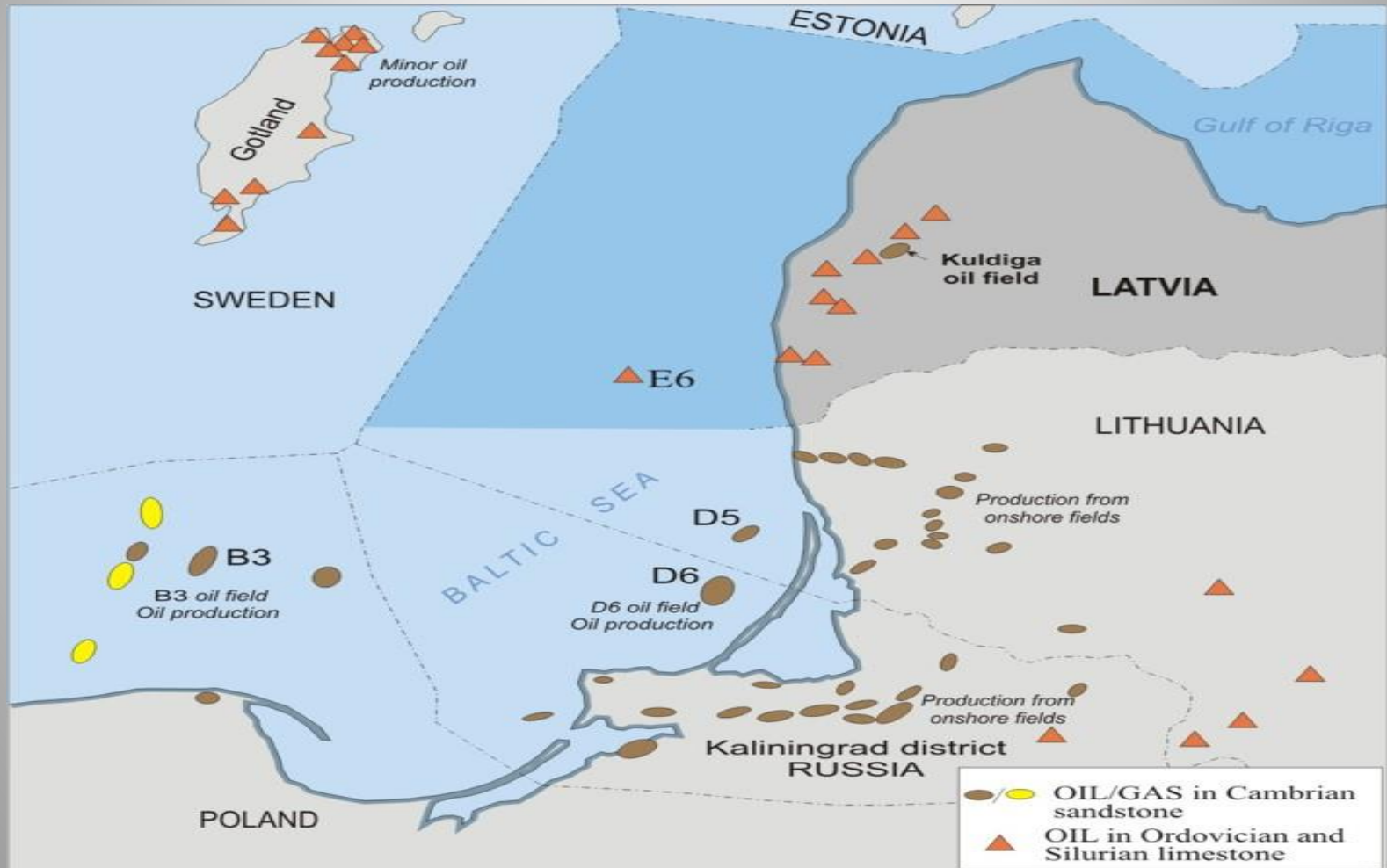




Eesti Õliühing
ESTONIAN OIL ASSOCIATION

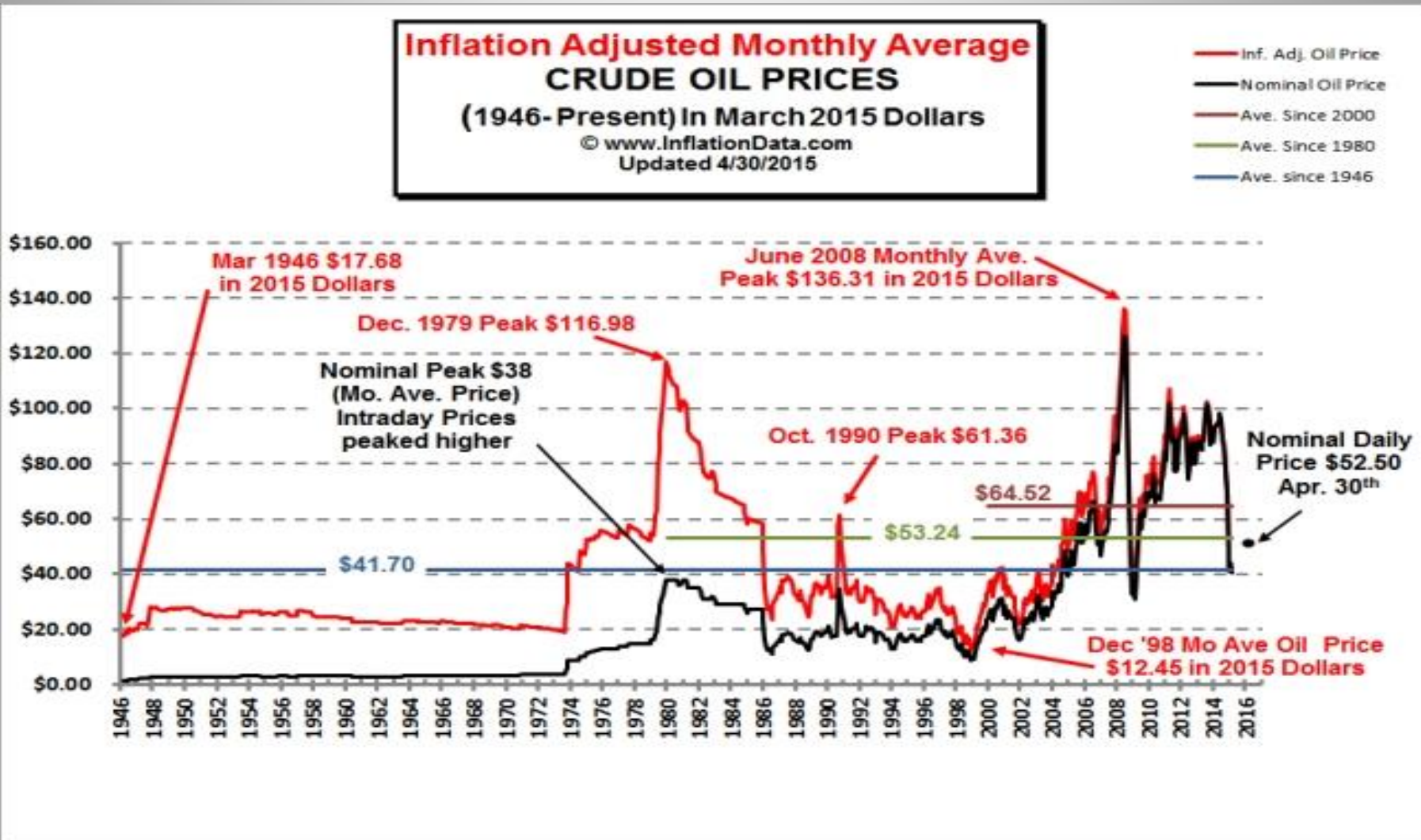


BALTI NAFTA



HC accumulations and oil production in Baltic Region

TOORNAFTA HIND



TOORNAFTA TOOTMISE OMAHIND

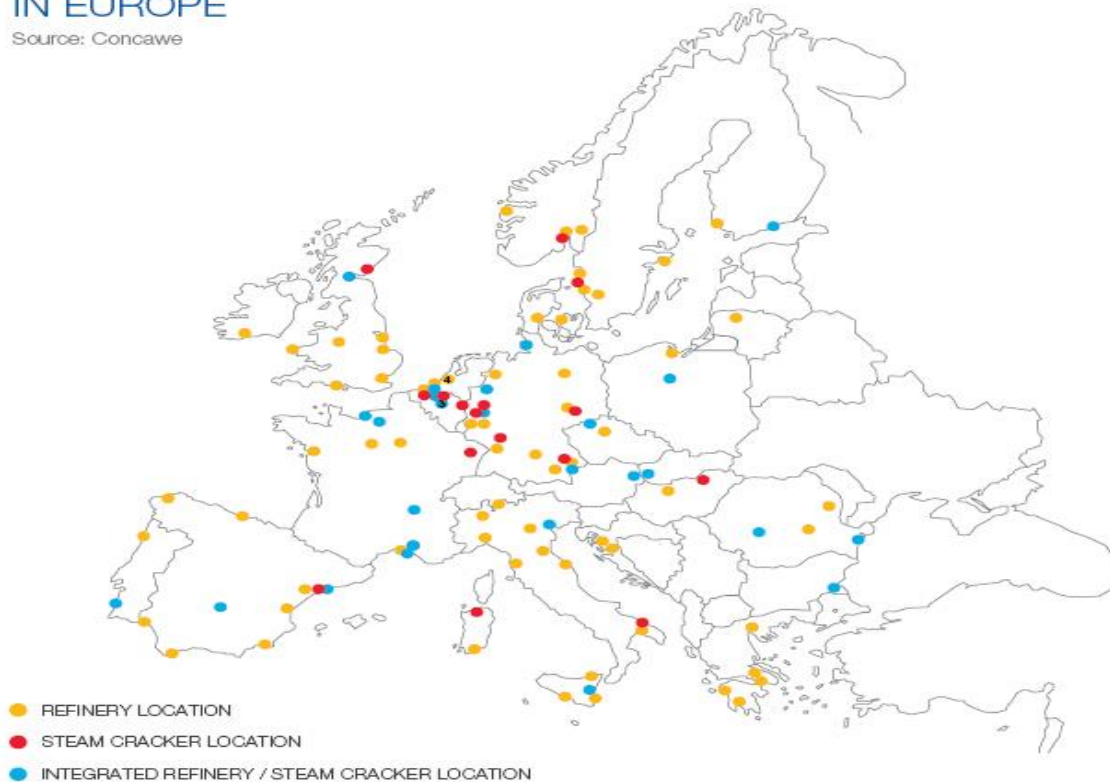


Source : Rystad Energy

EUROOPA NAFTA ÜMBERTÖÖTELEMISE TEHASED

