

**Estimates of the LOTOS Group's 2Q 2019 consolidated operating results and operating data**

Operating data for 2Q 2019:

**Exploration & Production segment:**

Hydrocarbon production in 2Q 2019

Production (boe/d)	Crude oil	Natural gas	Total
Norway	3 625	10 231	13 856
Poland <sup>1</sup>	3 953	382	4 335
Lithuania	691	-	691
<b>Total</b>	<b>8 269</b>	<b>10 613</b>	<b>18 882</b>

Upstream segment's sales in 2Q 2019

Sales (boe/d)	Crude oil	Natural gas	Total
Norway	3 050	10 954	14 004
Poland	4 606	24	4 631
Lithuania	518	-	518
<b>Total</b>	<b>8 173</b>	<b>10 978</b>	<b>19 152</b>

**Downstream segment:**

In 2Q 2019, the Grupa LOTOS refinery processed 2,749.5 thousand tonnes of crude oil.

Downstream segment's sales in 2Q 2019

Thousand tonnes	2Q 2019
Gasoline	386,1
Naphtha	131,1
Diesel	1 468,3
Light heating oil	41,9
Jet fuel	108,9
Heavy products <sup>2</sup>	511,7
Other <sup>3</sup>	237,8

<sup>1</sup> Lower production from Polish licenses was caused by shutdown on B8 field lasting from 20th June till 28th July

<sup>2</sup> Heavy fuel oil and bitumen components

<sup>3</sup> Other products include fuel and industrial gases, sulfur, base oils, xylene fraction, LPG, bunker fuel, extracts, raffinates, and slack wax