



Syksy 2019

Perustietoa bioenergiasta



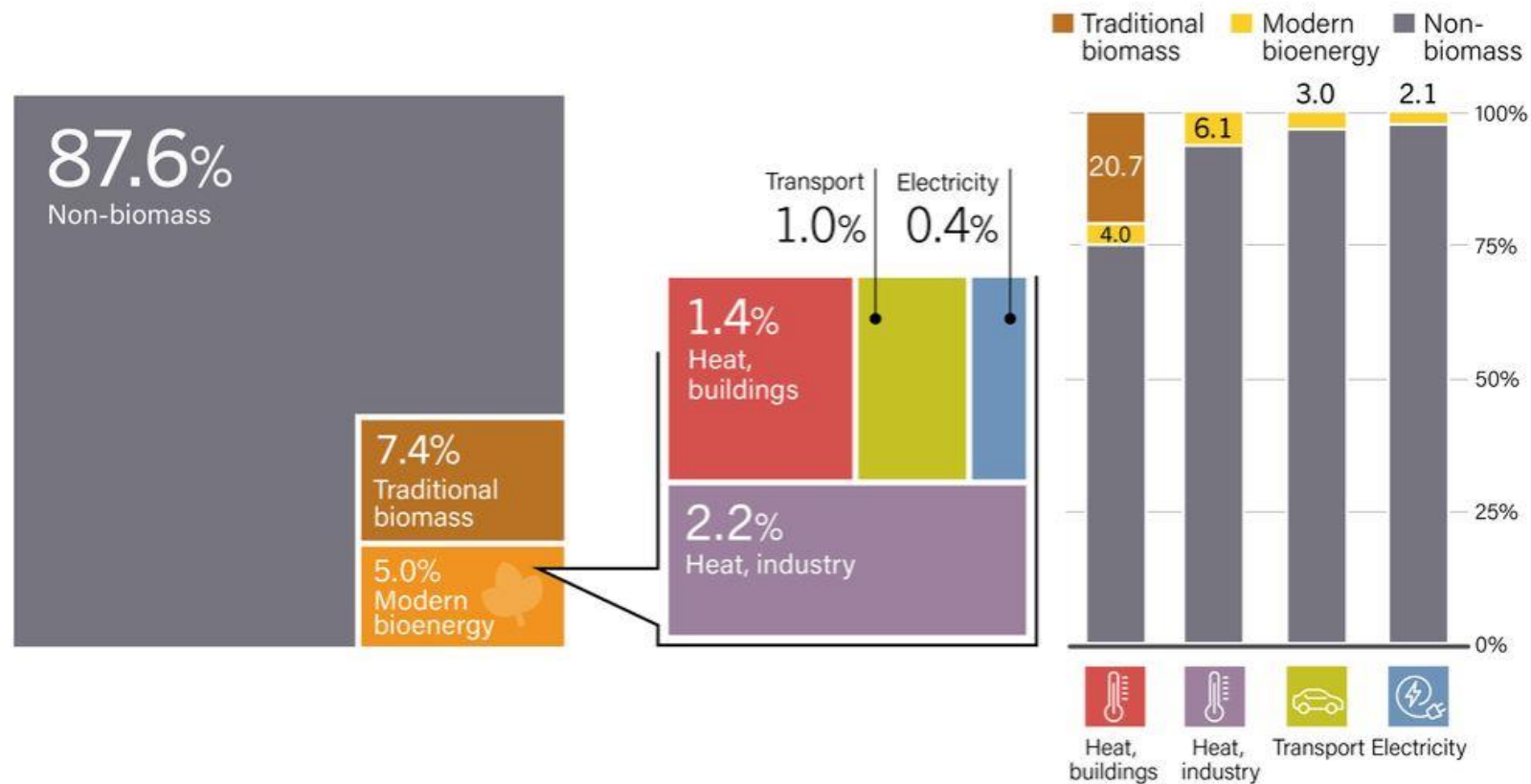
Bioenergia maailmassa



Bioenergia suuri lämmöntuotannossa

FIGURE 18

Estimated Shares of Bioenergy in Total Final Energy Consumption, Overall and by End-Use Sector, 2017