REFINERY/STEAM CRACKER SITES IN EUROPE

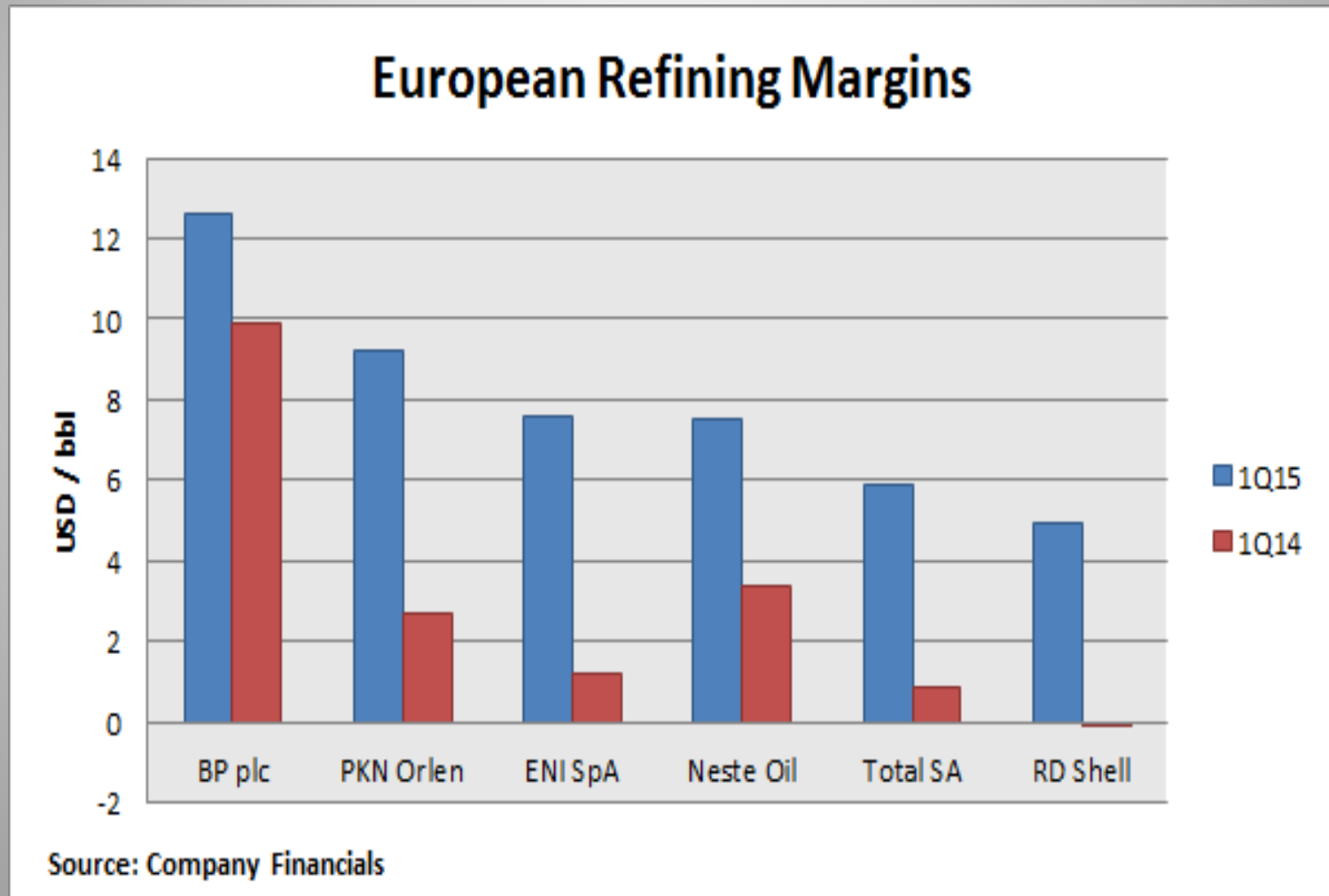
Source: Concawe



A large number of refineries are integrated with or located very close to steam crackers that produce products for the petrochemicals industry.

Such interconnections show how refining is an intrinsic part of the industrial value chain and provides the basis for highly advance, high value products.

