Contact person: Help desk (contact centre) / Phone: 6259 300 / E-mail: klienditugi@stat.ee / Postal address: Vabaduse plats 2, 71020 Viljandi

Statistical activity: 20206

Controls and autosums in questionnaire: Power plant

Code of the questionnaire: 10242022 Is submitted: 1.02.2022, data about 2021
Periodicity: Annual

A field with a grey background has been automatically filled online. The data in this field cannot be changed, they are visible after saving.
If the data you entered are inconsistent internally or with the prefilled data, an error message appears upon checking. If errors (warnings) appear, check the data carefully and make corrections.
In the case of warnings (if you are sure that the data you entered are correct), click on " Confirm warnings" button and confirm the questionnaire.

Mandatory fields in the questionnaire are marked with a red asterisk.

CONTROLS

Controls in table 2. CAPACITY, MW

Control ID	Control formula	Clarification	Type of error
22556	{ELJ_3_11_1}>={ELJ_3_14_1}	Inconsistent data. Installed electrical capacity at the end of the year (row 11) cannot be smaller than net capacity at the end of the year (row 14).	Error
22744	{ELJ_3_11_2}>={ELJ_3_14_2}	Inconsistent data. Installed thermal capacity at the end of the year (row 11) cannot be smaller than net capacity at the end of the year (row 14).	Error

Controls in table 3. CONSUMPTION OF FUELS AND PRODUCTION OF ENERGY

Control ID	Control formula	Clarification	Type of error
21363	KUI ({ELJ_4_3}>0), SIIS ({ELJ_4_1}>0)	Empty field. If the quantity of fuel consumed for electricity production in combined heat and power generation (column 3) has been marked, also mark the average calorific value of fuel (column 1).	Error
21364	KUI ({ELJ_4_4}>0), SIIS ({ELJ_4_1}>0)	Empty field. If the quantity of fuel consumed for thermal energy production (column 4) has been marked, also mark the average calorific value of fuel (column 1).	Error
21365	KUI ({ELJ_4_5}>0), SIIS ({ELJ_4_1}>0)	Empty field. If the quantity of fuel consumed for thermal energy production in combined heat and power generation (column 5) has been marked, also mark the average calorific value of fuel (column 1).	Error
21366	KUI ({ELJ_4_2}+{ELJ_4_3}>0), SIIS ({ELJ_4_1}>0)	Empty field. If the quantity of fuel consumed for electricity production incl. combined heat and power generation (column 2 and/or column 3) has been marked, also mark the average calorific value of fuel (column 1).	Error
21367	KUI ({ELJ_4_4}+{ELJ_4_5}>0), SIIS ({ELJ_4_1}>0)	Empty field. If the quantity of fuel consumed for thermal energy production incl. combined heat and power generation (column 4 and/or column 5) has been marked, also mark the average calorific value of fuel (column 1).	Error
21368	KUI ({ELJ_4_8}+{ELJ_4_9}>0), SIIS ({ELJ_4_4}+{ELJ_4_5}>0)	Empty field. If the quantity of heat produced, incl. combined heat and power generation (column 8 and/or column 9) has been marked, also mark fuels consumed for production of heat, incl. combined heat and power generation (column 4 and/or column 5).	Error

