

ANNEX

1.1 Annex A: Export, Import, Trade Deficit Data

	Export to RU	Total Export of Turkey	Import from RU	Total Import of Turkey	Export Deficit	Total Trade between RU & TR
2013	7 213 894	161 480 915	26 046 541	260 822 803	- 18 832 646	33 260 435
2014	6 170 452	166 504 862	25 411 700	251 142 429	- 19 241 248	31 582 153
2015	3 684 263	150 982 114	20 744 050	213 619 211	- 17 059 787	24 428 313
2016	1 792 916	149 246 999	15 467 237	202 189 242	- 13 674 321	17 260 153
2017	2 869 847	164 494 619	20 097 027	238 715 128	- 17 227 180	22 966 874
2018	3 652 603	177 168 756	22 710 751	231 152 483	- 19 058 148	26 363 355
2019	4 152 137	180 832 722	23 115 236	210 345 203	- 18 963 099	27 267 373
2020	4 506 681	169 637 755	17 829 309	219 516 807	- 13 322 628	22 335 989
2021	5 774 392	225 214 458	28 959 361	271 425 553	- 23 184 969	34 733 753
2022	9 342 796	254 169 748	58 848 948	363 710 575	- 49 506 153	68 191 744

Value Source : TÜİK, Exports by country and year (top 20 country in exports)
 Thousand US (general trade system) & Imports by countries, 2013-2023 (general trade system)

1.2 Annex B: Timeline for Process Tracing

Date	Event	Event Description	Source
1953	"Atoms for peace proposal in 1953 initiated interest to enter the nuclear age"		Kaba, 2016, p. 40
1955	"Bilateral agreement with the US on cooperation on the civilian use of the atomic energy"		Kaba, 2016, p. 40
1957	"Turkey become member of the International Atomic Energy Agency and construction of small research reactors began"		Kaba, 2016, p. 42
1968	"Turkey and Nuclear has been considered important in the design of the nation since the second 5 year development plan"		Kaba, 2016, p. 41
1977	"Talks started with Swedish firms but were canceled in 1979"		Udum, 2010, p. 115

1982	"The Atomic Energy of Canada Limited (AECC), Siemens-Kraftwerk Union (KWU) of Germany and General Electric (GE) of the United States were asked to submit bids"		Udum, 2010, p. 116
	The Statute No. 7405, on "Licensing Nuclear Facilities" entered into force in 1983. In November 1983, the negotiations with AECL, KWU and General Electric started. ³³⁴		Udum, 2010, p. 116
August 1984	"In August 1984, there was an agreement, the government declared that it changed the basic provision of the tender from turn key to build-operate-transfer (BOT). However, it discouraged the KWU and General Electric. On the basis of the turn-key agreement, it was agreed that a PHWR (Pressurized Heavy Water Reactor) and PWR would be built in Akkuyu, and then two BWR power plants in Sinop"	"result of the Canadian government's decision that the BOT was too risky. ³³⁷ Then, the AECL also faced financial problems when it asked a loan guarantee from the Canadian government and banks, and could not receive it from the former. ³³⁸ "	Udum, 2010, p. 117
26.04.1986	Chernobyl Disaster		

<p>May of 1988</p>	<p>"Without a tangible result from the talks with Canadian and German firms, Turkey sought other cooperative ventures in the nuclear field, and signed a nuclear cooperation agreement with Argentina"</p>	<p>"The talks with Argentine firms could not advance because of the decision to appoint the former head of Argentina's nuclear energy commission as the new ambassador to Turkey. This decision caused unease on the part of the United States, the Soviet Union, Germany and Brazil. The United States worried that this technology could be transferred to Pakistan". 119 udum</p>	<p>Udum, 2010, p. 117</p>
<p>1988</p>	<p>"The new administration of the TEK closed the Nuclear Power Plants Department in 1988 on the grounds that it was no longer necessary"</p>		<p>Udum, 2010,p. 118</p>
<p>1992</p>	<p>"Energy Ministry report presented nuclear power as an indispensable .349 option to prevent the energy shortage in the following two decades."</p>		<p>Udum, 2010, p. 121</p>
<p>1995</p>	<p>"In 1995, TEAŞ, in order to make the preliminary analysis of the Nuclear Power Plant (NPP) tender, awarded a consultancy contract to a South Korean firm, the Korea Atomic Energy Research Institute</p>		<p>Udum, 2010, p. 122</p>