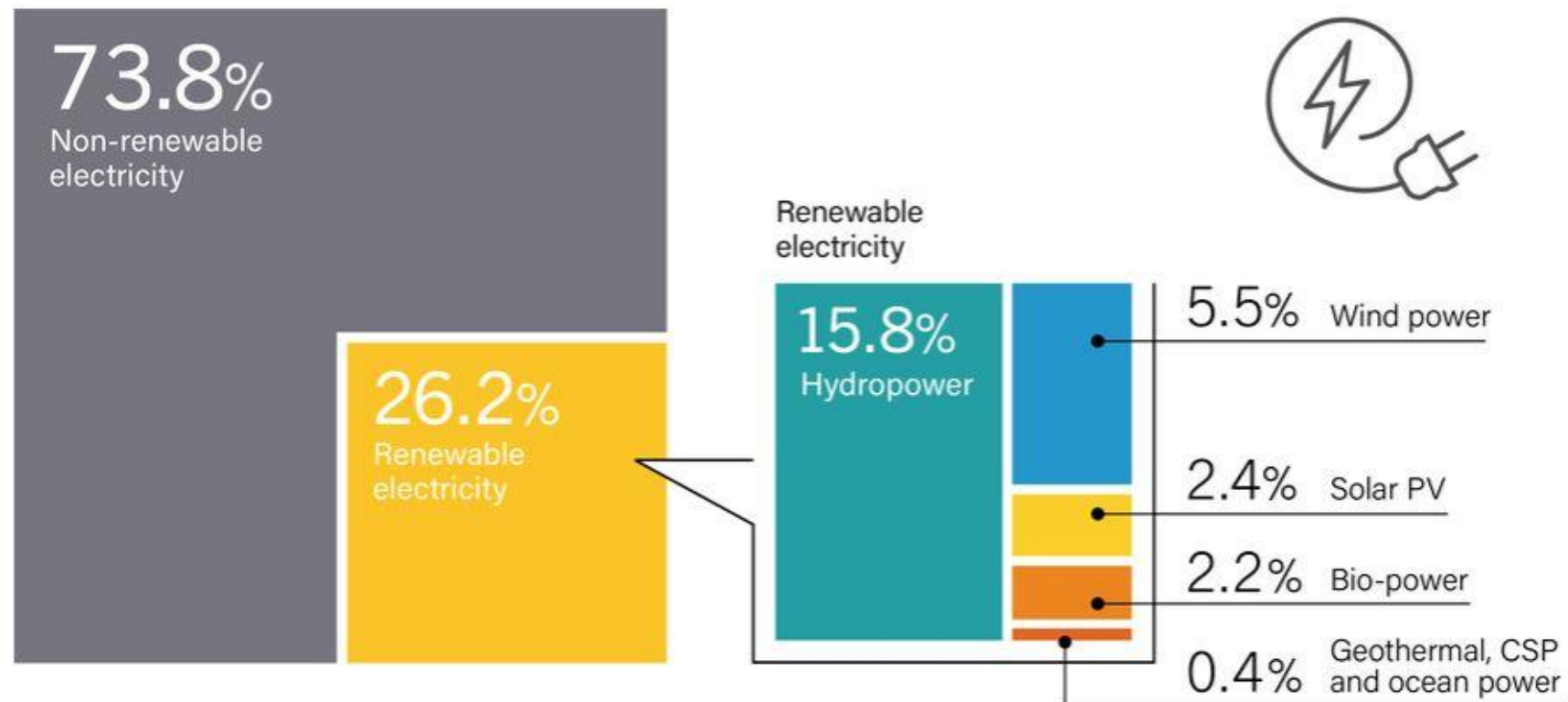
Lähde: REN21, 2019



Rooli sähköntuotannossa pienempi

FIGURE 8

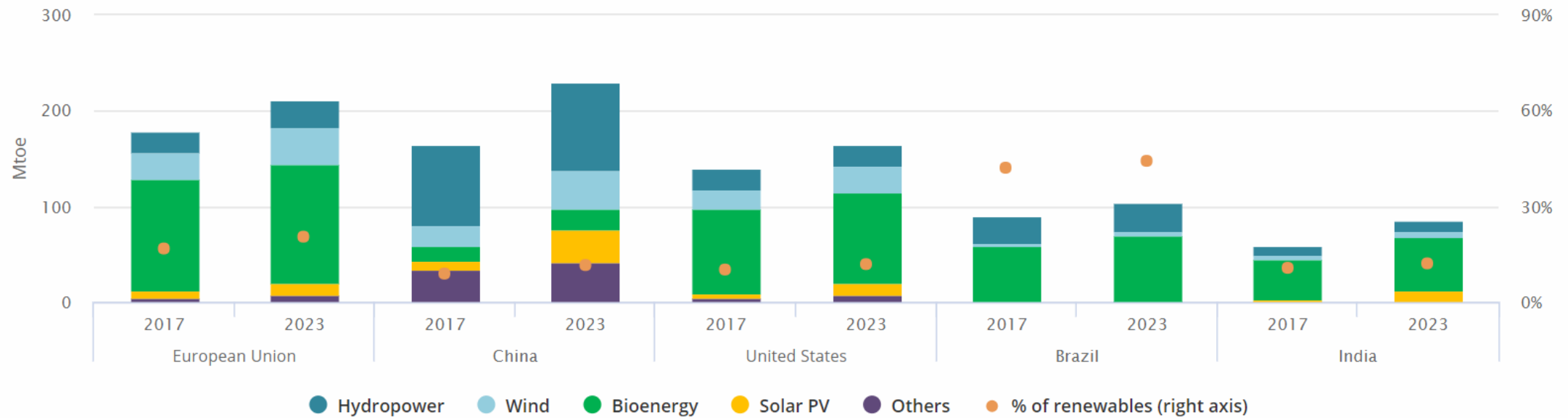
Estimated Renewable Energy Share of Global Electricity Production, End-2018



Lähde: REN21, 2019



Bioenergia ja muu uusiutuva energia 2017-2023 eri puolilla maailmaa



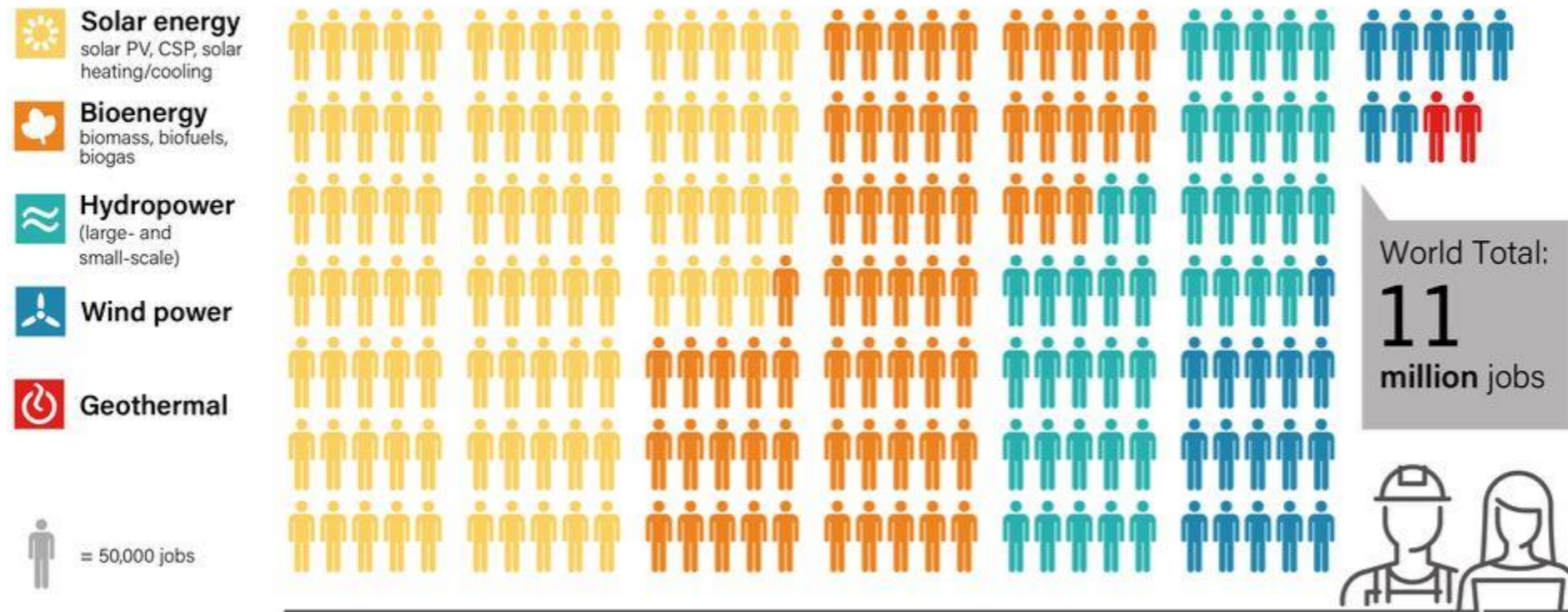
Lähde: IEA, 2018



Uusiutuvan energian työpaikat

FIGURE 11

Jobs in Renewable Energy



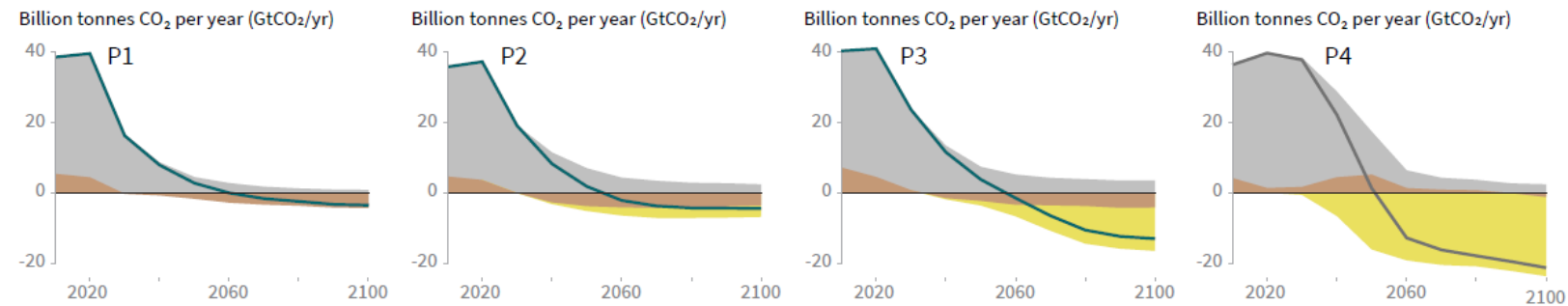
Lähde: REN21, 2019



Bioenergia ja ilmasto

Breakdown of contributions to global net CO₂ emissions in four illustrative model pathways

● Fossil fuel and industry ● AFOLU ● BECCS



Global indicators	P1	P2	P3	P4
Pathway classification	No or low overshoot	No or low overshoot	No or low overshoot	High overshoot
Kyoto-GHG emissions* in 2030 (% rel to 2010)	-50	-49	-35	-2
↳ in 2050 (% rel to 2010)	-82	-89	-78	-80
Kyoto-GHG emissions* in 2030 (% rel to 2010)	-50	-49	-35	-2
↳ in 2050 (% rel to 2010)	-82	-89	-78	-80
Kyoto-GHG emissions* in 2030 (% rel to 2010)	-50	-49	-35	-2
↳ in 2050 (% rel to 2010)	-82	-89	-78	-80