21369	KUI ({ELJ_4_39_5}+{ELJ_4_7}>0), SIIS ({ELJ_4_2}+{ELJ_4_3}>0)	Empty field. If the quantity of electricity produced incl. combined heat and power generation (column 6 and/or column 7) has been marked, also mark fuels consumed for electricity generation, incl. combined heat and power generation (column 2 and/or column 3).	Error
21370	{ELJ_4_3}<={ELJ_4_2}	Inconsistent data. The quantity of fuel consumed for electricity generation in combined heat and power generation (column 3) cannot be bigger than total quantity of fuel consumed for electricity generation (column 2).	Error
21371	{ELJ_4_5}<={ELJ_4_4}	Empty field. The quantity of fuel consumed for heat generation in combined heat and power generation (column 5) cannot be bigger than total quantity of fuel consumed for heat generation (column 4).	Error
21372	{ELJ_4_7}<={ELJ_4_39_5}	Empty field. The quantity of electricity produced from combined heat and power generation (column 7) cannot be bigger than total quantity of electricity production (column 6).	Error
21373	{ELJ_4_9}<={ELJ_4_8}	Empty field. The quantity of heat produced from combined heat and power generation (column 9) cannot be bigger than total quantity of heat production (column 8).	Error
27698	KUI ({EN_4_1_19}=1020), SIIS (BETWEEN({ELJ_4_1},22000,28000))	The calorific value of coal is between 22000 and 28000 kJ/kg.	Error
27727	KUI ({EN_4_1_19}=1111), SIIS (BETWEEN({ELJ_4_1},4000,6200))	The calorific value of fuelwood is between 4000 and 6200 kJ/m³.	Error
27728	KUI ({EN_4_1_19}=1112), SIIS (BETWEEN({ELJ_4_1},2500,8000))	The calorific value of wood chips is between 2500 and 8000 kJ/m³.	Warning
27729	KUI ({EN_4_1_19}=1113), SIIS (BETWEEN({ELJ_4_1},16000,18000))	The calorific value of wood pellets is between 16000 and 18000 kJ/kg.	Error
27730	KUI ({EN_4_1_19}=1114), SIIS (BETWEEN({ELJ_4_1},16000,18000))	The calorific value of briquette is between 16000 and 18000 kJ/kg.	Error
27731	KUI ({EN_4_1_19}=1115), SIIS (BETWEEN({ELJ_4_1},2500,3400))	The calorific value of wood waste is between 2500 and 3400 kJ/m³.	Error
27732	KUI ({EN_4_1_19}=1116), SIIS (BETWEEN({ELJ_4_1},2500,3400))	The calorific value of forestry waste is between 2500 and 3400 kJ/m³.	Error
27733	KUI ({EN_4_1_19}=1131), SIIS (BETWEEN({ELJ_4_1},6000,11000))	The calorific value of milled peat is between 6000 and 11000 kJ/kg.	Error
27734	KUI ({EN_4_1_19}=1132), SIIS (BETWEEN({ELJ_4_1},10000,13000))	The calorific value of sod peat is between 10000 and 13000 kJ/kg.	Error
27735	KUI ({EN_4_1_19}=1133), SIIS (BETWEEN({ELJ_4_1},15000,17000))	The calorific value of peat briquette is between 15000 and 17000 kJ/kg.	Error
27736	KUI ({EN_4_1_19}=1140), SIIS (BETWEEN({ELJ_4_1},7400,15900))	The calorific value of municipal waste is between 7400 and 15900 kJ/kg.	Error
27737	KUI ({EN_4_1_19}=1150), SIIS (BETWEEN({ELJ_4_1},7400,15900))	The calorific value of industrial waste is between 7400 and 15900 kJ/kg.	Error
27738	KUI ({EN_4_1_19}=1190), SIIS (BETWEEN({ELJ_4_1},7400,15900))	The calorific value of refuse derived fuel is between 7400 and 15900 kJ/kg.	Error
27739	KUI ({EN_4_1_19}=1200), SIIS (BETWEEN({ELJ_4_1},7000,11000))	The calorific value of oil shale is between 7000 and 11000 kJ/kg.	Error
27740	KUI ({EN_4_1_19}=2030), SIIS (BETWEEN({ELJ_4_1},39000,42000))	The calorific value of heavy fuel oil is between 39000 and 42000 kJ/kg.	Error
27741	KUI ({EN_4_1_19}=2040), SIIS (BETWEEN({ELJ_4_1},42000,44000))	The calorific value of light fuel oil is between 42000 and 44000 kJ/kg.	Error
27742	KUI ({EN_4_1_19}=2051), SIIS (BETWEEN({ELJ_4_1},42000,44000))	The calorific value of diesel is between 42000 and 44000 kJ/kg.	Error
27743	KUI ({EN_4_1_19}=2110), SIIS (BETWEEN({ELJ_4_1},38000,40000))	The calorific value of shale oil (heavy fraction) is between 38000 and 40000 kJ/kg.	Error
27744	KUI ({EN_4_1_19}=2120), SIIS	The calorific value of shale oil (light fraction) is between 42000 and 44000 kJ/kg.	Error

