附錄

附表 運輸部門行動方案推動策略及措施執行狀況表

行動方案 具體措施或計畫	主辦機關	預期效益	執行狀況 (統計至 109 年 6 月 30 日)							
71/241 000(1)	策略一、「發展	夏公共運輸系統,加強	, , , , , , , , , , , , , , , , , , , ,							
一、提升公路公共 運輸運量	交通部	109 年公路公共運輸 載客量較104年成長 2%,達12.44億人次	1.108 年公路公共運輸載客量為 12.39 億人次,較 104 年成長 1.77%。 2.109 年 1~6 月運量為 5.04 億人次, 則較 104 年 1~6 月減少 16.16%, 較 108 年 1~6 月減少 17.39%。							
二、提升臺鐵運量	交通部	109 年將較 104 年成 長 2%,總運量達 2.37 億人次	1.108年臺鐵客運量合計 2.36 億人次, 較 104 年同期成長 1.69%。 2.109 年 1~6 月鐵路客運量為 0.94 億 人次,較 104 年 1~6 月減少 18.73%, 較 108 年 1~6 月減少 19.42%。							
三、提升高鐵運量	交通部	109 年運量達 6,300 萬人次,相較 104 年 提升約 24.6%	1.108 年高鐵客運量為 6,741 萬人次, 較 104 年提升 33.32%。 2.109 年 1~6 月高鐵運量為 2,478 萬 人次,較 104 年 1~6 月增加 0.05%, 較 108 年 1~6 月減少 25.29%。							
四、提升捷運運量	地方政府交通局 捷運公司	109 年運量約達 9.03 億人次,相較 104 年 約提升 16.1%	1.108 年捷運運量為 8.89 億人次,較 104 年成長 14.36%。 2.109 年 1~6 月捷運運量為 3.56 億人 次,較 104 年 1~6 月減少 6.69%, 較 108 年 1~6 月減少 17.95%。							
策略二、「建	構綠色運輸網絡	,推廣低碳運具使用,	建置綠色運具導向之交通環境」							
一、環島鐵路電氣	化									
1.花東線鐵路 瓶頸路段雙 軌化暨全線 電氣化計畫	交通部	 臺北至臺東自強號由每週98班次增加為158班次 年減碳排放量10,420.48噸(相當於28座臺北大安森林公園) 	1.本計畫於 107 年 6 月 30 日完成。 2.目前臺北至臺東自強號增加為每 週 161 班次,高於計畫目標之 158 班次。							
2.臺鐵南迴鐵 路臺東潮州 段電氣化工 程建設計畫	交通部	1. 縮短高雄直達臺 東行車時間約30 分鐘減少二氧化 碳及廢氣排放	1.南迴鐵路電氣化案截至 109 年 6 月 底工程進度為 94.44%,預計通車日 期為 109 年 12 月底。							

行動方案			執行狀況				
具體措施或計畫	主辨機關	預期效益	(統計至 109 年 6 月 30 日)				
		2. 每年減碳 9,304 噸(約 25 座大安 森林公園)	2.南迴鐵路電氣化原定 110 年通車, 已加緊趕工,預計提前至 109 年底 通車。				
二、電動運具推廣							
1.市區公車全面電動化整體發展計畫	交環保署	就行府最大施向面規 與一次 就行及 一個 一個 一個 一個 一個 一個 一個 一個 一個 一個 一個 一個 一個	針對2030年公車電動化政策目標, 已訂定具體時程並推動執行中。規期 (112-115年)及普及期(116-119年)等 3階段推動。另外,補助方案分類 般型」與「示範型」計畫核定之11 無電動大客車,109年1 和電動大客車,109年1 多日發布「交通部動大客車示範型計畫:交通部數大客車,超數 計畫:交通部數大客車,規劃3年500 輔(109-111年)規模以計畫更 時(109-111年)規模型計畫與 對達養養養養養養養養養養養養養養養養養養養養養養養養養養養養養養養養養養養養				
2.推動電動機車	經濟部	107-109 年推動 12.1 萬輛電動機車	1.經濟部推動電動機車產業策略, 107~111 年以整合產業鏈、開發滿 足消費族群需求之電動機車、擴大 設置能源補充設施為階段性目標。 2.針對影響電動機車鎖量之關鍵因 素—燃油與電動機車售價、縮短短 來將以降低電動機車售價、縮 電動化轉型。此外亦將持續以提升 能源補充設施普及率為強化及推 動目標。 3.107 年新掛牌電動機車數為 8 萬 2,483 輛,108 年新掛牌電動機車數 達 16 萬 8,537 輛,109 年 1~6 月新 掛牌電動機車數 4 萬 2,280 輛,107 年至 109 年 6 月累計達 29 萬 3,300 輛。				

