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??Pielke????Breakthrough
Institute??1GWh????????????????????????????????

????????????????????????????????1GWh????????????????????????????????5????????????????1.7????????
??1GWh????????????????????2????????????????1.8????
??????

?????1GWh????????1.8????????0.8????????????????????0.3????????0.2??????????????????????

????????????????????????????????????1500??2000??

??
????????????????????1GWh????0.43????????????????????

????????????10?13????????????25?30????????????????????????????????2?2.5????????????????????1
GWh????0.8?1.2??

??energy
intensive????????????????CO2????????????hard to
abate??
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??CO2????????????????
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??CO2????????????????
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????????????????CO2??

???Pielke??

??2000??2024??CO2????????????????
????????????????????????????????2000?400????????????????????CO2????2023????4.7????
??2024??75????????????????

2025????????????3??
????????????????CO2????????????????????????????????????

????????????CO2????Pielke???IEA??
????????60????????????????????

??2010??
????????????6??

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

????????????????CO2????????????????CO2????????????????2022?CO2????14????????
????????????????????????????????CO2????????????????????????????????

????????CO2????????

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IEA?STEPS????????2050?????????????????????????????????2030??2050????????????
????????????????CO2????????2030??8.7????2050??16????????????10????????????Pielk
e????????

????????????IEA?NZE????????2050????????????????????????????????CO2????2030????
15.4????2050????????????40????????????2????????????CO2????????

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??IEA?NZE????????2030????????????630GW??390GW????????????1200GW????
??CO2????????

??2030??4????
??CO2????????

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??Pielke????????

????????Pielke???



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????????????CO2??
“??”

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