

# Comments on the paper of “Land of the rising sun and offshore wind”

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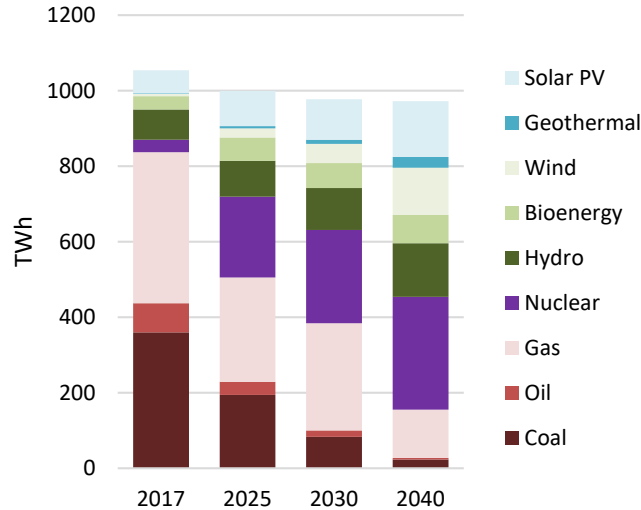
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# Questions to elaborate the messages from the report

- Electricity mix (Other than coal.. )
- Political background to stick on coal-fired power plant
- Policy recommendations

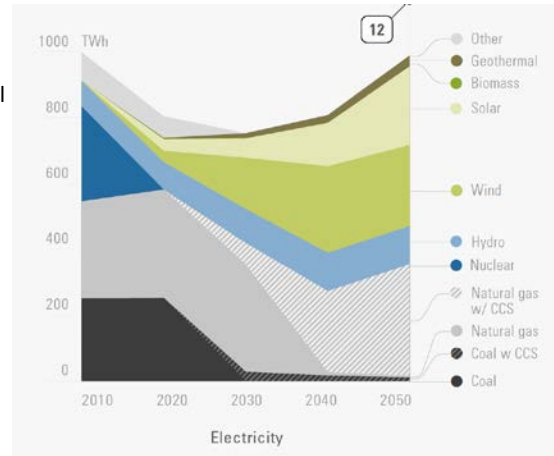
# Use of coal-fired power plant would decrease. But what is alternative source?

Renewable energy + nuclear



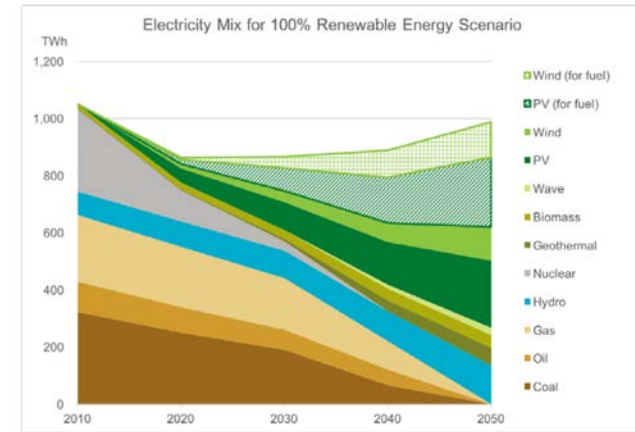
IEA World Energy Outlook 2017 SD scenario

Renewable energy + CCS gas-fire



Deep Decarbonization Pathway Project No Nuclear Scenario

Renewable energy



WWF\_ long-term scenarios for decarbnoization Japan

# How can we change the investors?

The risk of coal-fired power plant is obvious as highlighted in this report and the other previous studies.



Why, do you think, the investors still stick on coal-fired power plants?

- Technological uncertainty of the other zero-carbon power sources
- Reimbursement by government or path-through to consumers
- Employment issues of conventional power plant
- Energy security
- Capacity market
- Ignorance to climate change risk

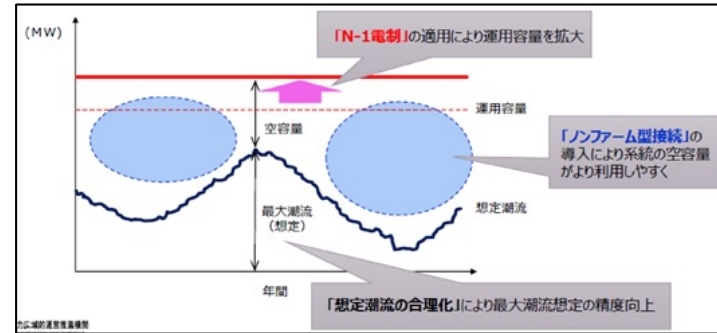
# This report provides important policy recommendations

## Phase-out coal

- Potential of renewable and related technology
  - Battery
  - VPP
- People's preference
  - Independent power against Natural disasters
  - ZEH, ZEB
- Electricity demand could be increased but should not be supported by coal
  - Hybrid cars + gasoline > EV + coal w/o CCS
  - CCS feasibility

## Change the operation rule of electricity system

Current change of rule by TEPCO



Source : OCCT



Need to be applied for the other sub-region<sup>5</sup>.