行動方案 具體措施或計畫	主辦機關	預期效益	執行狀況 (統計至 109 年 6 月 30 日)				
3.推廣電動汽車	經濟部	誘導產業升級轉型 開發各型式電動機 動造 場	1.配合國家建議書明書籍 (書) (書				
4.推動電動 公務車	主計總處	修關學中央政府各機 質學中與 對學中與 對學中, 對學學中, 對學學, 對學學, 對學學, 對學, 對學, 對學, 對學, 對學, 對學,	1.行政院主計總處於 108 年 4 月 15 日函頒「109 年度中央及地方政府 預算籌編原則」及共同性費用編 列基準表,並賡續於 110 年度共 同性費用編列基準表訂修配套措 施,提供電動車、電動機車及電 能補充設施等費用項目之編列基 準,做為各機關實際汰購電動車 33 輛及電動機車 108 輛,109 年預算 各機關預計汰購電動車 56 輛及電 動機車 108 輛;110 年預算案預計 汰購電動車 40 輛及電動機車 148 輛。				
5.推動電動 郵務車	中華郵政公司	112 年汰換全部所有 汽油車後,每年可減 少碳排放量 6,125 噸	1.累計至 108 年底,已購置 1,441 輛及租賃 1,000 輛電動機車、購置 42輛電動四輪車,另尚未採購電動三輪車。 2.109年底預計購置 800 輛電動機車、12輛電動四輪車。				

行動方案			執行狀況							
月點力系具體措施或計畫	主辦機關	預期效益	(統計至 109 年 6 月 30 日)							
6.電動船行動 策略	交通部	逐步汰換日月潭登 記有案之138艘柴油 船為電動船	1.108 年補助 1 艘柴油船汰換為電動船。 2.105 年至 108 年累計補助 11 艘。							
7. 電動 蔬 果 輸運車計畫	環保署	106-108 年間推動 500 輛電動蔬果運輸 車	1.環保署 107 年計推廣 50 輛電動蔬果運輸車。 2.配合空氣污染防制行動方案刪除電動蔬果輸運車計畫,因此 108- 109 年並無推動進展,後續推動將回歸地方政府依實際需求辦理。							
策略三、「提升運輸系統及運具能源使用效率」										
一、新車效能提升	經濟部	國內111年整體小客車、小貨車及機車能源使用效率將較106年提升38%、25%及10%	1.為因應我國 111 年之下階段車輛能 效新標準,目前國內車輛廠商已開 始積極對應並導入高能源使用效 率之車型及新能源車輛(電動車)。 2.截至 109 年 6 月 30 日止,國內廠 商依能源局「電動車自願性能源效 率標示作業要點」,業已完成電動 機車自願性能源效率標示之申 計有 57 車型。 3.109 年 2 月 5 日經濟部會銜交通部 修正發布「車輛容許耗用能源標 及檢查管理辦法」,要求國內廠商 電動車輛自 111 年起,皆須辦理「強 制性」之資訊揭露。							
二、智慧運輸系 統發展建設 計畫	交通部 地方政府	106-114 年全臺合計 可節省時間 9,926 延人 小時,減碳7萬1,963 公噸(六都可節省,563 公噸(六都可節省,564 五人小時,減碳5萬 4,444 公頓;北量人 道645萬1,340延人小 時,減碳1萬7,519 公噸)	1.預估至 108 年 12 月底,全臺可節省時間 226 萬 5,284 延人小時,其中六都可節省時間 171 萬 2,312 延人小時;北宜廊道可節省時間 55 萬 2,972 延人小時。 2.108 年節省壅塞時間較 106 年降低15%,估計二氧化碳排放量較 106年減少 5.47 萬公噸。							
三、汰換老舊車輛	į									
1.多元車輛服 務-補助汰換 未符合 4 期	交通部	汰換 1,200 輛未符合 環保排放標準之老 舊公車	1. 各年度汰舊換新補助數量如下: (1)105 年市區客運 326 輛,公路客 運 133 輛。 (2)106 年市區客運 180 輛,公路客							

