

2016 – 2020

# Nuclear Trade Atlas

C. Versino, P. Heine, S. Cagno, H. Seger, J. Carrera

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*Nuclear Trade Atlas 2016–2020*

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*May 29, 2023*

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## *Abstract*

Building on prior work developing a Strategic Trade Atlas promoting understanding of global trade flows of strategic goods, a Nuclear Trade Atlas was developed based on publicly available trade data. The Nuclear Trade Atlas examines trade patterns and trends for seventeen commodities based on a two-step assessment of the trade's nuclear relevance: first estimating the probability that trade classified under a given Harmonized System (HS) code represents a specific commodity included in the export control lists of the Nuclear Suppliers Group, and second estimating the probability that the listed, often dual-use, commodity would be indicative of nuclear use. These estimates combine to provide a measure of the likelihood trade classified under a given HS code may be nuclear relevant. By exclusively focusing on the HS codes most highly ranked by this measure, the resulting data visualizations comprising the Nuclear Trade Atlas provide those responsible for regulating or monitoring nuclear trade greater understanding of relevant global trading patterns and trends. The Atlas includes both commodity- and country-based views of nuclear trade. It is published as a book and as an interactive tool. Besides trade data, the interactive Atlas also includes data about countries' non-proliferation commitments, allowing users to take this information into consideration while analyzing specific trade flows.



## 1. Introduction

The Nuclear Trade Atlas builds on previous Strategic Trade Atlases [1, 2] that aimed to enhance the effectiveness and efficiency of strategic trade control efforts. By making more accessible and understandable insights available in publicly available trade data and raising awareness of national and global trade in strategic commodities, the Strategic Trade Atlases enabled officials to better focus their trade control efforts, select companies for outreach and audit, target transactions for analysis, verification, and inspection, and assess potential economic impacts of trade control policies.

Prior Strategic Trade Atlases took a broad view of strategic trade as they were originally designed to support Strategic Trade Control Enforcement efforts by World Customs Organization members [3]. This Nuclear Trade Atlas takes a more focused view on nuclear-relevant trade to better serve officials and analysts working in the fields of nuclear nonproliferation, export control, and safeguards – as discussed in Section 3. As such, the Nuclear Trade Atlas profiles a much narrower range of commodities deemed most likely to be nuclear relevant through a process described below.

A two-step process established which Harmonized System (HS) [4] commodity codes were most likely to represent nuclear-relevant trade. The probability that a commodity trade flow is nuclear relevant given an HS code,  $P(\text{nuclear} | \text{HS})$ , depends both on how strongly associated the commodity is with nuclear use and on how strongly correlated the HS code is with the commodity. The following formula was used to estimate  $P(\text{nuclear} | \text{HS})$ :

$$P(\text{nuclear} | \text{HS}) = P(\text{nuclear} | \text{NSG}) P(\text{NSG} | \text{HS})$$

where:

- $P(\text{NSG} | \text{HS})$  is the probability that trade classified under the HS code will meet a particular Nuclear Suppliers Group (NSG) control specification [5, 6]. This is the proportion of trade classified under the HS code that corresponds to the commodity of interest relative to the proportion of trade under the HS code corresponding to other commodities. This order of magnitude of this value was estimated by trade control experts based on their knowledge of the HS, nuclear control lists, related correlation tables, and actual trade data.

[1] C. Versino, P. Heine, J. Carrera. *Strategic Trade Atlas 2014–2018. Country- and Commodity-Based Views*. ISBN 978-92-76-20404-6, 2020.

[2] C. Versino, P. Heine, J. Carrera. *Strategic Trade Atlas 2015–2019. Country- and Commodity-Based Views*. ISBN 978-92-76-42353-9, 2021.

[3] World Customs Organization. *Strategic Trade Control Enforcement (STCE). Implementation Guide*, 2019.

[4] World Customs Organization. *Harmonized System*.

[5] Nuclear Suppliers Group. *Guidelines for Nuclear Transfers*, 2019.

[6] Nuclear Suppliers Group. *Guidelines for Transfers of Nuclear-Related Dual-Use Equipment, Materials, Software and Related Technology*, 2022.

- $P(\text{nuclear} \mid \text{NSG})$  is the probability that a particular commodity meeting a NSG control specification would be used for nuclear purposes. This is the relative proportion of nuclear uses of the controlled commodity relative to the proportion of other uses. The order of magnitude of this value was estimated by nuclear domain experts based on their knowledge of nuclear and commercial applications of each commodity.

The resulting list of HS codes and corresponding nuclear-relevant commodities selected for inclusion is shown in Section 2. Because this process eliminated all but 17 commodities, the Nuclear Trade Atlas provides more robust commodity-based views than did previous Strategic Trade Atlases. These are described in Section 4 and shown in Appendix A. The Nuclear Trade Atlas also provides country-based views (Section 5 and Appendix B).

In addition to country- and commodity-based profiles, the Atlas also includes a big picture view of nuclear trade, organised in a Commodity  $\times$  Country matrix. This synthesis view, presented in Section 6, provides further insights into the comparative level of nuclear exports when measured on the world scale.

The Nuclear Trade Atlas is available also in online format. While the online views of the Atlas are analogous to those presented in this book, the interactive use of the online views provides context information and additional data details on demand. This is illustrated in Section 7.

Finally, the data underlying the Nuclear Trade Atlas is published for download in slices of five years of data to allow independent use and analysis. The structure of the Atlas data files is detailed in Section 8.

## 2. Setting up a database for the Nuclear Trade Atlas

Open source data on international trade originate from goods declarations made by importers and exporters to Customs authorities. A trade flow is generally reported independently from two sides, the importer and the exporter. The data are collected and processed by national statistical offices, then shared<sup>1</sup> in global databases making world trade measurable and amenable to analysis. Examples of statistical trade databases are the *United Nations Commodity Trade Statistics Database* (UN Comtrade) [7] and the *Base pour l'Analyse du Commerce International* (BACI) [8, 9].

A trade data record includes standard dimensions and measures such as:

- the data-reporting country;
- the country partner in trade;
- the commodity traded, i.e. described in the HS nomenclature;
- the trade flow, as import or export, re-import or re-export;
- the time period in which the trade has taken place, specified at the yearly or monthly level; and
- aggregated trade along the above dimensions, measured by value (e.g., in US Dollars) and quantity (e.g., in kg).

Trade data in commodities of interest can be accessed either by queries on the data provider website or by downloading batches of data records.

Data underlying the Nuclear Trade Atlas are derived from the BACI data set [8, 9], a statistical elaboration of UN Comtrade data that takes into account asymmetries in import and export trade valuation and reliability of country reporting based on comparisons of reported imports and exports.

<sup>1</sup> In respect of national provisions on data confidentiality.

[7] United Nations Statistics Division. *United Nations Commodity Trade Statistics Database*.

[8] Centre d'Etudes Prospectives et d'Informations Internationales. *Base pour l'Analyse du Commerce International*.

[9] G. Gaulier, S. Zignago. *BACI: International Trade Database at the Product-Level. The 1994-2007 Version*. CEPPI Working Paper N. 2010-23, 2010.

The world statistics of trade in all goods is described in terms of the Harmonized System [4], the commodity classification system designed and maintained by the WCO. The HS is the reference taxonomy of commodities adopted by States adhering to the Harmonized System Convention, but also by trade associations and statistical offices in the majority of world countries. It is based on about 5,000 commodity groups organized within 22 Sections in a hierarchy made up of Chapters, Headings, and Subheadings.

Each level in the hierarchy is identified by an HS code and a description. Codes are 2-digit for Chapters, 4-digit for Headings, and 6-digit for Subheadings, as illustrated in Table 1.

Level	HS Code	Description
Section	V	MINERAL PRODUCTS
Chapter	26	ORES, SLAG AND ASH
Heading	2612	Uranium or thorium ores and concentrates
Subheading	2612.10	Uranium ores and concentrates

The Atlas of Nuclear Trade was built on the list of nuclear commodities shown in Table 2 referred to as N-HS-Groups.

Nuclear commodity	HS codes	HS relevance
Uranium ores and concentrates	2612.10	Highest
Thorium ores and concentrates	2612.20	High
Natural uranium	2844.10	Highest
Enriched uranium; plutonium	2844.20	Highest
Depleted uranium; thorium	2844.30	Medium
Radioactive elements and isotopes	2844.40	Low
Irradiated fuel elements	2844.50	Low
Heavy water	2845.10	High
Nickel powder	7504	Low
Tungsten articles	8101.99	Low
Tantalum articles	8103.90	Low
Magnesium, high purity	8104.11	Low
Zirconium	8109.20, 8109.30, 8109.90	Medium
Beryllium	8112.12, 8112.13, 8112.19	High
Nuclear reactors and parts	8401.10, 8401.40	Highest
Machinery and apparatus for isotopic separation	8401.20	Medium
Fuel elements, non-irradiated	8401.30	Highest

For these HS codes, BACI data was downloaded for the period 2016–2020 and the 213 countries available. For details about the number of records available by country<sup>2</sup> and flow, refer to Tables 3 and 4. The data was organized in a database and enriched by other meta-data, including country codes [10] to name countries in a compact space (Tables 5 and 6).

Total trade data by reporting countries in all commodities was also derived to compute each country's Revealed Comparative Advantage (RCA) [11] in the trade of nuclear commodities. The RCA measures whether a country's trade in a commodity is higher or lower than the typical world's *fair share* of trade in that commodity. A high RCA in export for a commodity by a country is associated with high competitiveness by the country in production and export of that commodity [12]. High RCA in import for a commodity by a

Table 1: Examples of HS codes and their descriptions

Table 2: Harmonized System codes associated with nuclear commodities

<sup>2</sup> Country nomenclature used in BACI.

[10] International Organization for Standardization.

*Country Codes – ISO 3166*

[11] B. Balassa. *Trade Liberalisation and 'Revealed' Comparative Advantage*. The Manchester School, vol. 33, pp. 99–123, 1965.

The RCA is computed as the ratio of the share of a commodity in a country's trade basket to the share of that commodity in world trade.

[12] R. Haussmann, C. Hidalgo, S. Bustos, M. Coscia, S. Chung, J. Jimenez, A. Simoes, M. Yildirim. *The Atlas of Economic Complexity: Mapping Paths to Prosperity*. ISBN 978-0-262-52542-8, Cambridge: MIT Press, 2013.

country may reveal intense use by or dependence on the import of that commodity.

Besides trade data, the Nuclear Trade Atlas includes information on countries' international non-proliferation commitments derived from open sources. The data was compiled using documents by the United Nations, the Nuclear Suppliers Group, and the International Atomic Energy Agency (IAEA).

Data fields include:

1. Signatory status in relation to the Treaty for the Non-Proliferation of Nuclear Weapons (NPT) [13].
2. Membership in the NSG [14].
3. The status of agreements with the IAEA [15] including:
  - (a) A primary safeguards agreement (Comprehensive Safeguards Agreement, Voluntary Offer Agreement, or INFCIRC-66 type agreement) – Allows the IAEA access to declared nuclear sites for the purposes of inspections.
  - (b) Small Quantities Protocol (SQP) – Reduces IAEA inspections on States with no nuclear facilities and little or no nuclear material in the country.
  - (c) Additional Protocol (AP) – Provides expanded access for verifications activities and additional information to the IAEA, thereby enabling the Agency to evaluate not only the correctness of a country's declarations, but also their completeness.
  - (d) Broader Conclusion (BC) – Declaration made by the IAEA indicating a high level of confidence that all nuclear material and technology in a country remain in peaceful activities.

This data was included in the Atlas to indicate for a country's commitment to use nuclear goods exclusively for peaceful purposes and may be considered when determining whether to engage in nuclear trade with a country.

[13] Treaty on the Non-Proliferation of Nuclear Weapons. *Status of the Treaty*.

[14] Nuclear Suppliers Group. *Participants*.

[15] International Atomic Energy Agency. *Safeguards Statement for 2021*.

	Import	Export		Import	Export
Afghanistan	21	2	Czech Rep.	845	1,056
Albania	39	6	Dem. People's Rep. of Korea	4	5
Algeria	189	27	Dem. Rep. of the Congo	108	11
American Samoa	1	1	Denmark	550	516
Andorra	19	10	Djibouti	7	
Angola	188	62	Dominica	5	
Antigua and Barbuda	9	1	Dominican Rep.	116	12
Argentina	358	116	Ecuador	191	37
Armenia	83	6	Egypt	401	59
Aruba	6	3	El Salvador	120	18
Australia	592	656	Equatorial Guinea	11	3
Austria	642	1,095	Eritrea	3	
Azerbaijan	151	27	Estonia	263	129
Bahamas	34	7	Ethiopia	148	12
Bahrain	168	33	Fiji	18	11
Bangladesh	126	15	Finland	486	480
Barbados	26	1	France	1,301	2,330
Belarus	269	118	French Polynesia	48	5
Belgium	822	1,716	FS Micronesia	1	
Belize	9	1	Gabon	37	15
Benin	32	1	Gambia	26	1
Bermuda	34	1	Georgia	89	21
Bhutan	14		Germany	1,488	3,757
Bolivia	144	9	Ghana	195	28
Bonaire	1		Gibraltar	7	
Bosnia Herzegovina	198	26	Greece	298	123
Botswana	80	22	Greenland	10	
Br. Indian Ocean Terr.	1		Grenada	10	1
Br. Virgin Isds	3	5	Guam		1
Brazil	632	299	Guatemala	130	27
Brunei Darussalam	95	32	Guinea	16	3
Bulgaria	313	183	Guyana	30	5
Burkina Faso	35	1	Haiti	6	
Burundi	9	4	Honduras	71	6
Cambodia	48	3	Hong Kong	416	542
Cameroon	72	29	Hungary	654	758
Canada	888	1,396	Iceland	226	27
Cape Verde	20	3	India	723	1,180
Cayman Isds	7	2	Indonesia	578	156
Central African Rep.	7		Iran	186	50
Chad	16	4	Iraq	118	2
Chile	344	35	Ireland	354	452
China	1,169	2,911	Israel	516	337
Christmas Isds	1		Italy	824	1,507
Cocos Isds	1		Jamaica	67	5
Colombia	313	74	Japan	838	1,270
Comoros	25		Jordan	157	26
Congo	85	30	Kazakhstan	264	241
Cook Isds	1	1	Kenya	144	31
Costa Rica	167	44	Kiribati	15	
Cote d'Ivoire	120	13	Kuwait	213	69
Croatia	326	206	Kyrgyzstan	31	3
Cuba	66	23	Lao People's Dem. Rep.	83	36
Curacao	9	1	Latvia	227	111
Cyprus	153	42	Lebanon	158	17

Table 3: Number of import-export records by country (List, Part 1)

	Import	Export		Import	Export
Lesotho	43	1	San Marino	1	
Liberia	8	1	Saudi Arabia	405	75
Libya	26		Senegal	86	13
Lithuania	299	194	Serbia	311	74
Luxembourg	272	235	Seychelles	23	6
Macao	20	4	Sierra Leone	13	4
Madagascar	77	20	Singapore	730	775
Malawi	25	2	Slovakia	442	262
Malaysia	668	358	Slovenia	416	278
Maldives	19		Solomon Isds	31	
Mali	29	7	Somalia	4	
Malta	145	44	South Africa	706	957
Marshall Isds	2		South Sudan	6	1
Mauritania	49	3	Spain	808	893
Mauritius	66	5	Sri Lanka	212	34
Mexico	391	192	Sudan	112	16
Mongolia	43	4	Suriname	23	6
Montenegro	70	14	Swaziland	63	10
Morocco	264	42	Sweden	649	963
Mozambique	74	8	Switzerland	821	1,199
Myanmar	159	9	Syria	26	
Namibia	123	98	Taiwan, China	574	580
Nepal	113	14	Tajikistan	27	4
Netherlands	2,253	2,145	TFYR of Macedonia	113	21
New Caledonia	35	5	Thailand	673	490
New Zealand	292	73	Timor-Leste	5	
Nicaragua	57	8	Togo	15	3
Niger	43	35	Tokelau		5
Nigeria	283	34	Tonga	1	
Norway	624	419	Trinidad and Tobago	54	6
Occ. Palestinian Terr.	32	1	Tunisia	190	43
Oman	224	44	Turkey	585	803
Pakistan	289	34	Turkmenistan	29	2
Palau	16	1	Turks and Caicos Isds	3	2
Panama	67	21	Uganda	65	9
Papua New Guinea	40	6	Ukraine	323	113
Paraguay	61	3	United Arab Emirates	525	425
Peru	251	35	United Kingdom	1,103	2,605
Philippines	383	96	United Rep. of Tanzania	110	15
Poland	678	856	Uruguay	121	11
Portugal	420	266	USA	1,750	4,400
Qatar	200	22	Uzbekistan	85	61
Rep. of Korea	916	887	Vanuatu	3	1
Rep. of Moldova	82	8	Venezuela	77	8
Romania	567	242	Viet Nam	461	127
Russian Federation	804	1,043	Yemen	10	
Rwanda	33	8	Zambia	119	12
Saint Barthélemy	3		Zimbabwe	65	7
Saint Helena	5				
Saint Kitts and Nevis	1	2			
Saint Lucia	8	1			
Saint Maarten	3				
Saint Pierre and Miquelon	5	1			
Saint Vincent and the Grenadines	2	1			
Samoa	18				

Table 4: Number of import-export records by country (List, Part 2)

Code	Country	Code	Country
AD	Andorra	DK	Denmark
AE	United Arab Emirates	DM	Dominica
AF	Afghanistan	DO	Dominican Rep.
AG	Antigua and Barbuda	DZ	Algeria
AL	Albania	EC	Ecuador
AM	Armenia	EE	Estonia
AO	Angola	EG	Egypt
AR	Argentina	ER	Eritrea
AS	American Samoa	ES	Spain
AT	Austria	ET	Ethiopia
AU	Australia	FI	Finland
AW	Aruba	FJ	Fiji
AZ	Azerbaijan	FM	FS Micronesia
BA	Bosnia Herzegovina	FR	France
BB	Barbados	GA	Gabon
BD	Bangladesh	GB	United Kingdom
BE	Belgium	GD	Grenada
BF	Burkina Faso	GE	Georgia
BG	Bulgaria	GH	Ghana
BH	Bahrain	GI	Gibraltar
BI	Burundi	GL	Greenland
BJ	Benin	GM	Gambia
BL	Saint Barthélemy	GN	Guinea
BM	Bermuda	GQ	Equatorial Guinea
BN	Brunei Darussalam	GR	Greece
BO	Bolivia	GT	Guatemala
BQ	Bonaire	GU	Guam
BR	Brazil	GY	Guyana
BS	Bahamas	HK	Hong Kong
BT	Bhutan	HN	Honduras
BW	Botswana	HR	Croatia
BY	Belarus	HT	Haiti
BZ	Belize	HU	Hungary
CA	Canada	ID	Indonesia
CC	Cocos Isds	IE	Ireland
CD	Dem. Rep. of the Congo	IL	Israel
CF	Central African Rep.	IN	India
CG	Congo	IO	Br. Indian Ocean Terr.
CH	Switzerland	IQ	Iraq
CI	Cote d'Ivoire	IR	Iran
CK	Cook Isds	IS	Iceland
CL	Chile	IT	Italy
CM	Cameroon	JM	Jamaica
CN	China	JO	Jordan
CO	Colombia	JP	Japan
CR	Costa Rica	KE	Kenya
CU	Cuba	KG	Kyrgyzstan
CV	Cape Verde	KH	Cambodia
CW	Curacao	KI	Kiribati
CX	Christmas Isds	KM	Comoros
CY	Cyprus	KN	Saint Kitts and Nevis
CZ	Czech Rep.	KP	Dem. People's Rep. of Korea
DE	Germany	KR	Rep. of Korea
DJ	Djibouti	KW	Kuwait

Table 5: Country Codes – ISO 3166 (List, Part 1)

Code	Country	Code	Country
KY	Cayman Isds	RS	Serbia
KZ	Kazakhstan	RU	Russian Federation
LA	Lao People's Dem. Rep.	RW	Rwanda
LB	Lebanon	SA	Saudi Arabia
LC	Saint Lucia	SB	Solomon Isds
LK	Sri Lanka	SC	Seychelles
LR	Liberia	SD	Sudan
LS	Lesotho	SE	Sweden
LT	Lithuania	SG	Singapore
LU	Luxembourg	SH	Saint Helena
LV	Latvia	SI	Slovenia
LY	Libya	SK	Slovakia
MA	Morocco	SL	Sierra Leone
MD	Rep. of Moldova	SM	San Marino
ME	Montenegro	SN	Senegal
MG	Madagascar	SO	Somalia
MH	Marshall Isds	SR	Suriname
MK	TFYR of Macedonia	SS	South Sudan
ML	Mali	SV	El Salvador
MM	Myanmar	SX	Saint Maarten
MN	Mongolia	SY	Syria
MO	Macao	SZ	Swaziland
MR	Mauritania	TC	Turks and Caicos Isds
MT	Malta	TD	Chad
MU	Mauritius	TG	Togo
MV	Maldives	TH	Thailand
MW	Malawi	TJ	Tajikistan
MX	Mexico	TK	Tokelau
MY	Malaysia	TL	Timor-Leste
MZ	Mozambique	TM	Turkmenistan
NA	Namibia	TN	Tunisia
NC	New Caledonia	TO	Tonga
NE	Niger	TR	Turkey
NG	Nigeria	TT	Trinidad and Tobago
NI	Nicaragua	TW	Taiwan, China
NL	Netherlands	TZ	United Rep. of Tanzania
NO	Norway	UA	Ukraine
NP	Nepal	UG	Uganda
NZ	New Zealand	US	USA
OM	Oman	UY	Uruguay
PA	Panama	UZ	Uzbekistan
PE	Peru	VC	Saint Vincent and the Grenadines
PF	French Polynesia	VE	Venezuela
PG	Papua New Guinea	VG	Br. Virgin Isds
PH	Philippines	VN	Viet Nam
PK	Pakistan	VU	Vanuatu
PL	Poland	WS	Samoa
PM	Saint Pierre and Miquelon	YE	Yemen
PS	Occ. Palestinian Terr.	ZA	South Africa
PT	Portugal	ZM	Zambia
PW	Palau	ZW	Zimbabwe
PY	Paraguay		
QA	Qatar		
RO	Romania		

Table 6: Country Codes – ISO 3166 (List, Part 2)



### *3. Nuclear trade profiles*

The profiles of nuclear trade included in the Atlas can provide insight into the nature of global commodity trade flows involving HS codes associated with the nuclear goods listed in Table 2. They offer high-level summaries of the main nuclear commodity types flowing into and out of each country, the primary origins of such imports, and the primary export destinations for these types of goods. Nuclear non-proliferation analysts can use these profiles to identify emerging nuclear suppliers. Export control officials can examine the profiles of their export partners to estimate potential re-exports and possible ultimate destinations for nuclear goods they export. Safeguards analysts at the IAEA can use the profiles to corroborate or question national declarations they receive regarding trade in nuclear materials and equipment.

Profiles have been designed to provide both country- and commodity-based views of nuclear trade. While country-based profiles take individual countries as the focus of data presentation, commodity-based views aggregate global trade data for specific HS groups.

Profiles include value and quantity of trade, time series data over a reference period of five years (2016–2020), and indication of the Revealed Comparative Advantage in relation to countries and commodities. Specifically, the Atlas makes use of the Normalized Revealed Comparative Advantage (NRCA) [16] index, a RCA measure ranging -1 to +1, with positive NRCA values associated with comparative advantage in trade.

Since profiles give compact representations of nuclear trade, they do not feature all data contained in the nuclear trade database. Choices had to be made on what to include in country- and commodity-based views. Priority was given by ranking top traders for a given HS group, or top destinations and origins for a given country.

Country- and commodity-based profiles consistently follow a few graphical conventions. Trade measures are associated with colors. A blue color is associated with traded values, and a red color is associated with traded quantities. Likewise, positive NRCA on values are represented by grades of blue (the darker, the higher the comparative advantage), and by grades of red for quantities. Negative NRCA are represented by grades of gray (indicating there

[16] World Trade Organization. *A Practical Guide to Trade Policy Analysis*. ISBN 978-92-870-38128, Geneva: WTO Publications, 2012.

is no comparative advantage). Numbers appearing in charts are rounded percentages, e.g. 10.7% is indicated as 11, e.g. 0.4% is indicated as 0.

## 4. About commodity-based views

Commodity-based views of the trade of nuclear commodities<sup>3</sup> are designed in consideration of the following questions:

- How large is the world trade in the commodity?
- Who are the top exporting and importing countries of the commodity?
- Is trade focused on a few countries or spread over many?
- Is value of trade correlated with quantity in a regular way? Are there exceptions?
- What is the trend over time in export and import by country?
- What are the main trading relationships between countries for the commodity?

