????????????CAISO????????ISO?ERCOT????????????ERCOT?SPP?
 ??????????

Solar PPA Prices by ISO
 25th Percentile Hub Prices (\$/MWh)



Wind PPA Prices by ISO
 25th Percentile Hub Prices (\$/MWh)

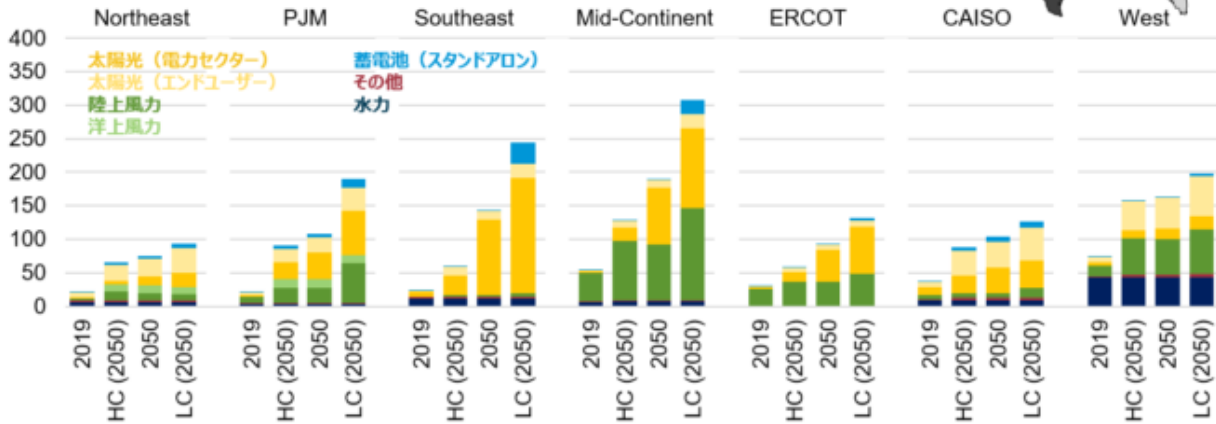


??????(?)?????(?)?PPA?????????Level 10 Energy

EIA??Southeast?CAISO?ERCOT????????Mid-
 Continent?ERCOT?????????West?????Northeast?PJM??
 ?



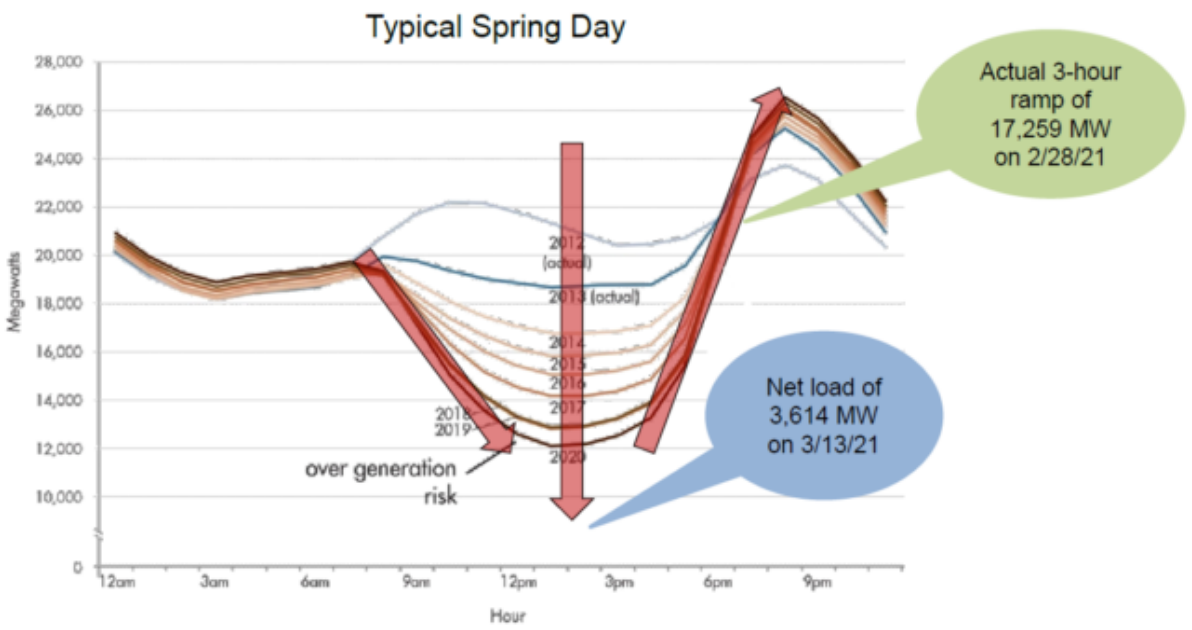
**Total renewables capacity in all sectors, 2019 and 2050
AEO2021 selected side cases**
gigawatts



????????????????????????????????EIA??????