	(KAERI), for the construction of 1,200 MWe nuclear plant to be built in Akkuyu.352”		
1997	“The tender announcement specified that the bids would be turnkey and with 100% financing. In early 1997, TEAŞ announced the bidders to construct the .353 Akkuyu nuclear power plant The period between 1996 and early 1997 was the initial phase of the bidding process, and during that time, it was reported that them AECL tried to convince Prime Minister Necmettin Erbakan on the grounds that the Canadian technology would render Turkey self-sufficient in nuclear power, because it used natural uranium instead of enriched uranium, by which TEAŞ could exploit domestic uranium resources		Udum, 2010,p. 122
1997	“Erbakan government ended with a crisis in early 1997, he was succeeded by the Mesut Yılmaz government. Yılmaz was determined to strengthen relations with the United States. The United States, Germany and France stepped up their lobbying activities respectively for Westinghouse, and for the NPI (Nuclear Power International: The Siemens-Framatome Consortium).”354		Udum,2010 , p. 123
April of 2000	“The Energy Minister, Ersümer, declared the decision by the government to postpone the nuclear-plant project until July 2000 due to financial constraints as a result of the IMF-backed economic 363 program.” 124		Udum, 2010, p. 124
25.07 .2000	“The late Prime Minister Ecevit declared that the tender for the nuclear power plants was cancelled due to the shortage of funds to construct the power plant.”		Udum, 2010, p. 124
2000	“The cancellation of the tender in 2000 gave confidence to the anti-nuclear movement.”		Udum, 2010,p. 125

2004	Putin has warned about Turkey about Gülenist movement		Aktürk, 2019
14.01 .2004	“Turkey and the United States agreed to cooperate on them civilian uses of nuclear energy, and the agreement was ratified by the Parliament on 2004”.	and allocated funds for research on domestic technology. The most important issue was financing. 130 (about akp gov and npp)	Udum, 2010, p. 126
08.20 08	“Yildiz announced, following Russian President Putin's August visit, that the GoT would take a 25 percent stake in the project in return for a lowered price, observers objected that more companies may have bid if these terms had been laid out at the start.”	Government of Turkey (GoT)	Wikileaks, Silliman, 2008
24.09 .2008	“While the licensing work was continuing for the Sinop site, the government opened the tender (which it calls a “competition”) for Akkuyu (which already had a license) and on September 24, 2008, some six consortiums responded, with only one filing a proposal: The Atomstroyexport-Inter Rao-Park Teknik consortium”.		Udum, 2010, p. 131
10.11 .2008	“Decision by the Council of State (Danistay) to suspend several articles of the regulation governing the tender, regarding land allocation, determination of offtake prices, and necessary bidder qualifications”		Wikileaks, Silliman, 2008

18.11 .2008	“On November 18, Yildiz told the ambassador he wants the projects to begin in 2010 and may need "to break some rules" to move quickly. When asked by the press about the new tenders, Yildiz said, "let's not call it a 'tender process' but a 'process.'”		Wikileaks, Silliman, 2008
20.11 .2008	“November 20, the Turkish Electricity Trading and Contracting Company (TETAS) canceled the September 2008 tender to build and operate Turkey's first nuclear power plant.”		Wikileaks, Silliman, 2008
24.11 .2008	“November 24, Nilgun Acikalin, deputy general director for energy affairs at the Ministry of Energy, told econ officer and specialist that whether the projects go forward through a tender process or some new public-private structure, the nuclear tender law will have to be revised significantly, which will impede the minister's goal of getting the projects underway in 2010.”		Wikileaks, Silliman, 2008
19.12 .2008	“TAEK announced that the evaluation of the proposal is complete, and confirmed that the proposal met the criteria. It was then submitted to TETAŞ, the authorized institution to open the third letter submitted by the consortium, which contained the price per kWh.”		Udum, 2010, p. 131
19.01 .2009	“TETAŞ declared that the Turkish-Russian consortium’s offer was 21.16 cents per kWh, which far exceeded the expectations for an economical energy investment. ³⁹⁷ Although it was acknowledged that nuclear power plant investments were expensive, this price tag was unaffordable for the government and did not meet the policy criteria of cost-effectiveness. The acceptable price would be in the range of 10-12 cents.”		Udum, 2010, p. 132
12.05 .2010	“The countries made a joint decision that Akkuyu nuclear power plant,. The relevant agreement was signed between the Government of the Russian		Akkuyu