Commodity-based views for each of the 17 N-HS-Groups listed in Table 2 are included in *Appendix A – Commodity-based views*. This Section provides the key for how to read the profiles.

A commodity profile consists of two pages, a page on exports (Figure 1) and one on imports (Figure 2). Each page includes a **HEADER** and **TRADE DATA**.

Specifically, the **HEADER** features the following information:

- A. HS group, associated nuclear commodity, relevance of trade flow for nuclear (Text)** – The HS codes included in the profile in relation to the associated nuclear commodity as per Table 2. Also, an indicator of the nuclear relevance of the HS trade flow is provided, which can be rated highest, high, medium, or low.

HS 2844.10 Highest relevance associated with trade of

Natural uranium

<sup>3</sup> While the HS codes associated with nuclear commodities are understood to also encompass non-nuclear items, they nevertheless provide a good macroscopic view of potentially nuclear trade flows.

**B. Flow (Text)** – Export or Import.

**Data temporal coverage (Text)** – Years of trade data included in the view.

**Number of records (Text)** – Number of BACI data records available for the country.

## Export

Years 2016-2020 BACI records: 1,149

The TABLE OF TRADE DATA presents the following information:

Country	Balance	Basket %	World %	Trend	NRCA	Top destinations
World	0	22	9	100	100	Not applicable
Kazakhstan	+	83	93	38	43	CN RU CA FR
Canada	+	53	38	24	20	US DE NL GB

**C. Country (List)** – List of top exporting (importing) countries.

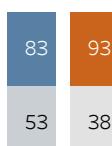
Kazakhstan

Canada

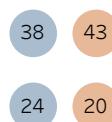


**D. Balance (+ or - sign)** – Per exporting (importing) country, the country's trade balance (export minus import) by value for the N-HS-Group. A + or - sign encodes a positive or negative trade balance. A grey sign represents approximately equal export and import values, whereas a darker blue color represents stronger positive or negative trade balances.

**E. Basket % (Highlight table)** – Per exporting (importing) country, value and quantity exported (imported) by the country expressed as a share of the country's total export (import) for the complete set of N-HS-Groups. The share is represented as rounded percentage by the color and number in the cell of the table. Darker grades of blue and red indicate higher percentages for value and quantity of trade.



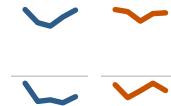
**F. World % (Heat map with circles)** – Per exporting (importing) country, value and quantity exported (imported) by the country expressed as a share of the world export (import) of the N-HS-Group. The share is represented as rounded percentage by the number displayed and the size of the circle.



G. **Scale (Text)** – Defines the equivalent of 1% of the world value expressed in Millions of USD, and of 1% of the world quantity expressed in metric tons. The scale allows translation of World % (item F) into approximate values and quantities exported (imported) by the country over the reference period.

Scale of World % (5 years): 1% Value = 208.1 M\$ 1% Quantity = 3,178.8 T

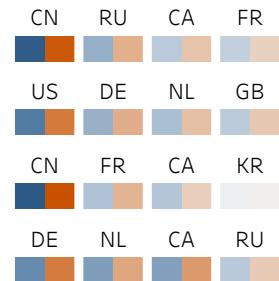
H. **Trend (Line chart)** – Per exporting (importing) country, value and quantity exported (imported) over time. There is a line chart for traded values and one for traded quantities, scaled by country. The scale is indicated by World %.



I. **NRCA (+ or - sign)** – Per exporting (importing) country, the sign indicates whether the average Normalized Revealed Comparative Advantage over the five year period is positive or negative. A grey sign represents approximately zero NRCA, whereas a darker blue color and red color represents stronger positive or negative NRCA values for value and quantity of export (import).



J. **Top origins/destinations by value (Highlight matrix)** – This matrix encodes export (import) flows for each country to main destinations (from main origins). Destinations (origins) are sorted left to right by decreasing value of trade. Destinations (origins) are indicated by country code [10]. A cell in the matrix is split into two halves, encoding by color the value (blue grades) and quantity (red grades) exported (imported) by the country to (from) the corresponding destination (origin). The darker the grade of color, the higher the trade measure.



K. **World** – This line provides all the above trade indicators computed for the world.

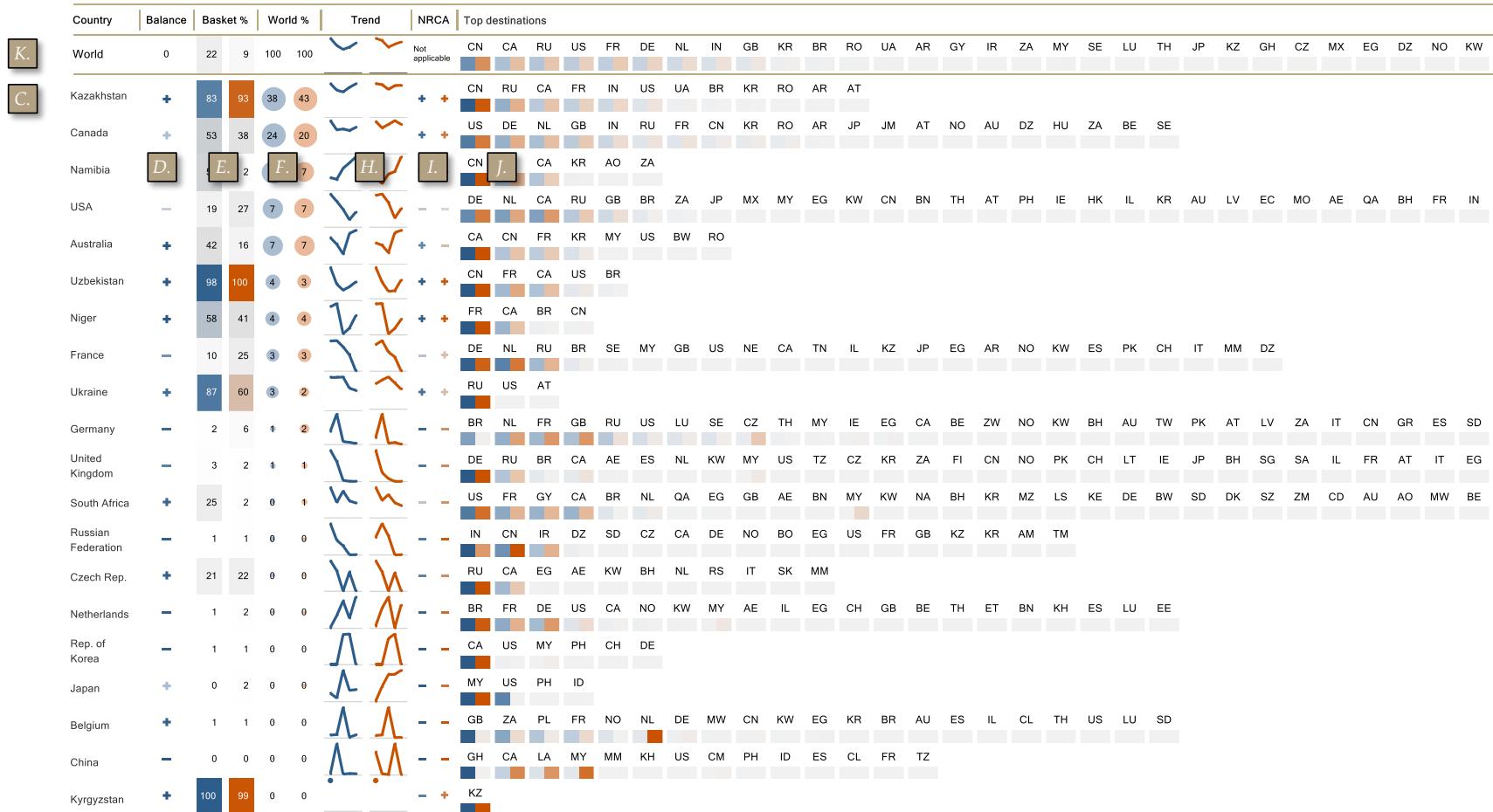
Country	Balance	Basket %	World %	Trend	NRCA	Top destinations
World	0	22	9 100 100		Not applicable	

HS 2844.10 Highest relevance associated with trade of

## A. Natural uranium

### B. Export

Years 2016–2020 BACI records: 1,149



Scale of World % (5 years): 1% Value = 208.1 M\$ 1% Quantity = 3,178.8 T

Figure 1: Nuclear Trade Profile – Commodity-based view  
(Export page)

HS 2844.10 Highest relevance associated with trade of

## Natural uranium

### Import

Years 2016-2020 BACI records: 1,149

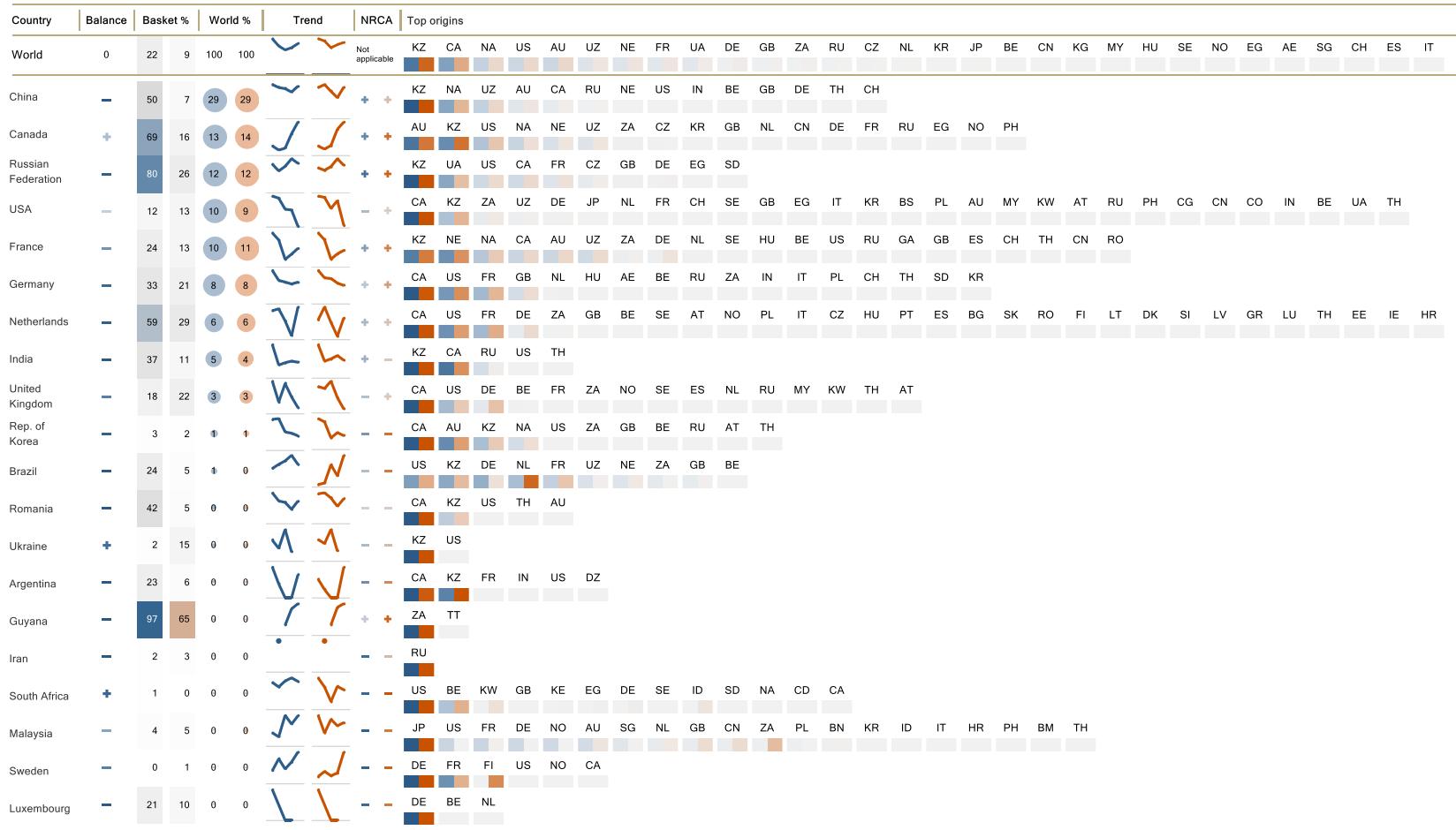


Figure 2: Nuclear Trade Profile – Commodity-based view  
(Import page)



## 5. About country-based views

Country-based views of the trade of nuclear commodities<sup>4</sup> are designed in consideration of the following questions:

- Is the country an important exporter of nuclear-relevant commodities at world scale? If so, which commodities does the country primarily export and to what countries?
- Does the country import nuclear-relevant commodities? If so, which ones, to what extent, and from what suppliers?
- What are the trends in the country's exports and imports of nuclear commodities? Are they stable, decreasing, or increasing? Are they sporadic or steady over time?

Country-based views for 169 countries<sup>5</sup> are included in *Appendix B – Country-based views*. This Section provides the key for how to read the profiles.

A country profile consists of two facing pages, a page on exports (Figure 3) and one on imports (Figure 4). Each page includes a HEADER and TRADE DATA.

Specifically, the HEADER features the following information:

- A. ***Country name and position*** (*Text, map*) – Name of selected country, display of its geographical position on the world map.
- B. ***Non-proliferation commitments*** (*Text*) – Summary of the country's non-proliferation commitments with respect to: Treaty on the Non-Proliferation of Nuclear Weapons (NPT), Nuclear Suppliers Group (NSG), IAEA Small Quantities Protocol (IAEA SQP), IAEA Safeguards Agreements (IAEA SA), IAEA Additional Protocol (IAEA AP), IAEA Broader Conclusion (BC). See Section 2 for details).

### Non-proliferation commitments

NPT: Party NSG: Member

IAEA SQP: \_ IAEA SA: In force IAEA AP: In force

IAEA BC: Broader conclusion

<sup>4</sup> While the HS codes associated with nuclear commodities are understood to also encompass non-nuclear items, they nevertheless provide a good macroscopic view of potentially nuclear trade flows.

<sup>5</sup> Countries featuring few trade records over the five year period are not represented in the Atlas book, but are included in the online Atlas.



Country

**C. Flow (Text)** – Export or Import.

**Data temporal coverage (Text)** – Years of trade data included in the view.

**Number of records (Text)** – Number of BACI data records available for the country.

## Export

Years 2016-2020 BACI records: 241

The TABLE OF TRADE DATA presents the following information:

HS group	Balance	Basket %	World %	Trend	NRCA	Top destinations
All nuclear basket	+	100	100	(10) 4	Not applicable	CN RU CA IN
2612.10	+	4	4	(12) 1	W V	IN US RU FR
2612.20	■	0	0	0	— —	

**D. HS group (Text)** – List of the 17 N-HS-Groups in Table 2.

2612.10

2612.20

**E. Balance (+ or - sign)** – Per N-HS-Group, the country's trade balance (export minus import) by value. A + or - sign encodes a positive or negative trade balance. A grey sign represents approximately equal export and import values, whereas a darker blue color represents stronger positive or negative trade balances.

+

■

**F. Basket % (Highlight table)** – Per N-HS-Group, value and quantity exported (imported) by the country expressed as a share of the country's total export (import) for the complete set of N-HS-Groups. The share is represented as rounded percentage by the color and number in the cell of the table. Darker grades of blue and red indicate higher percentages for value and quantity of trade.

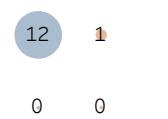
4 4

0 0

**G. Scale (Text)** – Defines the equivalent of 1% of the basket value expressed in Millions of USD, and of 1% of the basket quantity expressed in metric tons. The scale allows translation of Basket % (item F) into approximate values and quantities exported (imported) by the country over the reference period.

Scale of Basket % (5 years): 1% Value = 94.6 M\$ 1% Quantity = 1,465.0 T

H. **World % (Heat map with circles)** – Per N-HS-Group, value and quantity exported (imported) by the country expressed as a share of the world export (import) of the N-HS-Group. The share is represented as rounded percentage by the number displayed and the size of the circle.



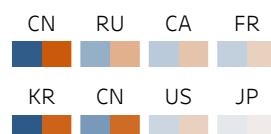
I. **Trend (Line chart)** – Per N-HS-Group, value and quantity exported (imported) over time. There is a line chart for traded values and one for traded quantities, scaled by N-HS-Group. The scale is indicated by Basket %.



J. **NRCA (+ or - sign)** – Per N-HS-Group, the sign indicates whether the average Normalized Revealed Comparative Advantage over the five year period is positive or negative. A grey sign represents approximately zero NRCA, whereas a darker blue color and red color represents stronger positive or negative NRCA values for value and quantity of export (import).



K. **Top origins/destinations by value (Highlight matrix)** – This matrix encodes export (import) flows for N-HS-Group to main destinations (from main origins). Destinations (origins) are sorted left to right by decreasing value of trade. Destinations (origins) are indicated by country code [10]. A cell in the matrix is split into two halves, encoding by color the value (blue grades) and quantity (red grades) exported (imported) by the country to (from) the corresponding destination (origin). The darker the grade of color, the higher the trade measure.



L. **All nuclear basket** – This line provides all the above trade indicators computed for the complete nuclear basket.

HS group	Balance	Basket %	World %	Trend	NRCA	Top destinations
All nuclear basket	+ 100	100	10 4		Not applicable	CN RU CA IN

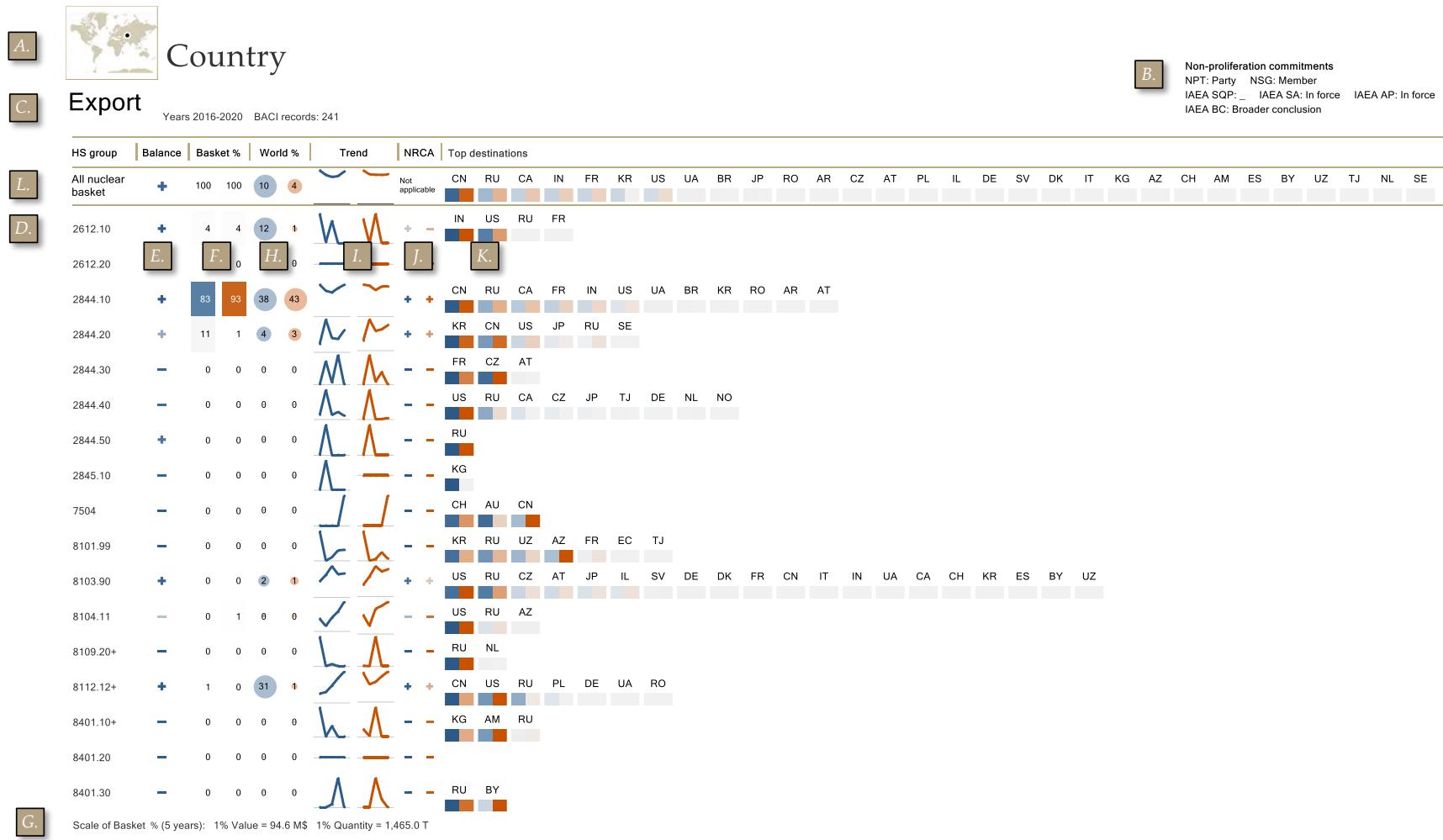


Figure 3: Nuclear Trade Profile  
– Country-based view (Export page)

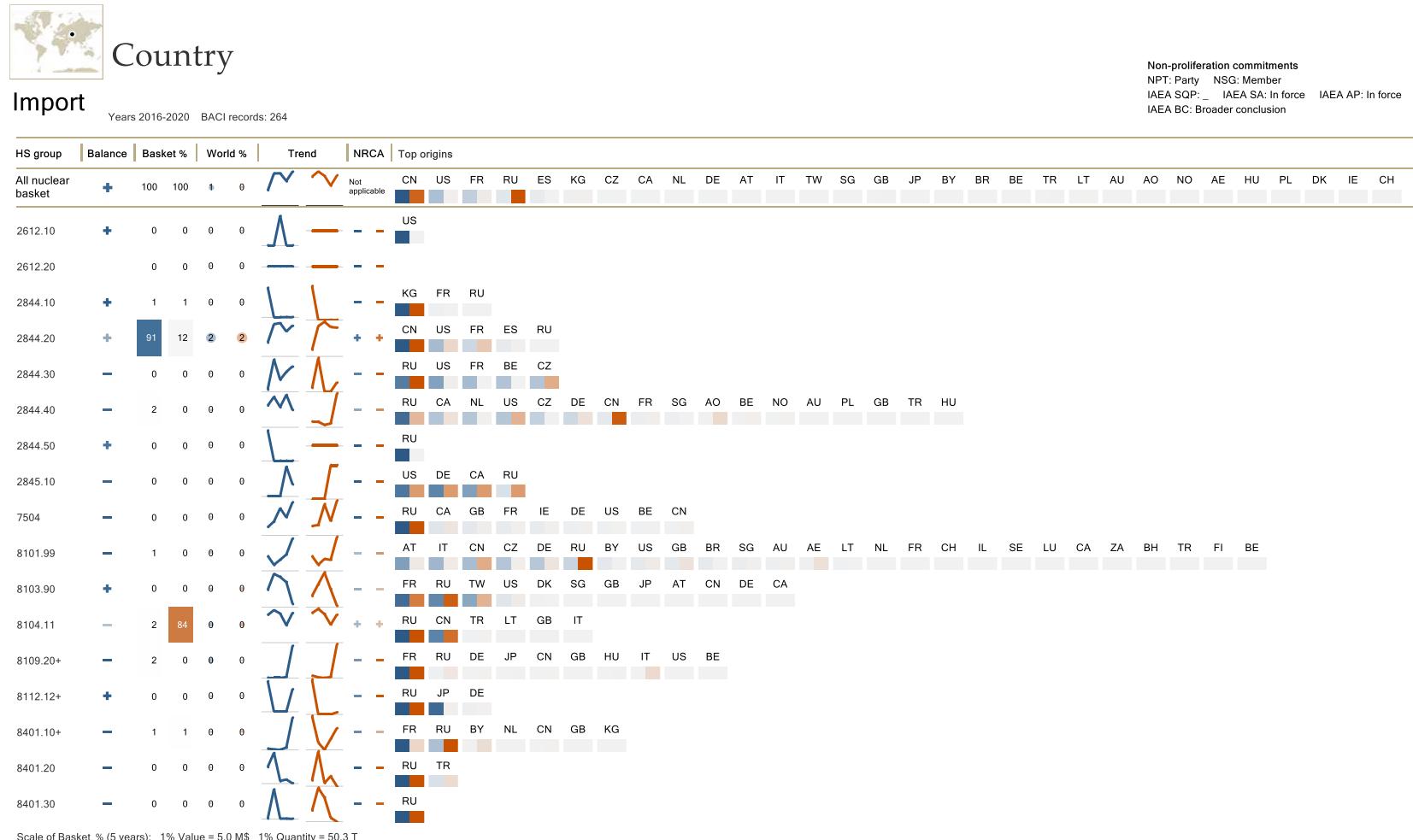


Figure 4: Nuclear Trade Profile  
 – Country-based view (Import page)



## *6. About the matrix view Commodity × Country*

The detailed country- and commodity-based views are complemented by a large overview showing all trade of the 17 strategic commodity groups by 213 countries and territories, allowing a comparison of the level of trade for different HS commodities measured on a world scale.