行動方案 具體措施或計畫 環保標準之 公車	路客
環保標準之 公車 (3)107年市區客運 236 輛,公 運 47 輛。 (4)108年市區客運 96 輛,公 運 4 輛。 (5)109年市區客運 25 輛,公	路客
公車	路客
選 47 輛。 (4)108 年市區客運 96 輛,公 運 4 輛。 (5)109 年市區客運 25 輛,公	路客
運 4 輛。 (5)109 年市區客運 25 輛,公	
(5)109 年市區客運 25 輛,公	路客
	田田
2.至109年7月,未符合四期環	保排
放標準之老舊公車已降低至	331
· · · · · · · · · · · · · · · · · · ·	
1.依據 108 年底行政院核定之空	氣污
染防制行動方案,目標修正為	預計
107-108 年淘汰二行程機車 5	0 萬
2. 汰換二行程 107~108 年淘汰二 輛。	
機車 環保署 行程機車 105 萬輛 2.另補助辦法已改為「機車汰舊	換新
補助辦法」,於 109 年至 109	年 6
月淘汰老舊機車(含二行	程 機
車)317,630 輛。	
2 : 1 4 1 2 2 出 2	油車
3.汰換1~2期之 補助 7.9 萬輛高污染 汰舊換新補助辦法」後,107 至	109
柴油大型車 環保署 柴油大型車淘汰或 年6月,統計1~3期大型柴油車	已報
善 	
1.城際客車 600 輛案:	
107年12月26日決標, 履約	中,
辦理車輛細部設計,預定 110	年 5
月開始交車。	
2. 區間客車 520 輛案:	
107年5月31日決標,履約中	,
已完成車輛細部設計,預定1)9
4. 臺鐵整體購 預定採購600輛城際 年10月開始交車。	
名· 室鐵 定	
車、127 輛機車及 60 本次採購 102 輛,餘以後續擴	充
輔支線客車 方式購供,108年10月8日	<u>,</u>
標,履約中,辦理初步設計,	預
定 111 年 11 月開始交車。	
4. 支線客車 60 輛案:	
配合軌道產業國產化政策,協	助
扶植國內軌道產業發展,目前	修
訂招標文件中,預定 109 年底	前
公告招標。	

各部門2016年至2020年總排放目標建議

• 各部門5年加總排放目標建議

- 加總 2016 年至 2019 年推估結果及 2020 年之務實調整方案。 (溫管法之階段管制目標需明定國家及部門別五年加總之管制總量)

百萬噸碳當量	2016年	2017年	2018年	2019年	2020年	部門5年總量	
能源部門	31.405	34.255	32.829	32.345	32.305	163.139	
製造部門	149.384	150.434	148.262	146.919	146.544	741.543	
運輸部門	38.361	37.951	38.024	38.116	37.211	189.663	
住商部門	60.815	61.914	59.826	58.76	57.53	298.845	
農業部門	5.279	5.25	5.09	5.25	5.318	26.187	
環境部門	3.913	3.717	3.52	3.508	3.496	18.154	
國家總量	289.157	293.521	287.551	284.898	282.404	1437.531	

註:燃料燃燒逐年排放採經濟部能源局彙整之數據;非燃料燃燒逐年排放部分,農業及環境部門採部會提供逐年數據,製造部門採2015年及 2020年內插計算。其中農業2019年、2020年考量糧食安全較推估為高。