	Federation and the Government of the Republic of Turkey in Ankara on May 12, 2010.”		
13.12 .2010	“On December 13, 2010, AKKUYU NUCLEAR Joint-Stock Company was incorporated to implement the project to create the first nuclear power plant in the Republic of Turkey.”		Akkuyu
2014	“The Ministry of Environment and Urbanization of the Republic of Turkey approved the Environmental Impact Assessment (EIA) report for Akkuyu NPP construction project.”		Akkuyu
2015	“The ceremony of laying the foundation of the offshore hydraulic structures of the nuclear power plant was held.”		Akkuyu
2015	The Turkish Energy Market Regulatory Authority (EPDK) issued AKKUYU NUCLEAR JSC a preliminary license for electricity generation.		Akkuyu
2015	A contract was signed with the Turkish company Cengiz İnşaat to design and build the offshore hydraulic engineering structures of the nuclear power plant.		Akkuyu
30.09 .2015	Russian Military intervention in the Syrian Civil War Started		
19.11 .2015	"Andrey Karlov, RU ambassador of Ankara, was summoned by TR F. Min. First time in a long time, warned about jet breaching”		Çelikpala, 2019, p. 18
23.11 .2015	“Putin said The Assad regime & PYD need to unite forces”		Anadolu Agency, 2015
24.11 .2015	Shutdown of SU-24		BBC, 2015
9.12. 2015	“Russia halts work in Turkey's first NPP “(NOT CONFIRMED)	Rosatom apparently stopped construction work	Reuters, 2015

17.12 .2015	"Putin says decision on Turkey NPP plant will be Purely Commercial"		Reuters, 2015
15.07 .2016	Coup attempt by FETO	Russia is one of the first to state support for elected president Erdoğan, the US was much slower and hesitant.	Aktürk, 2019
17.07 .2016	Putin called Erdoğan about the coup, expressed condolences and wished for the restoration of order.		Aktürk, 2019
9.08. 2016	Erdoğan & Putin meet first time after jet incident, first meeting after normalization		MFA, 2016
9.08. 2016	"Putin: Ankara Makes Positive Decision on Resuming Akkuyu, Turkish Stream"		Sputnik Internati onal, 2016
24.08 .2016	"Operation Euphrates, (against ISIS)		
15.06 .2017	"The project to construct four nuclear reactors has repeatedly run into delays, including being briefly halted after Turkey downed a Russian jet near the Syrian border in November 2015. Ties have since normalized between the two countries and work on the plant has resumed."		Reuters, 2017
2017	"The Turkish Atomic Energy Authority (TAEK) approved the design parameters for the Akkuyu NPP site."		Akkuyu
2017	"The Energy Market Regulatory Authority issued AKKUYU NUCLEAR JSC a license to generate electricity valid until June 15, 2066 (49 years)."		Akkuyu
2017	"The Turkish Atomic Energy Authority issued a limited work permit to AKKUYU NUCLEAR JSC which was a significant step on the way to the NPP Construction License."		Akkuyu

2017	“A solemn ceremony of construction commencement took place at the Akkuyu NPP site within the framework of the limited work permit (LWP). Under the LWP, construction and installation work was started at all facilities of the nuclear power plant, except for buildings and structures related to the safety of the "nuclear island".”		Akkuyu
29.12 .2017	“Turkey and Russia sign a deal on supply of S-400 missiles”		Gumrukcu & Toksabay, 2017
20.01 .2018	Operation Olive Branch		
3.04. 2018	“On April 3, 2018, a solemn ceremony of pouring “first concrete” into the foundation of the first power unit of Akkuyu NPP was held with the participation of the Presidents of the Russian Federation and the Republic of Turkey via videoconference from Ankara. The ceremony became an official kick-off of full-scale construction work on Unit 1.		Akkuyu
2- 3.05. 2018	Albayrak met with PRC, energy officials & nuclear energy president, Wang Fengxu as well.		MFA, 2018
17.09 .2018	"Russia and Turkey agree to create buffer zone in Syria's Idlib"	"Idlib was resolved with an agreement btw RU-TR presidents in Sochi”	Reuters, 2018
2018	“In April AKKUYU NUCLEAR JSC received the full status of a strategic investor in the Republic of Turkey. An updated strategic investment certificate was issued based on the law on the status of "Strategic Investment", which had entered into force on March 27, 2018. The status of a strategic investor provides for tax and customs benefits.”		Akkuyu