Lähde: IPCC, 1,5 asteen raportti 2018

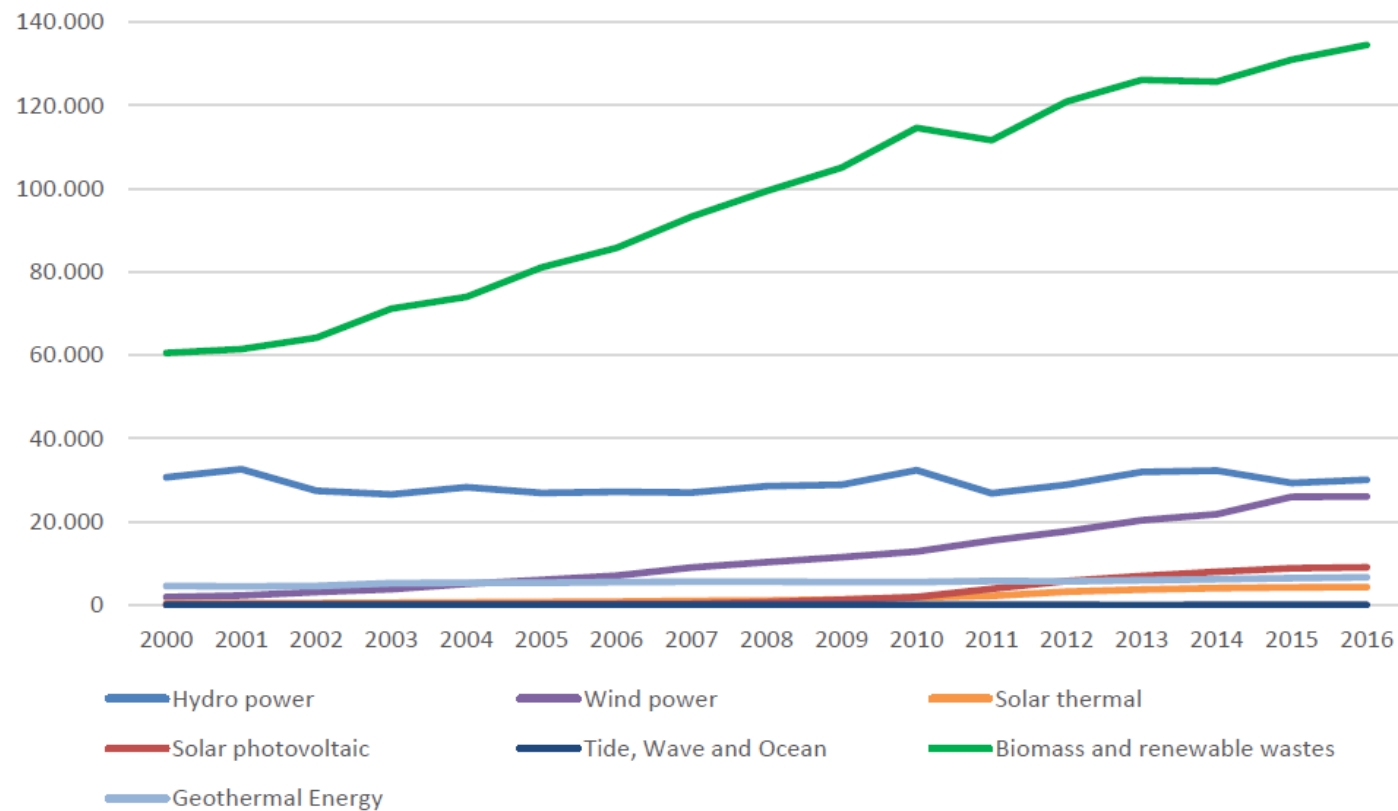


Bioenergia EU:ssa



Uusiutuvan energian kehitys EU:ssa

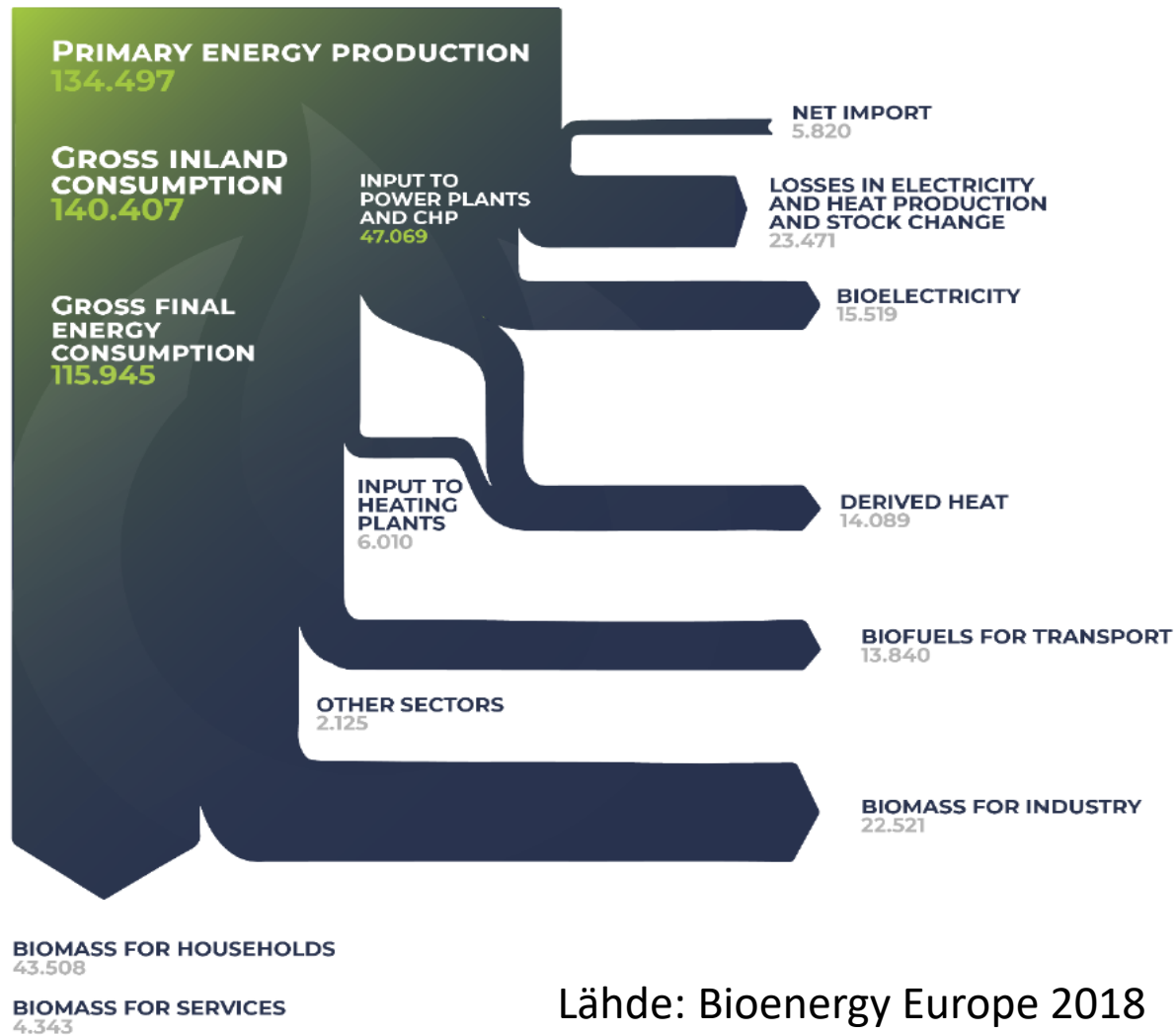
Figure 1.11 Evolution of primary production of renewable energy in EU28 (ktoe)