	(BETWEEN({ELJ_4_1},42000,44000))		
27745	KUI ({EN_4_1_19}=2150), SIIS (BETWEEN({ELJ_4_1},7000,8000))	The calorific value of black liquor is between 7000 and 8000 kJ/kg.	Error
27746	KUI ({EN_4_1_19}=3010), SIIS (BETWEEN({ELJ_4_1},32000,34000))	The calorific value of natural gas is between 32000 and 34000 kJ/m³.	Error
27747	KUI ({EN_4_1_19}=3090), SIIS (BETWEEN({ELJ_4_1},16000,21000))	The calorific value of green gas (biomethane) is between 16000 and 21000 kJ/m³.	Error
27748	KUI ({EN_4_1_19}=3110), SIIS (BETWEEN({ELJ_4_1},3000,55000))	The calorific value of shale oil gas is between 3000 and 55000 kJ/m³.	Error
27749	KUI ({EN_4_1_19}=3150), SIIS (BETWEEN({ELJ_4_1},16000,21000))	The calorific value of sewage sludge is between 16000 and 21000 kJ/m³.	Error
27750	KUI ({EN_4_1_19}=3160), SIIS (BETWEEN({ELJ_4_1},16000,21000))	The calorific value of landfill gas is between 16000 and 21000 kJ/m³.	Error

Controls in table 6. TIME SPENT ON FILLING OUT THE QUESTIONNAIRE (incl. for preparing the data)

Control ID	Control formula	Clarification	Type of error
20053	{TAITMISEAEGMINUTIT}<=59	Maximum permitted value is 59 minutes. Time exceeding 60 minutes shall be indicated in hours and minutes.	Error
20054	{TAITMISEAEGTUNDI}+{TAITMISEAEGMINUTIT}>0	The time spent on filling in the questionnaire must be recorded and the sum of hours and minutes must be more than 0. The time spent means time spent by all employees to read questionnaire instructions, collect and prepare data and fill in the questionnaire.	Error
20055	{TAITMISEAEGTUNDI}<=999	Maximum permitted value is 999 hours.	Error

Controls across tables

Control ID	Control formula	Clarification	Type of error
1420	KUI ({ELJ_1_1}=167),SIIS({ELJ_3_11_2}>={ELJ_3_12_2})	Inconsistent data. Installed thermal capacity (column 2 row 11) cannot be smaller that installed thermal capacity with combined heat and power generation (column 1 row 12)	Error
1421	KUI({ELJ_1_1}=167), SIIS(ROUND({ELJ_3_12_1}*1000)>=ROUND(({ELJL_11_3}+{ELJL_21_3}+{ELJL_31_3})*1000))	Inconsistent data. Installed electrical capacity with combined heat and power generation at the end of the year (Table 2, column 1 row 12) cannot be smaller than the sum of rows 12_3, 12_2 and 12_1, column 1.	Error
21027	KUI({TEGEVUSALA_KIR}=1289 JA {ELJ_5_3}>0),SIIS(TABEL(39542006))	Empty field. If net production of electricity (Table 5 row 1) has been marked, also mark the consumption of fuel and energy production (Table 3).	Error
21728	KUI ({ELJ_1_1}=167), SIIS(({ELJL_11_2}+{ELJL_21_2}+{ELJL_31_2})>0)	Empty field. If the reported type of electricity generation is “combined heat and power plant” (Table 1), also mark the number of turbines in the combined heat and power plant (Table 1.1 column 1).	Error
21729	KUI (({ELJL_11_2}+{ELJL_21_2}+{ELJL_31_2})>0), SIIS({ELJL_11_3}+{ELJL_21_3}+{ELJL_31_3}>0)	Empty field. If the number of turbines in a combined heat and power plant (Table 1.1 column 1) has been marked, also mark the electrical capacity of turbines (Table 2 column 1 row 12_3 and/or row 12_2 and/or row 12_1).	Error
21730	KUI (({ELJL_11_2}+{ELJL_21_2}+{ELJL_31_2})>0), SIIS({ELJL_11_4}+{ELJL_21_4}+{ELJL_31_4}>0)	Empty field. If the number of turbines in a combined heat and power plant (Table 1.1 column 1) has been marked, also mark the thermal capacity of turbines (Table 2 column 2 row 12_3 and/or row 12_2 and/or row 12_1)	Error
22153	KUI({ELJ_1_1}=168), SIIS ({EN_M_1_11_1}>0)	Empty field. If the reported type of electricity generation is “hydro-power plant” (Table 1), also mark the quantity of hydro-power generation (Table 4 row 1).	Error
22154	KUI({ELJ_1_1}=169), SIIS ({EN_M_1_12_1}>0)	Empty field. If the reported type of electricity generation is “wind-power plant” (Table 1), also mark the quantity of wind power generation (Table 4 row 2).	Error
22501	KUI({ELJ_1_1}=167), SIIS (TABEL(39542006))	In case of combined wind and power generation also fill out Table 3.	Error