2018	“Turkish Atomic Energy Authority (TAEK) granted AKKUYU NUCLEAR JSC the main construction license to build Power Unit 1.”		Akkuyu
2018	“TAEK issued AKKUYU NUCLEAR JSC a limited work permit for the construction of Power Unit 2 of Akkuyu NPP.”		Akkuyu
2019	“Excavation works of the foundation pit for the facilities of Power Unit 2 began within the framework of the received LWP.”		Akkuyu
2019	“Concreting of the foundation of the reactor building of Power Unit No. 1 was completed. Package of documents was sent to TAEK to obtain the construction license for Power Unit 3 of Akkuyu NPP.”		Akkuyu
2019	“In May 2019 the construction of the Eastern (Vostochny) Cargo Terminal was completed, and the Ministry of Transport, Shipping and Communications of the Republic of Turkey gave the permission for its operation. The terminal is designed to receive bulky cargoes, building materials and equipment, including components of reactor facilities, at the construction stages and further during the operation of the nuclear power plan”		Akkuyu
2019	“AKKUYU NUCLEAR JSC was issued the main construction license for Power Unit 2 of Akkuyu NPP by the decision of the Board of the Turkish Nuclear Regulatory Authority (NDK).”		Akkuyu
2019	“An agreement was signed to connect Akkuyu NPP to the power grid of the Republic of Turkey between AKKUYU NUCLEAR JSC and the Turkish Electricity Transmission Joint-Stock Company (TEİAŞ). The conclusion of this agreement will enable AKKUYU NUCLEAR JSC and TEİAŞ to commence full-scale work on the Akkuyu NPP grid integration scheme to be comprised of 6 high-voltage transmission lines to connect Akkuyu NPP to the power grid of Turkey.”		Akkuyu

8.04. 2020	“On April 8 The construction of Akkuyu NPP Unit 2 was officially started, the foundation plate of the reactor building was laid.””		Akkuyu
2020	“The drilling and blasting works planned within the scope of the foundation pit for the construction of nuclear island facilities in the construction area of Unit 3 started.”		Akkuyu
2020	“The application documents required for obtaining the construction license of Akkuyu NPP Unit 4 were submitted to the NDK.”		Akkuyu
2020	“Second tier of internal containment shell was installed at Akkuyu NPP Unit 1.”		Akkuyu
2020	“Core catcher for Unit 2 delivered to Akkuyu NPP site.”		Akkuyu
2020	“Reactor pressure vessel dry shielding, a safety component providing reliable NPP operation in emergencies including earthquakes of intensity up to 9 points, was installed at Unit 1”		Akkuyu
2020	“Concrete pouring of two buildings’ foundation slabs completed at Akkuyu NPP Unit 2. Four steam generators for Unit 1 delivered to Akkuyu NPP site.”		Akkuyu
2020	“Equipment of major importance for Unit 1 – the reactor pressure vessel – delivered to Akkuyu NPP site, having covered a distance of 3,000 kilometers.”		Akkuyu
2020	“Installation of the core catcher vessel into design position completed in the reactor building of Unit 2.”		Akkuyu
2020	“The Board of Nuclear Regulatory Authority approved the issue of construction license for Unit 3 in favor of AKKUYU NUCLEAR JSC.”		Akkuyu

2020	“The first tier of the internal containment shell (ICS) was installed on Unit 2. The inner containment is one of the key elements of the containment safety system of the reactor compartment. It ensures imperviousness inside the reactor building under any operating conditions of the nuclear power plant. Support truss, which is one of the most important elements of the reactor shaft equipment, installed on Unit 1. Elements of the reactor shaft equipment of the Unit 2 were delivered to the construction site.”		Akkuyu
2021	“First heavy component of the turbine set for Unit 1 delivered to Akkuyu NPP site.”		Akkuyu
2021	“Unit 1 reactor pressure vessel installation is completed at Akkuyu NPP construction site. Installation of the reactor vessel is carried out using the "Open Top" technology.”		Akkuyu
2021	“Third and fourth tiers of the internal containment shell installed at Akkuyu NPP Unit 1 reactor building. Preparations for the construction of Unit 4 started at Akkuyu NPP site.”		Akkuyu
2021	“Second tier of internal containment shell and main elements of reactor shaft, including support truss and thrust truss, installed on Akkuyu NPP Unit 2.”		Akkuyu
2021	“The Board of Nuclear Regulatory Authority approved the issue of construction license for Akkuyu NPP Unit 4 to AKKUYU NUCLEAR JSC.”		Akkuyu
2021	“Construction of the foundation slab for the pump station of Akkuyu NPP Unit 1 began.”		Akkuyu
10.03 .2021	“A solemn ceremony dedicated to the start of construction of Akkuyu NPP Unit 3 took place on 10 of March. The ceremony was attended by Russian President Vladimir Putin and Turkish President Recep Tayyip Erdogan via video conference. The event was held at Akkuyu NPP site with the participation of Energy and Natural Resources Minister of Turkey Fatih Dönmez, Russian State Atomic Energy Corporation		Akkuyu