Lähde: Bioenergy Europe 2018



Bioenergia EU:ssa 2016 (ktoe)

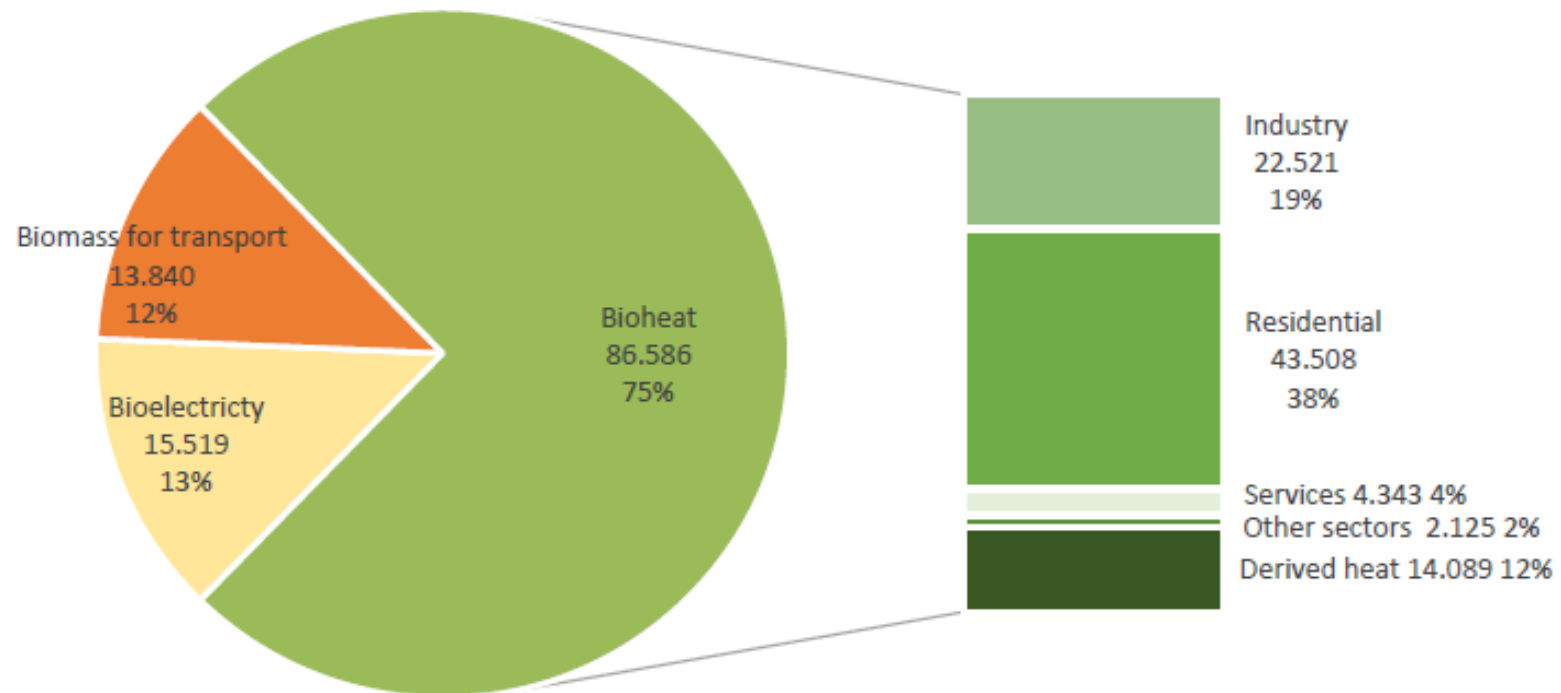


Lähde: Bioenergy Europe 2018



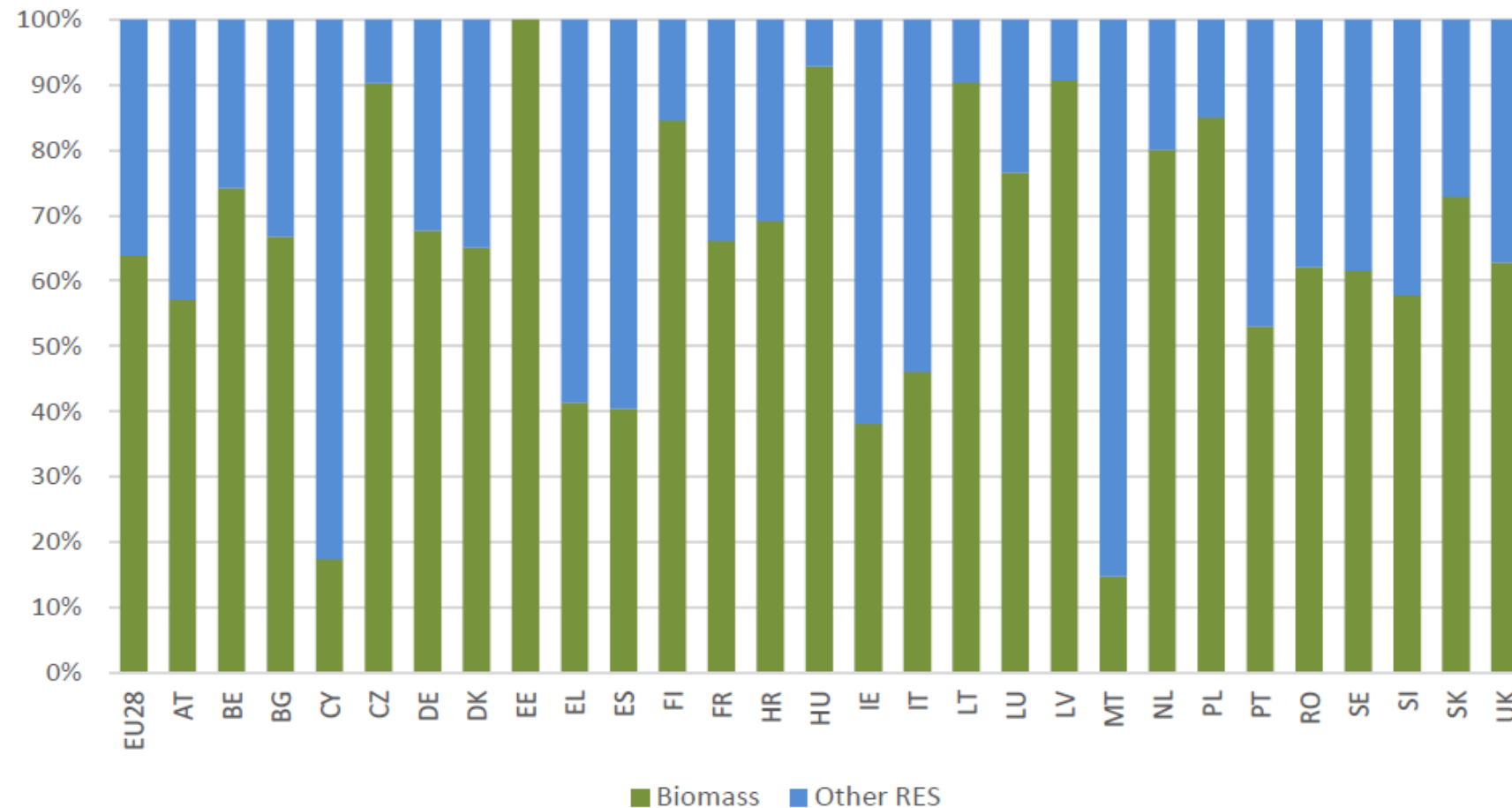
Bioenergia EU:ssa (ktoe)

Figure 2.5 Gross final energy consumption of biomass in heat, electricity and transport in EU28 Member States in 2016 (ktoe)





