





**Taxes by regions of the Russian Federation by place of presence for 2017-2019, RUB mn**

Territory	2017		2018		2019	
	Regional budget	Local budget	Regional budget	Local budget	Regional budget	Local budget
Republic of Bashkortostan	21.4	2.6	20.1	4.8	17.4	6.0
Republic of Buryatia	-	-	0.2	-	1.1	-
Republic of Altai	0.4	-	0.4	-	0.3	-
Republic of Daghestan	1,804.5	4.2	1,693,5	5.7	1,698.9	3.7
Republic of Ingushetia	-	-	-	-	-	-
Kabardino-Balkarian Republic	1,032.8	5.4	766.1	5.7	873.2	5,0
Republic of Kalmykia	-	-	-	0,3	-	-
Karachayevo-Circassian Republic	758.7	2.9	786.9	3.4	768.4	2.7
Republic of Sakha (Yakutia)	3,220.4	75.4	2,660.7	69.2	3,319.4	60.8
Republic of North Ossetia - Alania	377.6	2.3	352.6	2.5	367.4	2.5
Udmurtian Republic	-	-	-	-	-	0.1
Republic of Khakassia	2,623.9	5.7	2,845.6	3.6	2,272.4	4.8
Chuvash Republic	613.7	5.1	556.0	5.3	561.7	5.6
Krasnodar Territory	1.5	-	1.9	-	2.2	-
Krasnoyarsk Territory	1,358.4	8.2	1,404.6	6.1	495.0	11.1
Primorye Territory	2,165.2	94.2	2,218.4	82.1	2,799.9	75.5
Stavropol Territory	471.4	42.9	427.5	40.6	423.4	18.2
Khabarovsk Territory	2,061.0	136.5	2,173.0	92.7	2,434.7	93.7
Amur Region	3,892.7	28.7	3,785.8	33.3	3,650.9	31.6
Volgograd Region	1,883.0	7.5	1,576.3	6.8	1,535.1	6.9
Irkutsk Region	15.2	0.8	0.9	0.3	2.9	-0.2
Kamchatka Territory	1,131.4	14.0	1,241.6	22.2	1,139.6	25.7
Kursk Region					0.1	-
Leningrad Region	14.5	70.2	18.9	56.9	16.4	2.9
Magadan Region	1,223.5	10.6	1,676.4	13.3	1,881.8	9.6
Moscow Region	865.0	199.5	762.5	198.5	710.7	149.6
Murmansk Region	8.6	-	8.2	-	10.1	-
Nizhny Novgorod Region	303.0	5.9	333.9	5.9	313.9	-
Novosibirsk Region	523.8	8.6	659.7	9.0	516.2	6.7
Perm Territory	795.5	0.1	911.9	0.2	868.9	0.1
Ryazan Region	68.0	0.6	54.6	0.6	79.0	0.7
Samara Region	1,777.9	1.4	1,981,9	1.4	1,524.6	1.4
Saratov Region	1,483.0	5.1	1,602.1	5.3	1,607.8	3.5
Sakhalin Region	626.0	15.1	853.3	21.6	735.7	21.7
Sverdlovsk Region	0.2	0.4	-	-	-	-
Smolensk Region	0.1	-	0.1	-	-	-
Yaroslavl Region	428.4	3.7	495.3	4.3	454.9	5.4
Moscow	1,496.8	20.3	1,636.2	14.0	2,039.1	15.8

Territory	2017		2018		2019	
	Regional budget	Local budget	Regional budget	Local budget	Regional budget	Local budget
St. Petersburg	156.7	4.3	151.3	3.5	1,349.0	4.9
Jewish Autonomous Region	138.9	3.1	159.2	3.0	182.6	3.5
Khanty-Mansi Autonomous Area	9.8	0.3	9.4	0.7	15.9	0.5
Chukotka Autonomous Area	263.7	1.8	407.7	10.1	291.8	14.0
Yamal-Nenets Autonomous Area	37.1	0.6	41.0	0.7	106.8	0.7
<b>Total</b>	<b>33,653.7</b>	<b>788.0</b>	<b>34,275.7</b>	<b>733.6</b>	<b>35,069.2</b>	<b>594.7</b>

### Key environmental achievements of 2019 as part of RusHydro Group's Implementation Program for the Environmental Policy