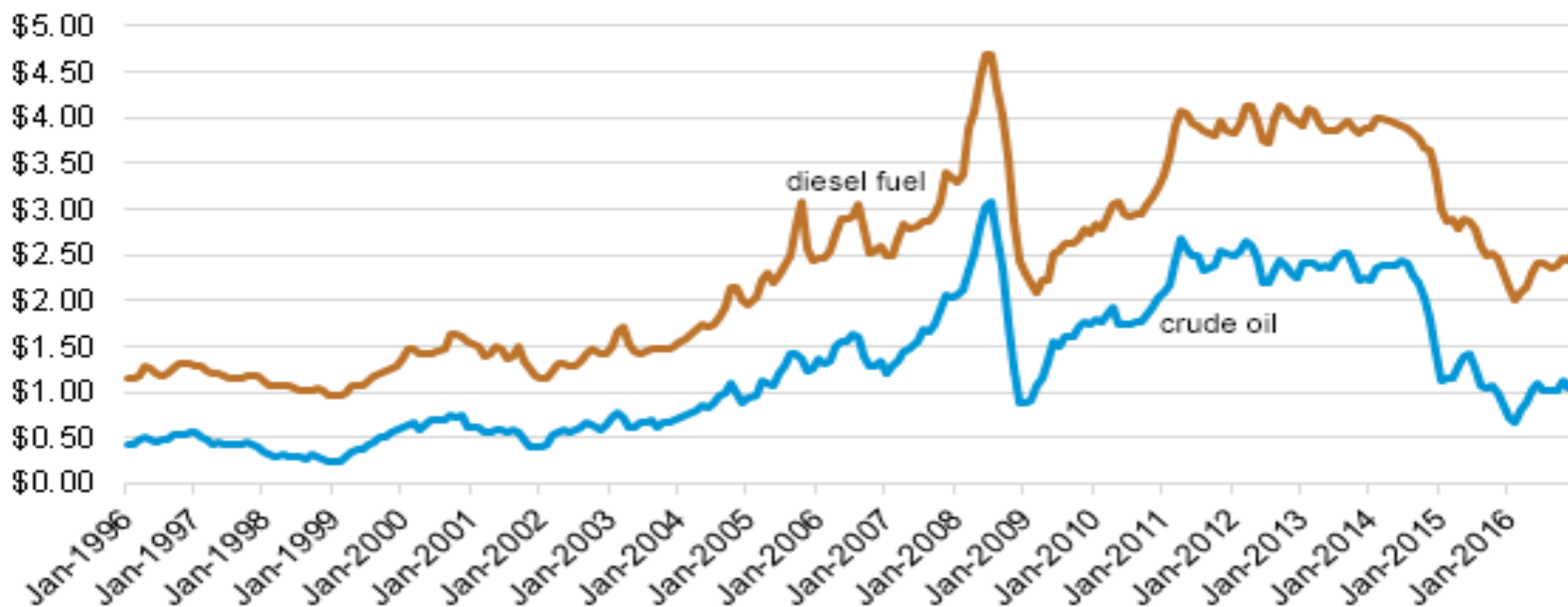
NAFTASAADUSTE TOOTMISE HIND



TOORNAFTA VERSUS DIISLIKÜTUS

Average monthly U.S. crude oil and retail diesel fuel prices, 1996-2016

dollars per gallon



Diesel fuel price includes taxes.

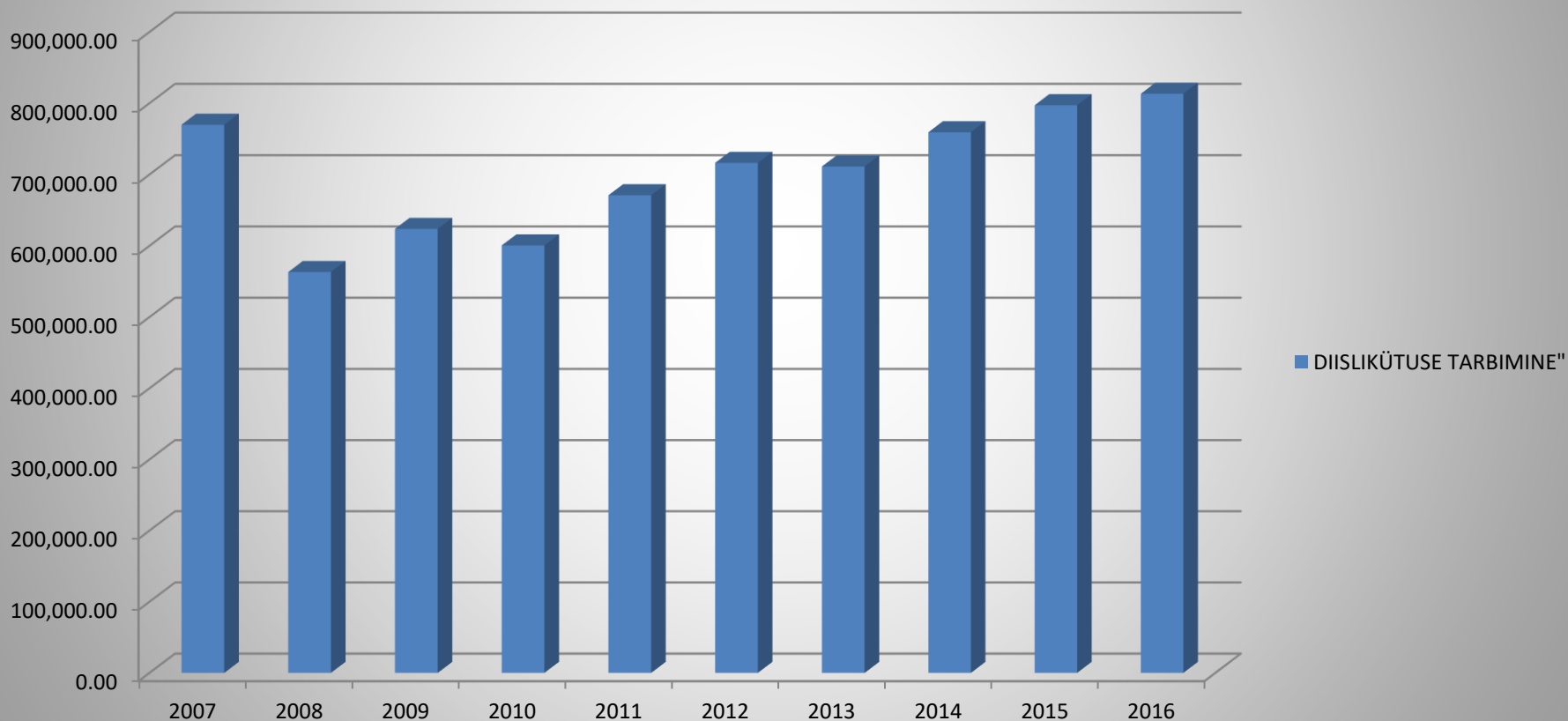
Crude oil price is refiner composite acquisition cost.

