

再エネ主力エネルギー化 量の確保とコスト低減

第三回気候変動有識者会議

ブルームバーグNEF

在日代表

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再エネは2030年46%削減に最優先 電化及び省エネとセットでの再エネ

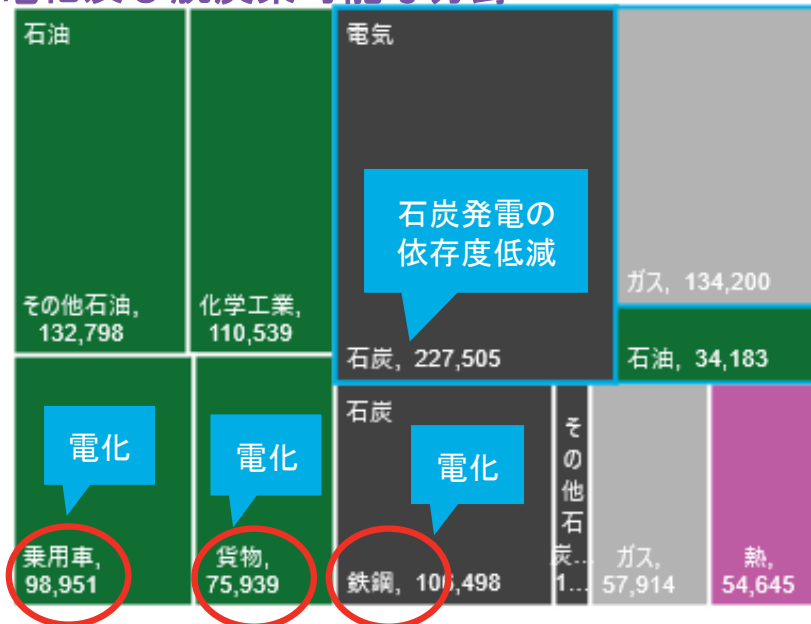
再エネの拡大による利益

- 電力分野の脱炭素
 - 石炭火力発電の依存度低減
- 電力以外の分野の脱炭素
- 日本企業の競争力維持と強化
 - 再エネが商取引の条件となる

電化と再エネで脱炭素可能な分野例

- 交通: 乗用車及び貨物自動車の電化
- 鉄鋼: 電炉への切り替え

エネルギー消費起源の排出量内訳及び 電化及び脱炭素可能な分野



Source: 経産省、BloombergNEF Note: BNEF推計値

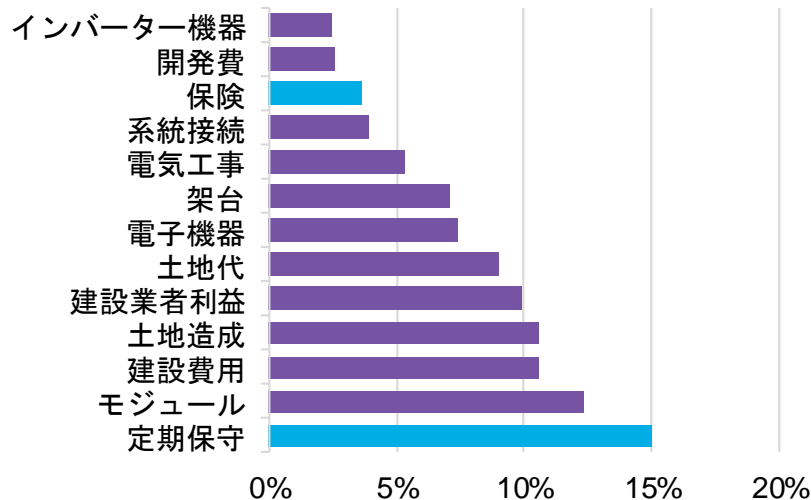
再エネ量の確保とコスト低減の同時達成

具体的な政策例

- 土地利用改革（耕作放棄地、未利用地）
- 政府・地方自治体主導の入札制度
 - － 適地の確保+地元との調整+環境アセスメント済+系統接続が確約された集中型入札（セントラル式）
- 積極的な屋根上太陽光の活用
 - － 住宅、商業施設、工業地帯、倉庫などあらゆる建物
- 導入早期化
 - － 再エネの環境アセスメントの期間短縮化
- コスト低減のためのデジタル化

