

# Country update Sweden

IEA Bioenergy TCP Task 39 Business Meeting  
2 April 2020

In summary:

*We are waiting...*

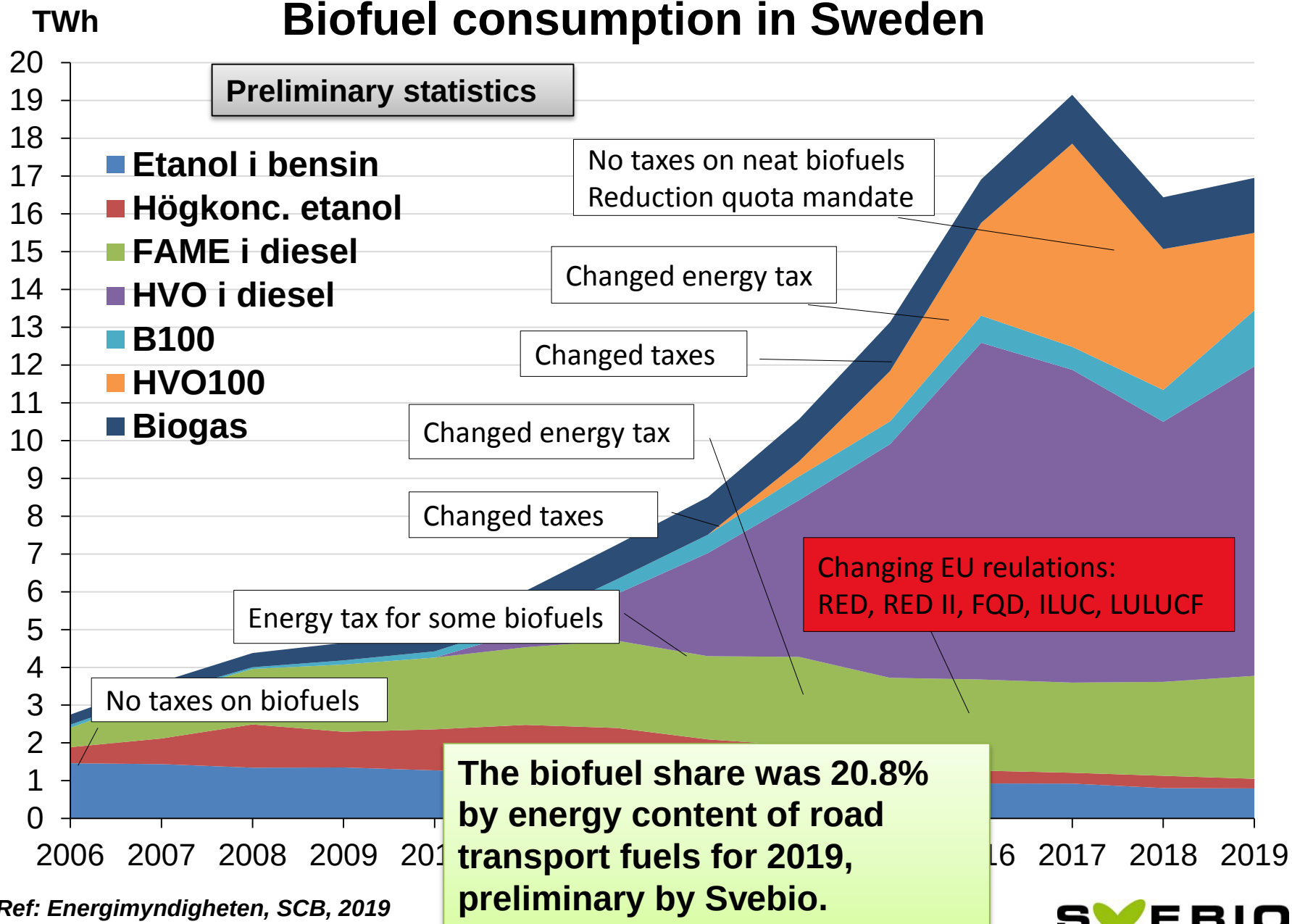


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Swedish Bioenergy Association