The Commodity × Country MATRIX provides a bird's eye view of all nuclear commodity basket trade across all countries, organized by region. This view can add value because it reveals the most-traded HS groups in a single visualization and provides a regional context not available in individual country- or commodity-based views. This matrix further allows pattern recognition beyond that possible in the individual views in relation to the trade of HS codes associated with nuclear commodities.

The matrix view is designed in consideration of the following questions:

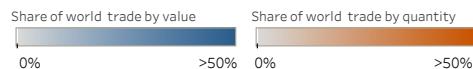
- How many countries have traded a given nuclear commodity<sup>6</sup> (NC) in the recent past?
- Is trade in a NC limited to a few countries or spread over many?
- Are there world regions where the trade of a given NC is more intense? Or particularly low?
- Are there visible patterns in the trade of countries' export and import baskets?
- How many countries have balanced exports and imports of NC, how many are primarily exporting NC, how many are mainly importing NC?

<sup>6</sup> While the HS codes associated with nuclear commodities are understood to also encompass non-nuclear items, they nevertheless provide a good macroscopic view of potentially nuclear trade flows.

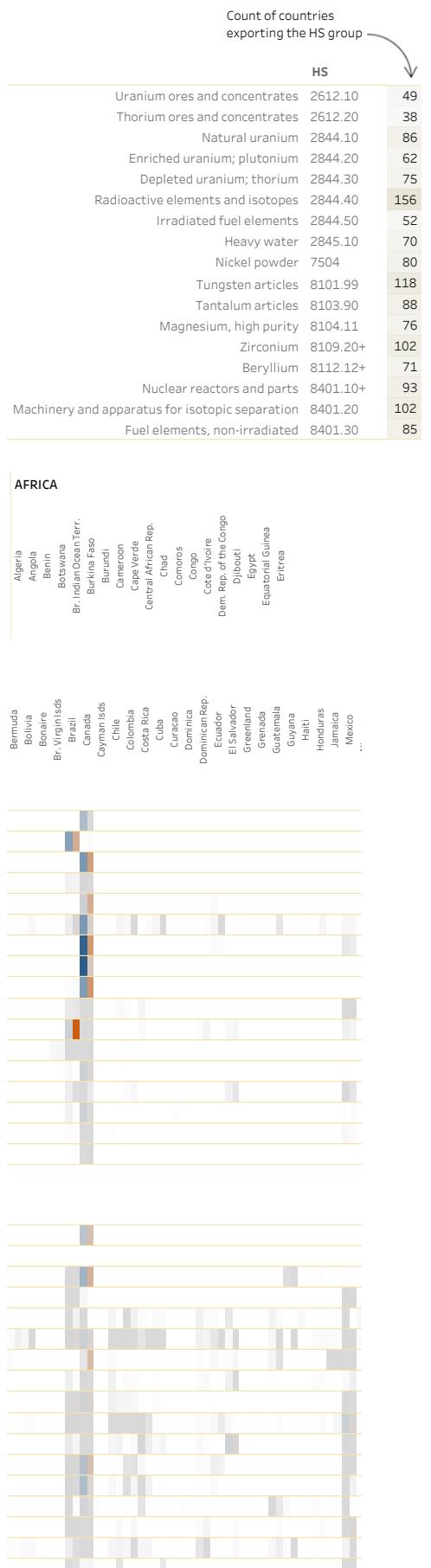
Specifically, the matrix view is presented by trade flow, export and import, each flow being organized as follows.

- The *rows* of the matrix are labelled by the *HS groups* associated with nuclear commodities. The groups of commodities are listed by the HS order. Next to each group, a number indicates how many countries have traded the HS group in the reference period 2016–2020. On all commodities, this figure ranges from a minimum of 38 countries (for 2612.20 Thorium ores and concentrates), to a maximum of 187 countries (for example, for: 2844.40 Radioactive elements and isotopes; 8101.99 Tungsten articles).
- The *columns* of the matrix are labelled by *countries*. The countries are first grouped by continent (Africa, America, Asia, Europe, Oceania and Polar Region), then listed in alphabetical order. The grouping of countries by continent is to allow seeing geographical patterns in the trade of nuclear commodities.
- A *cell* in the matrix for a given row and column is *colored* when the associated *country* (column) has *traded the corresponding HS group* (row). Otherwise, the cell is white, meaning no trade of the HS group by the country appears in the trade statistics in the reference period.

Furthermore, a cell in the matrix is split into two halves, encoding by color the value (blue grades) and quantity (red grades) traded. The darker the grade of color, the higher the trade measure. Specifically, the color indicates the share of the world trade by the country for the corresponding nuclear commodity. Hence colors are scaled over an entire row of the matrix.



For illustration, Figure 5 shows the leftmost part of the matrix view. The complete matrix is included in *Appendix C – Commodity × Country matrix view*. Only by looking at the whole matrix can the eye distinguish a number of horizontal patterns (comparing commodities) and vertical patterns (comparing countries). These patterns become invisible when considering country- and commodity-based views separately.



# The Matrix = Commodity × Country

## Showing all nuclear HS commodity groups traded by countries

A **colored cell** in the matrix indicates the corresponding HS commodity has been traded by the associated country. The cell is split into two halves, encoding the value (blue grades) and quantity (red grades) traded. The intensity of the color indicates the country's share of world trade for the HS commodity. Darker colors stand for higher shares of trade.

A **white cell** indicates the country has not exported the corresponding HS commodity.

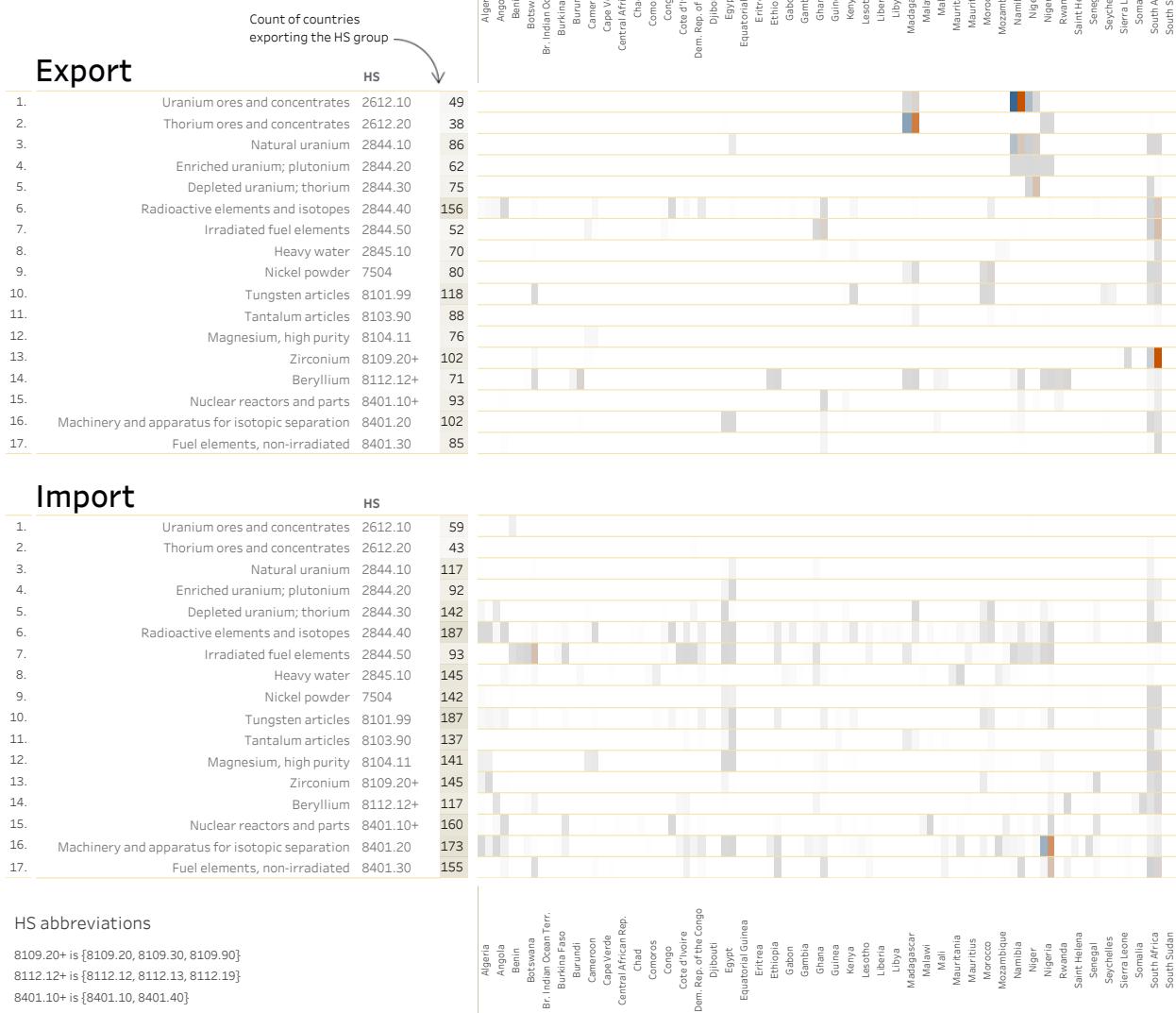


Figure 5: The matrix view  
Commodity × Country



## 7. The online Atlas

Country- and commodity-based views of nuclear trade included in the Atlas book are published also online [18]:

<https://public.tableau.com/app/profile/strategic.trade.atlas>

The user can select a country or commodity profile to be displayed and a trade flow by the top right menus of each window (Figure 6).

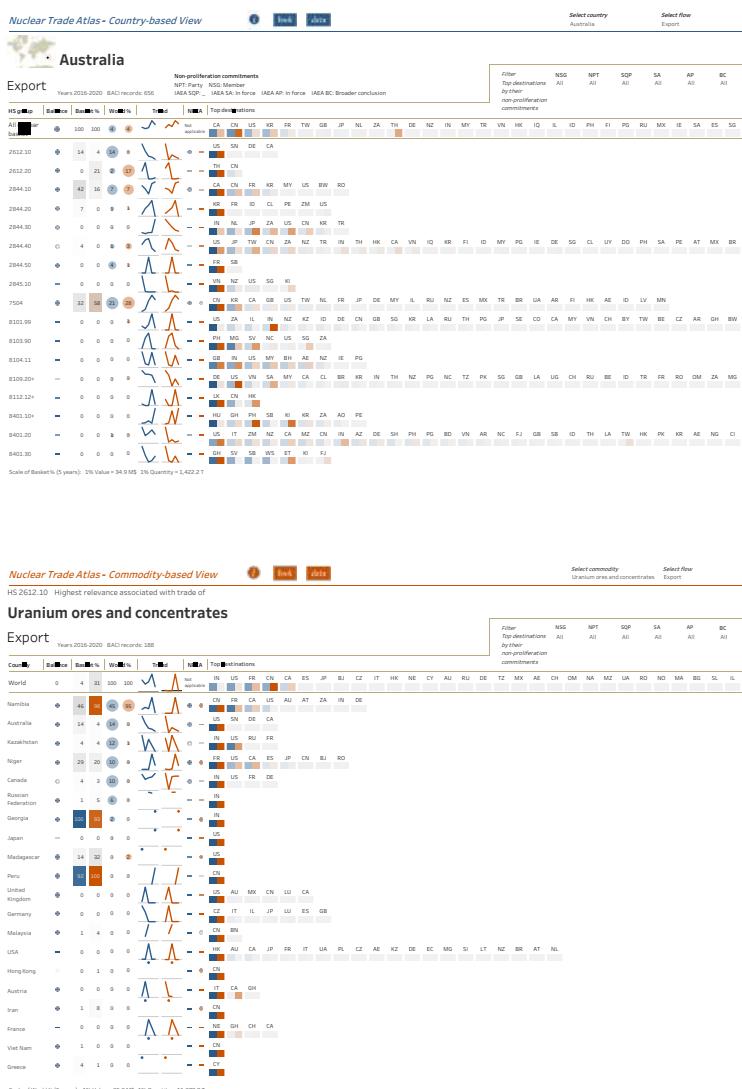


Figure 6: Country- and commodity-based views in the online Nuclear Trade Atlas

While the online views of the Atlas are analogous to those presented in this book, the interactive use of the online Atlas provides context information and additional data details on demand.

Specifically:

- The data labels appearing in the views (HS group, Balance, Basket %, World %, ...) are defined in tooltips when hovered.

For instance, the Figure below shows the definition of the 'Balance' label used in country profiles.



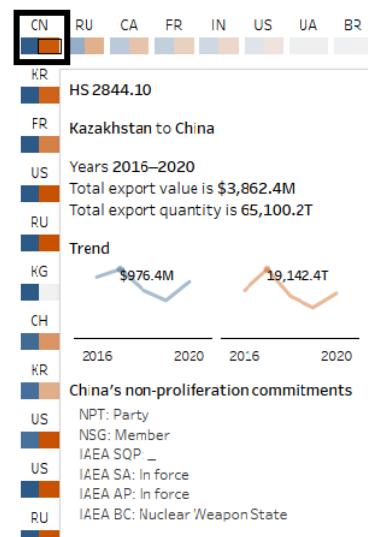
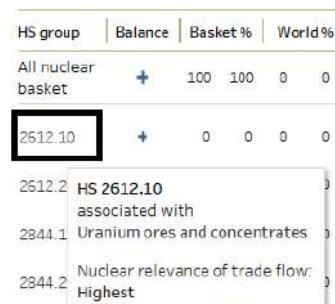
- Information about how to read the views is provided in context by hovering specific items of interest.

For example, hovering a HS code shows a tooltip with the name of the associated nuclear commodity for ease of reading.

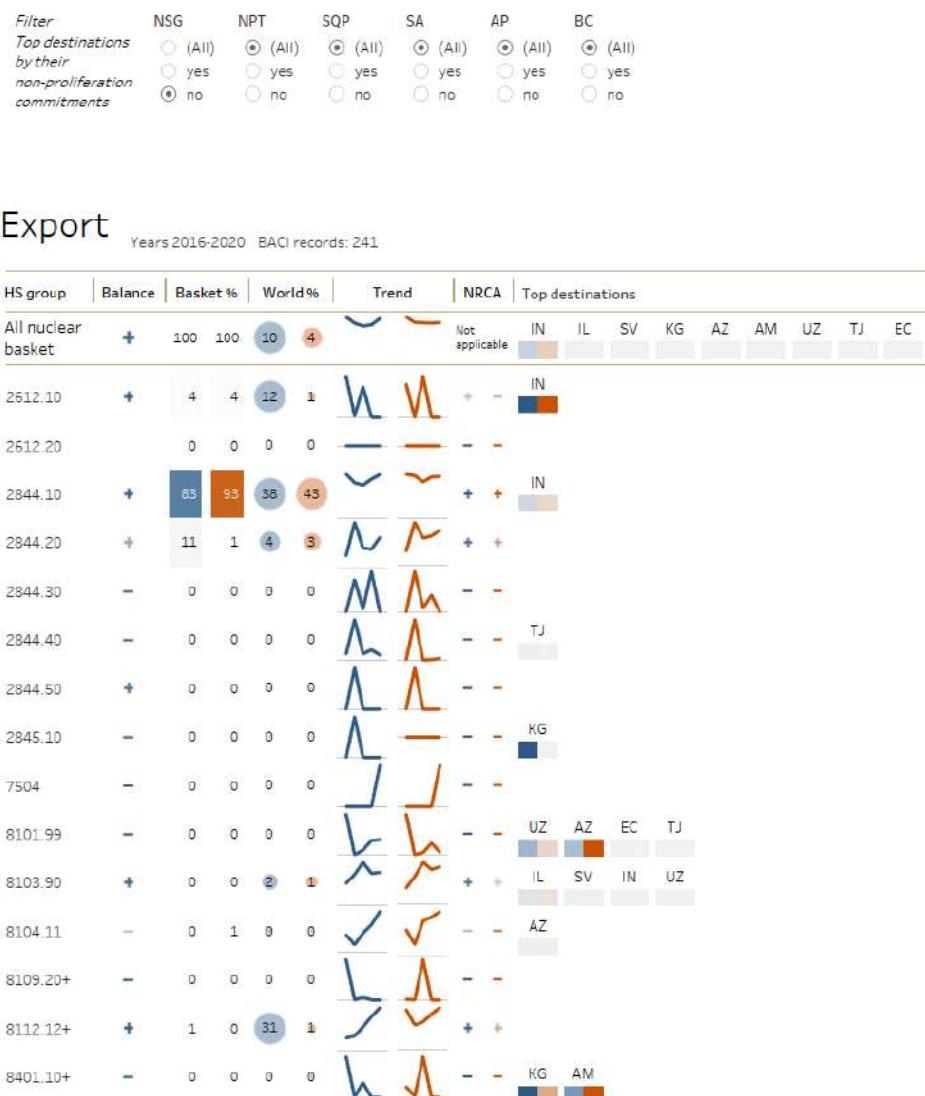
- The graphical marks appearing in the views (squares, circles, ...) reveal the underlying numerical data when hovered.

As an example, hovering a blue circle in the World % column for a given HS group shows a tooltip with the specific export (or import) value by the country for that HS group and its trend over the five year period.

- The online views provide additional data on demand in relation to the trade flow matrix. For instance, hovering a cell of the matrix in a country profile shows the five year time series of export (or import) by the country to a given destination (or origin) for a specific HS group. The tooltip also shows a summary of the destination's (or origin's) non-proliferation commitments. Due to space limitations, this data is not available in the Atlas book.



- Non-proliferation commitments are available as interactive filters to display in the view only destinations (or origins) matching a non-proliferation profile of choice. For example, the Figure below shows the selection of export destinations of non-members to the NSG. This feature of the online Atlas allows to focus a trade flows analysis taking into consideration countries' non-proliferation commitments.



Finally, country- and commodity-based views included in the Atlas book are linked to the corresponding online views by rightclicking on the pdf pages. In this way the reader can transition between the flip-through-pages view modality made possible by the pdf format of the Atlas to the interactive view enabled by its online format.



## 8. The Atlas data

The data underlying the Nuclear Trade Atlas is published for download in slices of five years for independent use and analysis [19, 20].

A slice of data is organized in three distinct files of Comma Separated Values (CSV):

- **Nuclear Trade Atlas Data** – This is the main file in the data collection. It provides trade flow data between countries for Harmonized commodities associated with nuclear trade. Typically, the file contains about 95 Thousand records for five years. Data fields included are listed in Table 7.
- **Total Trade Data** – Provides trade measures for countries in all commodity trade (nuclear and non nuclear). This data is used to compute a country's share of nuclear trade versus its total trade. Total trade data is also used to compute a country's Revealed Comparative Advantage in strategic trade (see below). Typically, the file contains about 2 Thousand records for five years. See data fields in Table 8.
- **Nuclear Commodities RCA Data** – Provides countries' Revealed Comparative Advantage for the trade of Harmonized commodities associated with nuclear trade. The RCA is computed as the ratio of the share of a commodity in a country's export basket to the share of that commodity in world trade. The RCA measures whether a country's trade in a commodity is higher or lower than the typical world's *fair share* of trade in that commodity. A high RCA in export for a commodity by a country is associated with high competitiveness by the country in production and export of that commodity [12]. High RCA in import for a commodity by a country may reveal intense use by or dependence on the import of that commodity. This file typically contains about 36 Thousand records for five years. Data fields are listed in Table 9.

[19] C. Versino, S. Martino. *Nuclear Trade Data Collection*.

[20] C. Versino et al. *Nuclear Trade Atlas Data 2016–2020*.

[12] R. Haussmann, C. Hidalgo, S. Bustos, M. Coscia, S. Chung, J. Jimenez, A. Simoes, M. Yildirim. *The Atlas of Economic Complexity: Mapping Paths to Prosperity*. ISBN 978-0-262-52542-8, Cambridge: MIT Press, 2013.

Data fields in the <i>Nuclear Trade Atlas Data</i> file	
REPORTER	Country reporting trade expressed in full text name, ISO <sub>2</sub> and ISO <sub>3</sub> country code
PARTNER	Country partner in trade expressed in full text name, ISO <sub>2</sub> and ISO <sub>3</sub> country code
FLOW	Import or export
PERIOD	Year of trade
COMMODITY CODE	Code of commodity traded expressed in the Harmonized System
COMMODITY DESCRIPTION	Name of commodity traded expressed in the Harmonized System
NUCLEAR COMMODITY DESCRIPTION	The nuclear commodity associated to COMMODITY CODE as in Table 2
VALUE USD	Value of trade in US dollars
QUANTITY KG	Quantity of trade in kg

Table 7: Data fields in the Nuclear Trade Atlas Data file

Data fields in the <i>Total Trade Data</i> file	
REPORTER	Country reporting trade expressed in full text name, ISO <sub>2</sub> and ISO <sub>3</sub> country code
PARTNER	Country partner in trade expressed in full text name, ISO <sub>2</sub> and ISO <sub>3</sub> country code
FLOW	Import or export
PERIOD	Year of trade
VALUE USD	Value of trade in US dollars
QUANTITY KG	Quantity of trade in kg

Table 8: Data fields in the Total Trade Data file

Data fields in the <i>Nuclear Commodities RCA Data</i> file	
REPORTER	Country reporting trade expressed in full text name, ISO <sub>2</sub> and ISO <sub>3</sub> country code
PARTNER	Country partner in trade expressed in full text name, ISO <sub>2</sub> and ISO <sub>3</sub> country code
FLOW	Import or export
PERIOD	Year of trade
NUCLEAR COMMODITY DESCRIPTION	A nuclear commodity in scope of the Atlas listed in Table 2
RCA VALUE	The Revealed Comparative Advantage measured on the value of trade
RCA QUANTITY	The Revealed Comparative Advantage measured on the quantity of trade
NRCA VALUE	The Normalized Revealed Comparative Advantage measured on the value of trade
NRCA QUANTITY	The Normalized Revealed Comparative Advantage measured on the quantity of trade

Table 9: Data fields in the Nuclear Commodities RCA Data file

## *9. Conclusions*

The Nuclear Trade Atlas represents an application of international trade data analysis intended to support officials and analysts working in the fields of nuclear non-proliferation, export control, and safeguards.

The country-based trade profiles provide insight into the main nuclear commodity types flowing into and out of each country, the primary import and export trading partners for such goods, the relative significance of the country's nuclear trade on the world stage, and related trends over time. The commodity-based profiles provide global understanding of worldwide trade flows of nuclear-related commodities, identifying principal suppliers, the countries they supply, trends over time, and market concentration. Perhaps most importantly, the data visualization approach enables the user of the Nuclear Trade Atlas to glean these insights at a glance.

Beyond its immediate utility, the Nuclear Trade Atlas illustrates the availability of open source trade databases and their potential to support trade policy development and implementation. The publicly available UN Comtrade database provides trade records from over 150 reporting countries, representing a significant part of world merchandise trade. The BACI database refines that data, taking into account asymmetries in import and export trade valuation and reconciling mirrored reporting of trade flows.

Since latest trade data is made available at the BACI source on a yearly basis, it is foreseen to publish a new slice of the Nuclear Trade Atlas data annually. Correspondingly, the online Atlas is scheduled to be refreshed yearly based on the most recent trade records. The Atlas book is expected to be re-published in relation to significant revisions of the Harmonized System codes in scope of nuclear trade.