太陽光発電のコスト削減例 集中型入札導入された場合の削減可能項目

太陽光発電均等化発電コスト内訳



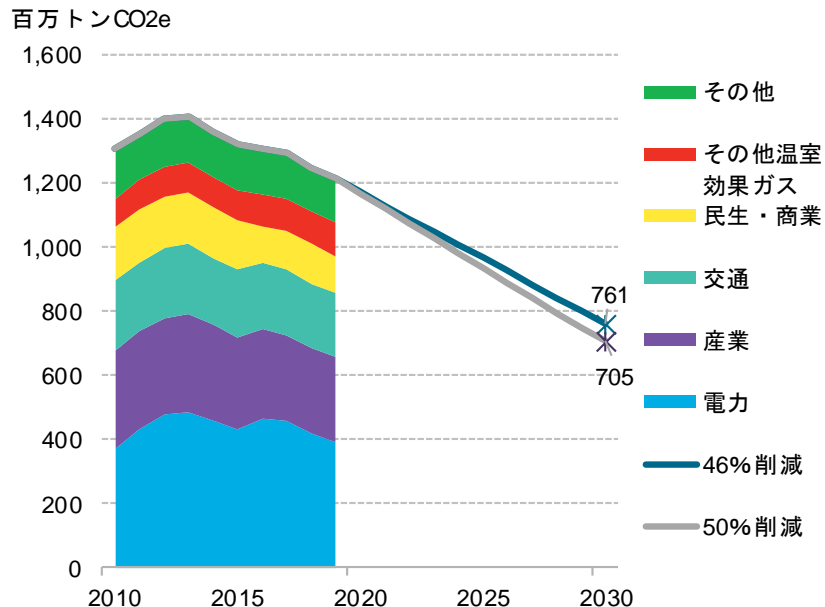
Source: BloombergNEF Note: 紫色は集中型入札制度が導入された場合に削減が可能な項目

原子力発電稼働のための課題

- 安全審査の遅延
 - 再稼働時期の見通しが立てにくい
- 中間貯蔵施設の確保
- 老朽化施設の保守と安全対策費用の増加
- 訴訟リスク及び費用
- 新增設のファイナンスリスク
- 自然災害の増加と安全性
- 国民の理解
- ガバナンス

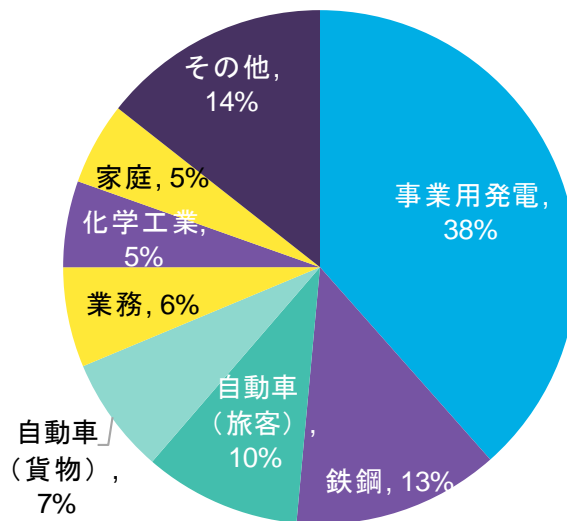
日本の排出量内訳と46%削減 電力、鉄鋼、交通の低炭素化が鍵

2030年46%削減への道筋



Source: 国立環境研究所、BloombergNEF

セクター別二酸化炭素排出量内訳 2019年度

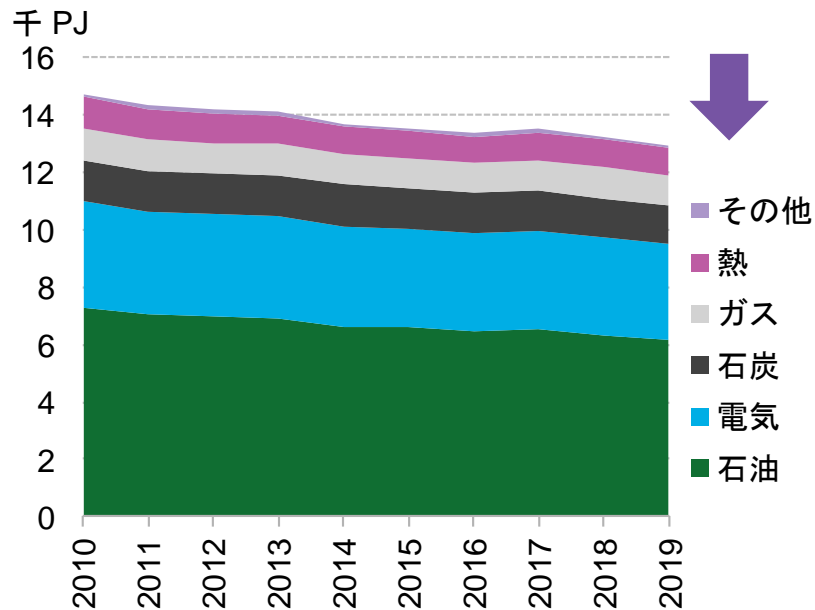


Source: 国立環境研究所、BloombergNEF

2030年までの低炭素化の方策

エネルギー効率化、電化、再エネ

最終エネルギー消費



Source: 経済産業省、BloombergNEF

排出量削減の方策

- エネルギー消費量を下げる
- 電気の比率を上げる
- その電気を再エネで賄う

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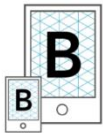
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