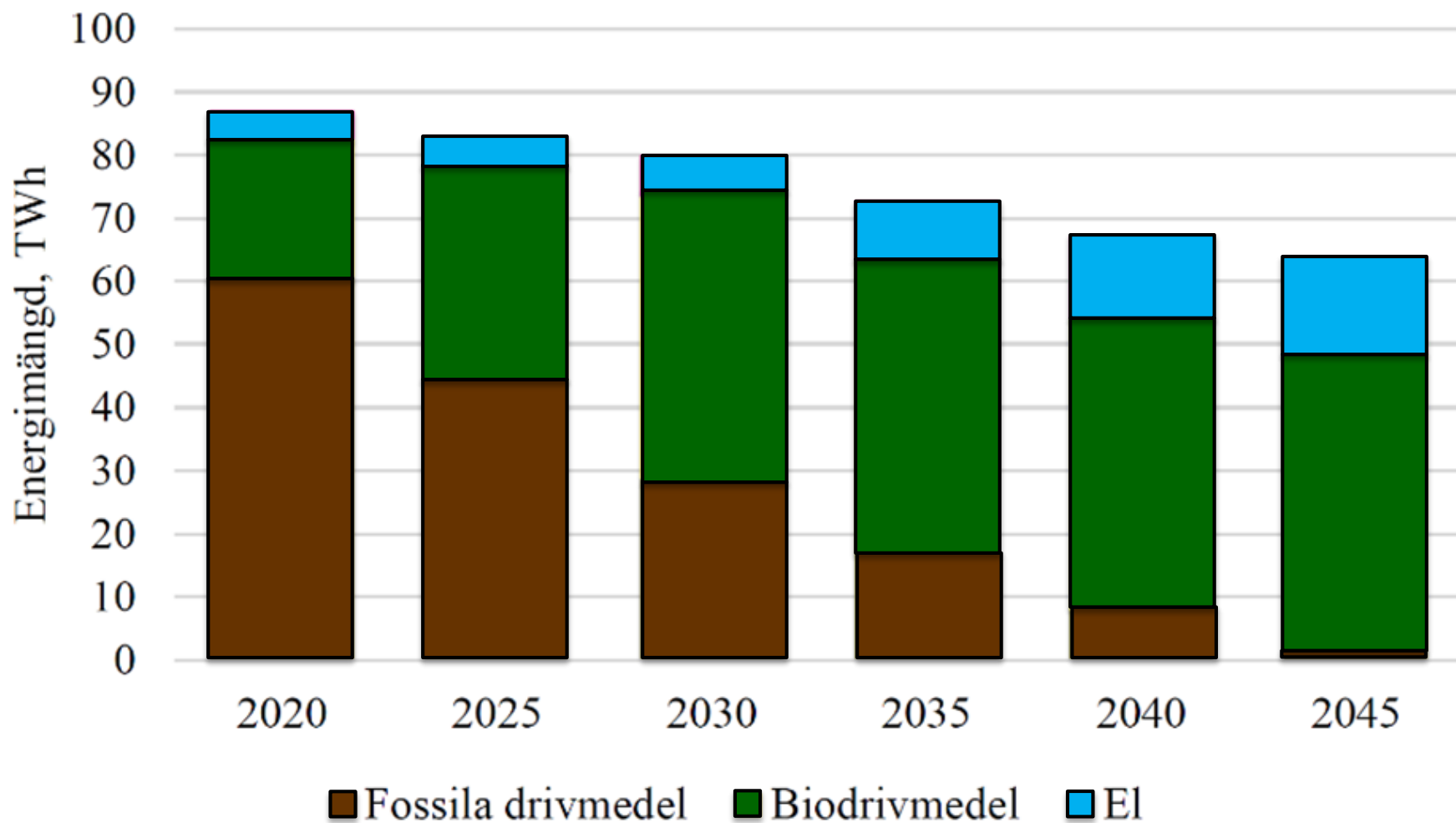
# Current fuel policy with taxes, uncertain after 2021

| Fuel           | Comment                                          | Taxes and policy                                       |
|----------------|--------------------------------------------------|--------------------------------------------------------|
| <b>Petrol</b>  | E5, 5% ethanol                                   | Reduction quota mandate<br>4.2% until 31 Dec 2020      |
| <b>Diesel</b>  | B7, 7% FAME +<br>15-25% HVO                      | Reduction quota mandate<br>21.0% until 31 Dec 2020     |
| <b>E85</b>     | Summer: 85% ethanol<br>Winter: 75% ethanol       | Full tax exemption for biofuel share to<br>31 Dec 2020 |
| <b>B100</b>    | RME100                                           | Full tax exemption to 31 Dec 2020                      |
| <b>HVO100</b>  | For some cars and most buses<br>and trucks       | Full tax exemption to 31 Dec 2020                      |
| <b>ED95</b>    | 95% ethanol for buses and<br>trucks              | Full tax exemption to 31 Dec 2020                      |
| <b>Bio-CNG</b> | Of all bio-CNG about 90% is<br>biogas, other CNG | Full tax exemption to 31 Dec 2020                      |