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## *Appendix A – Commodity-based views*

HS 2612.10 Highest relevance associated with trade of

## Uranium ores and concentrates

### Export

Years 2016–2020 BACI records: 188

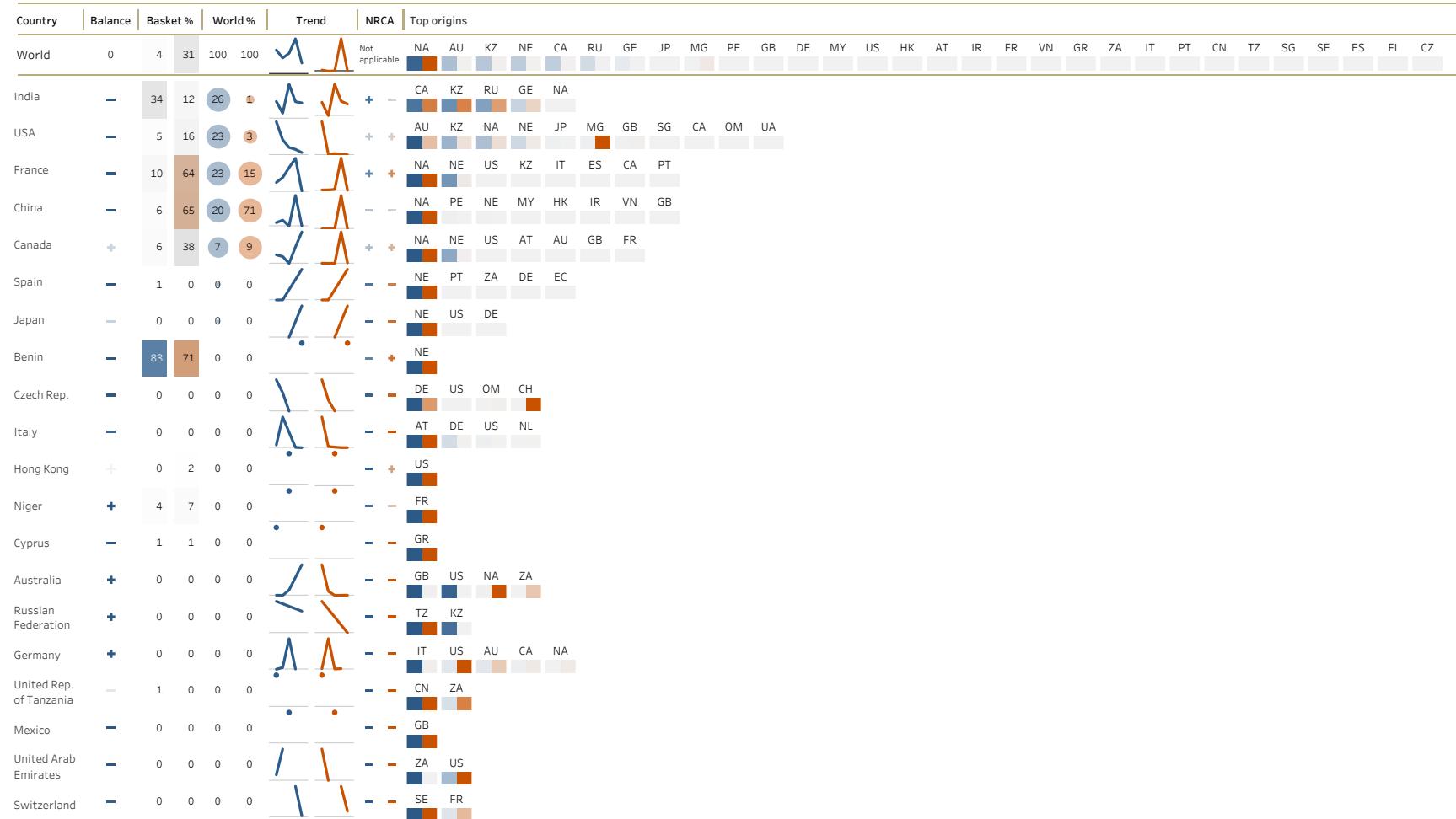


Figure 7: HS 2612.10 associated with Uranium ores and concentrates

HS 2612.10 Highest relevance associated with trade of  
**Uranium ores and concentrates**

**Import**

Years 2016-2020 BACI records: 188

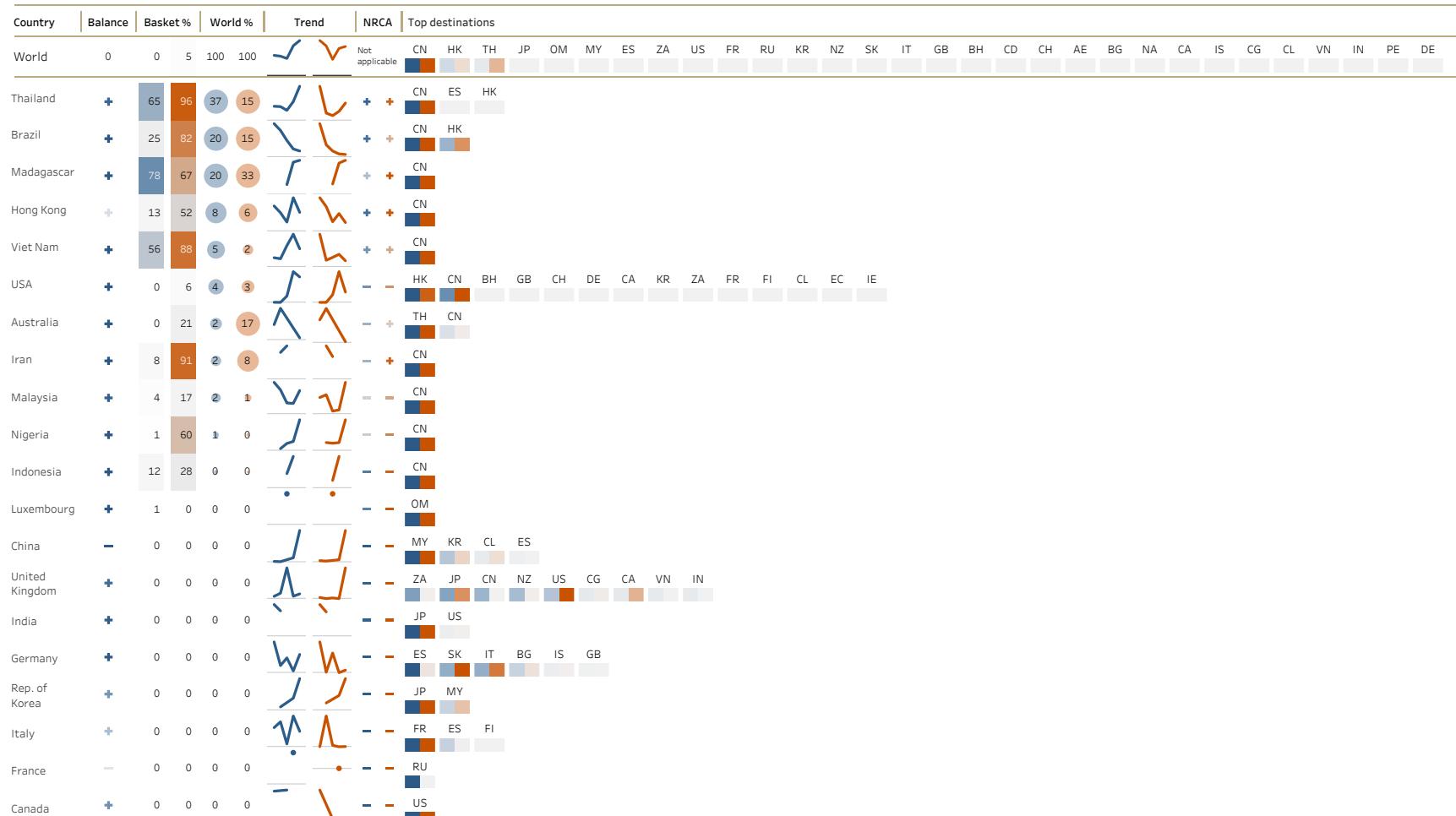


Scale of World % (5 years): 1% Value = 35.2 M\$ 1% Quantity = 11,378.8 T

HS 2612.20 High relevance associated with trade of  
Thorium ores and concentrates

Export

Years 2016–2020 BACI records: 149



Scale of World % (5 years): 1% Value = 1.4 M\$ 1% Quantity = 1,726.3 T

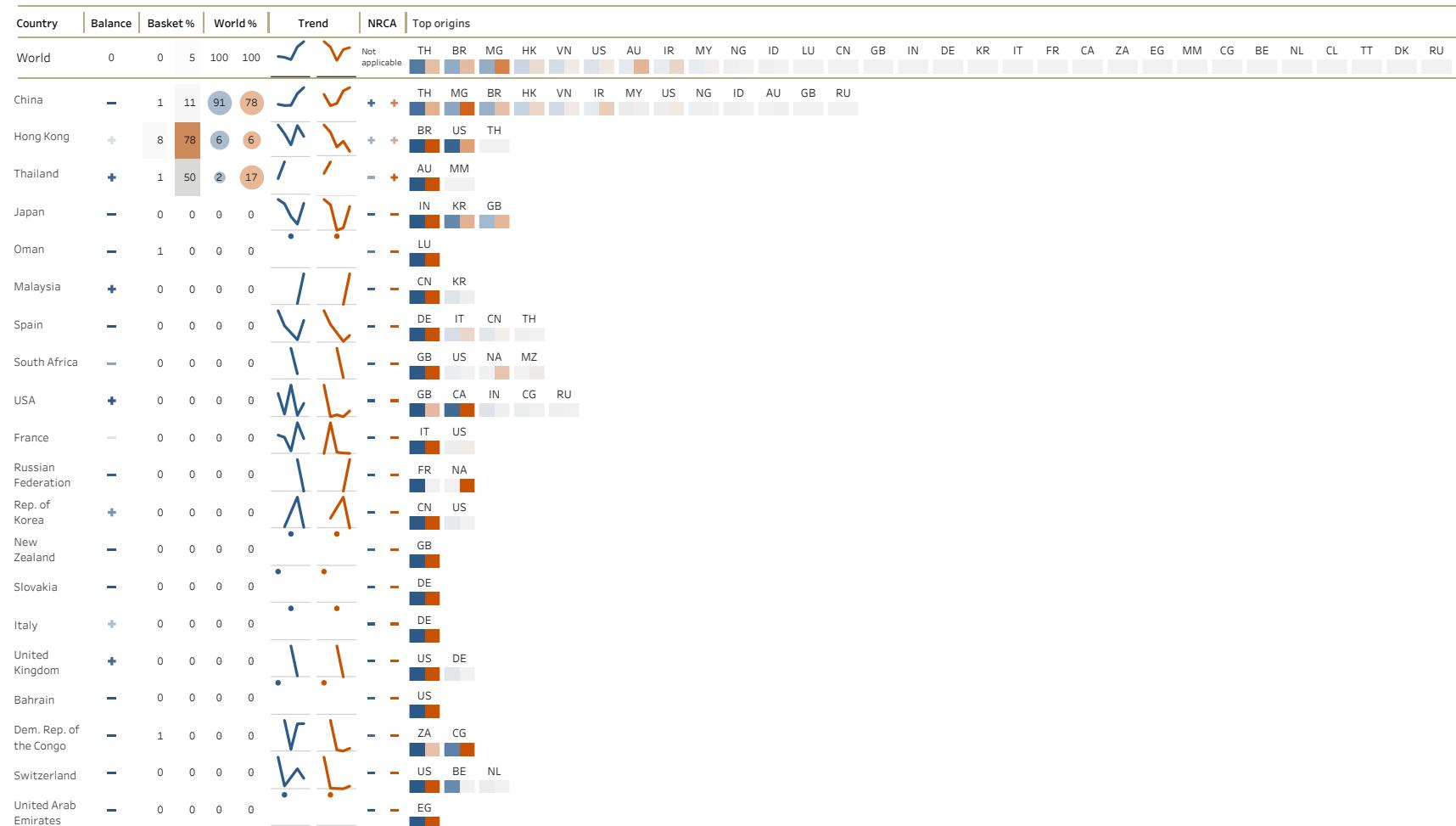
Figure 8: HS 2612.20 associated with Thorium ores and concentrates

HS 2612.20 High relevance associated with trade of

## Thorium ores and concentrates

### Import

Years 2016-2020 BACI records: 149



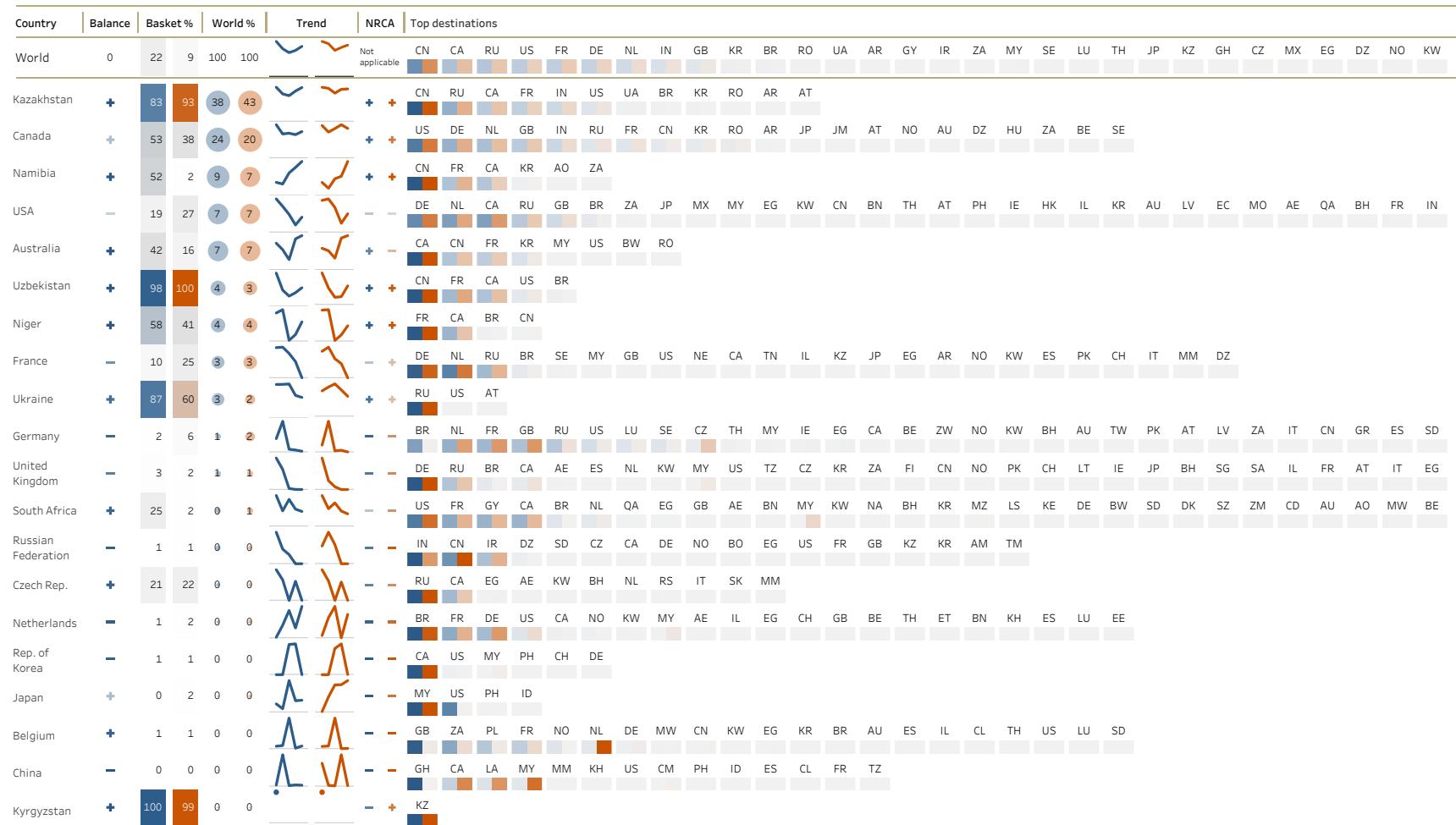
Scale of World % (5 years): 1% Value = 1.4 M\$ 1% Quantity = 1,726.3 T

HS 2844.10 Highest relevance associated with trade of

## Natural uranium

### Export

Years 2016–2020 BACI records: 1,149



Scale of World % (5 years): 1% Value = 208.1 M\$ 1% Quantity = 3,178.8 T

Figure 9: HS 2844.10 associated with Natural uranium

### HS 2844.10 Highest relevance associated with trade of

## Natural uranium

## Import

Years 2016-2020 BACI records: 1,149

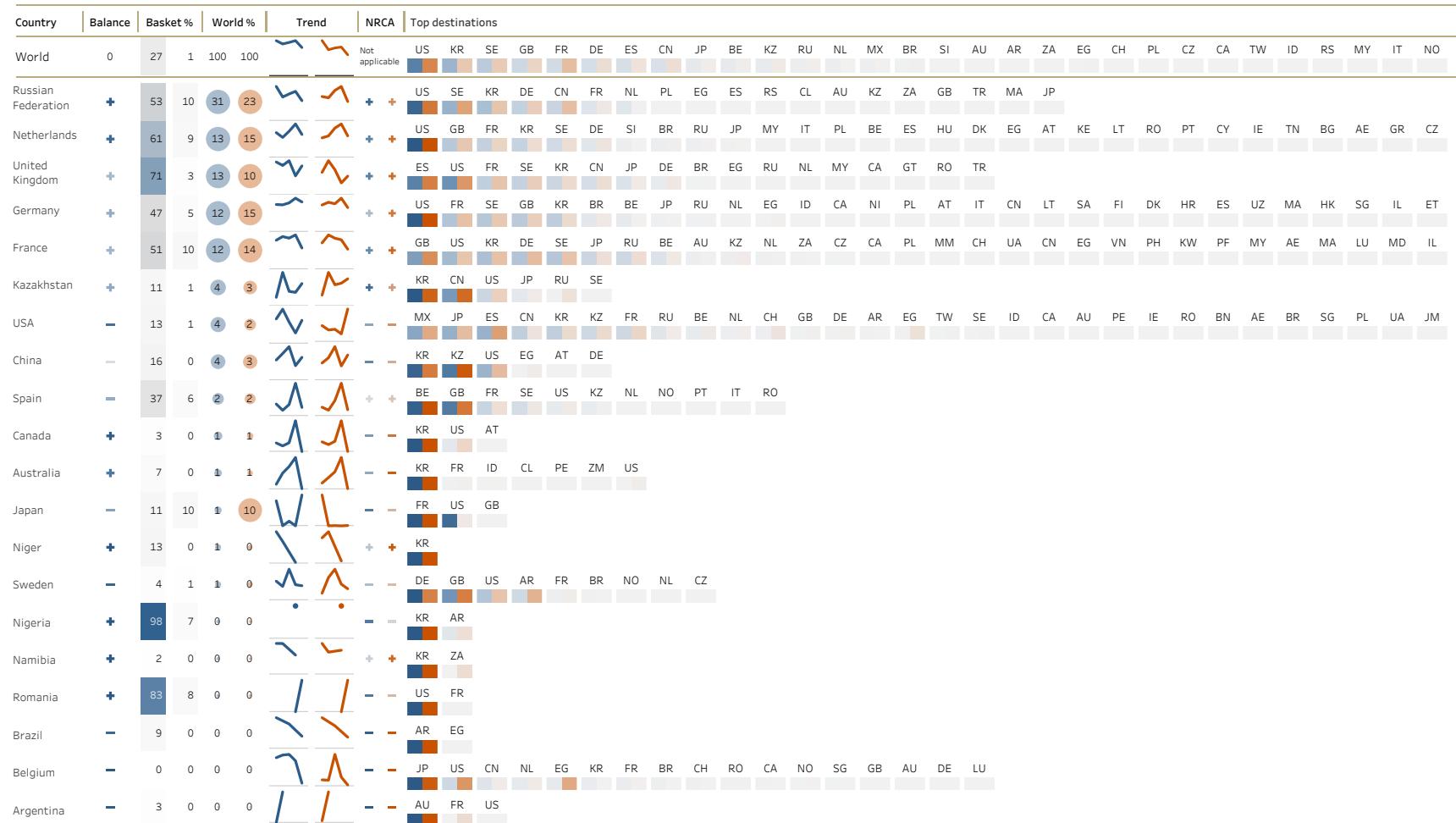
Scale of World % (5 years): 1% Value = 208.1 M\$ 1% Quantity = 3,178.8 T

HS 2844.20 Highest relevance associated with trade of

## Enriched uranium; plutonium

### Export

Years 2016–2020 BACI records: 883



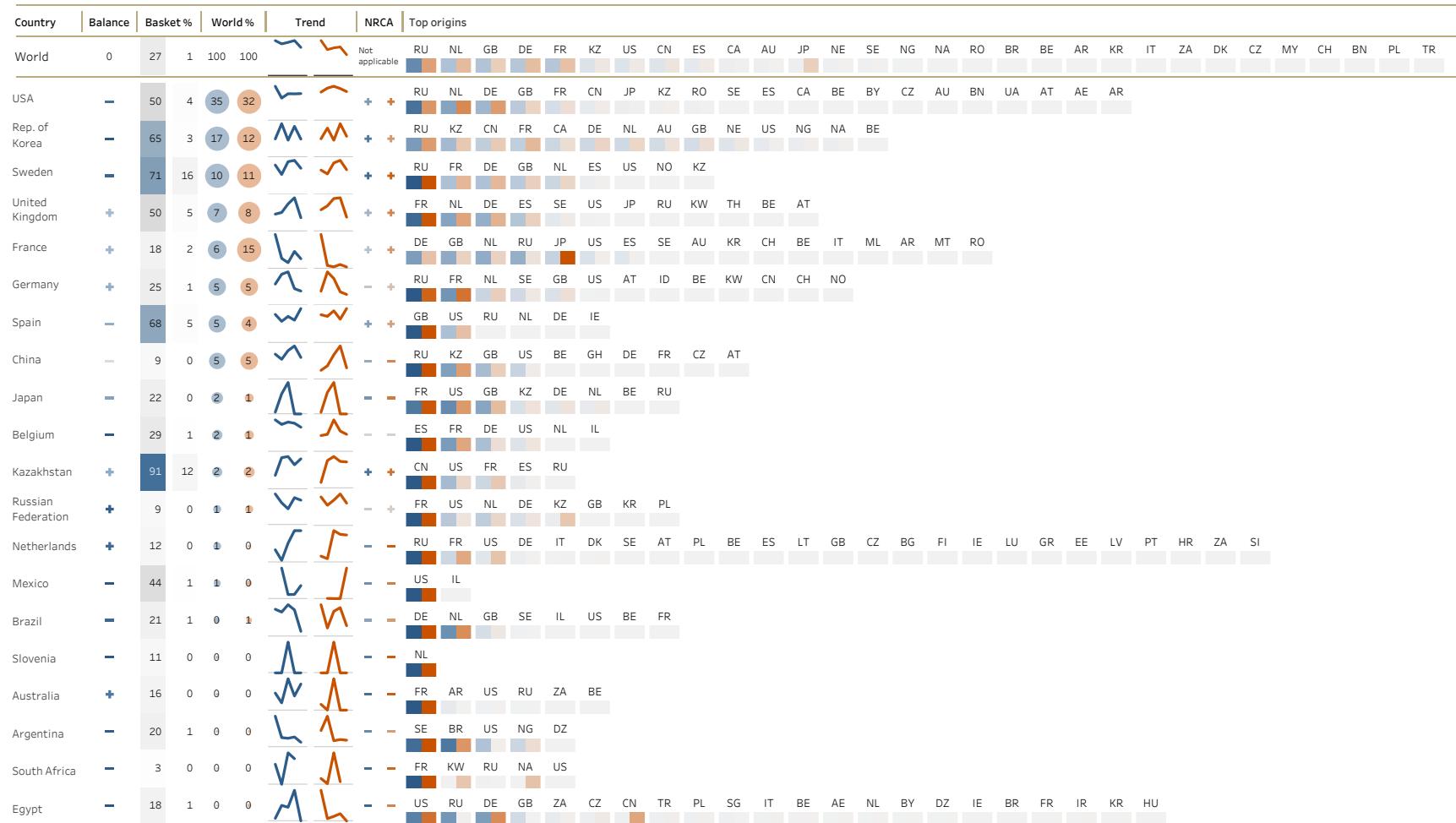
Scale of World % (5 years): 1% Value = 252.5 M\$ 1% Quantity = 300.3 T

Figure 10: HS 2844.20 associated with Enriched uranium; plutonium

HS 2844.20 Highest relevance associated with trade of  
Enriched uranium; plutonium