Source: U.S. Energy Information Administration, *Petroleum Marketing Monthly*, Table 1A, August 2017, and *Gasoline and Diesel Fuel Update*



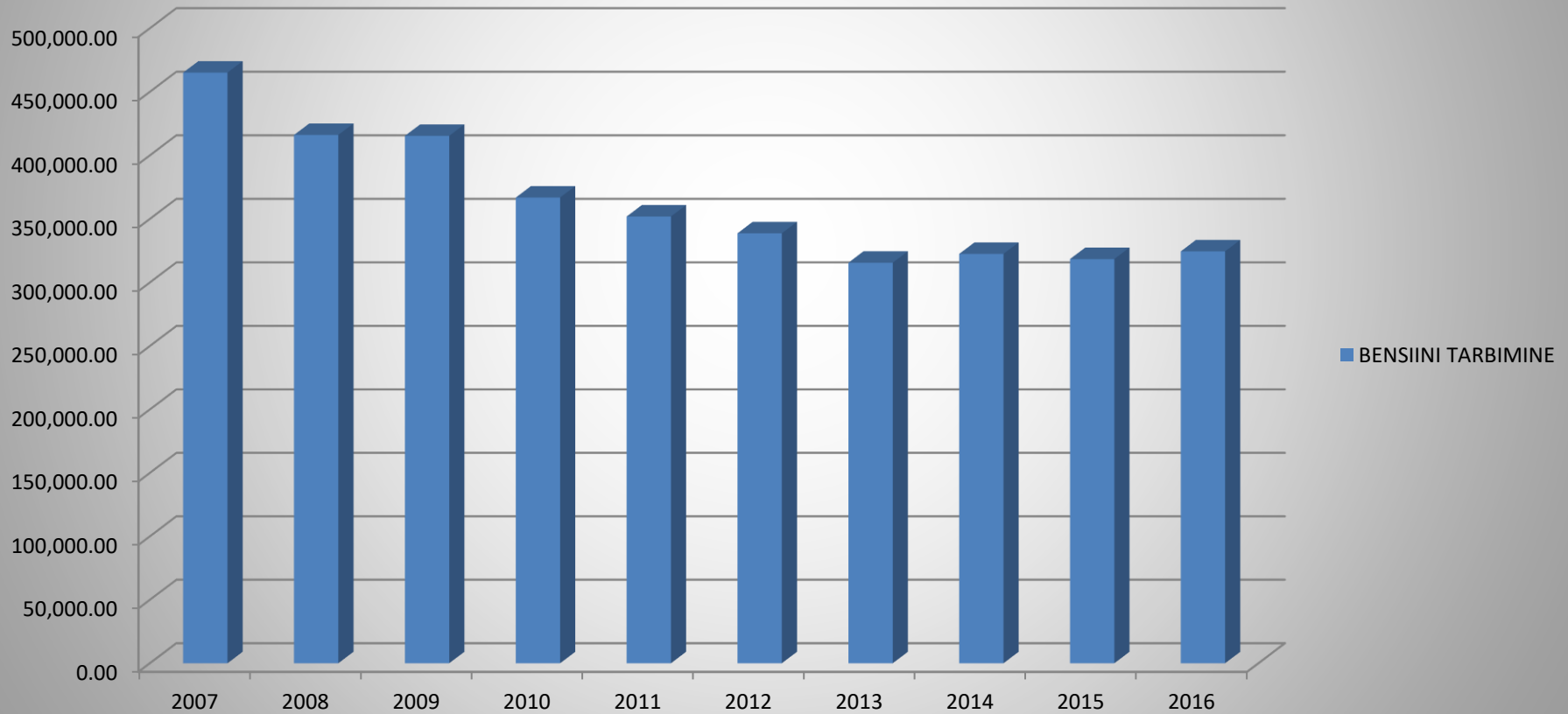
DIISLIKÜTUSE TARBIMINE EESTIS

DIISLIKÜTUSE TARBIMINE"



