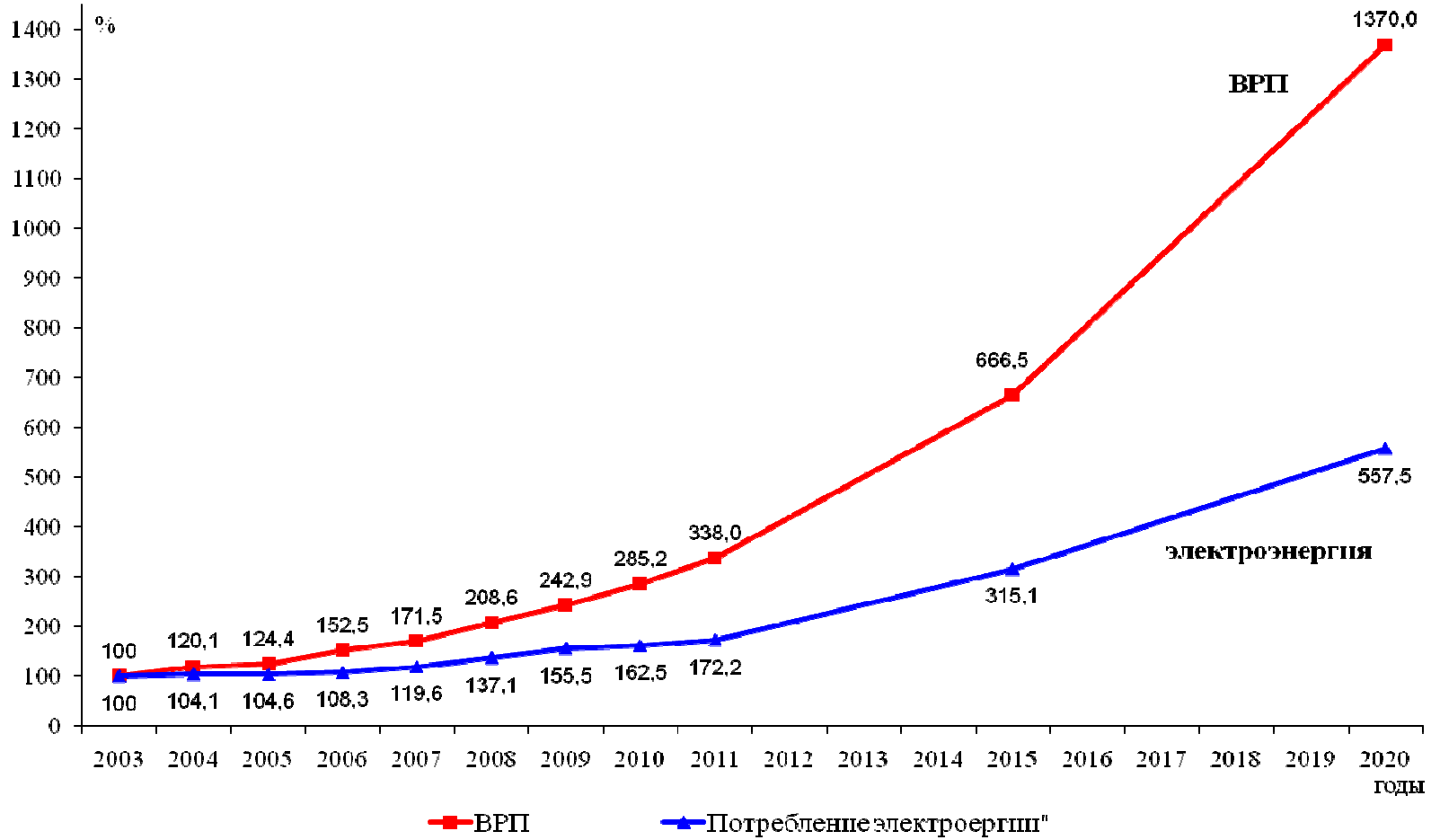
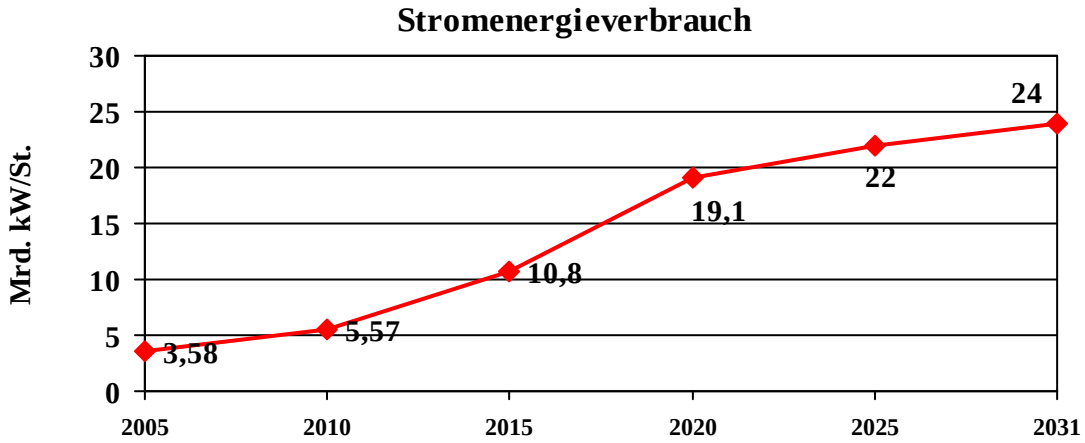
<u>Annex 3</u>: The regional context of the Kaliningrad electricity system

