

我國能源供需結構階段性發展策略規劃

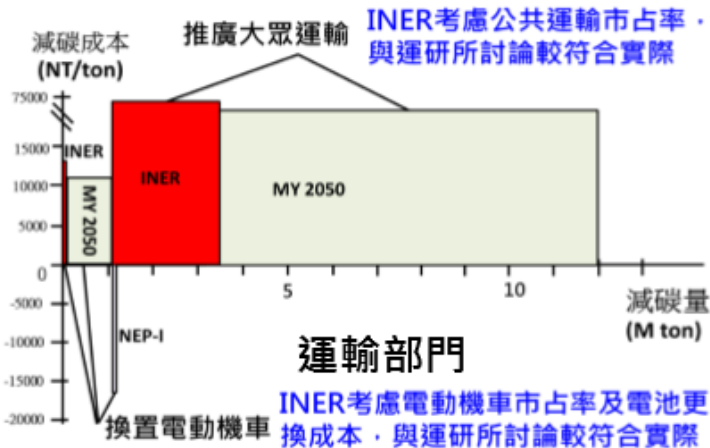
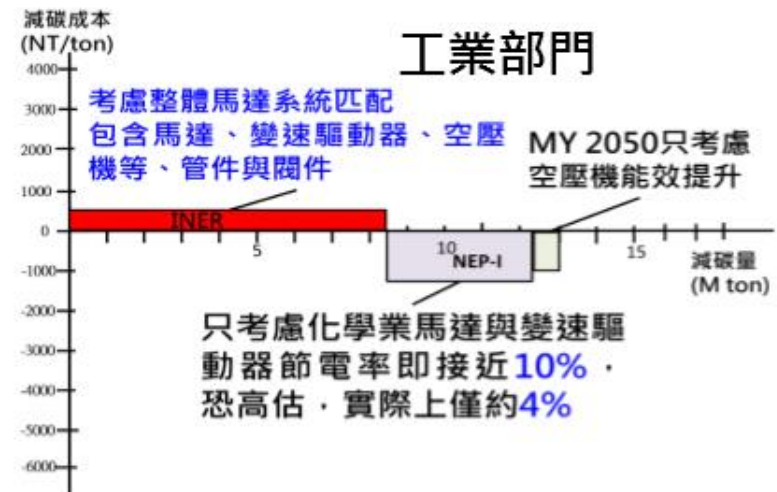
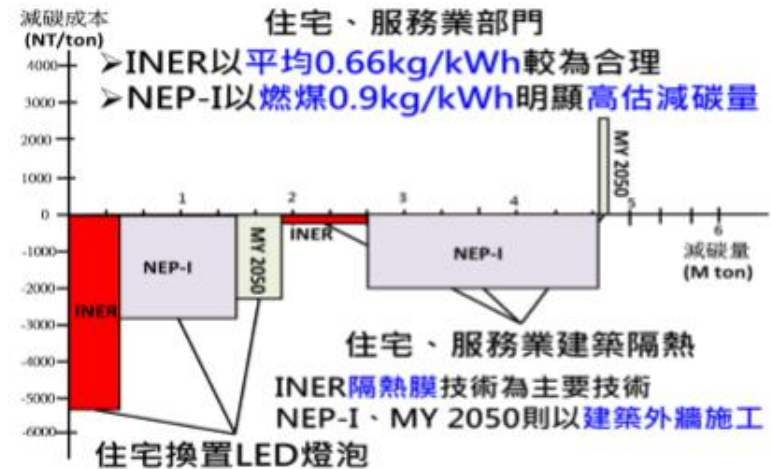
執行單位

行政院原子能委員會核能研究所

計畫主持人

葛復光

- 本計畫進行我國需求部門技術盤點，提出能源需求部門的節能技術研發對我國能源使用量、碳排放量之影響，明年度計畫可針對既定的中長期減碳目標(2030年INDC及2050年溫減法)情境進行分析，分析歸納出階段性減碳目標之建議及所需代價，完成「能源供需結構階段性發展策略規劃」。



- 本兩年期計畫進行能源需求部門節能技術的科技研發對中長期電力結構影響與效益分析，第一年進行我國需求部門技術盤點，提出各部門包含之技術項目、技術成本、進入時點與其節能減碳潛力；第二年針對既定的中長期減碳目標(2030年INDC及2050年溫減法)情境進行分析，探討能源需求部門的節能技術研發對我國能源使用量、碳排放量之影響，並評估其二氧化碳減量效益及經濟衝擊評估，藉由觀察2020及2040年階段性的碳排放量與關鍵參數的相互關係與對經濟之衝擊，歸納出階段性減碳目標之建議及所需代價，完成「能源供需結構階段性發展策略規劃」。

Stage Development Strategic Plan for Taiwan 's Structure of Energy Supply and Demand

Execution Unit

Institute of Nuclear Energy Research

Project Director

Fu-Kuang Ko

- The project will investigate the influence of advances in energy saving technologies in energy demand sectors and the structure of energy supply and demand for medium- and long-term. The influences of advances in energy saving technologies in energy demand sectors on energy demand and carbon emission are analyzed, and the benefit of CO₂ emission reduction is also estimated. The results can be served as a reference for stage development strategic plan for Taiwan's structure of energy supply and demand.

- The project will investigate the influence of advances in energy saving technologies in energy demand sectors and the structure of energy supply and demand for medium- and long-term. The energy saving technologies in industry, service, transport and residential sector are analyzed. The project will observe the relationships among the amounts of carbon emissions and the critical factors in 2020 and 2040. Finally, the suggestion of stage of carbon emission reduction and the cost can be concluded by quantitative and qualitative studies.