Branch/subsidiary	Initiatives
Votkinskaya HPP	<ul style="list-style-type: none"> <li>replacement of runner sealings on turbine No. 9;</li> <li>current repair of hydrotechnical facilities;</li> <li>modernization of external sewer networks of the hydrotechnical complex;</li> <li>replacement of turbine No. 5.</li> </ul>
Zeyskaya HPP	<ul style="list-style-type: none"> <li>replacement of sealings of the turbine runner vane (as part of the major overhaul of hydropower unit No. 5).</li> </ul>
Saratovskaya HPP	<ul style="list-style-type: none"> <li>modernization of turbines at units No. 1, 3, 5, 7, 9;</li> <li>cleaning flood debris and sunken wood from trash rakes.</li> </ul>
Kamskaya HPP	<ul style="list-style-type: none"> <li>current repairs of overflow dam – sealing off concrete surfaces;</li> <li>installation of storm drain metering station (issue No. 1);</li> <li>current repairs of drainage systems.</li> </ul>
Volzhskaya HPP	<ul style="list-style-type: none"> <li>replacement of oil-filled 220 kV cables with XLPE dry cables;</li> <li>repair of sealings of oil-filled runners of turbines;</li> <li>landscaping of upstream and downstream penstocks.</li> </ul>
Novosibirskaya HPP	<ul style="list-style-type: none"> <li>rehabilitation of hydropower unit No. 2 (turbine replacement).</li> </ul>
Cheboksarskaya HPP	<ul style="list-style-type: none"> <li>replacement of oil-filled circuit breakers ORU-220;</li> <li>rehabilitation of drainage water treatment facilities adjacent to the HPP building and storm and thaw water treatment facilities adjacent to the logistics base.</li> </ul>
PJSC Kolymaenergo	<ul style="list-style-type: none"> <li>development and implementation of the project of rehabilitation of 10 kV integrated switchgear (replacement of switches with vacuum ones, replacement of 10 kV switchgear protective relays with microprocessor switches).</li> </ul>
Boguchanskaya HPP	<ul style="list-style-type: none"> <li>fishery protection (ongoing monitoring);</li> <li>inspection to identify causes for poor performance of the waste water treatment process against discharge limits for oil-contaminated water (20 l/s).</li> </ul>
JSC DGK	<ul style="list-style-type: none"> <li>current and major repairs, testing, adjustment of duct collecting and aspiration bunkers, scrubber anti-corrosion protection, Venturi pipes at Blagoveshchenskaya CHPP, Raychikhinskaya CHPP, Primorskaya GRES, Neryungrinskaya GRES, Artyomovskaya CHPP, Vladivostokskaya CHPP-2, Partizanskaya GRES, Amurskaya CHPP, Komsomolskaya CHPP-2, Mayskaya GRES, Khabarovskaya CHPP-1, Khabarovskaya CHPP-3, Urgalskaya boiler plant;</li> <li>Repair of ash dump and sluice discharge piping at Blagoveshchenskaya CHPP, Chulamskaya CHPP;</li> <li>construction of dam at the 3rd tier of ash dump No. 2 (upstream</li> </ul>

