Transport: Aviation Efficiency

Design of aircraft increases in efficiency from using lighter weight, high-strength materials. Engines used at higher temperatures and pressures. Equipment installed on-board (for entertainment, for example) increases weight and therefore decreases efficiency. The number of seats on board has been increasing and is desirable for increasing efficiency. The energy intensity and gives a measure of how efficient an aircraft is (i.e. lower energy intensities mean greater efficiencies).

Level 1
Efficiency improves at a rate equivalent to 0.5% per year for 20 years

Level 2
Efficiency improves at a rate equivalent to 1% per year for 20 years

Level 3
Efficiency improves at a rate equivalent to1.2% per year for 20 years,

Level 4
Efficiency improves at a rate equivalent to 1.4% per year for 20 years.

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Default Timing Start Year: 2025 End Year: 2050

Sub-Lever	Units	2015	Level 1	Level 2	Level 3	Level 4
Energy Intensity						
Domestic	Index	1	0.85	0.7	0.65	0.6
International	Index	1	0.85	0.7	0.65	0.6
Plug-In Hybrid Electric Share						
Domestic	share	0	0	0	0.25	0.5
International	share	0	0	0	0.25	0.5