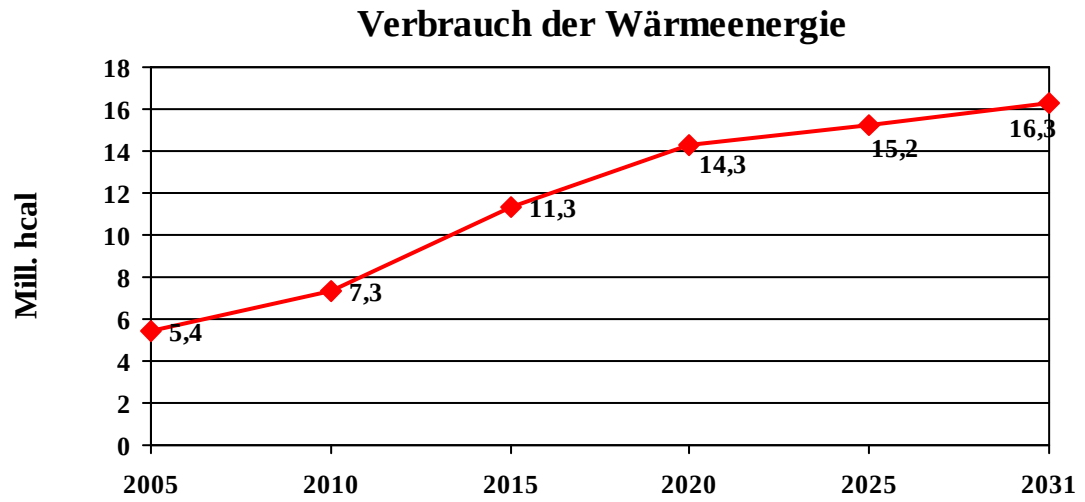
Annex 4: ***Comparison of economic growth and electricity consumption growth dynamics up to 2020 in KO***



