

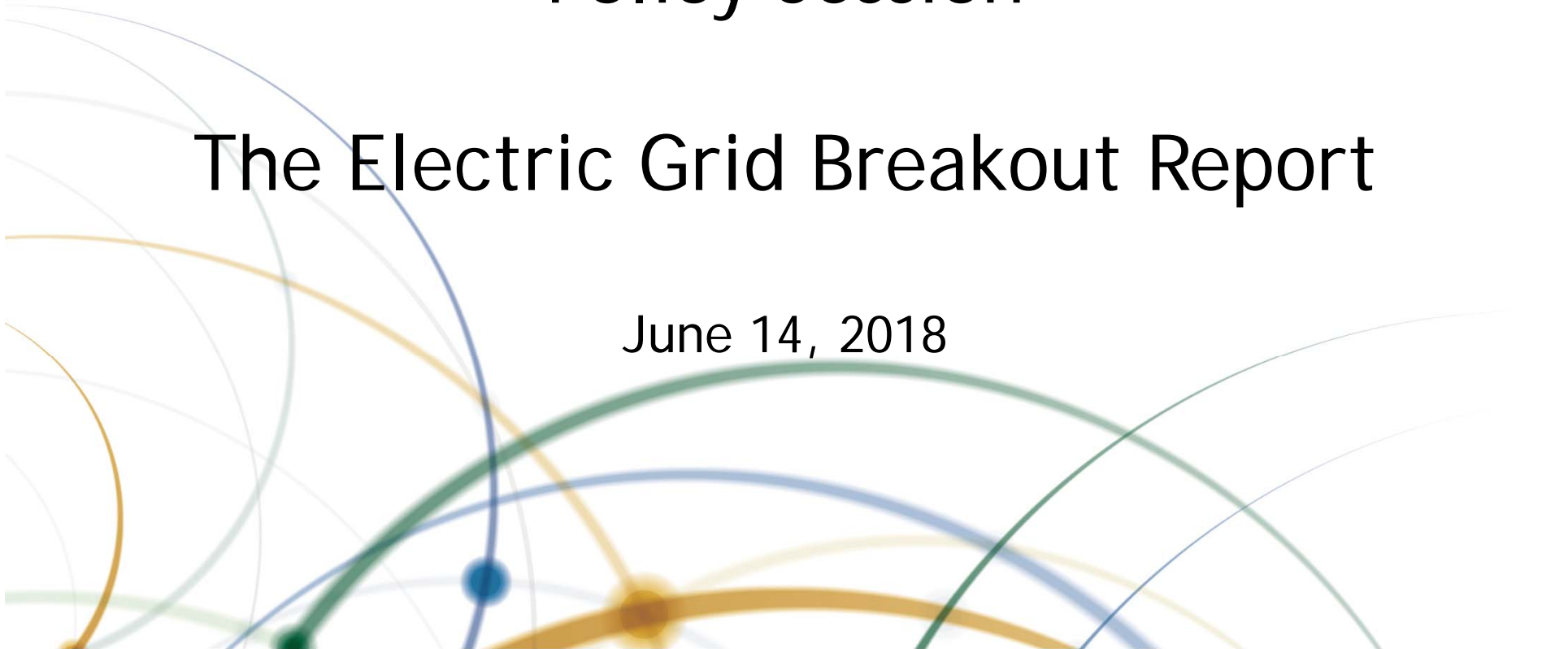
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TRANSPORTATION RESEARCH BOARD

June 2018 Executive Committee Policy Session

The Electric Grid Breakout Report

June 14, 2018



Key Themes

- Grid reliability and capability management are generally sufficient for ev rollout. Various generation alternatives exist (natural gas generation, delaying coal plant retirements, renewable energy, etc.).
- Key issue for grid is achieving cost effectiveness with scale up, especially for charging infrastructure (either fixed or induction).
- Multiple alternative fuels will likely compete for the foreseeable future (hydrogen, cng, electric, etc.)

Potential Actions

- Multiple demonstrations and data sharing would aid scale up of ev use. Example: kilowatt road tax.
- Cybersecurity continues to be a concern.
- Standardization of charging technology.
- Role of the multiple incentive programs for vehicle purchase and infrastructure need continual attention as conditions change.
- Study of alternatives for financing, ownership and management of batteries and infrastructure would be of interest.