

Electrification of home cooking

Currently all lighting and most appliances are powered by electricity; for cooking there is a choice between gas and electricity. In 2012, an estimated 68% of domestic cooking was electrified, with the remaining 32% gas-powered.

Domestic cooking energy demand is assumed to scale with the number of households.

Level 1

Level 1 assumes that the cooking technology mix remains the same as in 2012.

Level 2

Level 2 assumes that all newly built homes use electric cooking. In total, the share of domestic cooking powered by electricity increases to 75%.

Level 3

Level 3 assumes that all new homes and half of existing homes use electric cooking by 2050. In total, the share of domestic cooking powered by electricity increases to 88%.

Level 4

Level 4 assumes that all cooking uses electricity by 2050.