Branch/subsidiary	Initiatives
	<p>dam) at Primorskaya GRES, construction of ash dump at Amurskaya CHPP, ash dump expansion at Khabarovskaya CHPP-3;</p> <ul style="list-style-type: none"> <li>• repair of clarified water treatment facilities and pump station at Blagoveshchenskaya CHPP, construction of a waste water treatment station at Khabarovskaya CHPP-2 using innovative technologies of biochemical purification and disinfection;</li> <li>• current repair of boiler No. 3 at Blagoveshchenskaya CHPP;</li> <li>• training and education of experts in waste management, environmental safety, environmental audit and management;</li> <li>• repair of industrial, storm and household drains at Vladivostokskaya CHPP-2, repair of equipment and facilities at sewage treatment plant of Mayskaya GRES;</li> <li>• rehabilitation of Khabarovskaya CHPP-1 and Khabarovskaya CHPP-3 to upgrade boilers and hot-water peaking boiler plant to feed on natural gas;</li> <li>• industrial environmental control.</li> </ul>
JSC DRSK	<ul style="list-style-type: none"> <li>• replacement of oil-filled electrical equipment with vacuum equipment;</li> <li>• industrial environmental control;</li> <li>• training and education of experts in waste management, environmental safety, environmental audit and management;</li> <li>• implementation of measures to improve the environmental management system.</li> </ul>
PJSC Magadanenergo	<ul style="list-style-type: none"> <li>• replacement of oil-filled electrical equipment with vacuum equipment;</li> <li>• rehabilitation of gas treatment units of medium pressure boiler units at Magadanskaya CHPP.</li> </ul>
PJSC Mobile Energy	<ul style="list-style-type: none"> <li>• introduction of gas monitors.</li> </ul>
PJSC Kamchatskenergo	<ul style="list-style-type: none"> <li>• replacement of oil-filled electrical equipment with insulated equipment;</li> <li>• development of the design of treatment facilities for domestic, industrial and storm water at CHPP-1.</li> </ul>
PJSC Sakhalinenergo	<ul style="list-style-type: none"> <li>• repair, adjustment and testing of boiler equipment (including ash collection units);</li> <li>• installation of metering devices, calibration, repair and adjustment of emission devices;</li> <li>• replacement of oil-filled electrical equipment with vacuum or SF6 gas equipment, which contains no oil, or with equipment with lower oil content.</li> </ul>
JSC Chukotenergo	<ul style="list-style-type: none"> <li>• maintenance and repair of ash and slag pipes;</li> <li>• tests on dust collecting equipment and measurements of gaseous effluents from boilers of Anadyr CHPP and Chaunskaya CHPP.</li> </ul>
JSC UESK	<ul style="list-style-type: none"> <li>• flue gas scrubbing from smoke and dust using special equipment (cyclones);</li> <li>• major overhaul of the hydropower unit No. 3 of SHPP-4;</li> <li>• major overhaul of the closed switchgear of Ust-Kamchatsk diesel power plant No. 23, including replacement of oil switches with vacuum ones;</li> <li>• modernization of Atlasovo boiler plant.</li> </ul>
PJSC Yakutskenergo	<ul style="list-style-type: none"> <li>• development of technical measures and advanced design solutions for the replacement of the cooling tower at Yakutskaya GRES (1 section);</li> <li>• replacement of oil-filled circuit breakers with vacuum ones.</li> </ul>
JSC Sakhaenergo	<ul style="list-style-type: none"> <li>• replacement of oil-filled circuit breakers with vacuum ones;</li> <li>• current repairs to prevent air inflow at uniflow cyclone and multi-cyclone of Deputatsky CHPP;</li> <li>• replacement of uninsulated self-supporting wires.</li> </ul>

Branch/subsidiary	Initiatives
JSC LUR	<ul style="list-style-type: none"> <li>• water spraying (dust suppression) of roads, coal faces and open-pit crushing and screening area;</li> <li>• repair of oil separators at vehicle handling facilities in the mining area.</li> </ul>

**Assessment and controls over environmental impact at all stages of the projects of the RusHydro Group life cycle**

Stage	Controls over environmental impact
Planning (pre-project stage)	<ul style="list-style-type: none"> <li>• R&amp;D with a focus on environment;</li> <li>• preliminary environmental impact assessment for new construction and rehabilitation planning.</li> </ul>
Design	<ul style="list-style-type: none"> <li>• Environmental impact assessment: assessment of the facility impact on environment in order to decide whether construction or rehabilitation is feasible;</li> <li>• designing initiatives to ensure the required level of environmental safety.</li> </ul>
Construction	<ul style="list-style-type: none"> <li>• implementation and follow-up on the initiatives provided for by the projects, aimed at ensuring environmental safety;</li> <li>• compliance with environmental laws during construction and installation.</li> </ul>
Operation	<ul style="list-style-type: none"> <li>• industrial environmental control: initiatives preventing any deviation from the given level of environmental safety;</li> <li>• voluntary initiatives to preserve biodiversity and improve environmental awareness among employees and communities.</li> </ul>