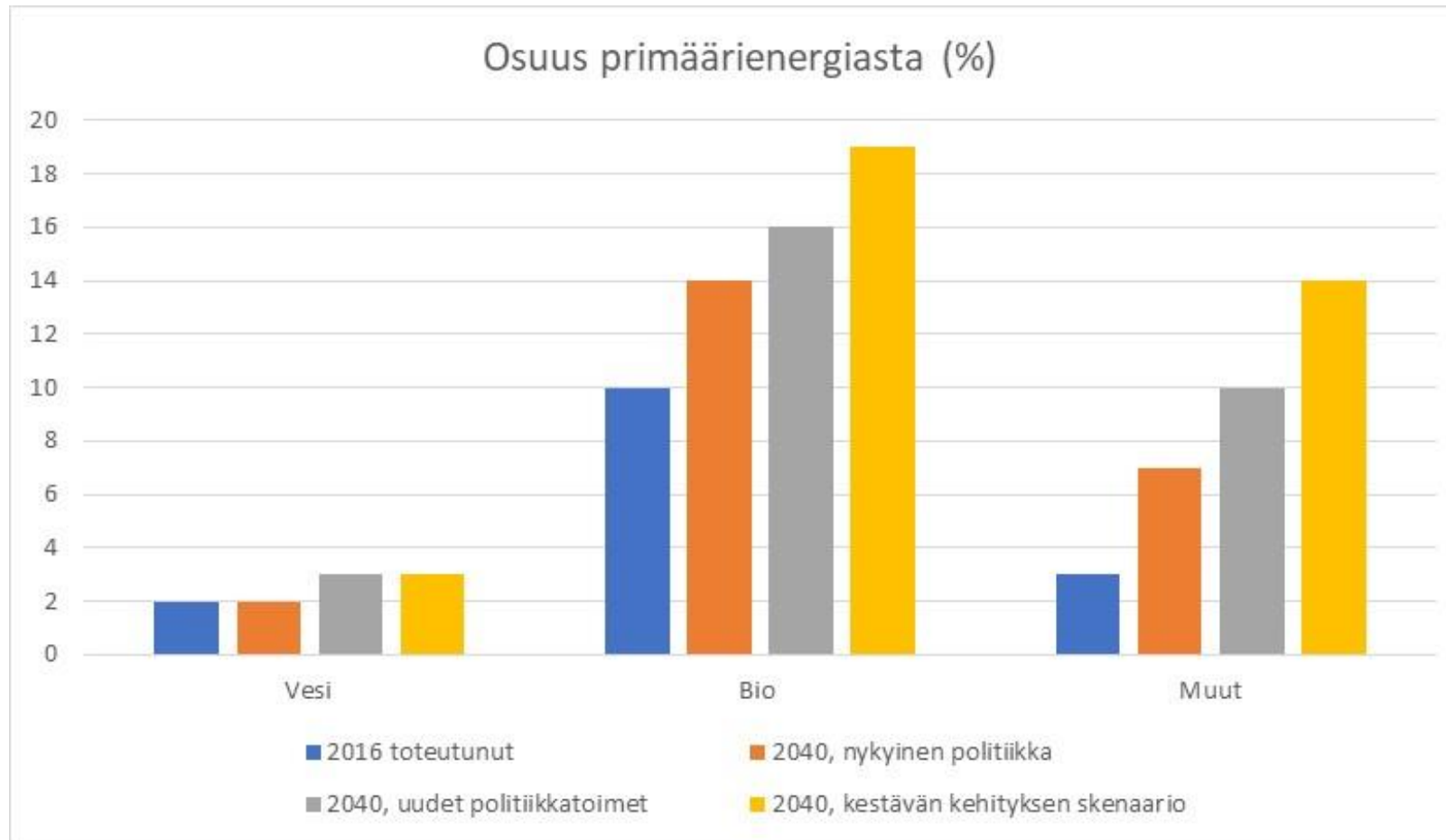
Bioenergia EU:n jäsenmaissa



Lähde: Bioenergy Europe 2018



Bioenergian kehitysnäkymä EU:ssa



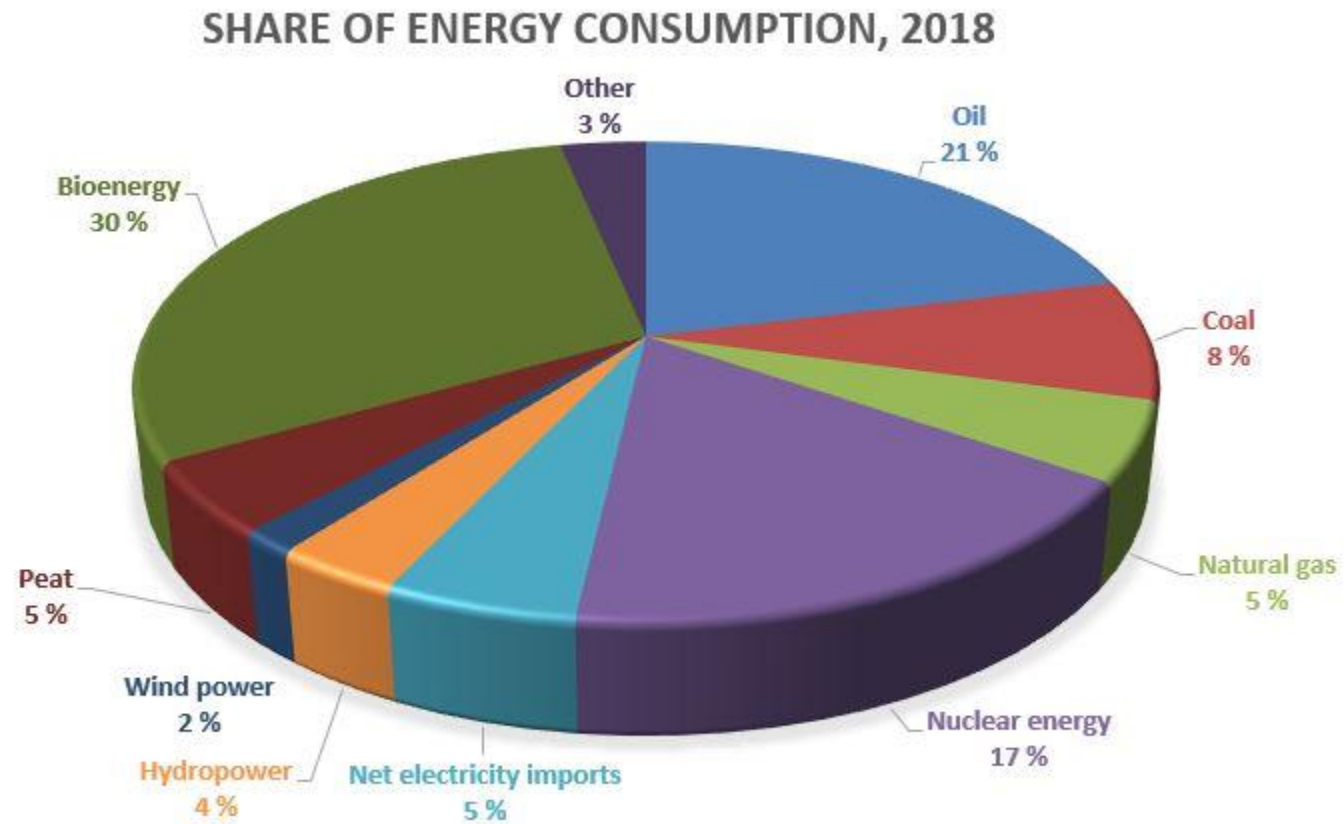
Lähde: IEA 2017



Bioenergia ja energiaturve Suomessa