??2045????????????CCS????????????????????????????????100?
 ?????2020??
 ?????????????????????Net
 Load??

CAISO⁷⁸⁾ ???
 ???
 ???
 ???
 ??

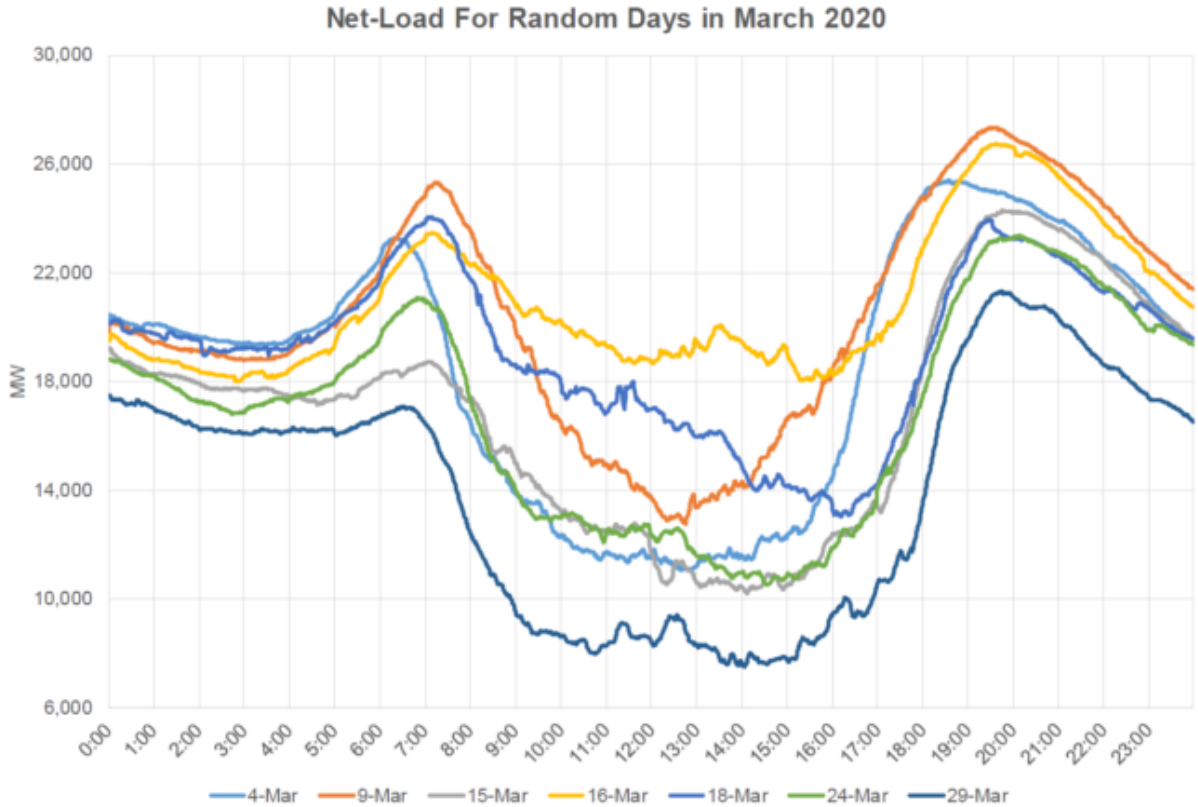


????????????????????????????????CAISO

??
 ???
 ???

??CAISO????????????????????2021?3?13?
 ??????3,614MW?????????3?????????????2021?2?28??17,259MW?????????

????????????????????EV??2020?3????????????????
 ???
 ???2020??³⁹⁾ ?



????????????????????????????????CAISO

- ?1?RITE?2016????????????????????2030?????????????????
- ?2?RITE?2019?????????????NDCs??2020????????????????????????????????
- ?3?https://www.eia.gov/outlooks/aeo/pdf/AEO_Narrative_2021.pdf
- ?4?<https://www.whitehouse.gov/briefing-room/statements-releases/2021/03/31/fact-sheet-the-american-jobs-plan/>
- ?5?<https://www.bloomberg.com/news/articles/2021-04-05/manchin-balks-at-biden-s-corporate-tax-increase-favors-25-rate>
- ?6?<https://edition.cnn.com/2021/04/25/politics/joe-manchin-joe-biden-infrastructure-bill-cnntv/index.html>
- ?7?Level 10 Energy, 2021, "North America, Q1 2021 Level Ten Energy PPA Price Index"
- ?8?CAISO, 2016, "Fast Facts"; CAISO, 2021, "Flexible Capacity Needs and Availability Assessment Hours Technical Study for 2022"
- ?9?CAISO, 2020, "Report on system and market conditions, issues and performance: August and September 2020"

????2030?46?????????????????????

???????????????????? 2021?6?4??

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