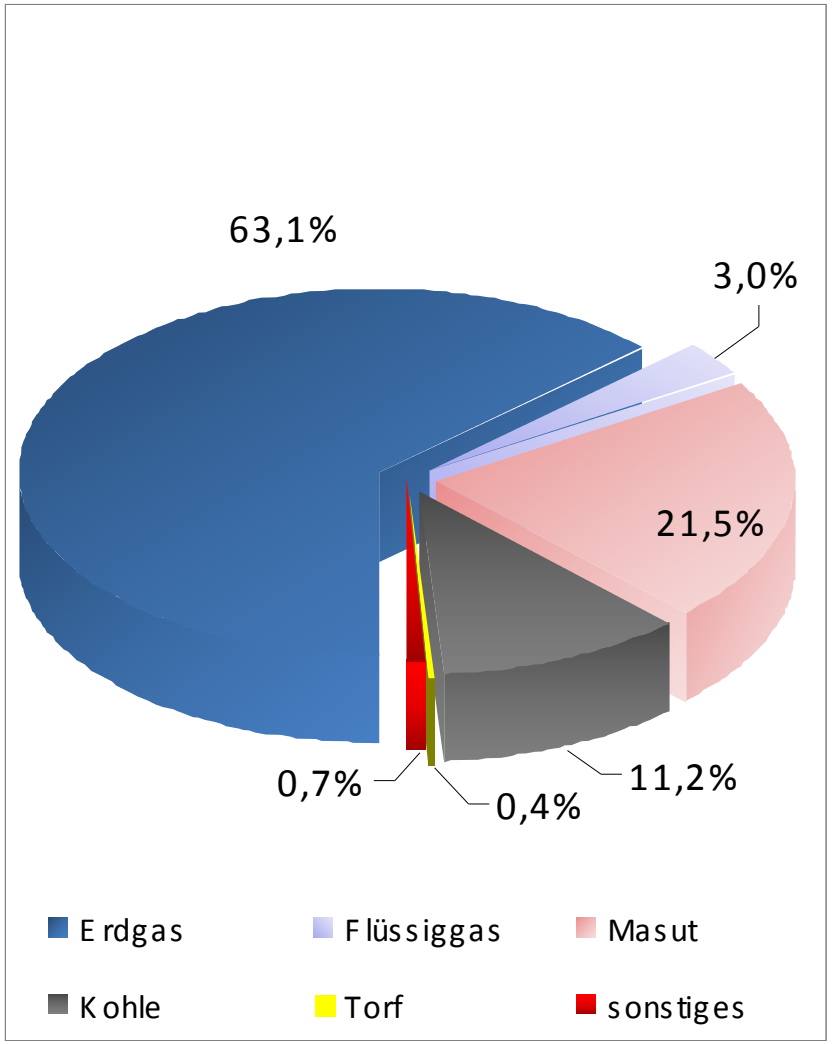
Source: Aleko 2007

Annex 5: Electricity and heat consumption forecast (bln. kWh, mln. Gcal)
(Source: Aleko 2007)





Annex 6: Fuel structure of boilers and stoves in 2006



Source: Aleko 2007

Annex 7: Overview of DH systems in selected municipalities of Kaliningrad Oblast

Municipality	Population (by 20000)	Share of DH supply	Number of boiler plants of different sizes					Fuel use, %					Average age of DH system (years)	Use of CHP
			>100MW	>20MW	>5MW	>1MW	>0MW	Gas	Coal	Mazut	Peat, firewood	Diesel oil		
Baltijsk	33,900	70	1	-	2	-	31	-	13	78	-	9	40	No
Chernyakhovsk	58,400	60	-	3	4	-	38	-	15	78	7 (peat)	-	40	No
Gurlevsk	46,700	50		1	-	1	31	45	40	5	-	-	30	No
Gusev	36,800	80	1	-	-	-	1	100	-	-	-	-	40	Yes
Kaliningrad	427,000	85	6	9	7	2	441	57	25	13	-	4	40	Yes*
Mamonovo	9,000	25	-	-	-	-	13	-	92	-	-	8	40	No
Neman	23,500	65	1	-	-	-	62	-	6	93	-	1	40	No
Sovetsk	43,400	85	1	-	-	-	33	-	20	80	-	2	40	Yes
Svetlyi	22,000	90	1	-	1	-	9	-	2	98	-	-	30	Yes*
Zelenogradsk	30,400	60	-	-	-	1	43	33	67	-	-	-	30	No

Source: excerpt from Delegation of the EU Commission/COWI Consortium 2007b, p.64.

* There are several large CHP plants in Kaliningrad, including TEZ-2. However, they are presently not operating in cogeneration mode. The same is the case in *Svetlyi*.