

# Major Elements of 7<sup>th</sup> Strategic Energy Plan

- While S+3E principles maintained, stronger focus on energy security reflecting geopolitical situation
- Higher power demand due to DX and GX → Secure CO2 free power sources by maximum use of both RE and nuclear → Eliminate “reducing dependence on nuclear as low as possible” since 2014
- Integrate energy policy and industrial policy (“GX2040 Vision”).
- Maximum introduction of RE while avoiding excessive dependence on specific power sources or fuel types.
- NPS restart with safety. Next-generation innovative reactors replacing existing ones. R&D of innovative reactors (e.g. fusion)
- Acknowledging uncertainties and range-based forecast
- ➔ A scenario of underachieving NDC due to slower penetration of clean technologies in addition to “all goes well” scenarios.

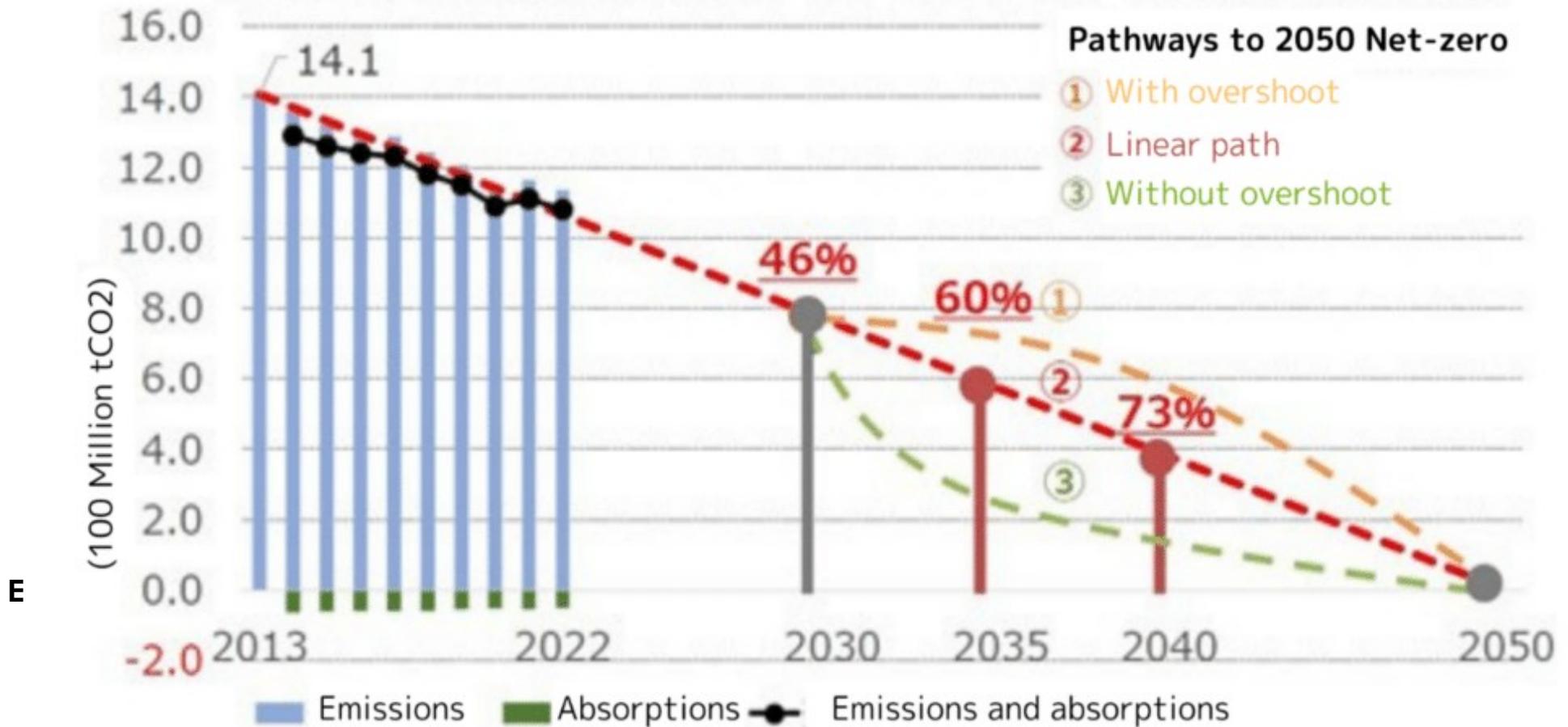
## Electricity Mix: current and target

	Current (2023)	2030 Targets	2040 Outlook
<b>Thermal power</b>	<b>68.6%</b> Coal 28.4% LNG 32.9% Oil 7.2%	<b>42%</b> Coal 19% LNG 20% Oil 2% Ammonia/Hydrogen 1%	<b>30–40%</b> (no breakdown provided)
<b>Renewables</b>	<b>22.9%</b> Solar 9.8% Wind 1.1% Hydro 7.6% Geothermal 0.3% Biomass 4.1%	<b>36–38%</b> Solar 14–16% Wind 5% Hydro 11% Geothermal 1% Biomass 5%	<b>40–50%</b> Solar 23–29% Wind 4–8% Hydro 8–10% Geothermal 1–2% Biomass 5–6%
<b>Nuclear</b>	<b>8.5%</b>	<b>20–22%</b>	<b>20%</b>

Source: Prepared by Climate Integrate based on Comprehensive Energy Statistics, 6th and 7th Strategic Energy Plans

# Japan's New NDC

46% reduction by 2030, Net-zero by 2050. Intermediate targets under debate



Source: METI Japan's Energy 2024

	RE	H2	CCUS
1. RE Expansion	High	Low	Low
2. H2 and E-Fuel Use	Low	High	Low
3. CCUS Use	Low	Low	High
4. Use all the above	High	High	High
5. Risk Scenario	Low	Low	Low

100 million t-CO2

Energy related CO2 emissions in 2040