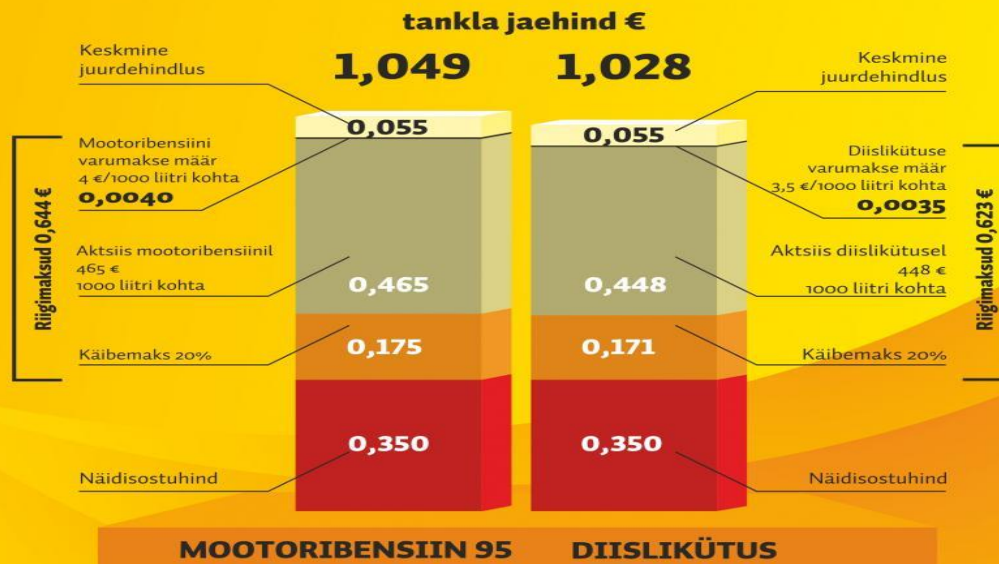
BENSIINI TARBIMINE

BENSIINI TARBIMINE

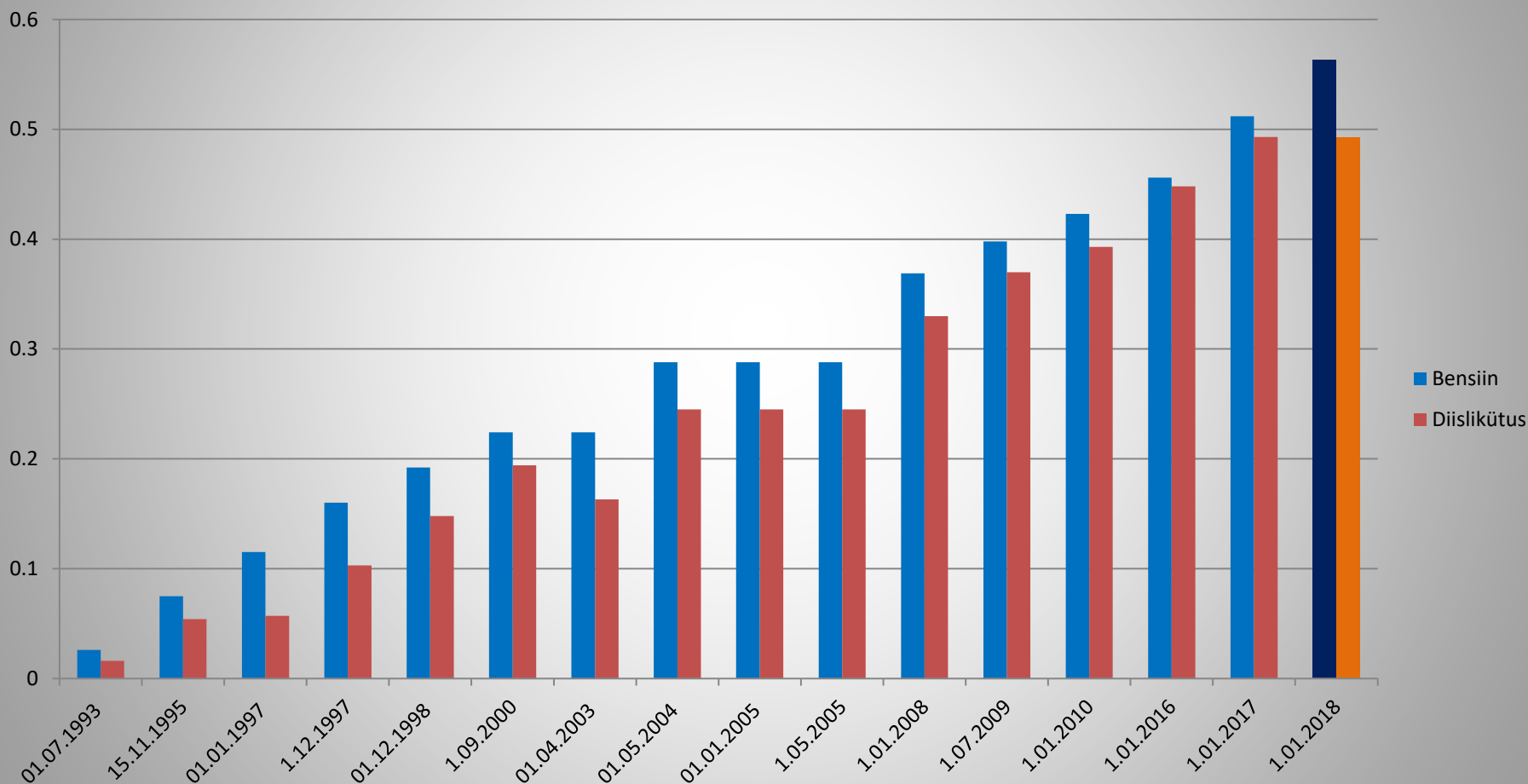


MOOTORIKÜTUSE TARBIJAHINNA KUJUNEMINE

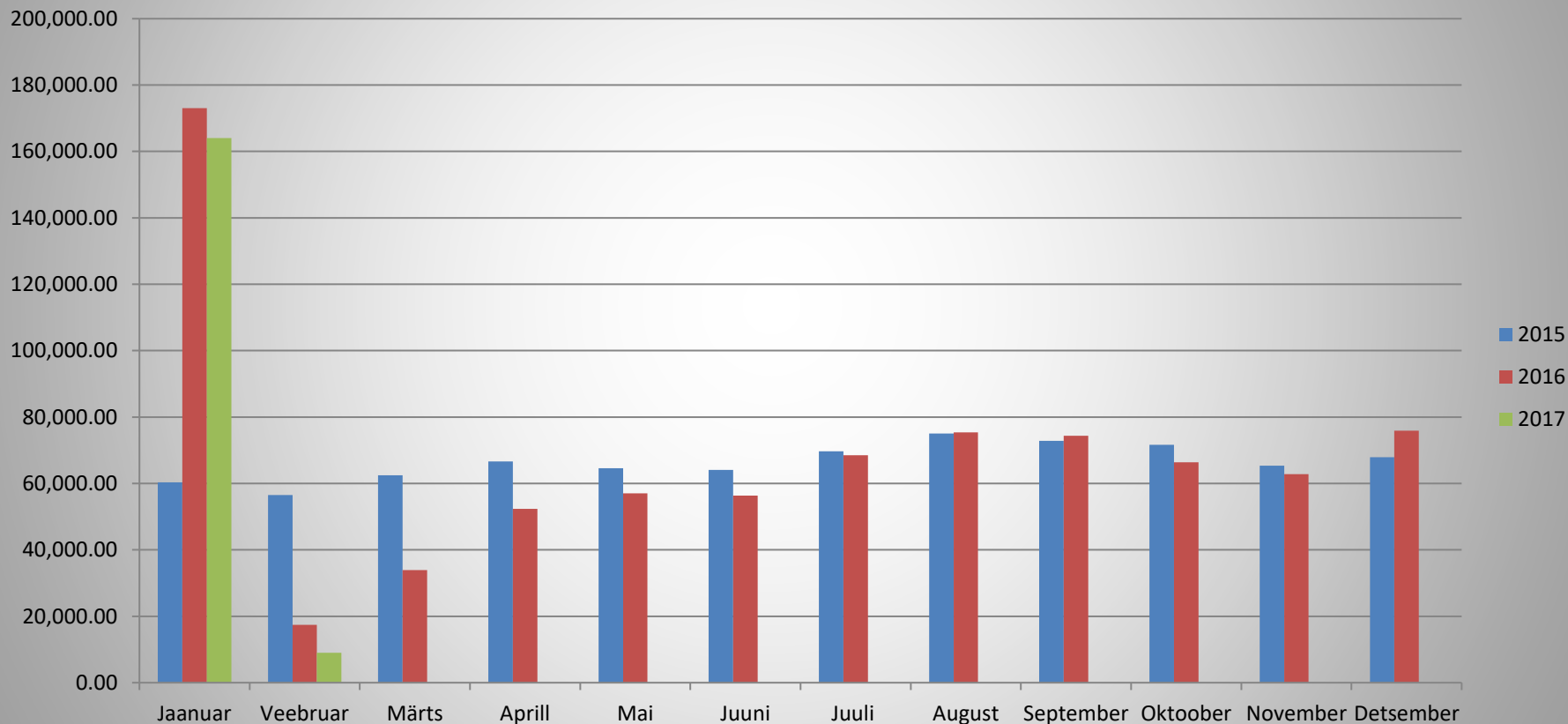
KUIDAS KUJUNEB MOOTORIKÜTUSE HIND?