	Rosatom Director General Alexey Likhachev, AKKUYU NUCLEAR JSC CEO Anastasia Zoteeva and other officials. The leaders of the two countries launched the laying of the "first concrete" in the foundation of Unit 3.”		
24.02 .2022	Russian invasion of Ukraine		
2022	“Fifth and sixth tier of the containment installed at the reactor Akkuyu NPP Unit 1.”		Akkuyu
2022	“A set of 4 steam generators for Akkuyu NPP Unit 2 was delivered to the East Cargo Terminal.”		Akkuyu
2022	“Welding of the reactor coolant pipeline at Akkuyu NPP Unit 1 has been completed.”		Akkuyu
2022	“The first large-size equipment - a core catcher - is installed in the reactor building of Unit 3 of the Akkuyu NPP.”		Akkuyu
2022	“The reactor pressure vessel is installed at Unit 2 of the Akkuyu NPP.”		Akkuyu
2022	“The sixth layer of the inner containment has been installed at Unit 1.”		Akkuyu
2022	“The second layer of inner containment was installed at Unit 3.”		Akkuyu
2022	“A temporary desalination plant has started operating at the Akkuyu NPP construction site.”		Akkuyu
2022	“An overhead crane was installed at the turbine hall of Unit 1.”		Akkuyu
2022	“There was a flushing of process systems to the open reactor at Unit 1.”		Akkuyu
2022	“The inner containment dome has been installed in the Reactor Building of Unit 1.”		Akkuyu
14.06 .2022	"Aleksey Overchuk come to Ankara to talk behind close doors"	cont. Talks about changing currency from dollar to rouble by bypassing	Yetkin, 2022

		embargo, Turkey needs investment, cheaper energy prices	
17.07 .2022	4th Power Unit Opening Ceremony		T.C. Enerji Bakanlığı
21.07 .2022	“4th Power Unit Opening Ceremony everything is fine/ many were praised”		Yetkin, 2022
21.07 .2022	“On July 21, 2022, a ceremony was held to mark the start of construction of Unit 4. The Akkuyu NPP project has entered its peak construction phase.”		Akkuyu
25.07 .2022	"Rosatom Collected bids from potential creditors to provide a 6.1 billion credit line to finance Akkuyu Nuclear JSCA its subsidiary in Turkey"		Soylu, 2022
28.07 .2022	“TR - Rosatom decided to pursue the credit line 1 day before its subsidiary Akkuyu Nuclear JSC canceled its contract with the TurkishRussian contractor Titan 2 İç İçta, citing various violations such as security and insurance.”		Soylu, 2022
29.07 .2022	Erdoğan announces he will visit Putin in Sochi		Yetkin, 2022
29.07 .2022	After the announcement, the İçtaş company was fired.		Yetkin, 2022
30.07 .2022	“A contract was signed with TSM Energy Construction Industry Limited Company for the project, which is in its final stages of construction in Akkuyu, which will be Turkey's first nuclear power plant. Within the scope of the existing subcontracts in the Akkuyu NPP Project, all ongoing work has been transferred to TSM.”		CNN türk, 2022
3.08. 2022	Middle E. Eyes Ragıp Soylu reported Rosatom had signed a deal with Gazprombank on this day		Yetkin, 2022
5.08. 2022	Meeting between Putin & Erdoğan in Sochi(Akkuyu issue was not resolved)		Yetkin, 2022

9.08. 2022	Erdoğan met with officials both from Rosatom & Akkuyu, the committee agreed that there would be joint report	Slow due to Russian resources exchange negotiations with Treasury and finance ministry	Yetkin, 2022
11.08 .2022	"The Ministry of Energy makes a statement regarding Akkuyu, it's not all perfect, we have faced some issues. "		Cumhuriyet , 2022
3.09. 2022	Putin and Erdoğan talked about Akkuyu report		Yetkin, 2022
14.09 .2022	"Rosatom published deal signed on August 3,	opens a line of credit to finance Akkuyu nuclear JSC, its subsidiary in Turkey.	Yetkin, 2022
13.10 .2022	At The Astana Meeting, Putin & Erdoğan , talking points were supposed to be UA & grain deals, but talked about Turkey and energy hub.		Yetkin, 2022
13.10 .2022	Supposedly, Russia even talked about constructing additional pipeline	but when asked to E. Min of Tr, he didn't even know this topic	Yetkin, 2022
29.10 .2023	Start producing electricity in Akkuyu		Tccb, 2022