Import

Years 2016-2020 BACI records: 883



Scale of World % (5 years): 1% Value = 252.5 M\$ 1% Quantity = 300.3 T

HS 2844.30 Medium relevance associated with trade of

## Depleted uranium; thorium

### Export

Years 2016–2020 BACI records: 1,669



Scale of World % (5 years): 1% Value = 2.9 M\$ 1% Quantity = 1,220.0 T

Figure 11: HS 2844.30 associated with Depleted uranium; thorium

HS 2844.30 Medium relevance associated with trade of

## Depleted uranium; thorium

### Import

Years 2016-2020 BACI records: 1,669

Country	Balance	Basket %	World %	Trend	NRCA	Top origins
World	0	0	3 100	100	Not applicable	GB DE FR US CA IT CZ ES RU SK NE NL PT IN BG PL ZA SE HU CN AU BE CH MY RO IE DK FI IL AT
Rep. of Korea	-	1	0 24	0	↑ ↗	GB US CN AU DE BE CZ
France	-	1	4 17	9	↓ ↘	DE RU NL SE IT ES CZ SK US RO PT BE PL GB KZ PF KR CM IE BG CA CH
United Kingdom	+	1	20 14	7	↑ ↗	FR US ES CZ RU IT DE CN IN PT NL TR DK SG PL KW
Russian Federation	-	1	52 11	64	↑ ↗	GB CA NE DE NL FR CZ US
Saudi Arabia	-	12	1 6	0	↑ ↗	US CZ IN FR
Netherlands	-	1	11 4	6	↑ ↗	DE FR IE US CZ ES AU BE RO SK HU PT HR BG LT FI DK SI LU EE GB IT AT SE PL GR LV AO IN CY
China	-	0	0 3	0	↑ ↗	US DE RU GB AU BE IE AT
Spain	-	0	18 3	4	↑ ↗	IT PT DE FR DK NL RO PL GB CN CZ JP BE US HK AT IE SK IL
Italy	+	1	8 2	3	↑ ↗	SK DE CZ GB BG AT NL RO FR BE ES PL US CH
Portugal	-	8	56 2	1	↑ ↗	ES FR IT DE NL GB US
Germany	+	0	1 2	1	↑ ↗	BG IT FR RU PL US CN IN NL CZ EC GB HK NO AT CH BE SK KR TW ES ZA AE PE TR
USA	+	0	0 2	0	↑ ↗	IN CA FR RU GB DE CZ KR NO AU TW BS MY BE AE ES KW ZA SG BN AT UA IE AR
United Arab Emirates	-	0	0 1	0	↑ ↗	ZA CZ US HU GB RU IN NL DE BE FR CH ES
Israel	-	2	8 1	0	↑ ↗	US DE GB FR NL BE SK
Egypt	-	3	0 1	0	↑ ↗	RU US CZ DE TR ZA GB CN NL IN FR
Singapore	-	0	1 0	0	↑ ↗	US MY GB IN BN DE KR BE
Slovakia	+	0	12 0	1	↑ ↗	PL CZ IT ES HU DE DK BE AT US GB NL CN CH
Japan	-	0	0 0	0	↑ ↗	IN US FR AU KR GB AT DE BE ES
Kuwait	-	6	5 0	0	↑ ↗	CZ ES FR US AE
Belgium	-	0	2 0	0	↑ ↗	DE US CA CZ NL GB SK FR IT ZA GR LU PT

Scale of World % (5 years): 1% Value = 2.9 M\$ 1% Quantity = 1,220.0 T

HS 2844.40 Low relevance associated with trade of

## Radioactive elements and isotopes

### Export

Years 2016–2020 BACI records: 9,707

Country	Balance	Basket %	World %	Trend	NRCA	Top destinations
World	0	9	0 100 100	↗ ↘	Not applicable	US JP DE GB CN CA FR IT BE NL KR ES BR NO CH TR AU TW CZ MY SG MX AT RU IN AE PL SA IL TH
Canada	+	22	0 23 4	↗ ↗ ↘	+	US JP CN GB BE DE KR TR MY FR CH TH BR MX ES RU NL AU TW IT ZA SA HK LK IL IN IE CO SG ID
Netherlands	+	31	4 20 16	↗ ↗ ↗	+	US DE IT GB FR ES BE CH KR JP BR SE AT TR CZ GR CN NO DK FI IL CA PT IN HU MX AU SK SA KW
USA	-	14	1 12 6	↗ ↗ ↘	+	CA JP NO CN DE NL GB AU AE MX SG FR TW KR SA CZ BE RU IN TR BR TH CH IT MY AR ID ZA IL CO
Belgium	+	81	12 7 7	↗ ↗ ↗	+	US JP GB NL FR CN DE TR PL MX IT IL CA KR CU ES LU DK PT AT TH SE IN NO ZA CZ AU SK HU RU
Germany	+	8	0 6 3	↗ ↗ ↗	-	US GB IT FR CN CH ES AT BE NL KR SG FI JP PL IN DK CA RU CZ AU IL NO SE TR SK BR ZA UA MX
Russian Federation	+	3	0 5 1	↗ ↗ ↗	+	US CN DE BR CA CZ IR GB FR KR NL PL AU BY HU KZ AR IT MY CH UA IE VN EE TR ZA ID SK ES AE
Norway	+	98	4 5 1	↗ ↗ ↗	+	US JP DE NL ES BR RU TW CA AT CZ AR IE SI IL FI CO CN SK HK AU TH KR SG LU DK GB SA TR PL
United Kingdom	-	8	0 4 4	↘ ↗ ↗	+	JP DE IT FR US BE NL ID ES DK NO GR CZ SA IE KR MX MY HU CH TW SE IL MA LK KW TR PT LT CO
France	-	5	1 3 4	↗ ↗ ↗	+	BE DE US TW ES IT CN NL KR JP AT CO DZ IN GB GR PT RS PL NZ SA MX CR TH SG CL IE IL CH DO
South Africa	+	47	1 2 6	↗ ↗ ↗	+	US BR CA GB CN SG TR JP DE AU KR FR NL KW AR TH NG AE IN NA QA BD CL AT EG OM TZ AO VN BH
Australia	+	4	0 1 3	↗ ↗ ↗	-	US JP TW CN ZA NZ TR IN TH HK CA VN IQ KR FI ID MY PG IE DE SG CL UY DO PH SA PE AT MX BR
Czech Rep.	+	43	3 1 1	↗ ↗ ↗	+	US DE KR CN FR SA RU AE IN IT UA NO ES TR DZ TW SK GB BE OM KW AR JP AU UZ ID NL KZ BY SG
Poland	+	78	4 1 1	↗ ↗ ↗	-	CN DE KR BY CH UA ID US BE PH JP SA CO TR HU VN DZ GR BR AT IR BG FR TH TN CZ ZA AE SK PK
Singapore	+	68	12 1 2	↗ ↗ ↗	-	US DE AU IN TR TW EG SA MY RU TH AT VN HK KR CN BD MM AE LB ZA PH BN QA ID DZ OM NZ JP GB
Japan	-	4	5 1 13	↗ ↗ ↗	-	MY KR CN AU TW PL NL US HU TH GB SG SA HK DE ID NO VN PH BR LA RU BE FR GH BH CH CZ IL AT
Switzerland	-	57	6 1 1	↗ ↗ ↗	-	US IL CN BR GB KR AT DE JP IT FR HK CA BE NL TW TR PL SE OM SG AU PK DK KE HU ZA FI TH NO
China	-	1	0 1 5	↗ ↗ ↗	-	GB US CA KR BD TH PK NE NL IE IQ JP SD ZM MX CZ IN ID BR HK MM TR HU ET MA VN IT OM EG FI
Hungary	+	79	19 1 2	↗ ↗ ↗	-	RU KR DE RO FR CU IR SE GB SK IN VN SA GE BE AT IT PH RS AR JP US CL LK AU IQ LB TR SG CZ
Rep. of Korea	-	6	2 1 2	↗ ↗ ↗	-	JP CN AE VN MY ID TW US IR TH HK EG TR MN PH SG PK BH IN NO GB DE CH NL CA AU LB HU AO KW
Italy	-	22	1 0 1	↗ ↗ ↗	-	SE NL US FI SI GB NO MT KR AT TN SG BE CN JP FR ES IL SA TR PT RU DO CA CH RO DE UA LB GR

Scale of World % (5 years): 1% Value = 87.0 M\$ 1% Quantity = 125.6 T

Figure 12: HS 2844.40 associated with Radioactive elements and isotopes

HS 2844.40 Low relevance associated with trade of  
**Radioactive elements and isotopes**

**Import**

Years 2016-2020 BACI records: 9,707

Country	Balance	Basket %	World %	Trend	NRCA	Top origins
World	0	9	0 100 100		Not applicable	CA NL US BE DE RU NO GB FR ZA AU CZ PL SG JP CH CN HU KR IT SE MY TR IE AR ES UZ AT FI HK
USA	-	17	1 34 11		+	CA NL BE NO DE RU ZA AU CZ CH GB FR SG CN HK UZ IT FI PL EC MX SA KR BR CO AO AE MY HU IN
Japan	-	22	0 7 2		+	GB US NO BE CA NL AU KR DE FR ZA FI PL CH CZ CN RU HU IT HK BY SE SG UZ TR DK BR ES IL KZ
Germany	+	10	0 6 5		-	NL NO US RU CA GB BE FR SG PL CZ ZA HU BY AT UZ SE CH AE FI AU TR DK IN CN SA JP VN NZ ID
United Kingdom	-	11	1 4 3		+	NL BE CA US DE RU CN ZA FR IN SE CH AR IE HU IT FI CZ HK PL NO JP SG TR AO AT RO KR NG ES
China	-	3	0 4 3		-	US CA RU BE DE PL NL KR FR ZA CZ AU CH JP UZ NO FI SG GB GH TR IT ID HU HK TH MY TW AT MX
Canada	+	8	0 4 2		+	US RU ZA BE CN DE NL NO AU GB BR MY FR CH TH IL MX CZ FI DK TW AR IT PL TR SG LK KR UY KZ
France	-	3	0 3 6		-	NL BE DE GB US CA RU CZ ZA HU SE PL CH IT BY FI CN TR ES DZ NC SA AT TN IN DK IE CM AE NO
Italy	-	42	1 3 2		+	NL DE GB FR BE CA US AT RU CZ SE CH HU IE TR CN RO KW FI ZA PL IL SG KR ES CG DK AU NO SK
Belgium	+	15	1 3 2		+	NL FR CA DE US GB PL SE CZ HU IE IT RU CH ZA FI TR BR CN SG NO KW CO AT UA JP MX AE AU KR
Netherlands	+	10	1 2 3		-	BE US IE DE NO GB RU CA FR IT ZA SE BR BY CZ CN TR BH AT JP IN CH PL DK GR HU AU ES PE OM
Rep. of Korea	-	3	0 2 3		-	NL CA US DE RU CZ JP BE FR HU ZA PL GB CN CH SG ES IT IE AU SE NO UZ TR TW FI EG ID IR IN
Spain	-	9	1 2 2		-	NL DE FR NO CA GB BE US CZ RU SE IE IT HU FI CN LU AU TR BR DK CH AL AT PT CL IS
Brazil	-	22	1 2 1		+	RU NL ZA CA NO US AR CH DE PL CZ CN BE IL AU FI FR GB TR IT JP KR UA DO CO
Norway	+	35	0 1 1		+	US NL GB DE CZ BE FI ES IT CA FR RU BR SG PL KR EC DK SE CH CN ZA IE JP VN CI RO TR GA BA
Switzerland	-	17	1 1 1		-	NL DE CA US PL RU GB FR AT BE CZ IT HU KR ZA ES NO FI SE TR SG CN DK JP SA IL MK IN CO BG
Turkey	-	47	0 1 1		+	BE CA NL US ZA SG DE PL CZ RU AU BY GB IL FR KR HU NO CN IR CH IT UZ AT SE BA FI DK ME QA
Australia	+	42	1 1 1		-	US SG CA DE RU ZA NL JP BE NO CZ GB HU FR SE IL CH TR CN DO MY AR TN FI PG IT KR PL IN ID
Taiwan, China	-	6	1 1 2		-	US FR NO AU CA SG NL JP GB CZ KR TR DE BE IL CH PL FI CN HU RU ZA IR HK ID VN
Czech Rep.	+	10	1 1 1		+	RU US NL DE GB NO AT BE PL CA FR CN HU SK SE BY BR FI AU DZ SD MK CU EG AE KW AZ TN ID CH
Malaysia	-	57	9 1 13		-	JP CA US RU GB SG NL KR FR DE TH AU BN DZ PL ZA AT TR VN CN RO BE IN NO TM TW NZ CZ IT FI

Scale of World % (5 years): 1% Value = 87.0 M\$ 1% Quantity = 125.6 T

HS 2844.50 Highest relevance associated with trade of

## Irradiated fuel elements

### Export

Years 2016–2020 BACI records: 287

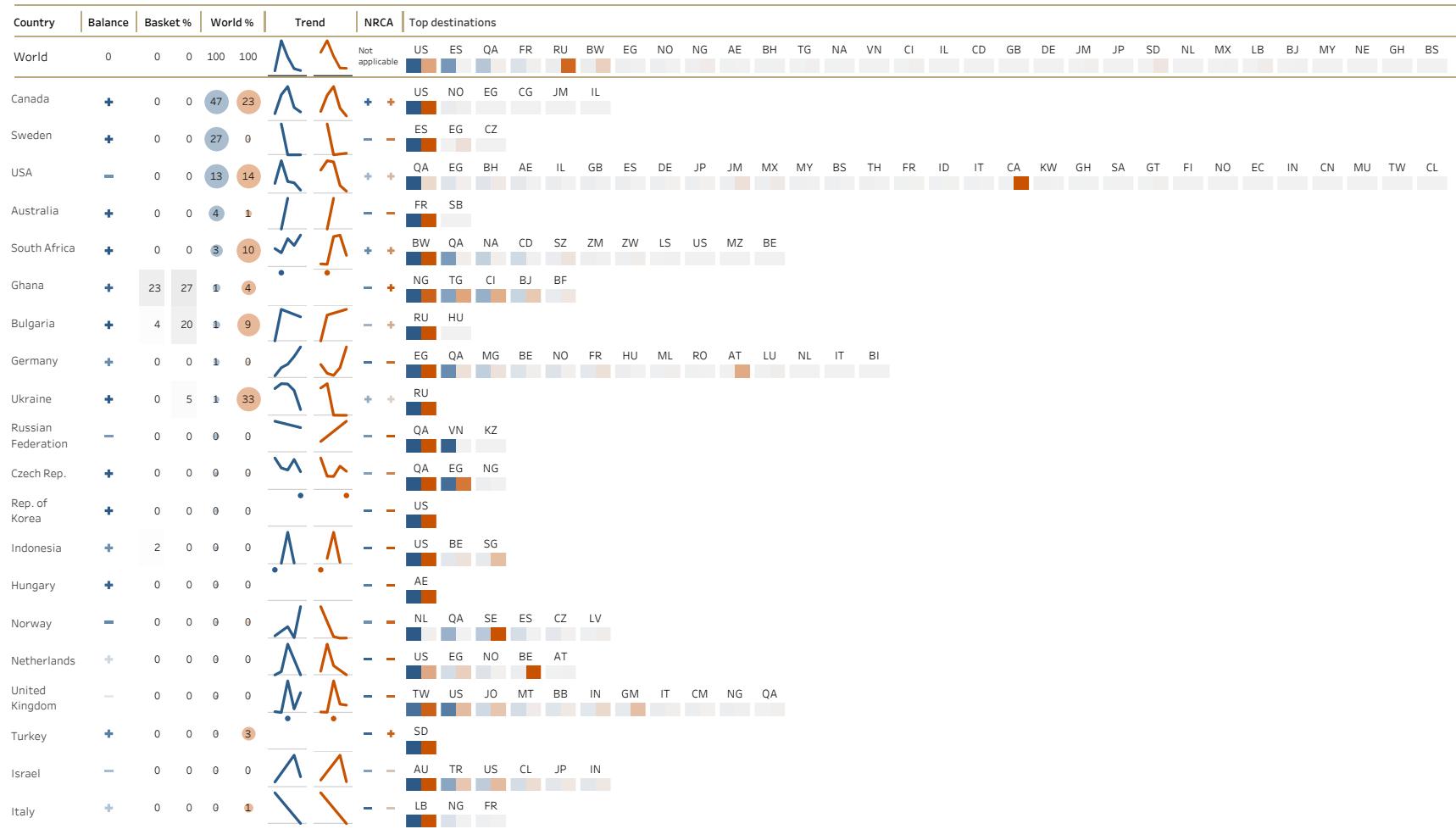


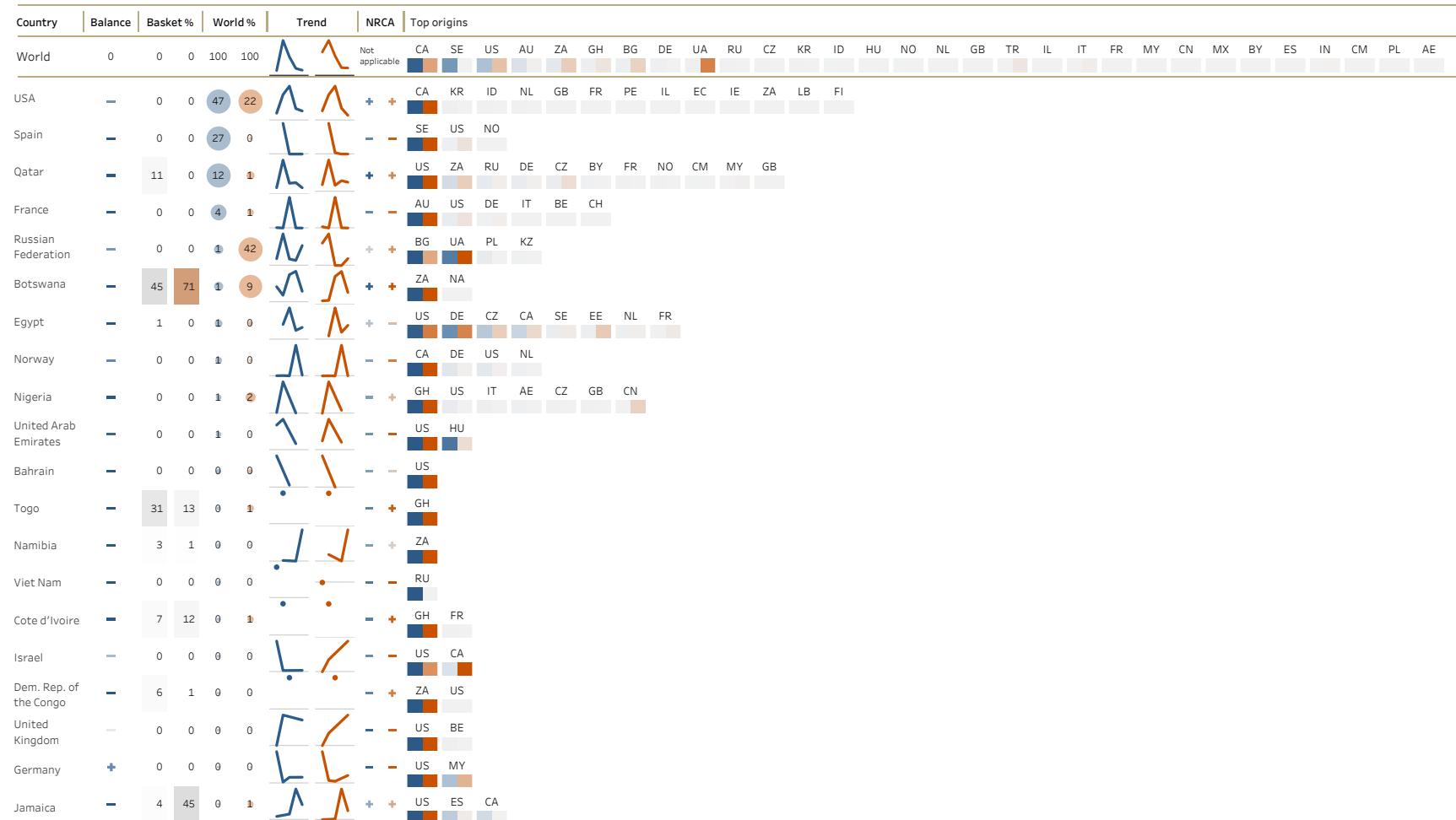
Figure 13: HS 2844.50 associated with *Irradiated fuel elements*

HS 2844.50 Highest relevance associated with trade of

## Irradiated fuel elements

### Import

Years 2016-2020 BACI records: 287



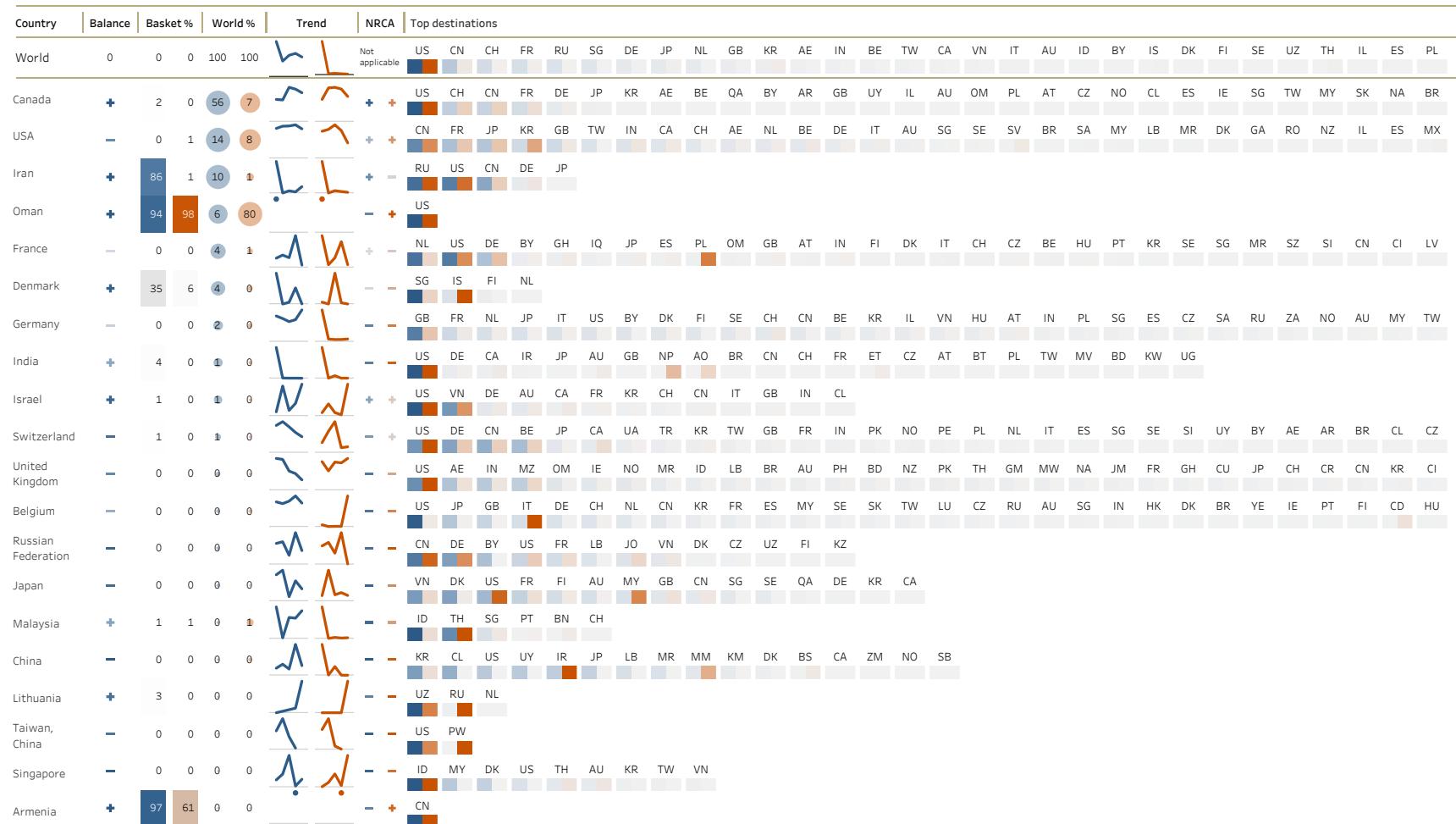
Scale of World % (5 years): 1% Value = 0.4 M\$ 1% Quantity = 13.2 T