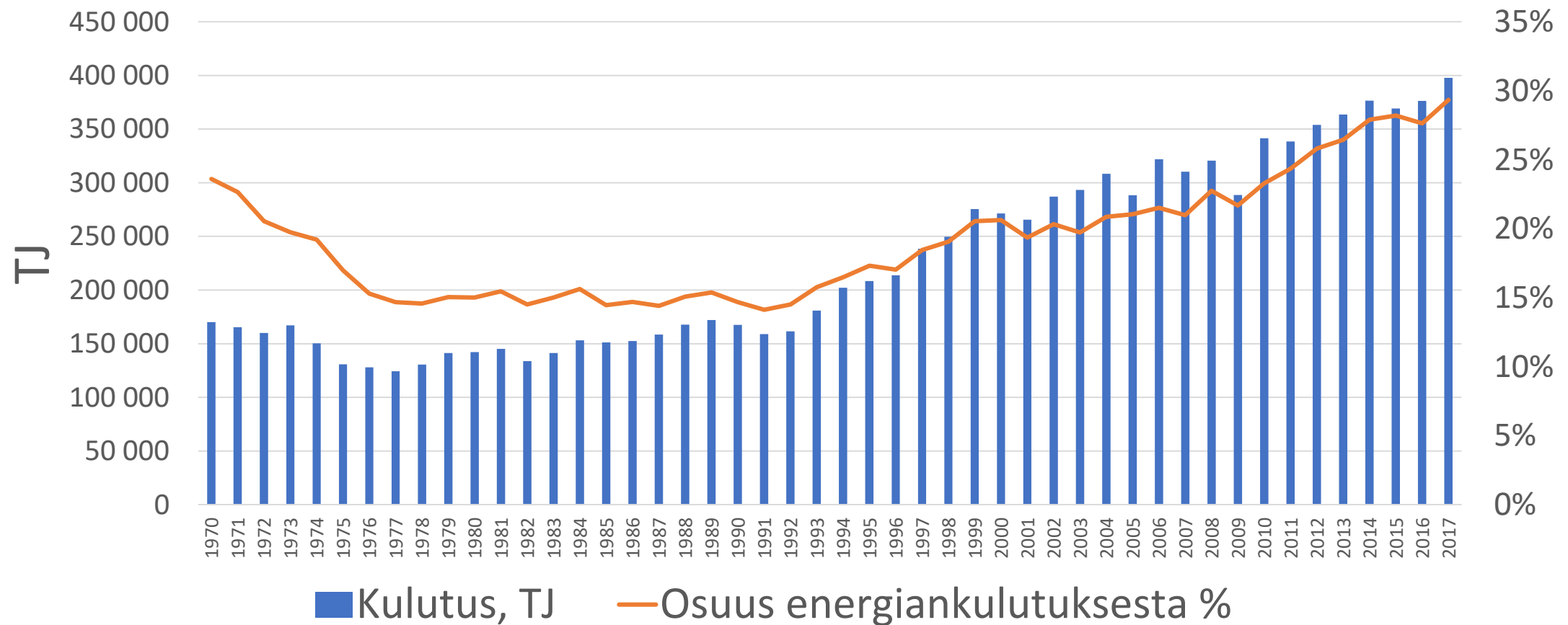
Energiankulutus Suomessa 2018



Lähde: Tilastokeskus 2019



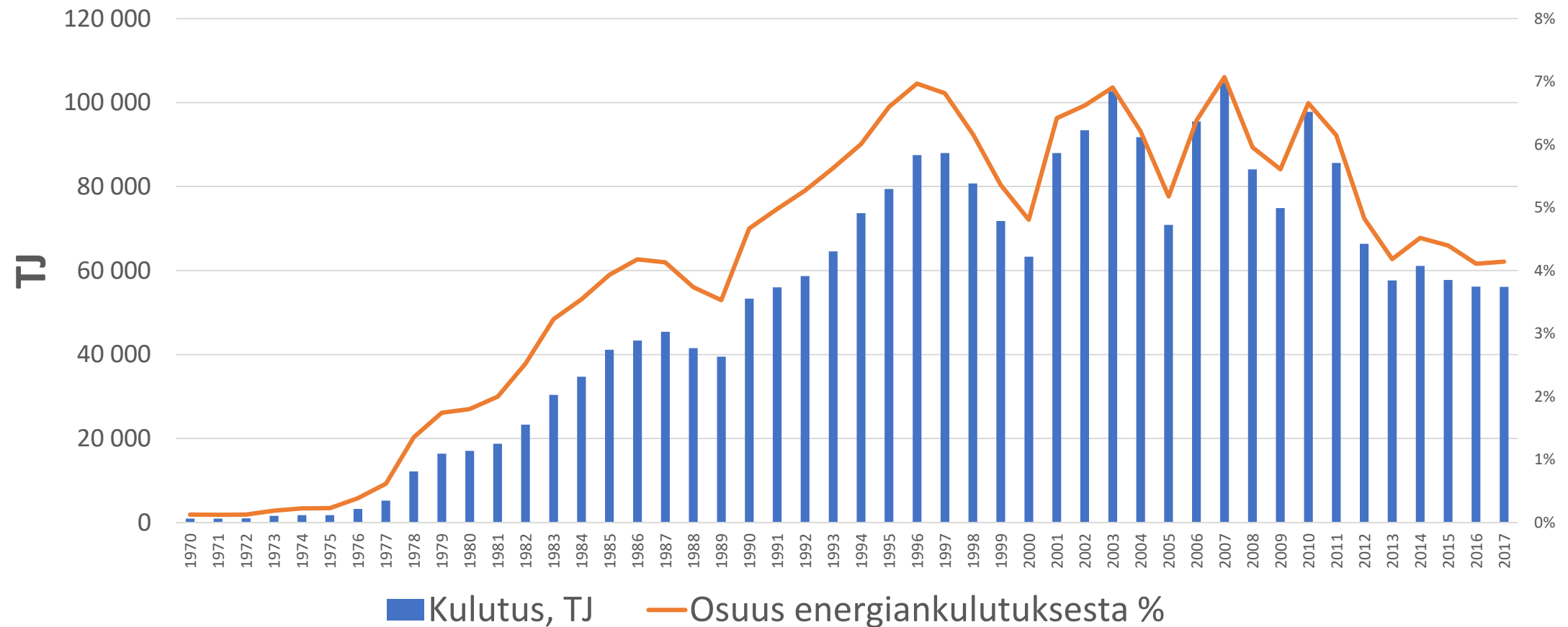
Bioenergia Suomessa 1970-2017



Lähde: Tilastokeskus 2018



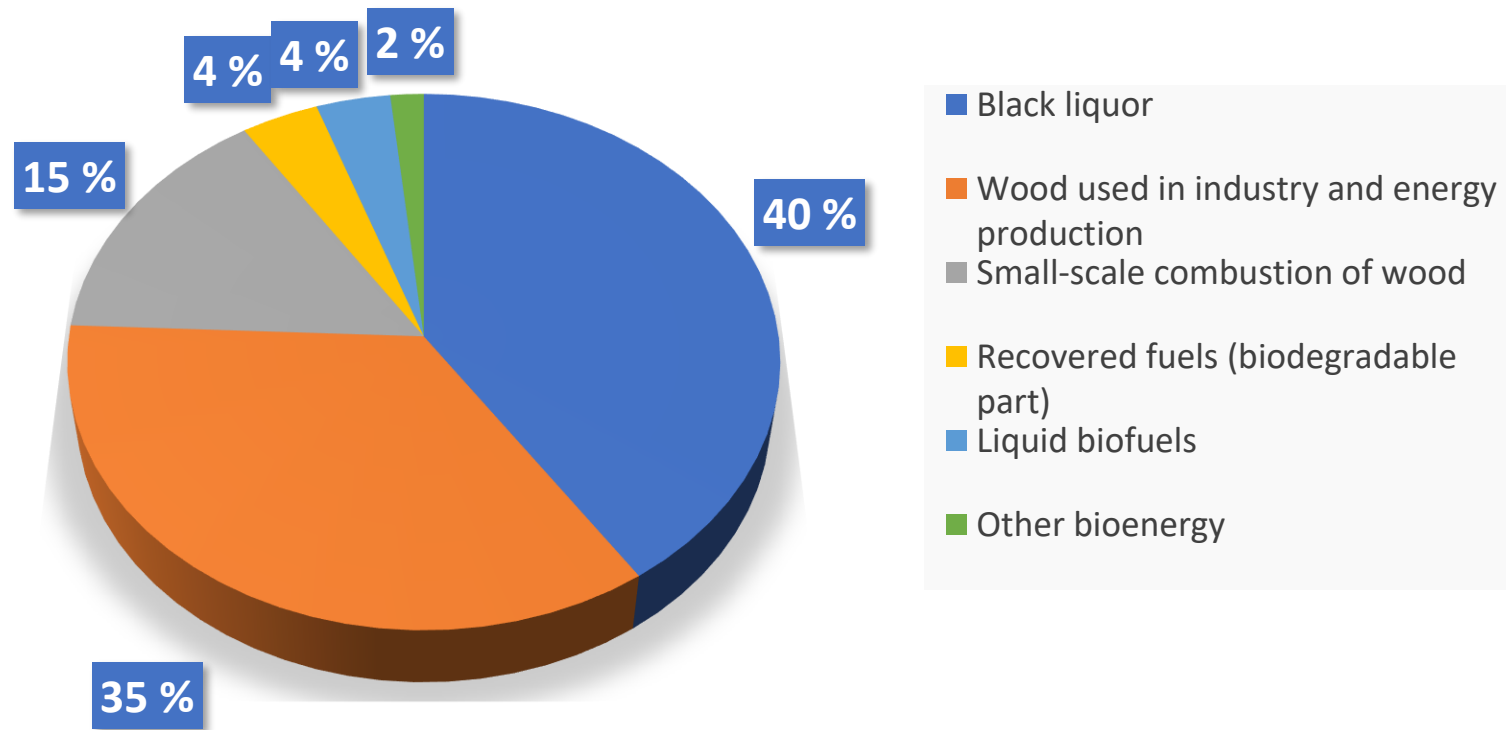
Energiaturve Suomessa 1970-2017