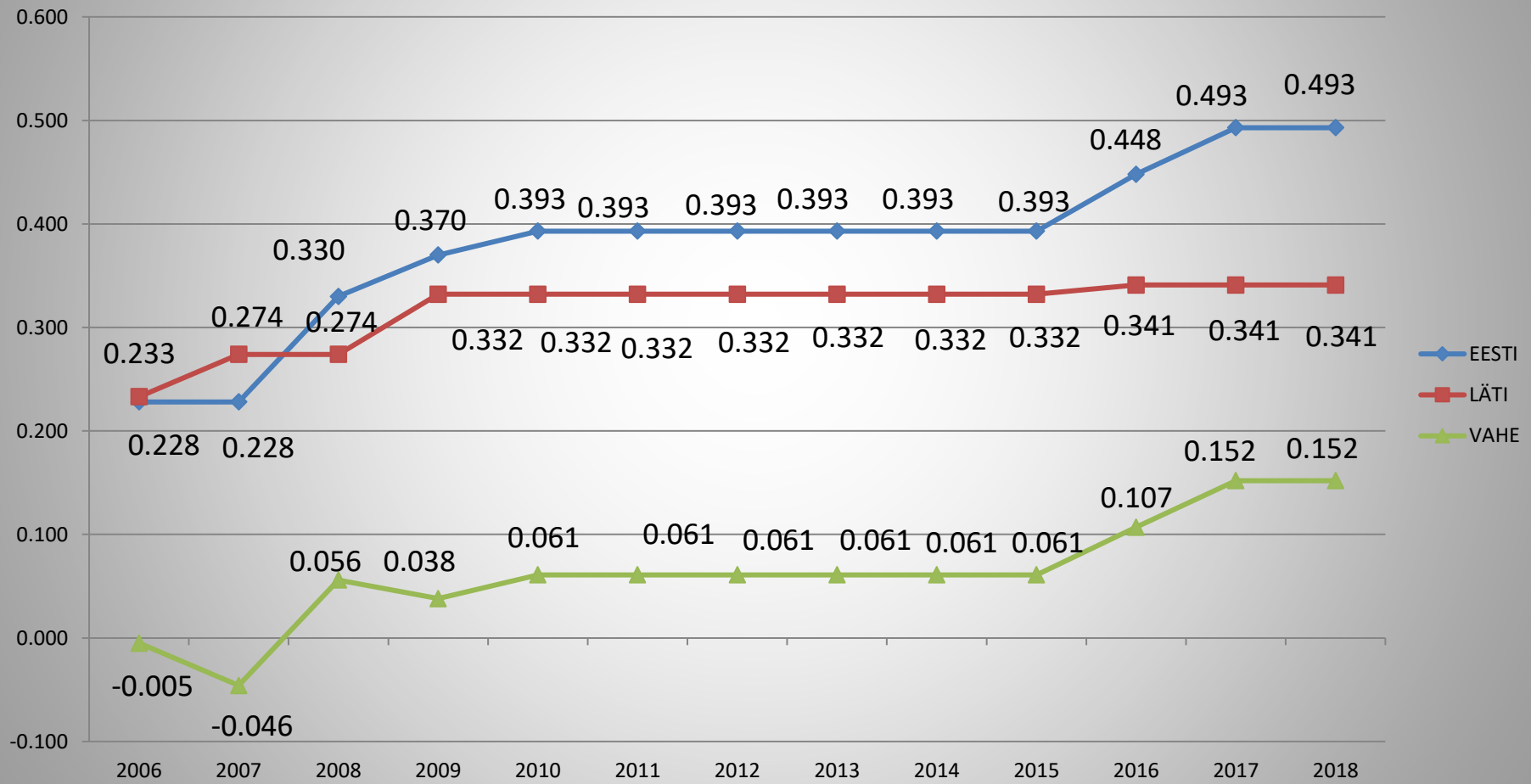
MOOTORIKÜTUSE AKTSIIS EESTIS



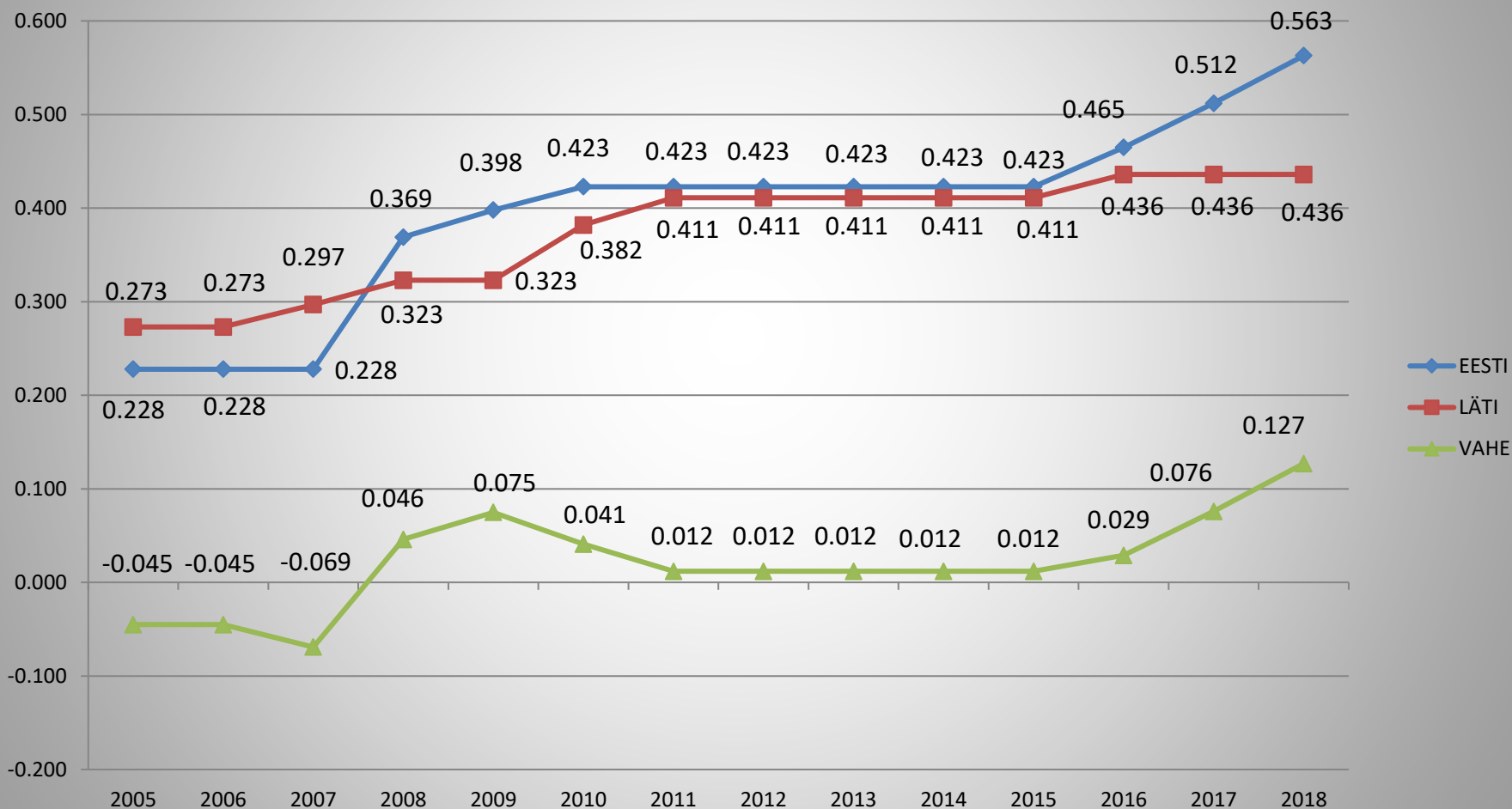
DIISLIKÜTUSE TARBIMINE EESTIS



DIISLIKÜTUSE AKTSIIS EESTIS ja LÄTIS



BENSIINI AKTSIIS EESTIS ja LÄTIS



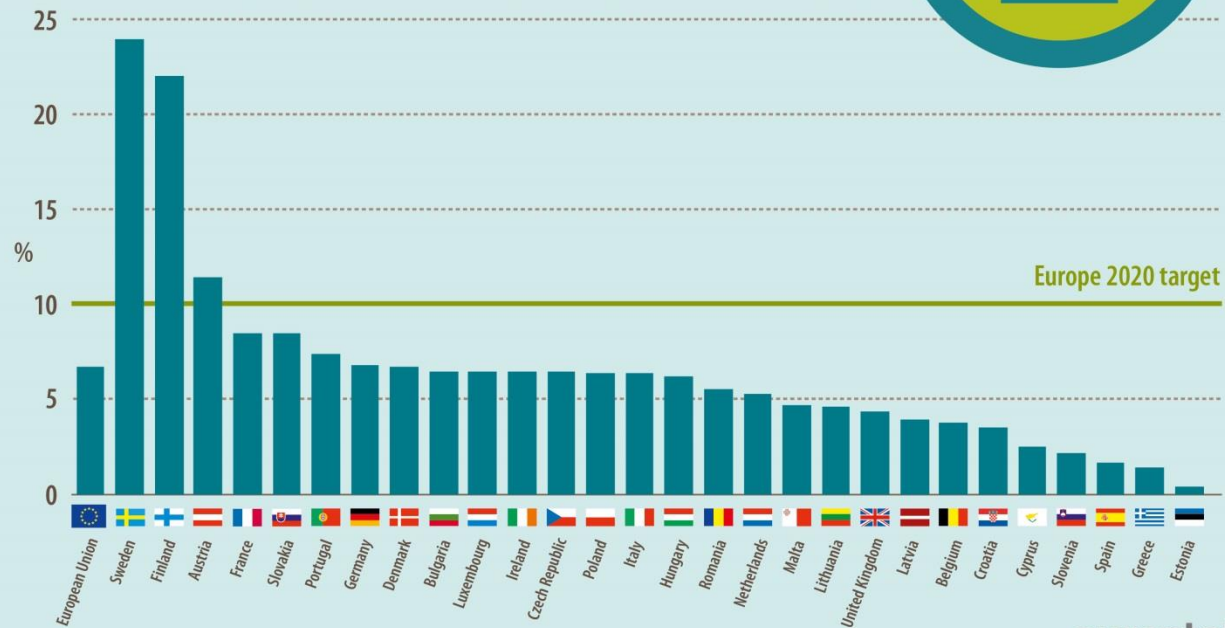
ALTERNATIIVSED MOOTORIKÜTUSED

- Fossiilsed kütused
 - ❖–Bensiin
 - ❖–Diisel
 - ❖–Gaas (CNG, LNG, LPG)
- Elekter
 - ❖–Vesinikelement
- Biokütused
 - ❖–Bioetanool
 - ❖–Biodiisel (FAME, HVO, BTL)
 - ❖–Biometaan

TAASTUVKÜTUSE OSAKAAL EU-s

Share of energy from renewable sources in transport

(in % of gross final energy consumption)

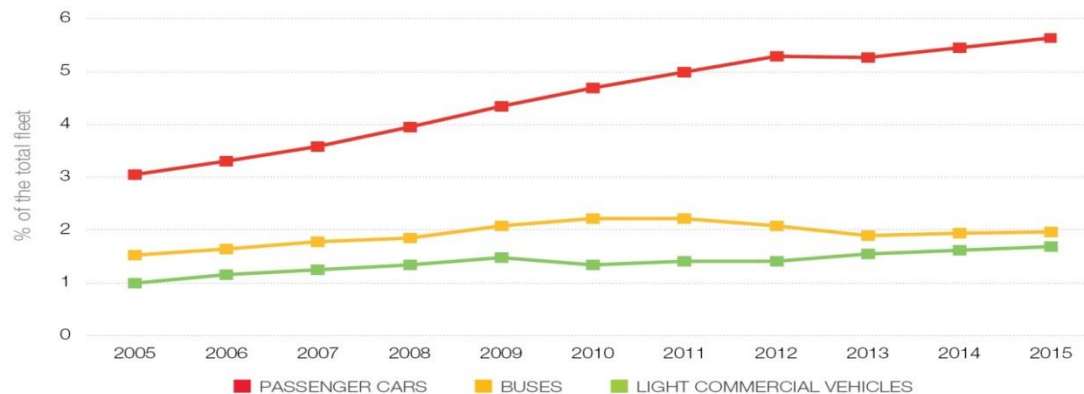


Europe 2020 target

ALTERNATIIVSE KÜTUSEGA SÕIDUKITE OSAKAAL EU-s

**FIG.50 ALTERNATIVE-FUEL VEHICLES AS A PROPORTION
OF THE TOTAL FLEET IN THE EEA-33
IN THE PERIOD 2005-2015**

Source: European Environment Agency



According to the most recent estimates, the number of alternative fuel passenger cars as a proportion of the total fleet has oscillated around 5 % over the last five years, with liquefied petroleum gas (LPG) cars making up the largest proportion. The number of electric vehicles (EVs) has grown,

although it represents a minor proportion (0.11 %) of total passenger car fleet numbers.