HS 2845.10 High relevance associated with trade of

## Heavy water

### Export

Years 2016–2020 BACI records: 1,767



Scale of World % (5 years): 1% Value = 2.7 M\$ 1% Quantity = 81.9 T

Figure 14: HS 2845.10 associated with Heavy water

HS 2845.10 High relevance associated with trade of

## Heavy water

### Import

Years 2016-2020 BACI records: 1,767

Country	Balance	Basket %	World %	Trend	NRCA	Top origins	CA	US	IR	OM	FR	DK	DE	IN	IL	CH	GB	BE	RU	JP	MY	CN	LT	TW	SG	AM	KR	SE	AU	HK	AT	NL	ZA	MZ	ES	FI			
World	0	0	0	100	100	Not applicable	CA	US	IR	OM	FR	DK	DE	IN	IL	CH	GB	BE	RU	JP	MY	CN	LT	TW	SG	AM	KR	SE	AU	HK	AT	NL	ZA	MZ	ES	FI			
USA	-	1	3	54	86	↓ ↘	+	CA	OM	IR	FR	IN	IL	CH	BE	GB	TV	DE	KR	JP	RU	NL	AT	CN	SG	ES	TT	AU	HK										
China	-	0	0	11	3	↑ ↗	+	CA	US	IR	CH	RU	AM	DE	IL	BE	JP	FR	GB	IN	NL	TH																	
Switzerland	-	2	0	6	1	↑ ↗	+	CA	US	DE	FR	BE	IL	GB	IT	IN	MY																						
France	-	0	0	5	1	↑ ↗	+	CA	US	DE	JP	RU	IL	CH	BE	GB	PL	IN	ES	HU	LU																		
Russian Federation	-	0	0	4	0	↓ ↖	-	IR	DE	BE	LT	US	HK	FR																									
Singapore	-	2	0	3	0	↓ ↖	-	DK	US	DE	MY	FR	CA	JP	NZ	CH	BE	AT	AU	ID																			
Germany	-	0	0	2	0	↑ ↗	-	CA	FR	US	IR	CH	RU	IL	IN	BE	GB	JP	ES	GH																			
Japan	-	0	0	2	1	↑ ↗	-	US	CA	DE	FR	BE	CH	CN	IN	GB	IR																						
Netherlands	-	0	0	2	0	↑ ↗	-	FR	US	DE	BE	HU	CH	GB	NO	GE	ES	CY	SE	PL	IT	DK	AT	BG	FI	MT	CZ	LU	SI	PT	GR	LT	EE	SK	LV	IE	HR		
United Kingdom	-	0	0	2	0	↑ ↗	-	US	DE	SE	CA	FR	BE	MZ	JP	CH	IL	IN	IE																				
Rep. of Korea	-	0	0	1	2	↑ ↗	-	US	CA	DE	CN	IL	FR	CH	BE	GB	SG	JP																					
United Arab Emirates	-	0	0	1	0	↑ ↗	-	US	CA	GB	DE	CH	RO																										
India	+	0	0	1	0	↑ ↗	-	US	GB	DE	FR	CH	BE	IL																									
Belgium	-	0	0	1	0	↑ ↗	-	US	CH	CA	DE	AT	FR	LU	NL	GB																							
Taiwan, China	-	0	0	1	0	↑ ↗	-	US	DE	CH	CA	BE	KR	SG	GB	IN																							
Canada	+	0	0	1	0	↑ ↗	-	US	IN	CH	IL	DE	GB	JM	JP	CN	FR	SZ	GH																				
Viet Nam	-	1	0	0	0	↑ ↗	-	IL	JP	AU	DE	RU	KR	US	GB	SG	AT	CH	BE																				
Italy	-	0	0	0	0	↑ ↗	-	US	DE	BE	FR	IL	NL	CH	CA	GB	ES																						
Australia	-	0	0	0	0	↑ ↗	-	US	IL	CA	JP	DE	GB	IN	SG	BE	FR	PE																					
Indonesia	-	0	0	0	0	↑ ↗	-	MY	SG	HK	GB	DE	US																										

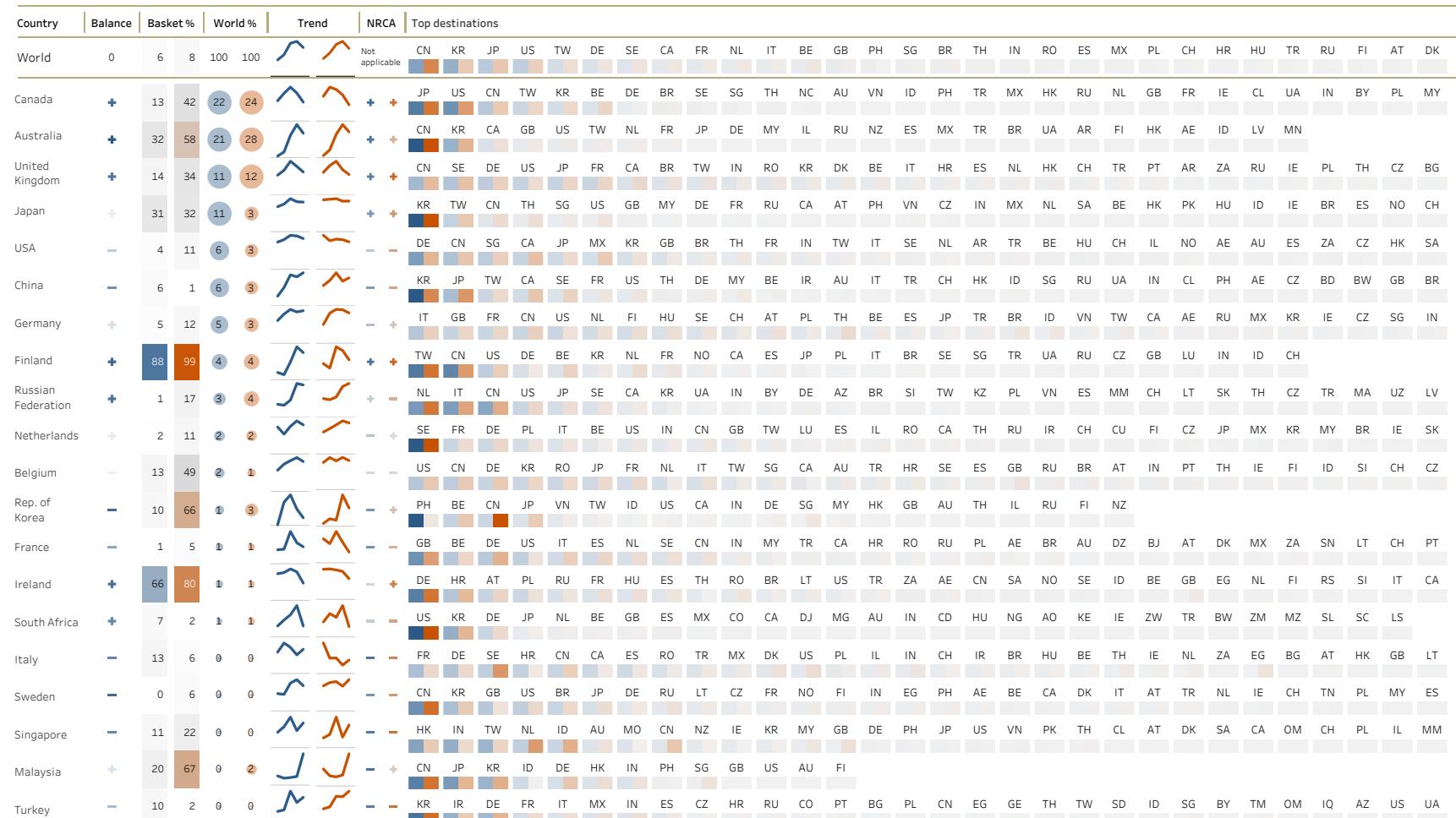
Scale of World % (5 years): 1% Value = 2.7 M\$ 1% Quantity = 81.9 T

HS 7504 Low relevance associated with trade of

## Nickel powder

### Export

Years 2016–2020 BACI records: 4,897



Scale of World % (5 years): 1% Value = 54.8 M\$ 1% Quantity = 2,922.5 T

Figure 15: HS 7504 associated with Nickel powder

HS 7504 Low relevance associated with trade of

## Nickel powder

### Import

Years 2016-2020 BACI records: 4,897

Country	Balance	Basket %	World %	Trend	NRCA	Top origins	CA	AU	GB	JP	US	CN	DE	FI	RU	NL	BE	KR	FR	IE	ZA	IT	SE	SG	MY	TR	LU	DK	ES	MA	LT	IN	PL	AT	MG	VN			
World	0	6	8	100	100	Not applicable	CA	AU	GB	JP	US	CN	DE	FI	RU	NL	BE	KR	FR	IE	ZA	IT	SE	SG	MY	TR	LU	DK	ES	MA	LT	IN	PL	AT	MG	VN			
China	-	10	7	23	32	↑	↑	+	+	AU	CA	GB	FI	US	RU	DE	JP	BE	KR	MA	SE	MY	NL	FR	VN	HK	IT	SG	IE	TW	ES	TH	UA	AT	TR	SK	IL	KH	CH
Rep. of Korea	-	15	30	19	11	↑	↑	+	+	JP	CN	AU	CA	US	GB	BE	ZA	FI	TR	RU	SE	DE	MY	TW	SG	NL	PH	VN	CR	IT	ES	IN	FR	IE	ID	HK	AT	UA	AE
Japan	+	22	23	11	12	↑	↑	+	+	CA	GB	CN	US	RU	BE	DE	KR	MY	AU	FI	SE	ZA	ES	NL	TH	SG	TW	FR	IT	AT	PL	HK	IE	IN	CH	TR			
USA	-	3	12	10	9	↑	↑	-	+	CA	GB	FI	DE	AU	ZA	RU	BE	JP	CN	FR	NL	SE	ES	IN	IE	IT	CH	KR	IL	AT	PL	TW	CZ	SG	HU	HK	MX	BR	HR
Taiwan, China	-	21	37	6	5	↑	↑	+	+	CA	FI	JP	CN	GB	AU	US	DE	BE	SG	NL	KR	RU	TR	FR	SE														
Germany	+	4	7	4	3	↑	↑	-	-	US	GB	IE	CA	FI	BE	NL	FR	CN	IT	ZA	TR	JP	AU	RU	ES	LU	MY	MG	SE	RO	HR	TH	CZ	CH	SG	AT	KR	PL	AD
Sweden	-	5	53	3	4	↑	↑	+	+	GB	NL	CN	CA	DE	RU	US	FR	IT	LU	BE	IE	FI	AT	NO	ES	PL	SK	DK	CH	JP									
Canada	+	3	3	3	3	↑	↑	+	+	AU	US	GB	CN	RU	DE	BE	FI	IT	JP	NL	FR	KR	AT	SE	IE	HK	ZA	ES	SG	BZ	CH	IN	MX	UA					
France	-	2	2	2	2	↑	↑	-	-	GB	DE	AU	NL	DK	CN	US	BE	FI	IT	IE	MG	JP	ES	CA	TR	SE	LU	IR	PL	AT	HR	VN	RO	HK	IS	CH	IL	IN	EE
Netherlands	+	5	12	2	3	↑	↑	-	-	RU	DE	AU	GB	BE	FI	US	FR	LU	SG	CA	JP	ZA	BR	IE	IT	VN	SE	AT	CH	HU	RO	PL	PT	CZ	CN	GR	HR	SI	SK
Italy	-	18	10	2	2	↑	↑	-	-	RU	DE	GB	BE	NL	US	FR	CN	TR	FI	LU	CH	AT	SE	IE	HU	CA	ES	PT	RO	JP	CD	IN	CL						
Belgium	-	6	27	2	3	↑	↑	-	-	CA	GB	FI	KR	DE	FR	NL	US	CN	JP	ZA	IT	IE	ES	SE	LU	HR	CH	CZ	BR	AT	TR	AR	IN	SG	HU				
United Kingdom	+	3	10	2	1	↑	↑	-	-	DE	AU	FR	US	JP	LU	NL	SE	BE	CA	ZA	IE	HR	SG	FI	ES	CN	CH	IT	AT	SK	PL	IN	MY	PT	KR	HU	BG	TR	RO
Philippines	-	53	46	1	0	↑	↑	-	-	KR	CA	GB	JP	SE	US	DE	MY	SG	CN	TW	IN	HK																	
Singapore	-	16	57	1	1	↑	↑	-	-	US	JP	CA	BE	DE	GB	CZ	FI	CN	MY	AT	IE	NL	KR	ID	IN	TH	HK	TR	SE	TW	NZ	CM	FR	CH	BR	AE	IL	RU	
Brazil	-	10	18	1	1	↑	↑	-	-	GB	CA	US	DE	SE	BE	IE	RU	FI	IT	FR	NL	AU	IN	CZ	CN	JP	HK	PT	AR										
Thailand	-	20	4	1	1	↑	↑	-	-	JP	US	DE	CA	CN	GB	IE	BE	NL	IT	AT	TW	IN	SG	TR	RU	FR	KR	IR	SE	UA	CH								
India	-	2	1	1	1	↑	↑	-	-	GB	US	NL	SG	DE	BE	RU	FR	JP	CA	MY	TR	IT	SE	KR	CN	CH	FI	HK	ES	AE	IE	AT	BG	ZA	TW	TH	LK		
Romania	-	12	8	1	1	↑	↑	-	-	GB	BE	IE	NL	IT	FR	AT	DE	HR	LU	TR	HU	BG																	
Spain	-	1	6	1	1	↑	↑	-	-	GB	DE	FR	IE	FI	BE	IT	US	NL	PL	AU	TR	PT	ZA	MG	CA	RU	CH	CN	JP	RO	SE	AT	BR	DK	IN				

Scale of World % (5 years): 1% Value = 54.8 M\$ 1% Quantity = 2,922.5 T

HS 8101.99 Low relevance associated with trade of

## Tungsten articles

### Export

Years 2016–2020 BACI records: 7,934

Country	Balance	Basket %	World %	Trend	NRCA	Top destinations
World	0	2	1 100 100	↗ ↘	Not applicable	JP US DE TW CN IT KR MX FR SG AT IN VN PH HK GB PL TH TR NO BR HU CH IL CA AU CZ NL RU BE
China	+	10	1 30 32	↗ ↗	+	US JP TW DE HK KR TR BR TH IL SG VN GB MX FR RU HU IN IT CZ PH NL AU CA CL MY PL SE NZ CH
USA	+	4	2 14 9	↗ ↗	+	JP MX DE CR CA TW CN KR GB AT IL FR AU BR AE SG RU CH TR CL CO IT IN PL HU IE NL AR PH RO
Japan	-	12	3 12 4	↗ ↗	+	CN SG TW KR PH US TH MX VN HK MY ID IN AT FR DE IT CH BE RU AU HU GB NL BR CR TR ES IL CZ
Germany	+	3	1 10 5	↗ ↗	+	IT AT FR US CH JP NL HU TR CN ES NO AU RU DK CZ KR BR PL IN TW MX SK GB PT MY SE RO BE IL
Austria	+	49	8 8 7	↗ ↗	+	JP US DE IT GB IN HU KR PH PT CN BG CZ FR TW SK ZA KZ CH HK IL RO TR MX TH SG ID HR NL PL
France	+	2	3 5 5	↗ ↗	+	NO IN MX US BE CH DE IT PL BR BG PT RO GB IL AT TR ZA ES SE SK JP NL CN CZ LU HU AU SG MA
Italy	-	33	15 3 8	↗ ↗	-	DE AT TR BG LU FR KR BR RO PL CH GB CZ KZ MX ES AU US HU PT RU JP IN IL NL HR SI SE IE AR
United Kingdom	+	1	1 2 3	↗ ↗	+	AU DE ES SI US AT CN BR IT TH BE CL JP PL TW NL FR AE CH CZ IE RU TR IL SA NO RO OM CA SE
Rep. of Korea	-	5	3 2 2	↗ ↗	-	JP VN CN MX ID TR IN FR CZ MY MA PH US HK TW PL TH SG SA HU DE RU IT SI AE ES DZ IL NG AT
Taiwan, China	-	7	6 2 1	↗ ↗	-	CN TH US NZ HK KR DE VN SG JP MY IN GB PH CO SA CH TR PE AU CR IT ID RU IR ZA MO BR KH AT
Czech Rep.	+	9	10 1 1	↗ ↗	+	PL SK IT DE SI TR NL RU FR KZ ES MA MX CH BG US CO HU IL IN AT HR CN BE AU SG NO JP BY BR
Switzerland	+	21	3 1 0	↗ ↗	-	DE US RO FR IT NL TW HU CN IN NO AT CZ GB CA BE KR ES RU SG MX MY ID JP PT TR BG HK DK FI
Hong Kong	-	26	1 1 1	↗ ↗	+	VN PH AU CN US GB MX TW JP TH DE RU SG IL IN JM BR NL KR IT FR BG MY AT ZA FI PL TR DK CH
India	-	20	11 1 2	↗ ↗	-	BD MX IR TH JP SE PL DE US SG AT OM FR TR CN IT EG NL GB LK SI TW CH AE PK BR MY IL KR AR
Singapore	-	13	11 1 1	↗ ↗	-	IN PH US ID TH TW JP MY BR AE CN DE VN HK IT AU FR KZ CH KR MM GB AR NZ ZA NO TR BY NG MT
Belgium	-	2	5 1 2	↗ ↗	-	FR DE GB NL PT ES HK PL CN RU IL US SE CZ IT RO CH TH BR DK LU GH PH BG GR SI BY IN DZ SG
Thailand	-	18	0 1 1	↗ ↗	-	US GB IT JP HK AU DE IN CN PK HU PL LA SG VN ES ID NZ LK MM ET MY BA FR IR ZA AT TN RS PH
Morocco	+	63	0 0 0	↗ ↗	-	FR MR
Netherlands	-	0	0 0 0	↗ ↗	-	BE IT US TW DE FR CZ PT BR ES NO VN AE KR SE CN CA SG CH JP PH AT QA IN DK GB PL ID IL HU
Poland	-	5	16 0 3	↗ ↗	-	CZ GB VN RU LT FR DE AT CN BG US DK PT ES IN NL SK JP BY BE HR EE TR UA IT CH IS SG HU NZ

Scale of World % (5 years): 1% Value = 19.6 M\$ 1% Quantity = 208.5 T

Figure 16: HS 8101.99 associated with *Tungsten articles*

HS 8101.99 Low relevance associated with trade of

## Tungsten articles

### Import

Years 2016-2020 BACI records: 7,934

Country	Balance	Basket %	World %	Trend	NRCA	Top origins	
World	0	2	1	100	100	Not applicable	CN US JP DE AT FR IT GB KR TW CZ CH HK IN SG BE TH MA NL PL RU IL ES RO CA MY PH LU AE BG
Japan	-	10	2	14	14	+ ↗	US CN AT KR DE MY TH IN TW VN SG GB FR IT PT HK LU AE RU ES CH NL DK AR ZA CA CZ SE IL
USA	+	1	1	12	10	+ ↗	CN AT DE JP FR TH CA TW GB SG CH IL IN HK SC AU ES MX BR NL KR CR UA IT VN RU UZ SE DK BG
Germany	+	3	1	8	8	+ ↗	CN US IT AT GB FR CH RO BE TW CZ IL IN MX JP CA NL SG PT LU TR HU ZA SE ES TH KR HK RU BR
Taiwan, China	-	7	1	5	3	+ ↗	CN JP US DE AT CH SG GB SE NL KR HK IN IT MY CR RU DK VN CZ CA FI AU UA TH FR MX BE SK ES
China	+	1	0	5	6	- ↘	JP US TW DE KR AT GB LK HK RU CH SG IN FR MY PH TH BE BG NL UA IT LU AE SK SE ES PL CZ VN
Italy	-	14	1	4	3	+ ↗	DE AT CN FR TH CH GB US CZ LU JP NL RO IN HU BG KR SG BE TW ES HK SE DK TR PK PT RU SK IL
Rep. of Korea	-	1	0	4	2	+ ↗	JP CN US RU AT PH DE TW IT IL CH NL GB VN IN ES BG HK SE SG MY FI AU UA KZ LU AE FR CZ TH
Mexico	-	14	4	3	2	+ ↗	US CN FR JP IN KR DE IT AR HK AT CH CZ ES CA GB RU NL PT BR AE HU TH TW NO BE CO CR
France	+	1	0	3	1	- ↘	DE CN MA BE US CH AT IT KR JP ES GB IN NL CZ RO LU PL SE UZ SG HK BR TH RU TW ZA MX PT FI
Singapore	-	16	5	3	1	+ ↗	JP CN US TW IN DE KR AT CH FR GB NL SE HK MY TH CA IT ID AU IL CZ MX ZA AE BR BN PH NO BE
Austria	+	28	7	3	4	+ ↗	DE IT US GB BG FR JP IN CH CN HU SK NL PL KR CZ ES IL HK TW DK CR TH SI ID BR MX RO SG BE
India	-	2	1	2	3	- ↗	FR CN AT SG DE KR US JP AE CH TW IT LK TH GB AU NL VN HK CL CZ RU ZA IL BR CA FI KP OM PL
Viet Nam	-	32	2	2	1	+ ↗	CN KR HK JP TW SE IL SG US PL NL DE GB IT CR TH RO MY IN PH FR FI CH NO AU AE RU ID PT BE
Philippines	-	32	34	2	2	+ ↗	JP HK CN AT SG US KR TW DE NL GB BE MY FR TH IN CA ID VN IT FJ
Hong Kong	-	32	4	2	2	- ↗	CN JP TW TH DE AT IE US KR SG BE AE CH PH IN IT GB MY RU FR NL SK CA
United Kingdom	+	1	2	2	4	+ ↗	CN AT US PL TH BE FR DE IT HK LK ES CH IN TW JP EE ZA KE IL HU AE NL MX LU RO SG AU NO RU
Poland	-	20	2	2	1	+ ↗	CZ FR CN DE US IN IT GB KR LU BE DK AT TH MX NL JP CH SK HK HU RO CA LT ES SE BR TW MO ID
Thailand	-	15	0	2	1	+ ↗	CN JP TW IN GB SG US DE KR AT HK LU FR MY BE CH IT LA RU ES NL SE AU VN MX IE IL PH AE CO
Turkey	-	13	2	2	2	+ ↗	CN DE IT KR US FR CZ BG IN AT GB CH TW ES JP DK RU SK NL SG HK HU AE CA IL SE PL PT BE PK
Norway	-	9	0	2	1	+ ↗	FR DE CH US CN NL GB DK IT SE SG AE CZ AT HU IE IL TH ES BG PT FI BE IN TW EE RO SK AO

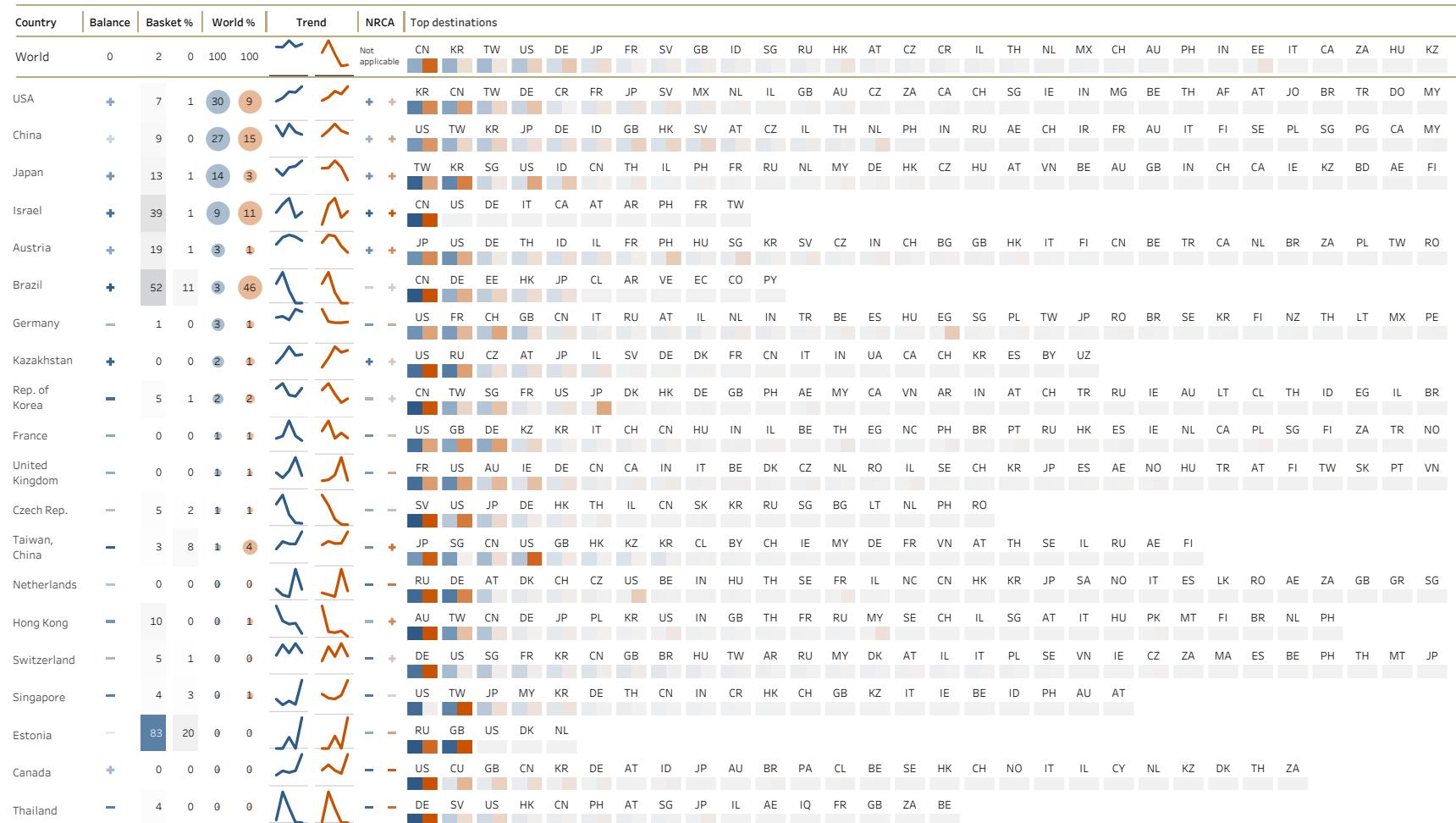
Scale of World % (5 years): 1% Value = 19.6 M\$ 1% Quantity = 208.5 T