Lähde: Tilastokeskus 2019



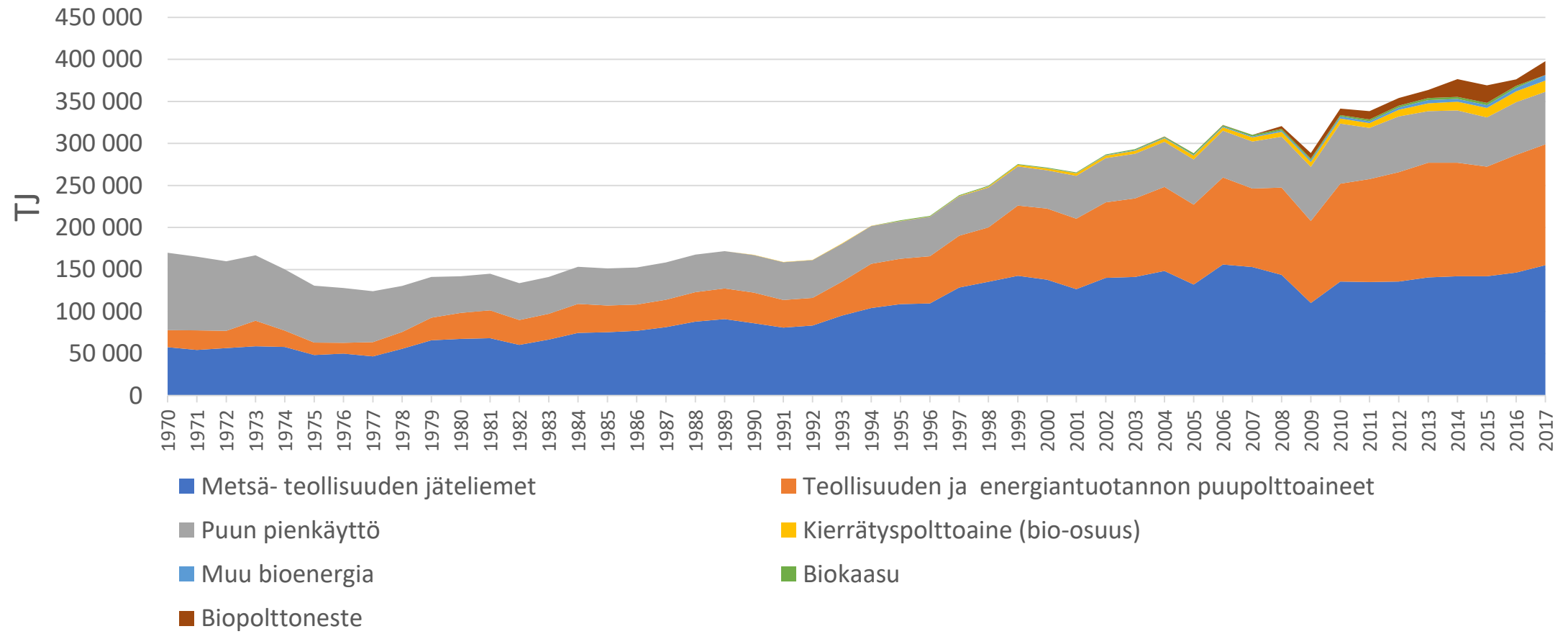
Bioenergia 2018



Lähde: Tilastokeskus 2019



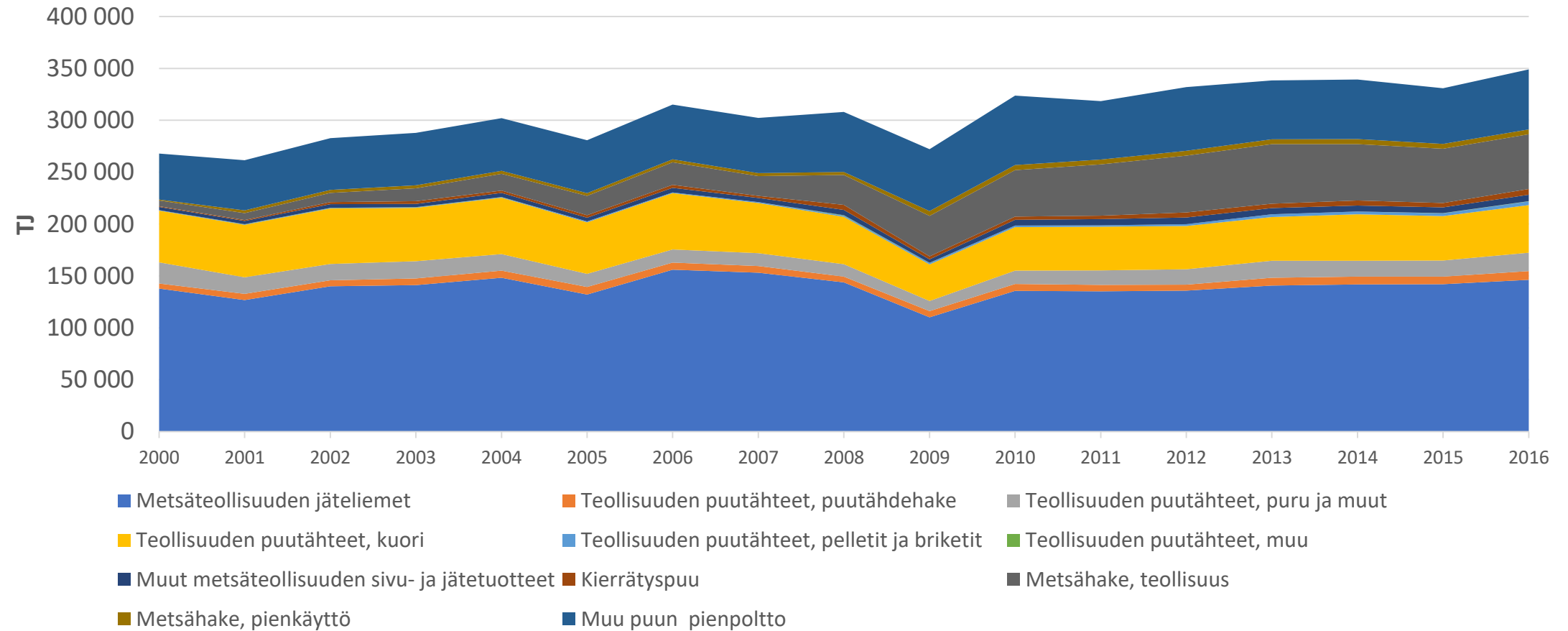
Bioenergia lajeittain 1970-2017



Lähde: Tilastokeskus 2018



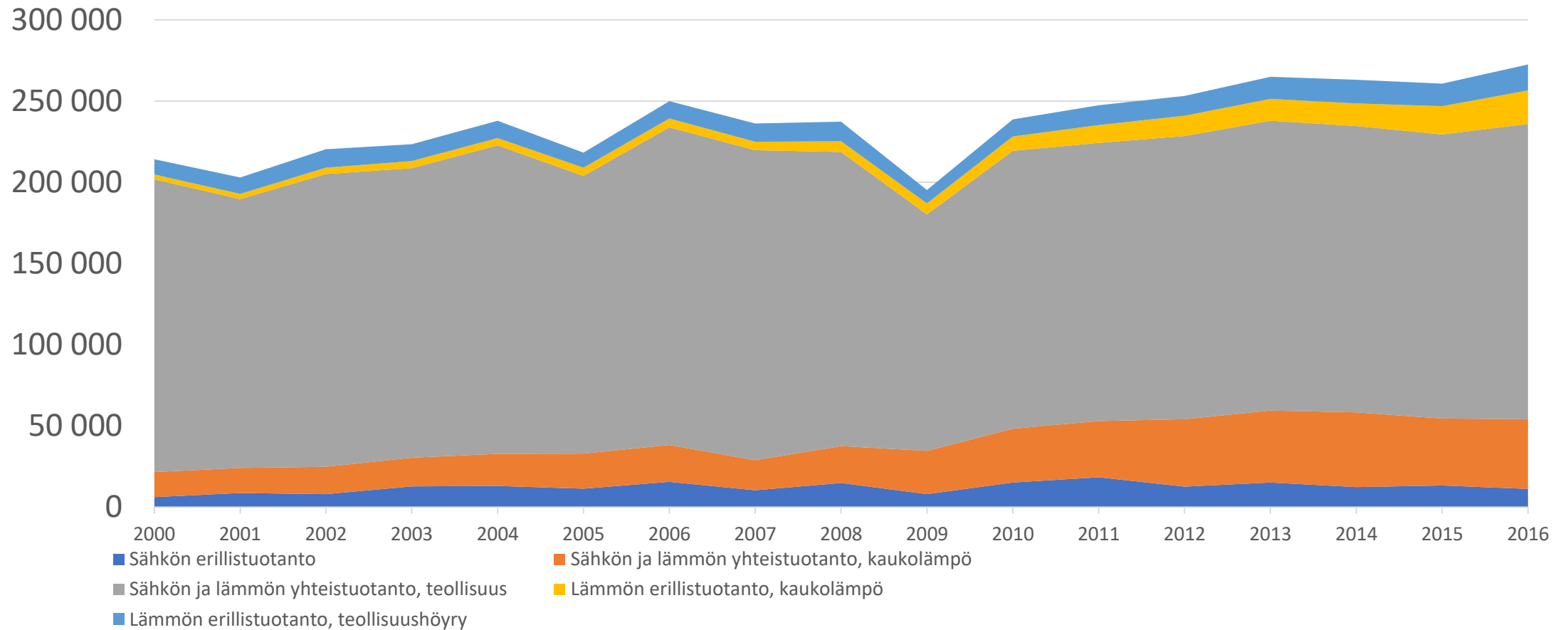