資料來源:環保署 106 年 10 月 17 日「溫室氣體階段管制目標研訂及部門減量配額規劃」會議簡報

附圖 1 106 年各部門排放目標建議

附錄、我國溫室氣體排放量統計-溫管法部門別分類

能源音	門	製造音	ൌ	運輸	部門	住商音	門	農業	部門	環境語	椚	GHG 排放總量	碳匯量	GHG 淨排放量
35.475	12.29%	143.353	49.66%	37.988	13.16%	57.448	19.90%	7.071	2.45%	7.327	2.54%	288.664	-21.918	266.746
37.060	12.47%	150.420	50.61%	37.929	12.76%	58.792	19.78%	6.174	2.08%	6.829	2.30%	297.204	-21.861	275.343
37.869	12.63%	154.433	51.50%	36.704	12.24%	58.858	19.63%	5.552	1.85%	6.442	2.15%	299.858	-21.650	278.208
34.372	12.14%	144.382	50.97%	34.603	12.22%	58.307	20.59%	5.866	2.07%	5.714	2.02%	283.244	-21.631	261.613
33.115	12.35%	133.045	49.63%	34.925	13.03%	56.662	21.14%	5.460	2.04%	4.868	1.82%	268.075	-18.911	249.164
34.995	12.27%	147.562	51.74%	36.071	12.65%	56.788	19.91%	5.372	1.88%	4.423	1.55%	285.211	-21.413	263.798
35.356	12.16%	152.645	52.48%	36.563	12.57%	56.912	19.57%	5.409	1.86%	3.986	1.37%	290.872	-21.470	269.402
34.917	12.21%	150.664	52.68%	35.734	12.50%	55.462	19.39%	5.552	1.94%	3.654	1.28%	285.983	-21.484	264.499
34.666	12.06%	153.482	53.41%	35.668	12.41%	54.753	19.05%	5.490	1.91%	3.324	1.16%	287.384	-21.498	265.886
37.596	12.99%	151.122	52.21%	36.158	12.49%	55.880	19.31%	5.572	1.93%	3.124	1.08%	289.453	-21.410	268.043
37.472	13.00%	148.650	51.55%	37.041	12.85%	56.756	19.68%	5.529	1.92%	2.886	1.00%	288.334	-21.425	266.909
37.614	12.87%	149.356	51.10%	38.155	13.05%	58.791	20.12%	5.543	1.90%	2.804	0.96%	292.263	-21.451	270.812
38.219	12.85%	151.711	51.02%	37.828	12.72%	61.330	20.62%	5.551	1.87%	2.724	0.92%	297.363	-21.482	275.881
38.377	12.98%	154.132	52.11%	36.785	12.44%	57.900	19.58%	5.811	1.96%	2.752	0.93%	295.758	-21.507	274.251
37.885	13.19%	148.255	51.60%	36.998	12.88%	55.638	19.36%	5.787	2.01%	2.752	0.96%	287.315	-21.507	265.808
	35.475 37.060 37.869 34.372 33.115 34.995 35.356 34.917 34.666 37.596 37.472 37.614 38.219	37.060 12.47% 37.869 12.63% 34.372 12.14% 33.115 12.35% 34.995 12.27% 35.356 12.16% 34.917 12.21% 34.666 12.06% 37.596 12.99% 37.472 13.00% 37.614 12.87% 38.219 12.85% 38.377 12.98%	35.475 12.29% 143.353 37.060 12.47% 150.420 37.869 12.63% 154.433 34.372 12.14% 144.382 33.115 12.35% 133.045 34.995 12.27% 147.562 35.356 12.16% 152.645 34.917 12.21% 150.664 34.666 12.06% 153.482 37.596 12.99% 151.122 37.472 13.00% 148.650 37.614 12.87% 149.356 38.219 12.85% 151.711 38.377 12.98% 154.132	35.475 12.29% 143.353 49.66% 37.060 12.47% 150.420 50.61% 37.869 12.63% 154.433 51.50% 34.372 12.14% 144.382 50.97% 33.115 12.35% 133.045 49.63% 34.995 12.27% 147.562 51.74% 35.356 12.16% 152.645 52.48% 34.917 12.21% 150.664 52.68% 34.666 12.06% 153.482 53.41% 37.596 12.99% 151.122 52.21% 37.472 13.00% 148.650 51.55% 37.614 12.87% 149.356 51.10% 38.219 12.85% 151.711 51.02% 38.377 12.98% 154.132 52.11%	35.475 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は、施運即行、形成部行(月原工)来、設全部設施日本見が成り、手能の即行(形成元)来、設全地配外成別)、<u>海域国行、</u>、派成部行(長班市大阪市内)大阪市民、設全地路・日本の東海市 <mark>運輸動門、北京部行(増</mark>物 (新雄機)等、生態部門**行機** (電力所放分機) (生態間) (振節門行(日本 機力機) (表現 力 (放入機)) + 能源即行(服務業(燃料燃燒+電力排放分機) <u>農業部門</u>:能源部門/機(本油牧 (燃料燃燒・電力排放分機) + 農業副門:<mark>理機部門</mark>:森葉物部門(不含電力排放分機)

環保署(109年6月),「109國家灣冊審護會資料」,其中,燃料燃燒電力腓放來自能源局109年7月公告數據,環保署(108年9月27日)「非燃料燃燒溫室氣體排放統計及趨勢推估」

資料來源:行政院 109 年 8 月 25 日「第二期溫室氣體階段管制目標研商會議(住商、運輸、環境與農業部門)」之 「第二期階段管制目標 部門分配建議草案」簡報