HS 8103.90 Low relevance associated with trade of

## Tantalum articles

### Export

Years 2016–2020 BACI records: 3,012



Scale of World % (5 years): 1% Value = 18.6 M\$ 1% Quantity = 78.5 T

Figure 17: HS 8103.90 associated with Tantalum articles

HS 8103.90 Low relevance associated with trade of

## Tantalum articles

### Import

Years 2016-2020 BACI records: 3,012

Country	Balance	Basket %	World %	Trend	NRCA	Top origins
World	0	2	0 100 100		Not applicable	US CN JP IL AT BR DE KZ KR FR GB CZ TW NL HK CH SG EE CA TH DK HU IN IT RU PL MX BE AE AU
China	+	3	0 20 43		↑	IL US BR KR JP TW DE HK IT FR GB IE CH AT KZ CA SE SG DK TH BE ID NL IN FI CZ PH RU MY RO
Rep. of Korea	-	5	0 18 5		+	US JP CN AT TW FR CH SG MO DE GB DK HK CA KZ NL PH CZ IN AE KN AD GH BE CD
Taiwan, China	-	20	1 15 3		↑	JP CN US KR HK SG DE CH DK MY FI AT PH GB IE JO FR IL
USA	+	1	0 12 9		↑	CN KZ AT DE JP FR GB CA SG TW CZ DK KR CH MX IL MK RU IN CR TH DO SV NG NL NC MG HK MY FI
Germany	-	2	1 5 12		↑	US CN BR AT FR NL TH CH PL CZ GB IN JP HU KZ HK KR SG DK SE TW IT IL FI CA PT BE SK ES IE
Japan	+	3	0 4 6		↑	CN US AT TW BR KZ CZ SG KR HK IE DE IN GB ID PL MY TH CA DK NL IT FI CH RU BE FR SE
France	-	1	0 3 1		↑	US DE GB AT KR CN JP CH IN HU KZ IT HK NL TW ES MA BE FI IE DK TH PL CV MX IL VN SE LU AE
El Salvador	-	95	72 3 2		↓	CN US CZ AT TH KZ AU
United Kingdom	-	1	0 2 2		↑	CN DE FR US EE TW AT CH HU CA KR ZA HK JP BE FI IN SE DK SG IE IT CO NL PL LU TH
Indonesia	-	27	1 2 1		↑	CN JP AT BE DE CA US GB FR SG CH NL KR
Singapore	-	8	1 2 0		↑	JP KR TW US AT CH CN DE NA TH FR DK GB HK MX AU MY LR PH CZ NL IN ID CD
Russian Federation	-	1	0 1 1		↑	KZ NL EE CN DE JP LT US CH HK FR IT FI IE BE GB DK CZ BH KR TW IN PL BY
Hong Kong	-	24	2 1 4		↑	CN BR TW JP AT CZ US KR ID TH IT PH IN FR DE SG NL BE CA GB
Austria	+	12	0 1 1		↑	CN KZ DE NL US BG JP CH TH IN GB CA TW IL KR HK IT SG
Czech Rep.	-	2	0 1 0		↑	CN KZ US AT SV JP NL GB DE SK IT CH RW PL IE FR LT
Costa Rica	-	45	3 1 0		↑	US DE SG IE CN
Israel	+	19	2 1 1		↑	CN US AT KZ JP DE BE FR GB TR CH CZ NL DK HK TW TH LT IT CA KR
Thailand	-	8	0 1 0		↑	CN AT JP US UA MX DE FR SG CZ HK HU NL GB TW CH MY SE KR CA IN
Netherlands	-	1	0 1 0		↑	CN US DE JP DK GB AT FR BE IT CA CH GR HK ES PL CZ IN SI SE HU KE BH LV FI IE MT ET PT BG
Mexico	-	3	0 1 0		↑	US DE CN FR SE GB SV

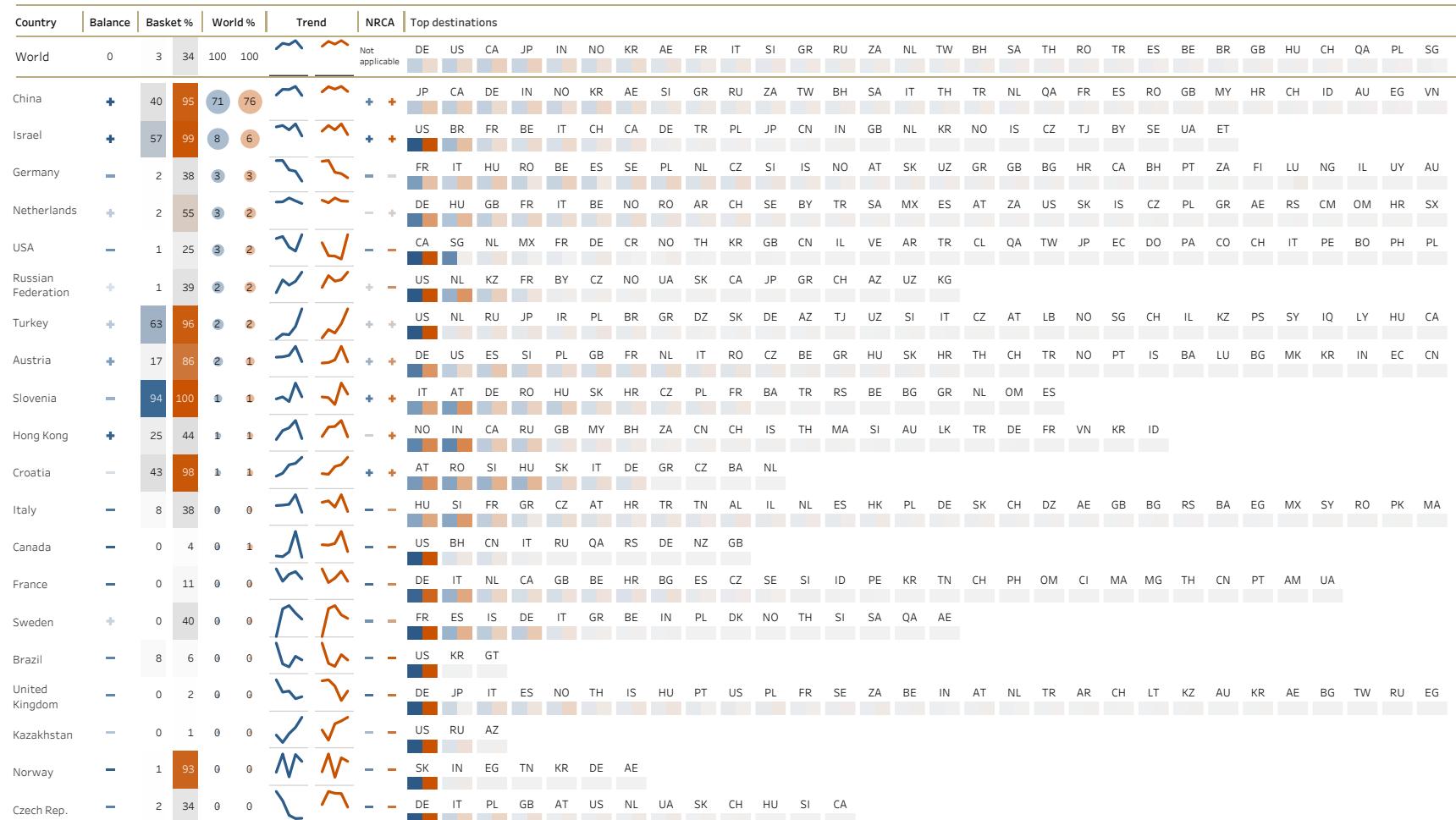
Scale of World % (5 years): 1% Value = 18.6 M\$ 1% Quantity = 78.5 T

HS 8104.11 Medium relevance associated with trade of

## Magnesium, high purity

### Export

Years 2016–2020 BACI records: 2,435



Scale of World % (5 years): 1% Value = 32.1 M\$ 1% Quantity = 12,203.9 T

Figure 18: HS 8104.11 associated with Magnesium, high purity

HS 8104.11 Medium relevance associated with trade of

## Magnesium, high purity

### Import

Years 2016-2020 BACI records: 2,435

Country	Balance	Basket %	World %	Trend	NRCA	Top origins	
World	0	3	34	100	100	Not applicable	
Germany	-	5	62	9	6	+ ↗	CN NL AT FR GB SI CZ IL CH US SE HR BE PL TR IT IS RO BA SK LU HU HK IN JP PT SG ES NO
USA	-	2	35	9	7	- ↗	IL TR RU CA BR KZ AT CN NL SK JP GB AU RS SG CZ KR HU MX TW IT PL IN DE BE CH
Canada	-	7	41	9	9	+ ↗	CN US IL HK SG FR DE RU SK NL TR KR MX PL GB TH AT CZ
Japan	-	10	73	8	9	- ↗	CN TR IL GB RU DE US KR
India	-	7	66	6	7	+ ↗	CN HK IL VG KR AU BH TW NO SG GB AE NL BO SE JP TH DE PL AT US
Norway	-	53	98	6	5	+ ↗	CN HK NL DE RU GB US CM IL LU TR AT SE MY IT DK
Rep. of Korea	-	2	61	5	5	- ↗	CN US IL FR BR GB LA AT HK NO DE AR
United Arab Emirates	-	15	94	4	4	+ ↗	CN IN NL AU IT GB BH US AT NO KR CH SE
France	-	1	11	3	2	- ↗	CN DE IL SE NL RU AT US LU IT SI BE CM ES GB RO RS PL CH HK PT TR
Italy	-	16	75	3	3	+ ↗	CN IL SI DE NL CH AT FR HR GB SK HU SE CZ CA LU TR US ES TN
Slovenia	-	20	98	3	3	+ ↗	CN AT HR IT DE TR PL FR HK SE CZ
Greece	-	67	99	2	2	+ ↗	CN DE IT AT TR NL SE RU HR SI CH PL GB ES
Russian Federation	+	2	19	2	2	+ ↗	CN HK TR KZ BY CA BE PL GB AT DE
South Africa	-	12	91	2	2	+ ↗	CN NL HK DE GB US IN TW
Netherlands	+	3	39	2	2	- ↗	CN RU DE US AT TR FR IT IL LU IR GB VG BE KR CZ SI ES CH QA PL IN GR HU DK LT PT IE FI CY
Taiwan, China	-	4	56	2	2	- ↗	CN LA JP US VN TH GB KR PH MY IN DE
Bahrain	-	93	100	2	2	+ ↗	CN CA HK DE AU NL AE TR GB IN
Saudi Arabia	-	36	93	2	2	+ ↗	CN NL TW IT ZA BH IN SE DK
Thailand	-	22	34	1	2	+ ↗	CN DK JP US GB SG TW HK AT LA IN KR FR TR SE ID
Romania	-	19	81	1	1	+ ↗	CN DE HR SI NL AT HU PL IT CH ES BG BE

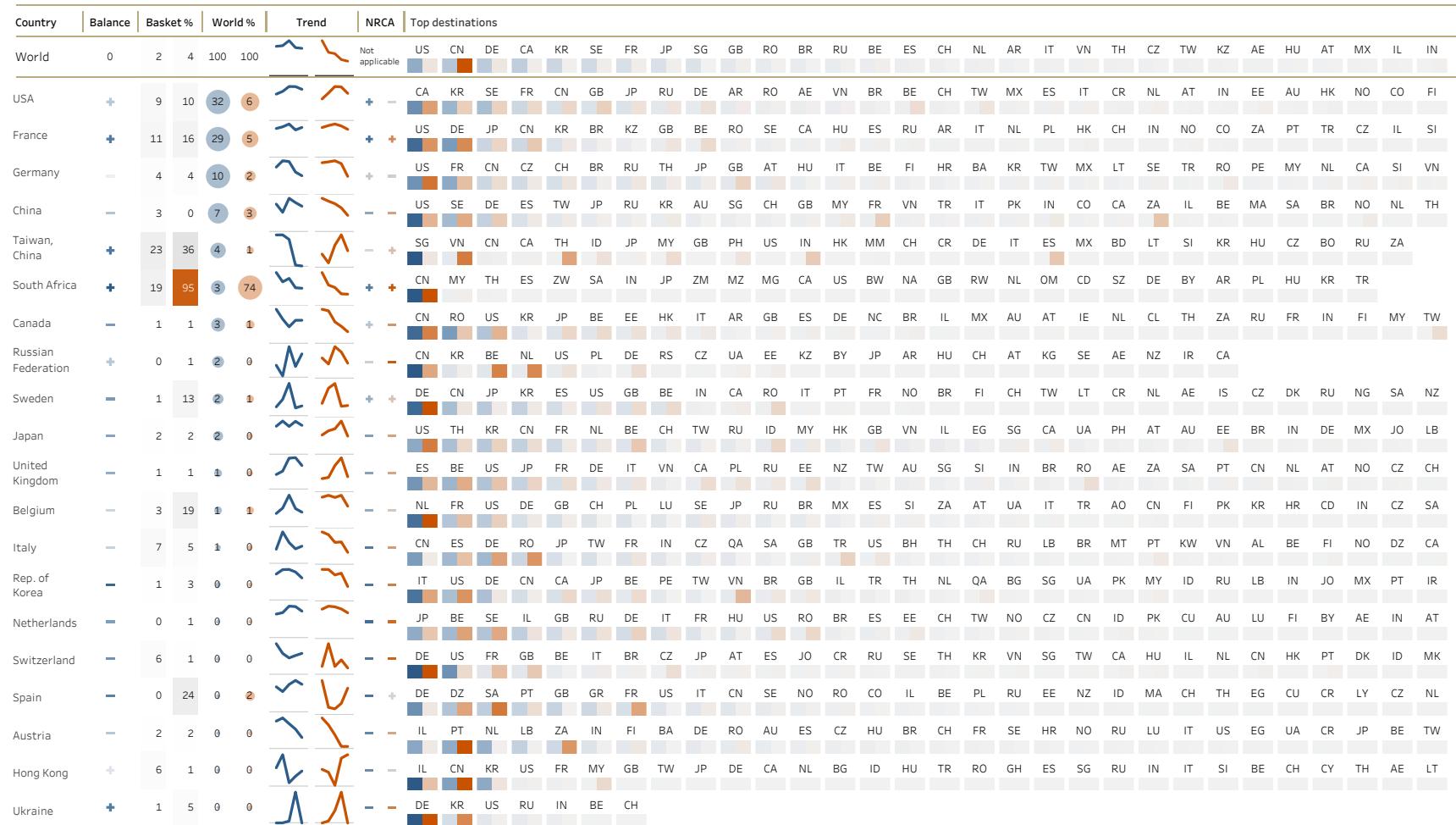
Scale of World % (5 years): 1% Value = 32.1 M\$ 1% Quantity = 12,203.9 T

HS 8109.20, 8109.30, 8109.90 Medium relevance associated with trade of

## Zirconium

### Export

Years 2016–2020 BACI records: 5,761



Scale of World % (5 years): 1% Value = 22.7 M\$ 1% Quantity = 1,437.4 T

Figure 19: HS 8109.20, 8109.30, 8109.90 associated with Zirconium

HS 8109.20, 8109.30, 8109.90 Medium relevance associated with trade of

## Zirconium

### Import

Years 2016-2020 BACI records: 5,761

Country	Balance	Basket %	World %	Trend	NRCA	Top origins
World	0	2	4	100	100	US FR DE CN TW ZA CA RU SE JP GB BE IT KR NL CH ES AT HK UA PH AU MY IN HU SI RO SG LA BH
USA	+ 3	2	20	4	↗ ↗	FR CN DE CA JP GB BE SE CH KR RU AU IN HU CZ ES NL IT UA TW SG IL BR HK VN ID AR MX HR AT
China	- 2	9	12	75	↗ ↘	ZA RU FR US CA DE SE JP IT HK TW KR EE SG ES GB SL LA BE CZ NL TH FI HU MY DK CH ID IN AT
Germany	- 4	3	10	3	↗ ↗	FR SE US CN CH PH UA AU IT ES KR BE GB IN NL CA RU JP AT CM CZ HU LT EE SG RO CY NO PL TW
Canada	- 6	1	10	2	↗ ↗	US FR CN DE TW KR SE GB JP IN AR AU EE IT CH NO HK NZ ZA PK GA ES BR MX TH RO BE AT NL RU
Rep. of Korea	- 3	1	7	1	↗ ↗	US FR JP SE CA CN RU DE HK UA AU GB MX BE SG CH IT IN NL GE FI TW MY LT PK MN AE VN ID ZA
Sweden	- 4	10	6	1	↗ ↗	US CN FR DE RO NL BE HU ES AT NO CH GB DK JP CA IT IN RU PL SI KR LB
France	+ 1	1	5	2	↗ ↘	US DE BE JP CN GB SI IT PT ES NL CH SE SG HU LU HK AT PL CA TR IN AR AU KH TH MU IL KR VN
Japan	- 4	1	5	1	↗ ↗	FR US DE SE CN CA GB NL BE IT KR TW TH RU CH SG ID ZA HK AT IE NO IN
Singapore	- 25	2	4	0	↗ ↗	TW MY CN DE JP US GB KR IN AU CH FR NO HU BR HK IT TH FI ES SI PT NL CZ ID
United Kingdom	- 2	4	2	1	↗ ↗	US FR DE CN SE BE JP CA ES NL RO MY CH KR IT TW SG TR HU AE IN ID HK AU FI MX IE AT LT ZA
Romania	- 17	4	2	1	↗ ↗	CA US FR DE IT SE GB HU AT NL CN ES LT BG TR HK AU GR PL CZ DK CH
Brazil	- 6	1	2	0	↗ ↗	FR DE US IN BE CN CA GB KR JP NL SE IT AU CH AT NO
Russian Federation	+ 1	0	1	0	↗ ↗	US DE FR CN JP BE NL GB PL IN UA IT EE KZ CA CZ ES KR AT CH LT AU HK FI AZ PT LV BY SK SE
Belgium	- 2	5	1	1	↗ ↗	FR US GB CA DE SE RU JP NL CN KR CH LU ES IT UA AU AT IN HK LB HU PL BR
Spain	- 1	3	1	1	↗ ↗	CN GB US FR SE IT DE CA BE ZA NL JP AT HU CH LT KR TW HK IN CZ PT MY PL AR NG
Switzerland	- 3	1	1	0	↗ ↗	DE US CN JP BE FR IT SE GB NL AT TW ES RU HU CA AU CZ KR PT TR HK BD MO UA TH LT DK NO MA
Netherlands	- 1	2	1	1	↗ ↗	BE US FR JP RU AT DE CN GB KR CA SI IT PL SE SA VN CZ CH HK IL ES FI DK PT HU IE ZA LT TH
Argentina	- 14	3	1	0	↗ ↗	US FR CA CN JP DE RU MX BR IN ZA ES
Italy	- 3	1	1	0	↗ ↗	KR US FR DE CN CA GB NL ES SE BE CH CZ PL AT BR AL QA TW JP HU IN SI NZ HK NO LT BA HR
Viet Nam	- 13	6	1	0	↗ ↗	US TW CN DE JP GB AU KR IT HU SG CH MY IN ID BE AT

Scale of World % (5 years): 1% Value = 22.7 M\$ 1% Quantity = 1,437.4 T

HS 8112.12, 8112.13, 8112.19 Medium relevance associated with trade of

## Beryllium

### Export

Years 2016–2020 BACI records: 1,866



Scale of World % (5 years): 1% Value = 1.9 M\$ 1% Quantity = 237.2 T

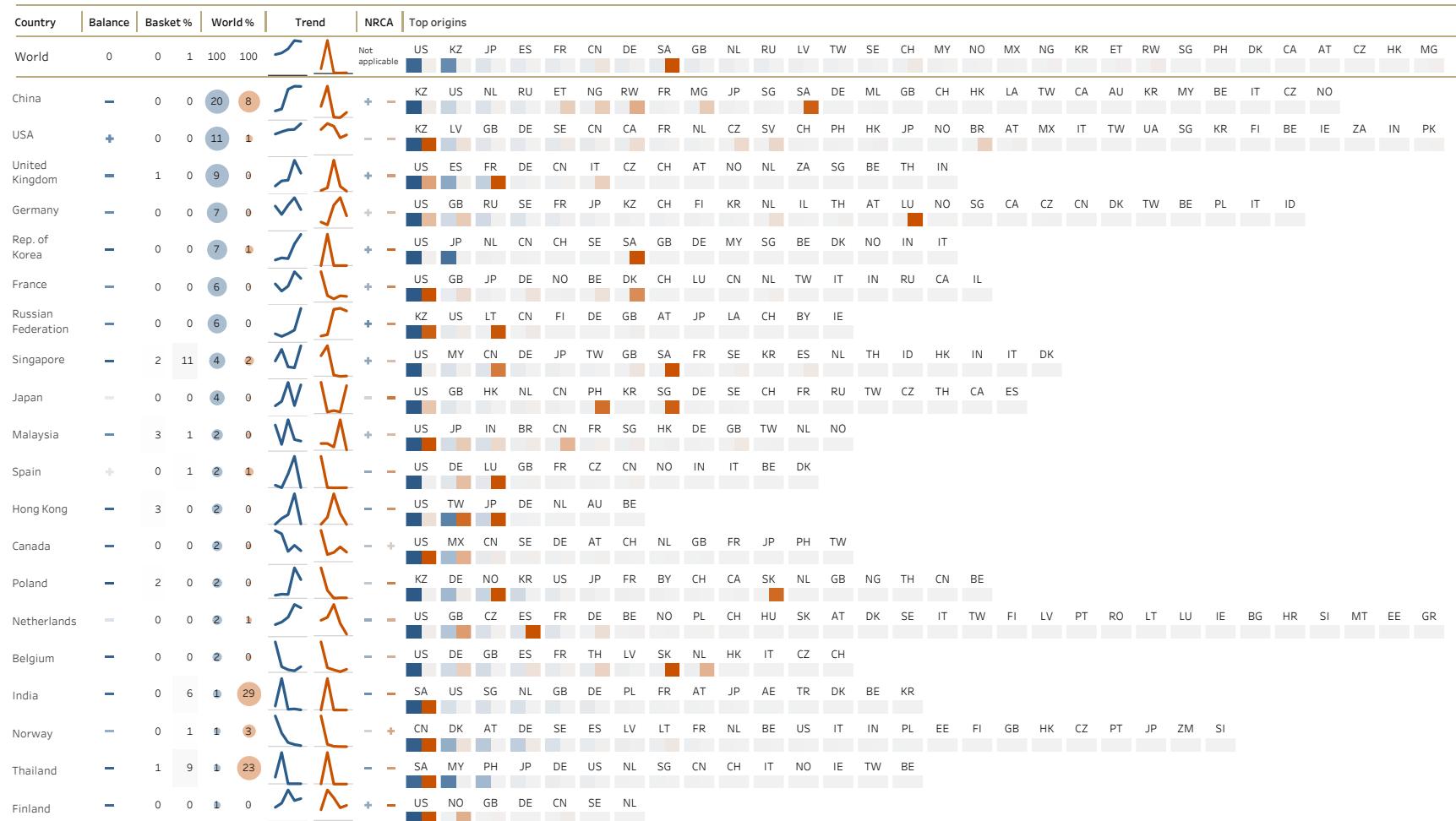
Figure 20: HS 8112.12, 8112.13, 8112.19 associated with Beryllium