*EEA-33 - EU 28 + Iceland, Liechtenstein, Norway, Switzerland & Turkey

EESTI SÕIDUKIPARK

Sõiduki liik	Bensiin	Diisel	Alternatiivsed kütused*
Sõiduautod	62,5%	36,8%	0,7%
Bussid	1,1%	98,4%	0,5%
Veoa autod ja kaubikud	17,32%	82,52%	0,16%
Kokku	55,2%	44,15%	0,64%

BIOKÜTUSE KOHUSTUS TRANSPORDIS

- EL direktiiv 2009/28/EÜ kohustab liikmesriike võtma transportkütustes aastaks 2020 kasutusele vähemalt 10% energiamahu ulatuses taastuvast energiaallikast toodetud vedelkütusei
- Eesti on viimane liikmesriik, kes kohustust tutvustab. Senine tase 0,39% (elekter)
- EU komisjini transportkütuste taastuvallikate kokkuvõttes figureerib Eesti viimasel kohal
- Eelnõu koostatud koostöös erialaliitudega
- Seadus välja kuulutatud 21.04.2017

BIOKÜTUSTE KOHUSTUS EESTIS

- Tarbimisse lubatud kütus peab sisaldama minimaalselt järgmise osa biokütust:
 - ❖ 3,1% alates mai2018
 - ❖ 6,4% alates jaanuar2019
 - ❖ 10% alates2020,kuidvähemalt 6,4% igas liitris
- Erandid:
 - ❖ RON98
 - ❖ Talveperioodil tarbimisse lubatud diislikütus kuni1.aprill2019
 - ❖ –vedelkütusevarudest tarbimisse lubatud kütus

BIOMETAAN TRANSPORDIKÜTUSENA



VESINIKU TANKLAD EUROOPAS



PUUGAAS MOOTORIS

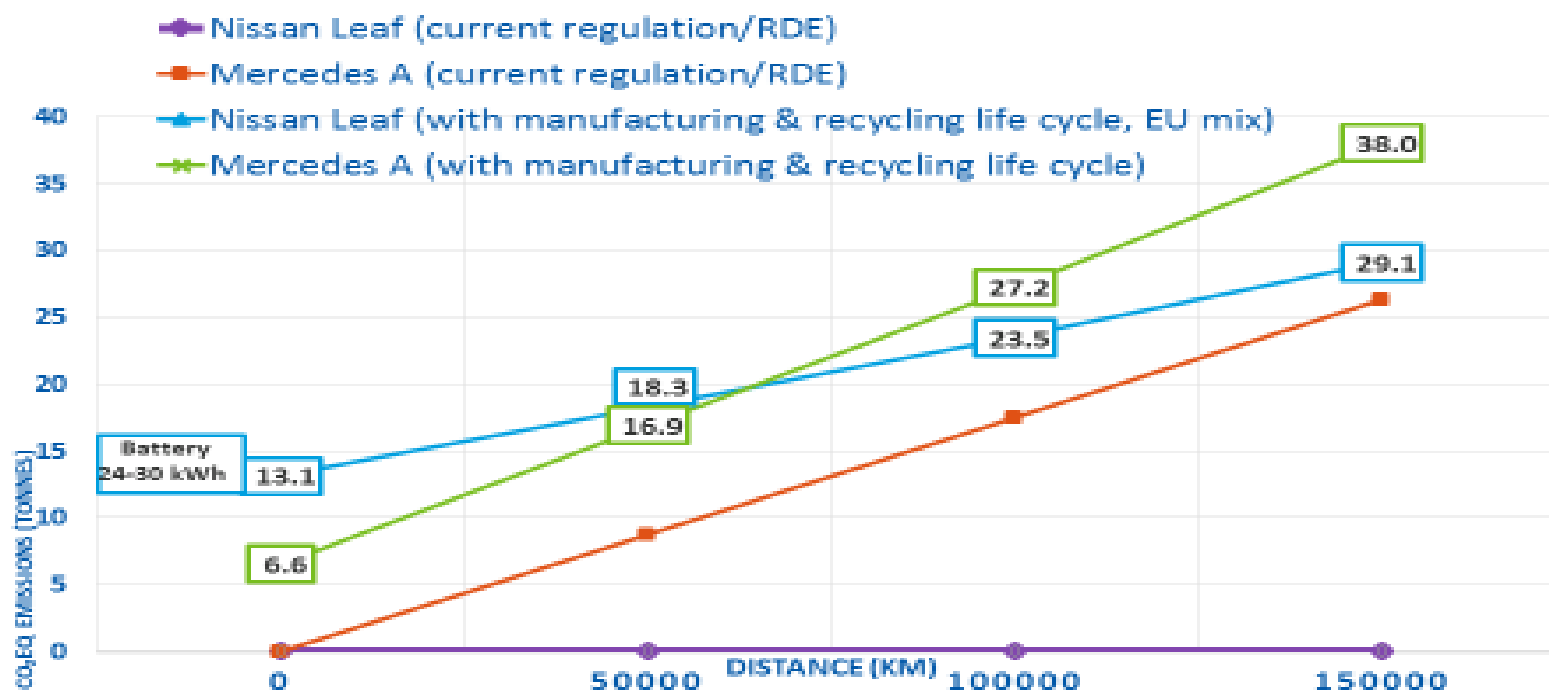


ISESÕITEV BUSS TALLINAS



TAVAAUTO VERSUS ELEKTRIAUTO

Life cycle GHG Impact: Nissan Leaf vs Mercedes A class



Sources: Concawe 2017, based on studies from Trondheim University, JEC & ICCT

KÜTUSEMÜÜJATE MURED

- VÕRDESED TINGIMUSED KÕIGILE TURUL OSALEJATELE
- MUST KÜTUSETURG
- PIKAJALISE RIIGI STRATEEGIA PUUDUMINE



TOOMAS SAKS
EESTI ÕLIÜHING
JUHATAJA

20.09.2017

Eesti Teaduste Akadeemia energeetikanõukogu