



# Global EV Outlook 2021

Dr Timur Gül, Dr Jacopo Tattini

IEEJ Global Energy Webinar, 11 May 2021

# The Clean Energy Ministerial's Electric Vehicles Initiative



## Members (2020-21)



## Activities:

- **Analysis**
- **Commitments**
- **Collaborative projects**



Coordinator 



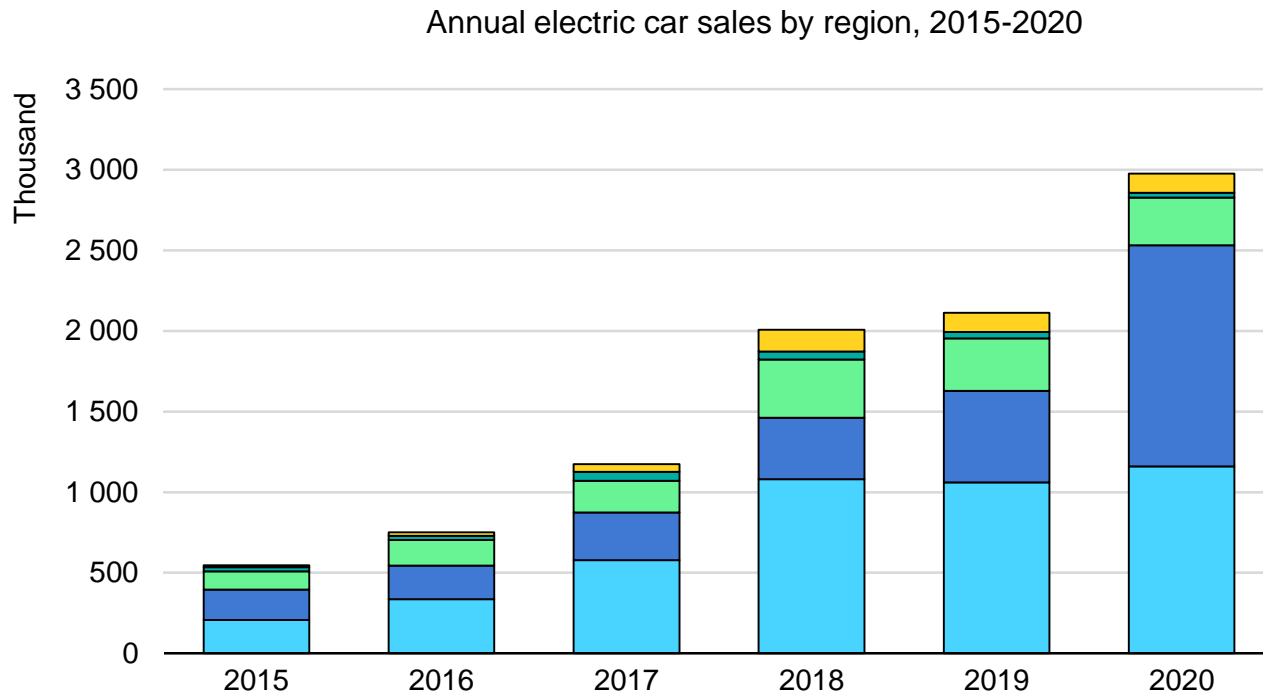
## Global EV Outlook 2021

Accelerating ambitions despite the pandemic



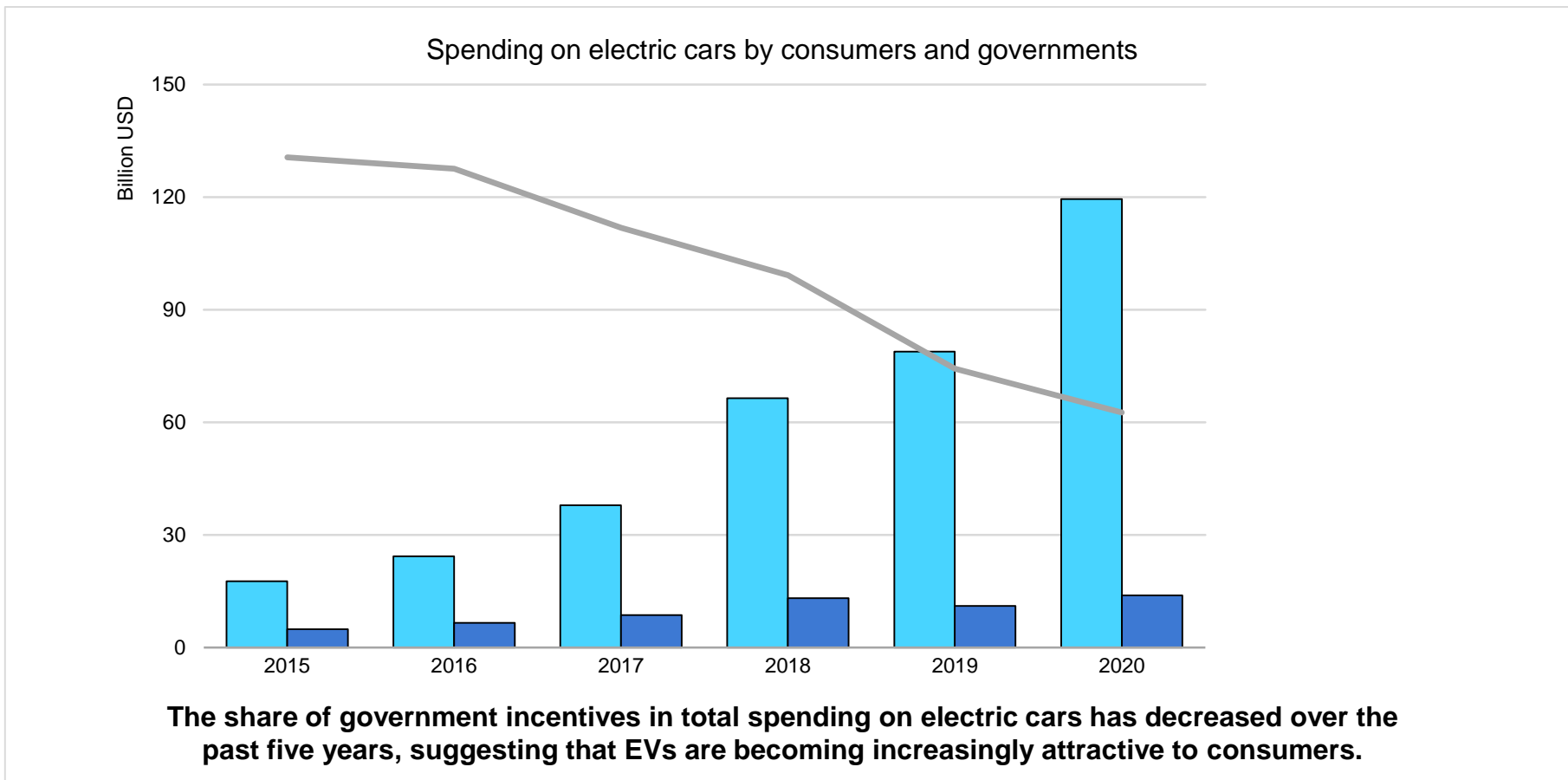
International  
Energy Agency

# Electric car sales were resilient to the pandemic



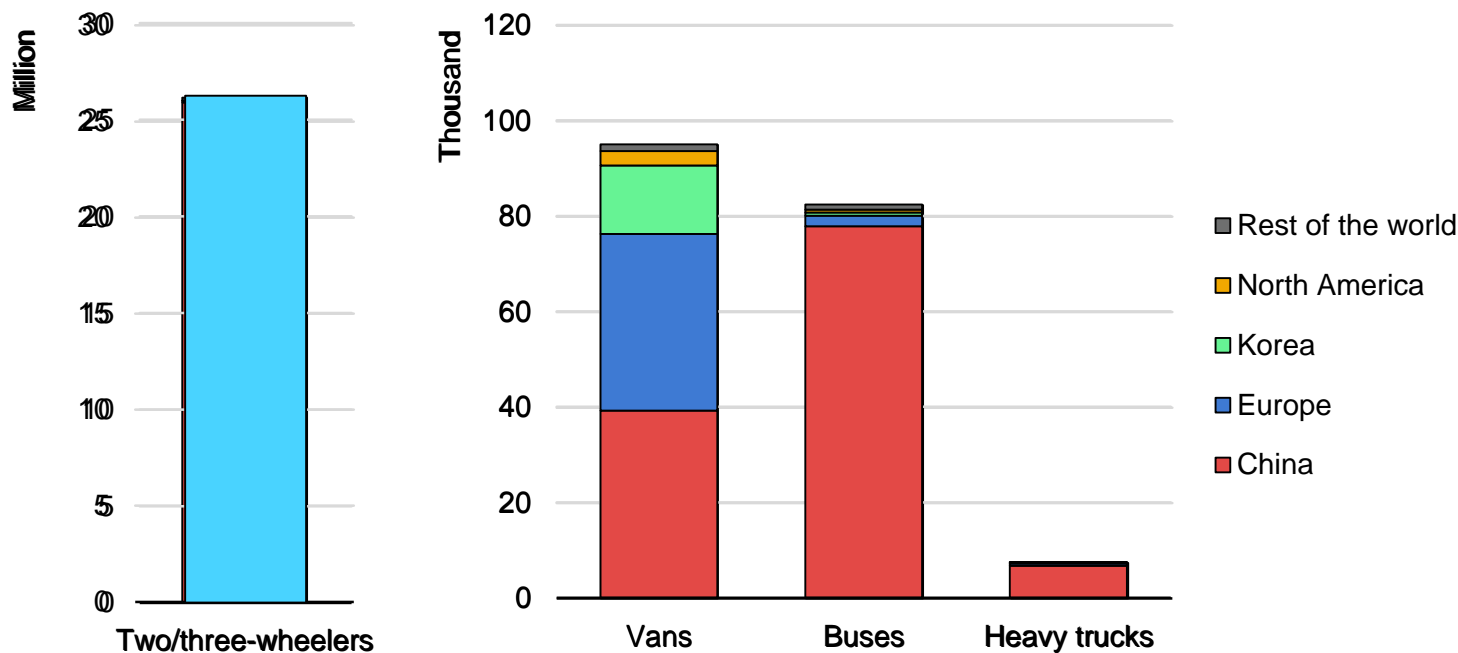
