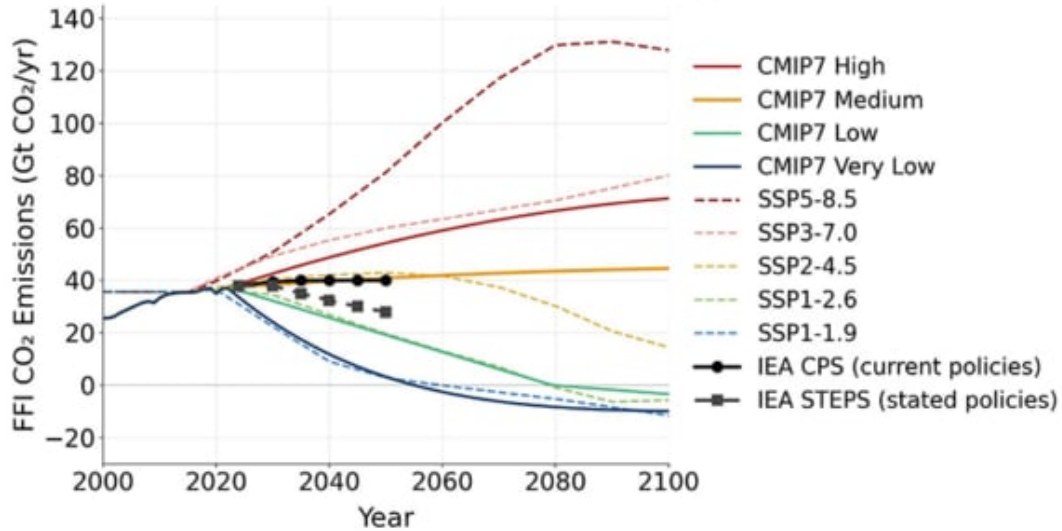


CMIP7 vs SSP (AR6) vs IEA (2025): FFI CO₂ Emission Trajectories



Source: CMIP7 ScenarioMIP (Van Vuuren et al. 2026); RCMIP v5.1 SSP harmonized emissions; IEA World Energy Outlook 2025. Produced at the direction of Roger Pielke Jr. at The Honest Broker on Substack.

????????????????????8.5??S
-18????????????

??

High-Level Policy Uses of RCP8.5, SSP5-8.5, and SSP3-7.0

Jurisdiction / Institution	Policy document / programme	Year	Scenarios used	Application
United States	NCA4 (2018) and NCA5 (2023)	2018, 2023	RCP8.5; SSP5-8.5	Statutory national impact assessment (GCRA)
United Kingdom	UKCP18 / CCRA3 / CCRA4	2018-2025	RCP8.5; SSP5-8.5; SSP3-7.0	National adaptation planning and risk assessment
European Union	EU Adaptation Strategy COM(2018)738; JRC PESETA	2018	RCP8.5 + SSP5	EU-wide impact projections and policy analysis
Germany	KWRA 2021; Federal Climate Adaptation Act	2021, 2024	RCP8.5	Precautionary; underpins federal adaptation law
Canada	Canada's Changing Climate Report	2019, 2021	RCP8.5	National assessment; building-code climate inputs
Australia	ESCI, NARCIIM1.5; National Climate Risk Asmt.	2020-2024	RCP8.5	Federal/state risk; financial-disclosure standard
Japan	Climate Change Adaptation Plan; S-18 Project	2021-ongoing	RCP8.5; SSP5-8.5	Statutory impact assessment under Adaptation Act
Netherlands	KNMI'14 / KNMI'23 scenarios; Delta Programme	2014, 2023	RCP8.5; SSP5-8.5; SSP3-7.0	National flood, water and spatial-adaptation planning
Tokyo Metropolitan Gov.	Tokyo Climate Change Adaptation Plan	2019, 2021	RCP8.5	Sub-national adaptation planning (population ~14m)
NGFS (140+ central banks)	NGFS Climate Scenarios, Phases IV-V	2023-2024	NGFS Hot House World	Reference framework for central-bank stress testing
European Central Bank	Economy-wide CST; 2022 Supervisory CST	2021-2024	NGFS Hot House World	Stress test of 112 European banks; SREP capital guidance
Bank of England	Climate Biennial Exploratory Scenario (CBES)	2022	NGFS Hot House World	Stress test of UK banks and insurers (30-year horizon)
Reserve Bank of New Zealand	2023 Climate Stress Test ("Too Little, Too Late")	2023	NGFS Hot House World	Stress test of 5 largest NZ banks (~90% of bank loans)
US Federal Reserve	Pilot Climate Scenario Analysis	2023	NGFS scenarios	Pilot exercise with 6 largest US banks
Banque de France (ACPR)	30-year climate pilot stress test	2021	NGFS Hot House World	Stress test of French banks and insurers
World Bank	Country Climate & Development Reports; CCKP	ongoing	SSP5-8.5; SSP3-7.0	Climate diagnostics for 100+ client countries
FAO	Global Climate Risk Datasets	2022	SSP5-8.5	Agricultural and food-security risk maps
US EPA	EnviroAtlas "Changes Over Time"	2024-25	RCP8.5; SSP5-8.5	Federal regulatory and analytical baseline

Sources: NCA4/NCA5 (USGCRP); UKCP18 / CCRA Adaptation Reporting (Defra/CCC); EU COM(2018)738; UBA KWRA 2021; CC3R (ECCC/NRCan); ESCI / NCR4 (DOCEEIV); MOE Japan; KNMI; NGFS Phase IV/V; ECB OP No. 281; Bank of England CBES; RBNZ CST 2023; Federal Reserve Pilot CSA; Banque de France/ACPR; World Bank CCKP and CCDRs; FAO Global Climate Risk Datasets; US EPA EnviroAtlas. Produced at the direction of Roger Pielke Jr. at The Honest Broker on Substack.