Puupolttoaineet lajeittain 2000-2016



Lähde: Tilastokeskus 2019



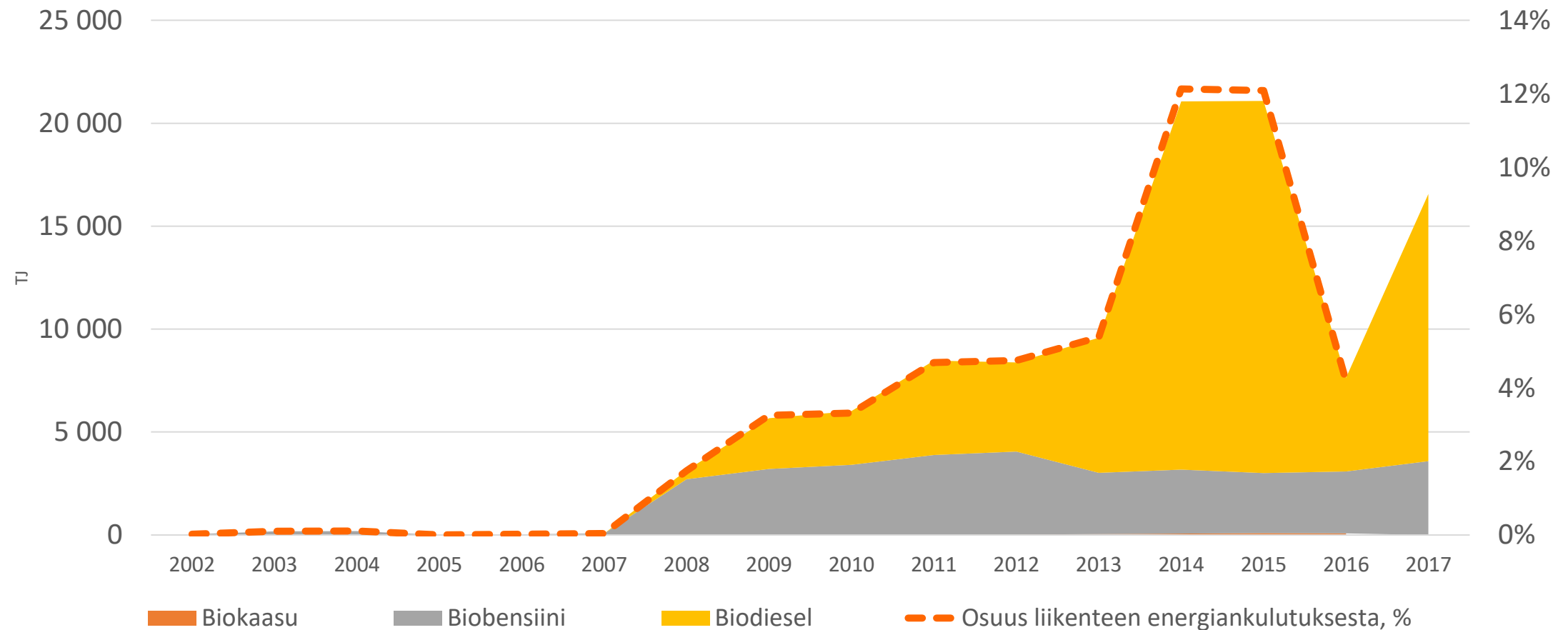
Puupolttoaineiden käyttö 2000-2016



Lähde: Tilastokeskus 2019



Bioenergia liikenteessä 2002-2017



Lähde: Tilastokeskus 2019