**Global electric car sales rose by 41% in 2020 despite falling overall car sales. Europe became the largest electric car market for the first time, overtaking China.**

# Consumer and government spending on electric cars is evolving



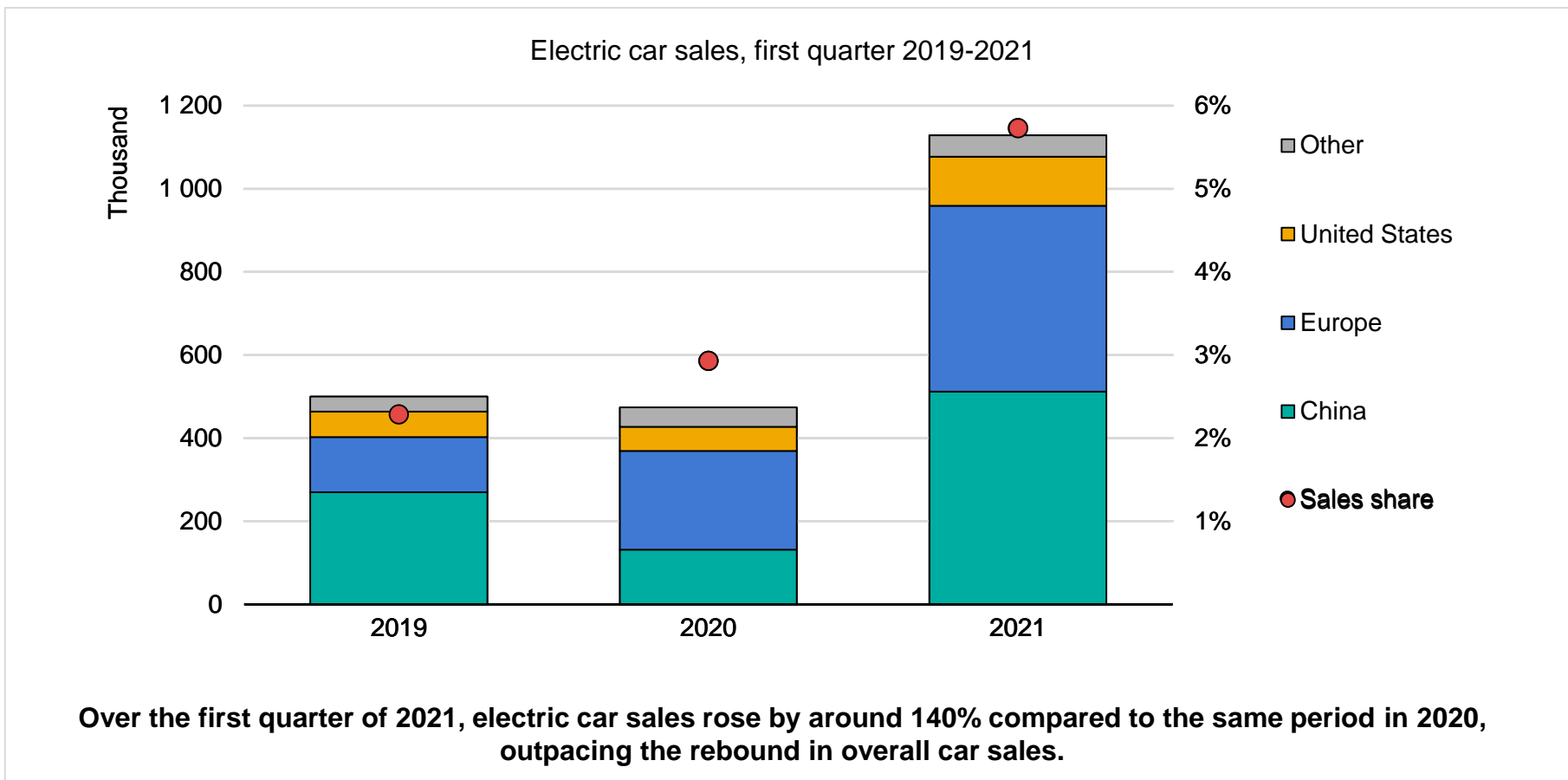
# Road transport electrification is not just about cars