# Biofuel consumption in Sweden



## Estimated fuel consumption shows biofuels will be needed until 2045 and the bulk for replacing fossil fuels



# Svebio study proposes policy addons

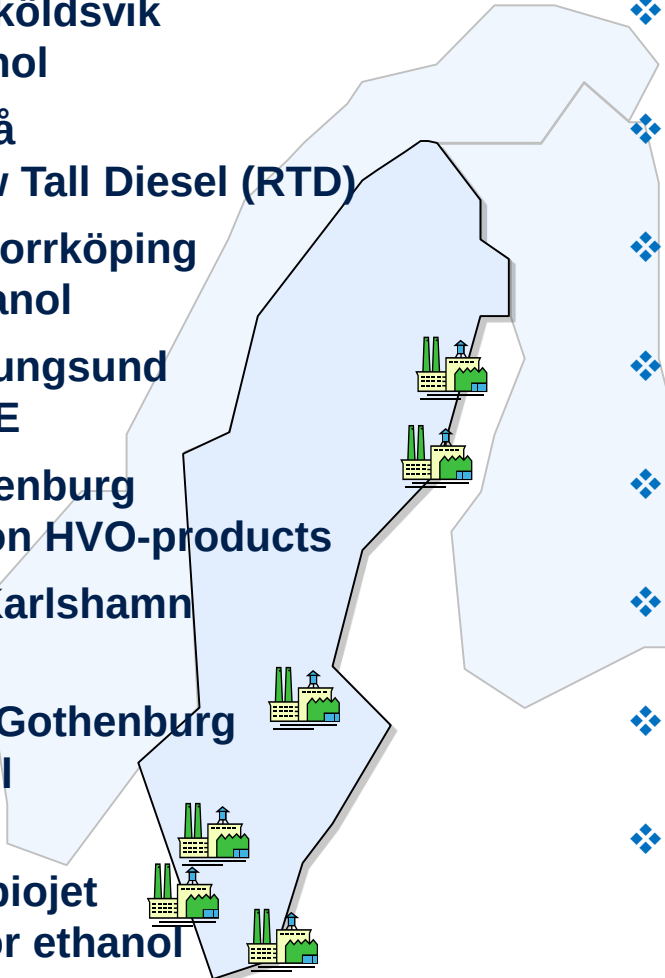
- “Contract for Difference”: state auctions for production volumes.
- Targeted reduction mandate: selected materials from Annex IX A in Renewable Energy Directive.
- Expanded reduction mandate: air and sea, to be combined with above.
- Elevated reduction mandate: increasing to 80-90%



# Promising development for new biofuel plants

## Plants in operation

- ❖ SEKAB in Örnsköldsvik  
23 000 m3 ethanol
- ❖ SunPine in Piteå  
100 000 m3 Raw Tall Diesel (RTD)
- ❖ Agroetanol in Norrköping  
230 000 m3 ethanol
- ❖ Adesso in Stenungsund  
148 000 ton RME
- ❖ Preemraff Gothenburg  
Circa 230 000 ton HVO-products
- ❖ Ecobräsle in Karlshamn  
55 000 ton RME
- ❖ NEOT @ St1 in Gothenburg  
5000 m3 ethanol
- ❖ Pilot plants at:  
Piteå for DME+biojet  
Örnsköldsvik for ethanol



## Plants in development

- ❖ Södra in Mörrum  
5000 ton biomethanol in 2020
- ❖ SunPine in Piteå  
50 000 m3 Raw Tall Diesel (RTD) 2021
- ❖ St1 Refinery in Gothenburg  
200 000 ton HVO biofuels 2022
- ❖ Pyrocell in Gävle  
26 400 ton pyrocruide 2022
- ❖ Preem Gothenburg w Diamond Green  
1-1.3 million ton biofuels 2024
- ❖ SCA in Östrand  
100 000 ton biofuels 2021
- ❖ RenFuel Lignolproduktion  
>200 000 ton crude bioliquids 2022
- ❖ SCA in Östrand  
200 000 ton biofuels 2024

*Selected plants, e.g. biogas plants not shown.*



# ADVANCED BI♥FUELS

15-17 September 2020, Stockholm, Sweden

S♥EBIO

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[www.svebio.se](http://www.svebio.se)