22502	KUI({ELJ_1_1}=167), SIIS (ROUND({ELJ_3_12_2}*1000)>=ROUND(({ELJL_11_4}+{ELJL_21_4}+{ELJL_31_4})*1000))	Inconsistent data. Installed thermal capacity with combined heat and power generation at the end of the year (Table 2 column 2 row 12) cannot be smaller than the sum of rows 12_3, 12_2 and 12_1, column 2 in Table 2.	Error
22503	KUI({ELJ_1_1}=167),SIIS({ELJ_3_11_1}>={ELJ_3_12_1})	Inconsistent data. Installed electrical capacity (column 1 row 11) cannot be smaller than the installed electrical capacity with combined heat and power generation (column 1 row 12).	Error
22738	KUI({ELJL_11_2}>0), SIIS ({ELJL_11_3}>0)	Empty field. If the number of back pressure turbines in a combined heat and power plant (Table 1.1 row 1) has been marked, also mark the electrical capacity of the back pressure turbines (Table 2 column 1 row 12_3).	Error
22739	KUI ({ELJL_11_2}>0), SIIS ({ELJL_11_4}>0)	Empty field. If the number of back pressure turbines in a combined heat and power plant has been marked, also mark the thermal capacity of the back pressure turbines	Error
22740	KUI({ELJL_21_2}>0), SIIS({ELJL_21_3}>0)	Empty field. If the number of steam condensing turbines in a combined heat and power plant (Table 1.1 row 2) has been marked, also mark the electrical capacity of the steam condensing turbines (Table 2 column 1 row 12_2).	Error
22741	KUI({ELJL_21_2}>0), SIIS({ELJL_21_4}>0)	Empty field. If the number of steam condensing turbines in a combined heat and power plant (Table 1.1 row 2) has been marked, also mark the thermal capacity of the steam condensing turbines (Table 2 column 1 row 12_2).	Error
22742	KUI({ELJL_31_2}>0), SIIS({ELJL_31_4}>0)	Empty field. If the number of internal combustion engines in a combined heat and power plant (Table 1.1 row 3) has been marked, also mark the thermal capacity of the internal combustion engines (Table 2 column 2 row 12_1).	Error
22743	KUI({ELJL_31_2}>0), SIIS({ELJL_31_3}>0)	Empty field. If the number of internal combustion engines in a combined heat and power plant (Table 1.1 row 3) has been marked, also mark the electrical capacity of the internal combustion engines (Table 2 column 1 row 12_1).	Error
23539	KUI ({ELJ_1_1}=170), SIIS ({ELJ_5_3}>0)	Empty field. If the reported type of electricity generation is “other type of generation” (Table 1), also mark the net production of electricity (Table 5).	Error
25214	{ELJ_1_1}=168 JA {EN_M_1_11_1}>0	Data error. If the enterprise’s activity is “production of electricity from hydro energy” or EMTAK 35112, the type of power plant (Table 1) should be “hydro-power plant” and total hydro energy production (row 1 Table 4) should be filled in.	Error
25215	{ELJ_1_1}=169 JA {EN_M_1_12_1}>0	Data error. If the enterprise’s activity is “production of electricity from wind energy” or EMTAK 35113, the type of power plant (Table 1) should be “wind-power plant” and total wind energy production (row 2 Table 4) should be filled in.	Error
25216	KUI({ELJ_1_1}=168 VÕI {ELJ_1_1}=169), SIIS ({ELJ_3_12_1}=0)	Inconsistent data. If the reported type of power plant (in Table 1) is "hydro-power plant" or "wind-power plant", the power plant’s maximum electrical capacity with combined heat and power generation (row 12 column 1 Table 2) should be equal to zero.	Error

AUTOSUMS

Autosums in table 3. CONSUMPTION OF FUELS AND PRODUCTION OF ENERGY

Row name	Column name	Formula	Clarification
	Total quantity of fuels consumed in combined heat and power generation process	{ELJ_4_3}+ {ELJ_4_5}	