Electric vehicles sales by transport mode and region, 2020

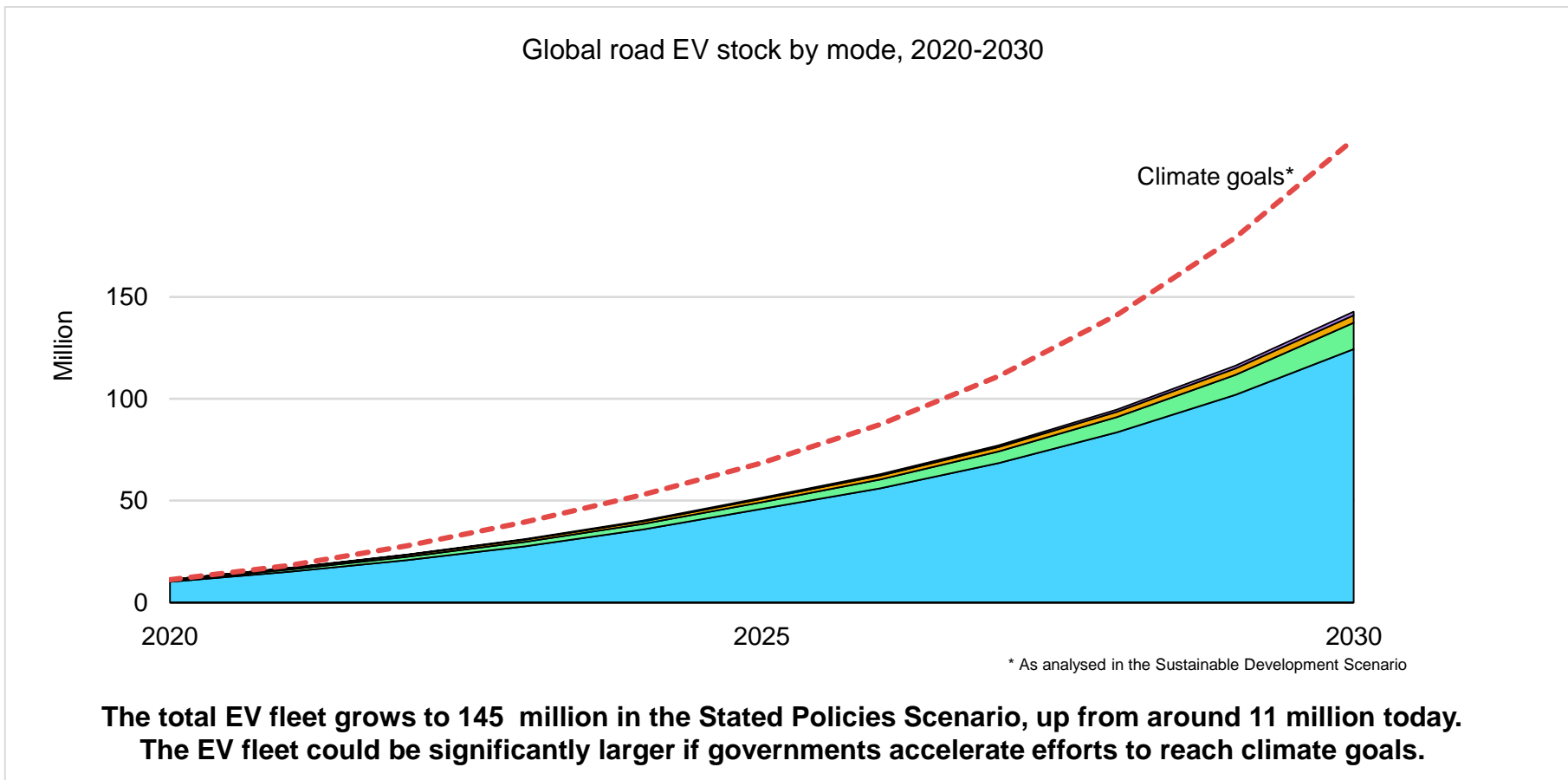


**Sales of electric two-and three-wheelers are one order of magnitude higher than sales of electric cars. The electrification of other modes is lagging behind but is rising.**

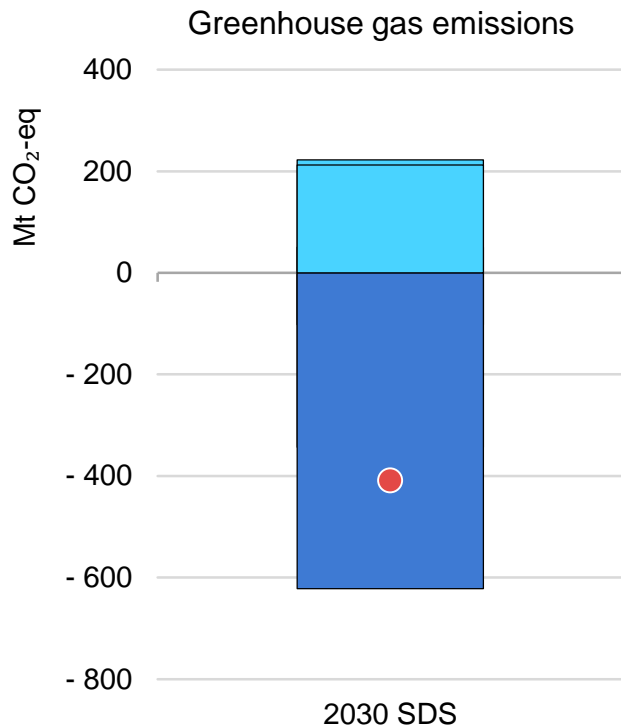
# Early signals for continued momentum in 2021



# EVs penetrate all road transport modes by 2030



# How EVs support climate goals



**EVs will continue contributing to net reductions in GHG emissions, especially as the electric grid decarbonises.**



# Conclusions



- Global EV sales in 2020 were resilient to the impacts of the pandemic on the back of existing regulatory frameworks and subsidies; early market signals in 2021 suggest continued momentum in key markets.
- Recovery packages are an opportunity to accelerate the transition to electric mobility across the entire supply chain; in 2020, charging infrastructure roll-out kept pace with EV growth.
- Existing policies & industry plans suggest that the next decade is set to see much more widespread adoption of EVs; but to reach ambitious climate goals, further action is required in three key areas:
  - Accelerate the transition to e-mobility such as by tightening fuel economy standards and enacting zero-emissions vehicle mandates.
  - Roll-out recharging infrastructure and develop sustainability frameworks for batteries.
  - Decarbonise power generation to fully reap the environmental benefits of EVs.



Contact : [report@tky.ieej.or.jp](mailto:report@tky.ieej.or.jp)