### Plans to Finance the construction of low-carbon energy generation facilities

Project	The start year of the project implementation	Year of completion of the project	Estimation of the total cost of the investment project in the forecast prices of the corresponding years, RUB mn (with VAT)	The balance of financing of capital investments in the forecast prices of the corresponding years, RUB mn (with VAT) at January 1, 2020	Financing of capital investments in the forecast prices of the corresponding years, RUB mn (with VAT)						Total for the period 2020-2025
					2020	2021	2022	2023	2024	2025	
Ust-Srednekanskaya HPP	1991	2023	76,927.3	23,369.4	6,228.0	7,822.2	6,767.4	2,551.8	0.0	0.0	<b>23,369.4</b>
Solar generation unit at Nizhne-Bureyskaya HPP	2019	2020	155.7	155.5	155.5	0.0	0.0	0.0	0.0	0.0	<b>155.5</b>
Ust-Dzhegutinskaya SHPP	2012	2020	1,684.2	433.8	433.8	0.0	0.0	0.0	0.0	0.0	<b>433.8</b>
Barsuchkovskaya SHPP	2012	2020	1,551.3	495.0	495.0	0.0	0.0	0.0	0.0	0.0	<b>495.0</b>
Krasnogorskaya SHPP-1	2017	2021	7,310.9	6,758.0	1,057.9	5,700.1	0.0	0.0	0.0	0.0	<b>6,758.0</b>
Krasnogorskaya SHPP-2	2017	2022	7,454.3	6,887.6	1,367.7	3,312.0	2,208.0	0.0	0.0	0.0	<b>6,887.6</b>
Verkhnebalkarskaya SHPP	2011	2020	3,706.1	483.9	483.9	0.0	0.0	0.0	0.0	0.0	<b>483.9</b>
Photovoltaic power system (Vladivostok,	2020	2020	5.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	<b>5.0</b>

Project	The start year of the project implementation	Year of completion of the project	Estimation of the total cost of the investment project in the forecast prices of the corresponding years, RUB mn (with VAT)	The balance of financing of capital investments in the forecast prices of the corresponding years, RUB mn (with VAT) at January 1, 2020	Financing of capital investments in the forecast prices of the corresponding years, RUB mn (with VAT)						Total for the period 2020-2025
					2020	2021	2022	2023	2024	2025	
Primorye Territory, Russky Island)											
Development and testing of a hybrid container-type energy storage system as part of a distributed network with renewable energy sources (Vladivostok, Primorye Territory, Russky Island)	2020	2020	18.0	18.0	18.0	0.0	0.0	0.0	0.0	0.0	<b>18.0</b>
Construction of a 0.3 MW wind turbine in Ust-Kamchatsk	2019	2021	185.3	150.8	66.8	84.0	0.0	0.0	0.0	0.0	<b>150.8</b>
Construction of a 900 kW wind power plant in Tiksi,	2017	2020	290.0	12.7	12.7	0.0	0.0	0.0	0.0	0.0	<b>12.7</b>



Project	The start year of the project implementation	Year of completion of the project	Estimation of the total cost of the investment project in the forecast prices of the corresponding years, RUB mn (with VAT)	The balance of financing of capital investments in the forecast prices of the corresponding years, RUB mn (with VAT) at January 1, 2020	Financing of capital investments in the forecast prices of the corresponding years, RUB mn (with VAT)						Total for the period 2020-2025
					2020	2021	2022	2023	2024	2025	
Bulunsky District											
Construction of a 3,000 kW diesel power plant with an energy storage unit for the wind diesel power station in Tiksi, Bulunsky District	2018	2021	1,458.7	704.4	585.6	118.9	0.0	0.0	0.0	0.0	<b>704.4</b>

**GRI 102-8 Headcount of the workforce by type of employment, employment contract, and gender in 2019**

Gender	Full-time employees	Switched to part-time work	Working under indefinite employment contracts	Working under fixed-term employment contracts
Male	47,140	115	45,012	2,243
Female	22,038	254	21,120	1,172
<b>Total</b>	<b>69,178</b>	<b>369</b>	<b>66,132</b>	<b>3,415</b>

**GRI 405-1 Headcount of employees by gender, category and age in 2019**

Age group	Managers		Specialists and employees		Blue-collar		Total
	Male	Female	Male	Female	Male	Female	
<25 years	24	4	226	271	1,369	156	<b>2,050</b>
25-34 years	1,281	217	2,538	3,336	7,019	1,022	<b>15,413</b>
35-44 years	2,665	797	2,562	4,654	8,006	1,666	<b>20,350</b>
45-54 years	2,441	751	1,479	2,994	7,865	2,069	<b>17,599</b>
>55 years	1,731	565	1,204	1,818	6,976	1,841	<b>14,135</b>
<b>Total</b>	<b>8,142</b>	<b>2,334</b>	<b>8,009</b>	<b>13,073</b>	<b>31,235</b>	<b>6,754</b>	<b>69,547</b>