HS 8112.12, 8112.13, 8112.19 Medium relevance associated with trade of

## Beryllium

### Import

Years 2016-2020 BACI records: 1,866



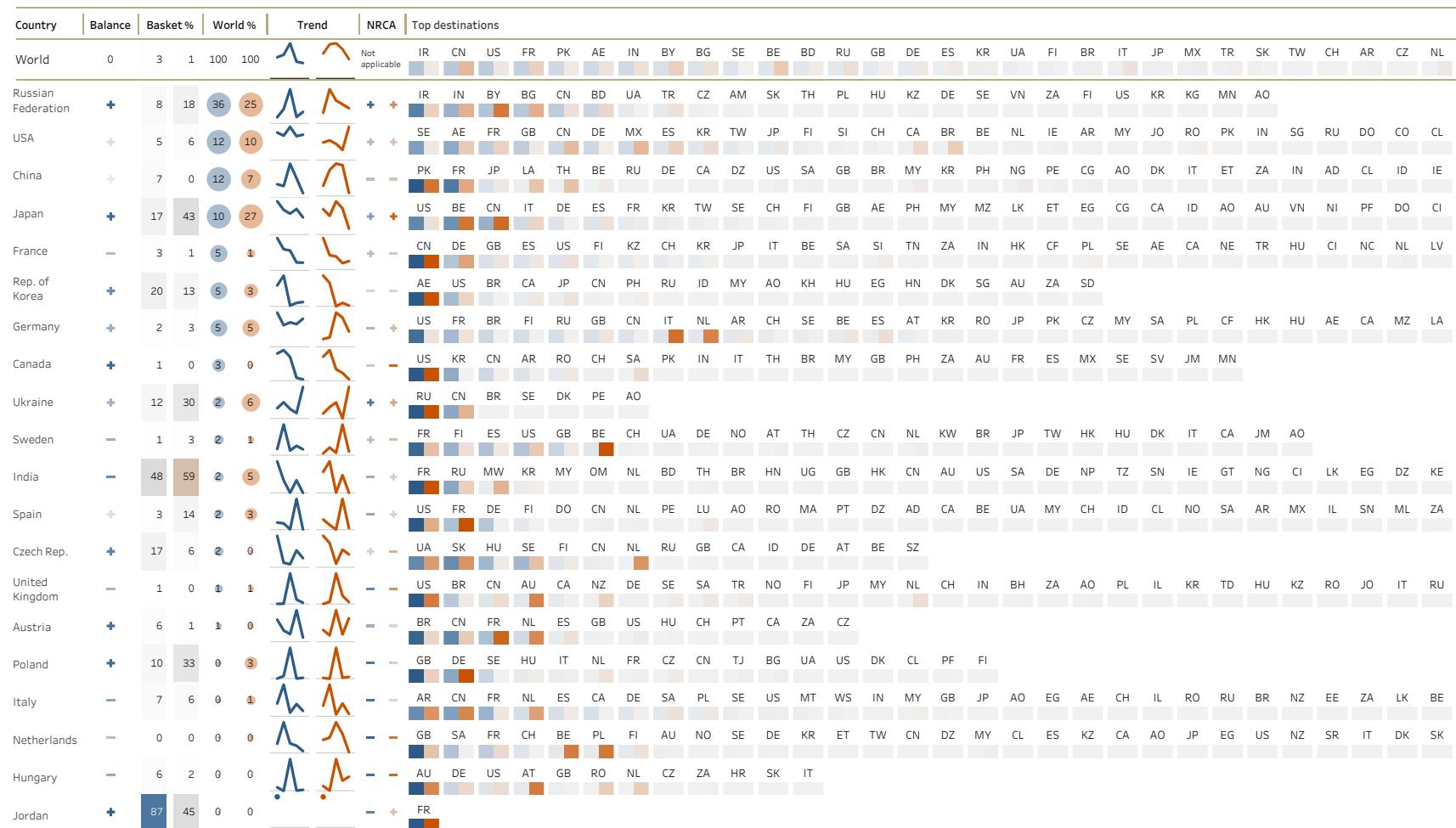
Scale of World % (5 years): 1% Value = 1.9 M\$ 1% Quantity = 237.2 T

HS 8401.10, 8401.40 Highest relevance associated with trade of

## Nuclear reactors and parts

### Export

Years 2016–2020 BACI records: 2,570



Scale of World % (5 years): 1% Value = 31.9 M\$ 1% Quantity = 488.5 T

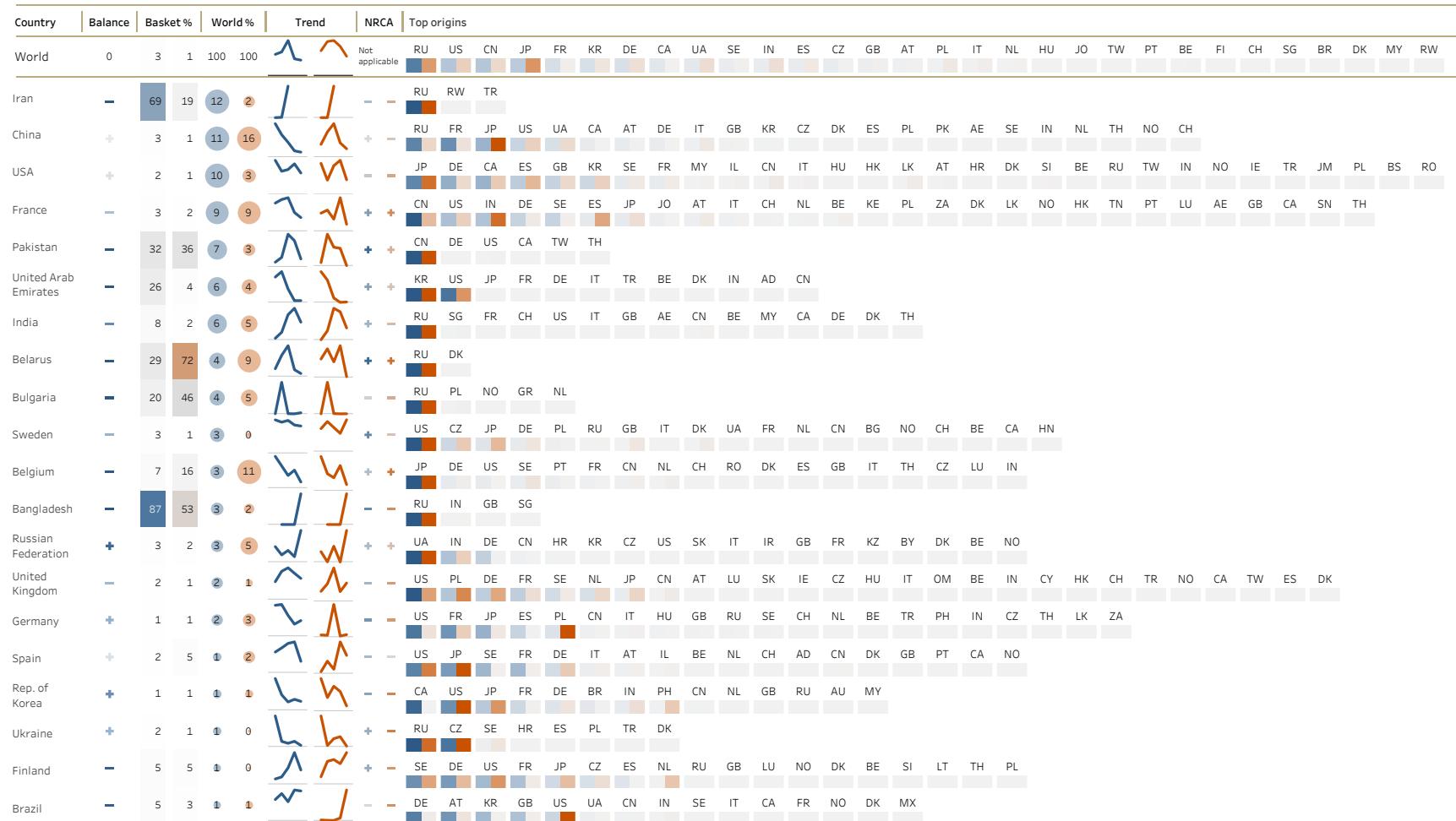
Figure 21: HS 8401.10, 8401.40 associated with Nuclear reactors and parts

HS 8401.10, 8401.40 Highest relevance associated with trade of

## Nuclear reactors and parts

### Import

Years 2016-2020 BACI records: 2,570



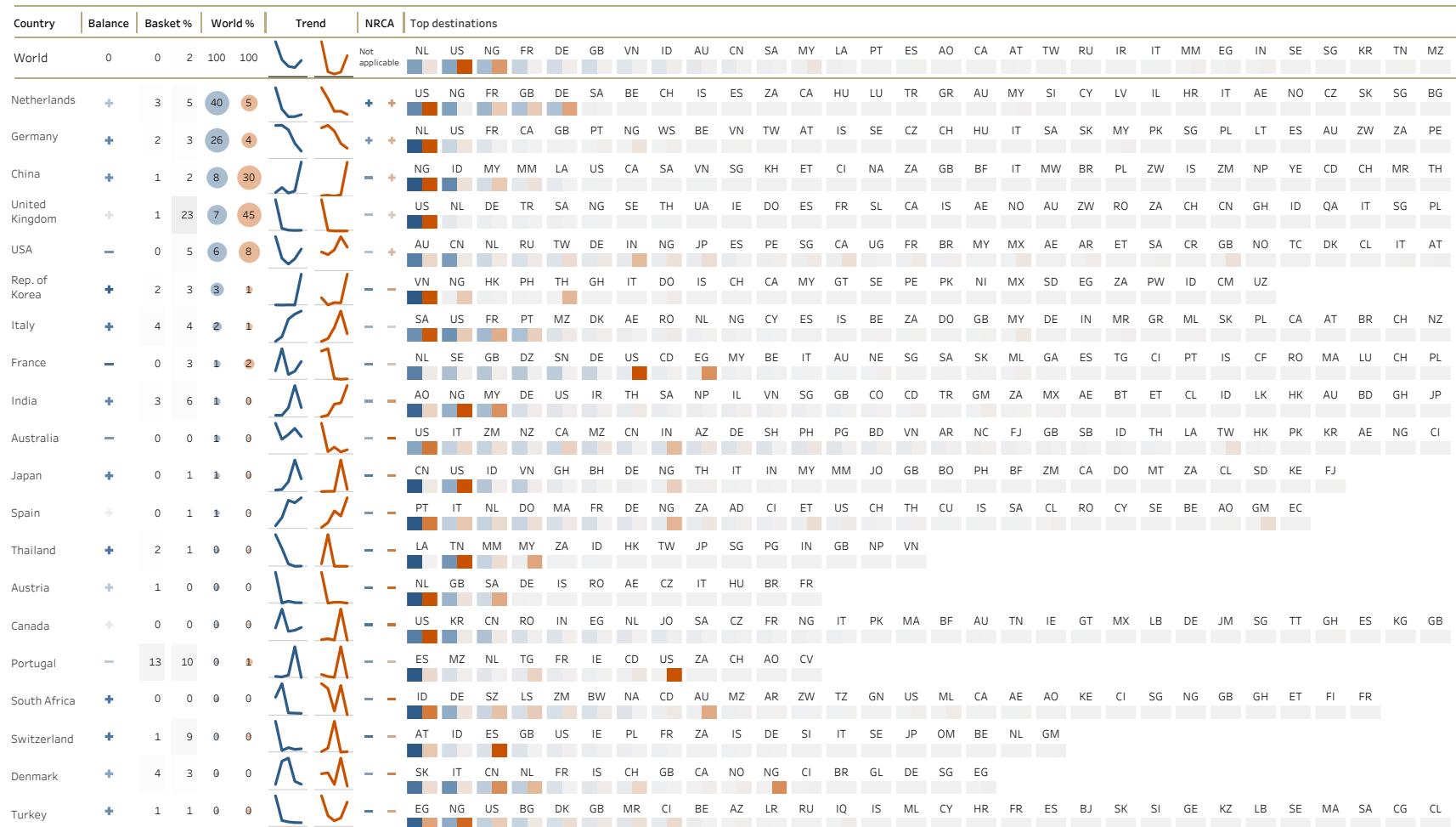
Scale of World % (5 years): 1% Value = 31.9 M\$ 1% Quantity = 488.5 T

HS 8401.20 Medium relevance associated with trade of

## Machinery and apparatus for isotopic separation

### Export

Years 2016–2020 BACI records: 2,025



Scale of World % (5 years): 1% Value = 4.2 M\$ 1% Quantity = 557.3 T

Figure 22: HS 8401.20 associated with Machinery and apparatus for isotopic separation

HS 8401.20 Medium relevance associated with trade of

## Machinery and apparatus for isotopic separation

### Import

Years 2016-2020 BACI records: 2,025

Country	Balance	Basket %	World %	Trend	NRCA	Top origins
World	0	0	2 100 100	↙ ↘	Not applicable	NL DE CN GB US KR IT FR IN AU JP ES TH AT CA PT ZA CH DK TR IE CZ VN AE OM EG FI HU RU BE
Netherlands	+ 5	3 24 4	↙ ↗	+ ↗	DE US AT FR GB FI ES IE DK HU RO CZ IT CA PL PT HR SI SK BE SE LV LU BG LT IS NO GR CN EE	
USA	- 1	12 22 50	↙ ↗	- +	NL GB DE IT AU CA JP CN IN TR SI FR SE MY CH ES SG TW GE MX JM BE IE FI ZA AE PT IS BO GY	
Nigeria	- 84	88 15 25	↙ ↗	+ +	NL CN IE IN US DE TR KR GB EG ES MY IT KW JP BG CA AE TW HK DK BE CY AU NO ZA SG	
France	- 0	0 8 1	↙ ↗	+ -	NL DE IT US ES LU BE DK GB RO PT CA CH NO MY TR MX SI SE CZ AT CN ZA	
Germany	+ 0	1 6 1	↙ ↗	- -	NL US GB FR ZA IN AU EG ES JP HU AT RW TW IT CN CH CA PL HR DK CZ SE SG	
United Kingdom	+ 1	1 6 1	↙ ↗	- -	NL FR DE AT US CH SG IN AU TR CN SI IT BE TW DK SE IE JP MY PK NO ID ZA CZ CA TH	
Viet Nam	- 11	3 3 1	↙ ↗	- -	KR JP DE CN US AU IN MX IT TH	
Indonesia	- 9	6 3 2	↙ ↗	- -	CN CZ ZA VN HU JP TW CH US AU MY SG IE NO HK TH GB IN NL PL KR	
Australia	- 4	3 2 1	↙ ↗	- -	US GB FR NL ZA CA DE IN	
China	+ 0	0 2 0	↙ ↗	- -	US JP CA AU DK RU CZ GB AE IE IS SG IN	
Saudi Arabia	- 3	1 1 1	↙ ↗	- -	IT NL GB AT CN US IN DE CA FR PK ES NO IE EG KW TR	
Malaysia	- 2	11 1 4	↙ ↗	- +	CN IN SG US FR TW HK TH BE DE NL IT PH VN JP SI KR NO	
Lao People's Dem. Rep.	- 27	10 1 0	↙ ↗	+ -	TH CN VN AU	
Portugal	- 3	3 1 0	↙ ↗	- -	ES IT DE FR SE BE EE GB	
Spain	- 0	1 0 0	↙ ↗	- -	PT US BE CH GB NL IT AO FR DE CN SE TR CA	
Angola	- 33	20 0 0	↙ ↗	- -	IN US ZA CN HK PT ES FR	
Canada	+ 0	0 0 0	↙ ↗	- -	DE US AU CN GB NL MX SE DK IS ZA KR IT FR JP TW	
Austria	+ 1	1 0 0	↙ ↗	- -	CH DE US HU CN IT BE SE TR NL	
Taiwan, China	- 0	1 0 0	↙ ↗	- -	US DE AU TH	
Russian Federation	- 0	0 0 0	↙ ↗	- -	US KG TR BY NL FR	

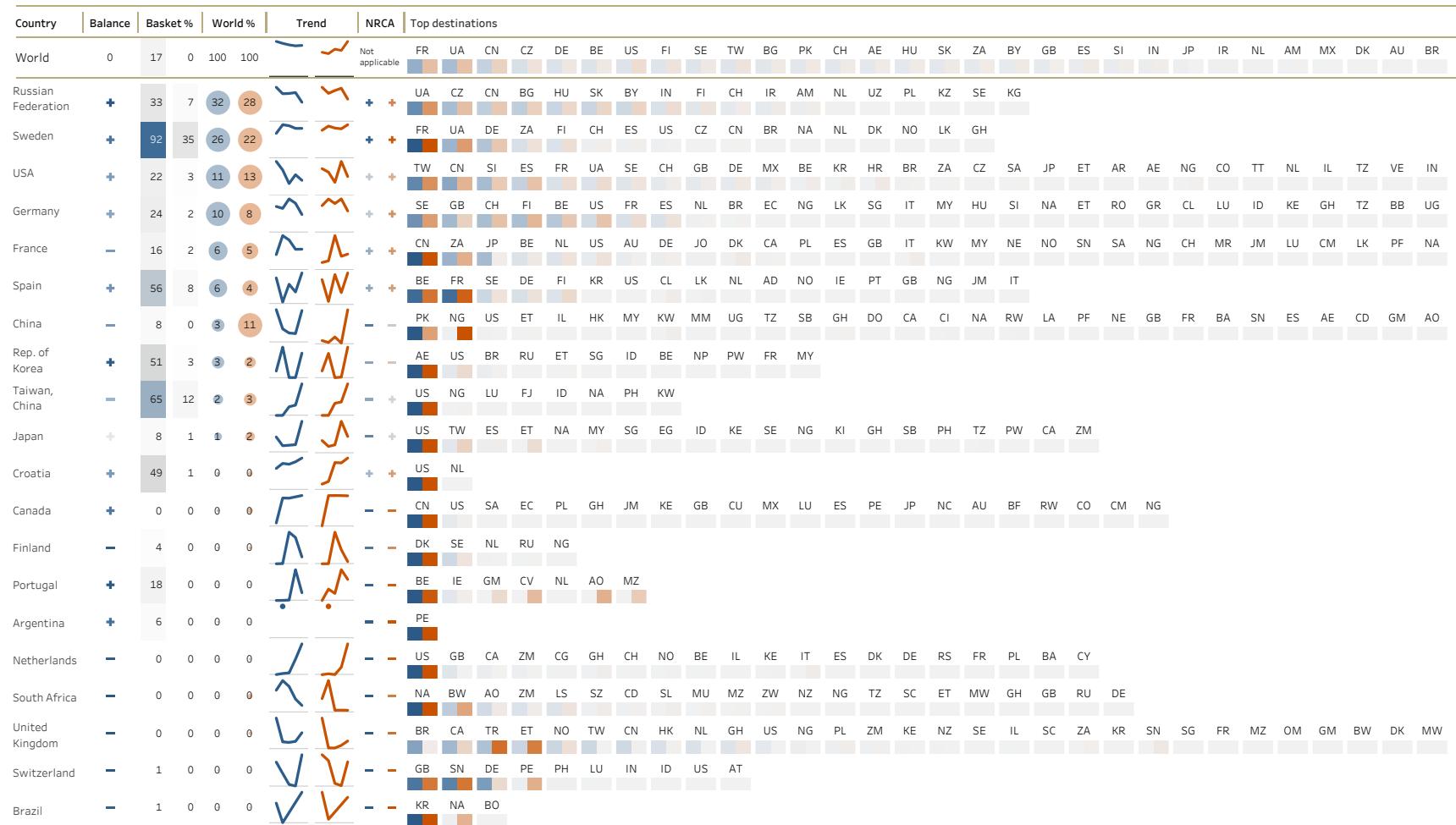
Scale of World % (5 years): 1% Value = 4.2 M\$ 1% Quantity = 557.3 T

HS 8401.30 Highest relevance associated with trade of

## Fuel elements, non-irradiated

### Export

Years 2016–2020 BACI records: 1,367



Scale of World % (5 years): 1% Value = 153.7 M\$ 1% Quantity = 171.9 T

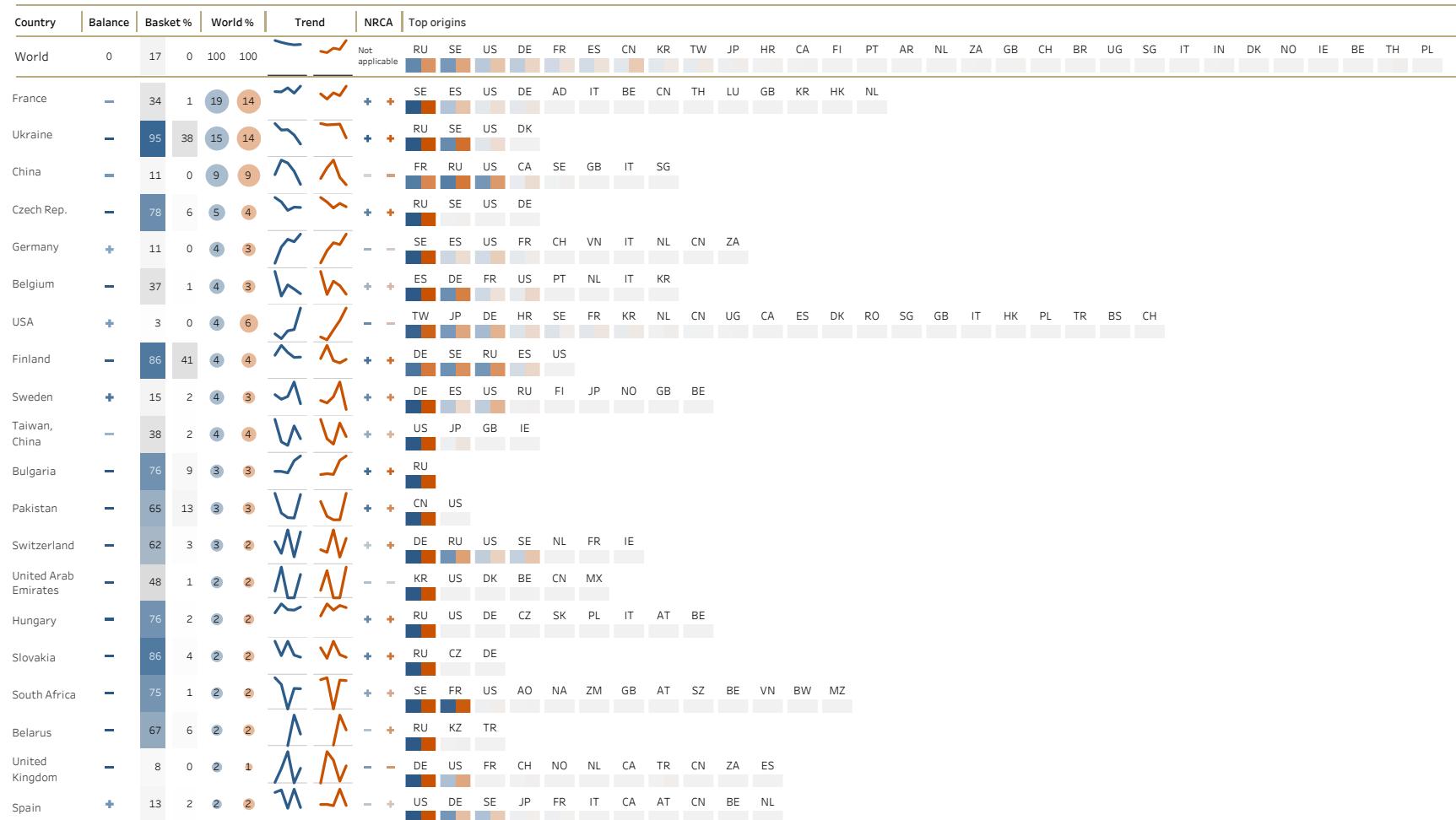
Figure 23: HS 8401.30 associated with Fuel elements, non-irradiated

HS 8401.30 Highest relevance associated with trade of

## Fuel elements, non-irradiated

### Import

Years 2016-2020 BACI records: 1,367



Scale of World % (5 years): 1% Value = 153.7 M\$ 1% Quantity = 171.9 T



## *Appendix B – Country-based views*



## Afghanistan

### Export

Years 2016-2020 BACI records: 2

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Figure 24: Afghanistan

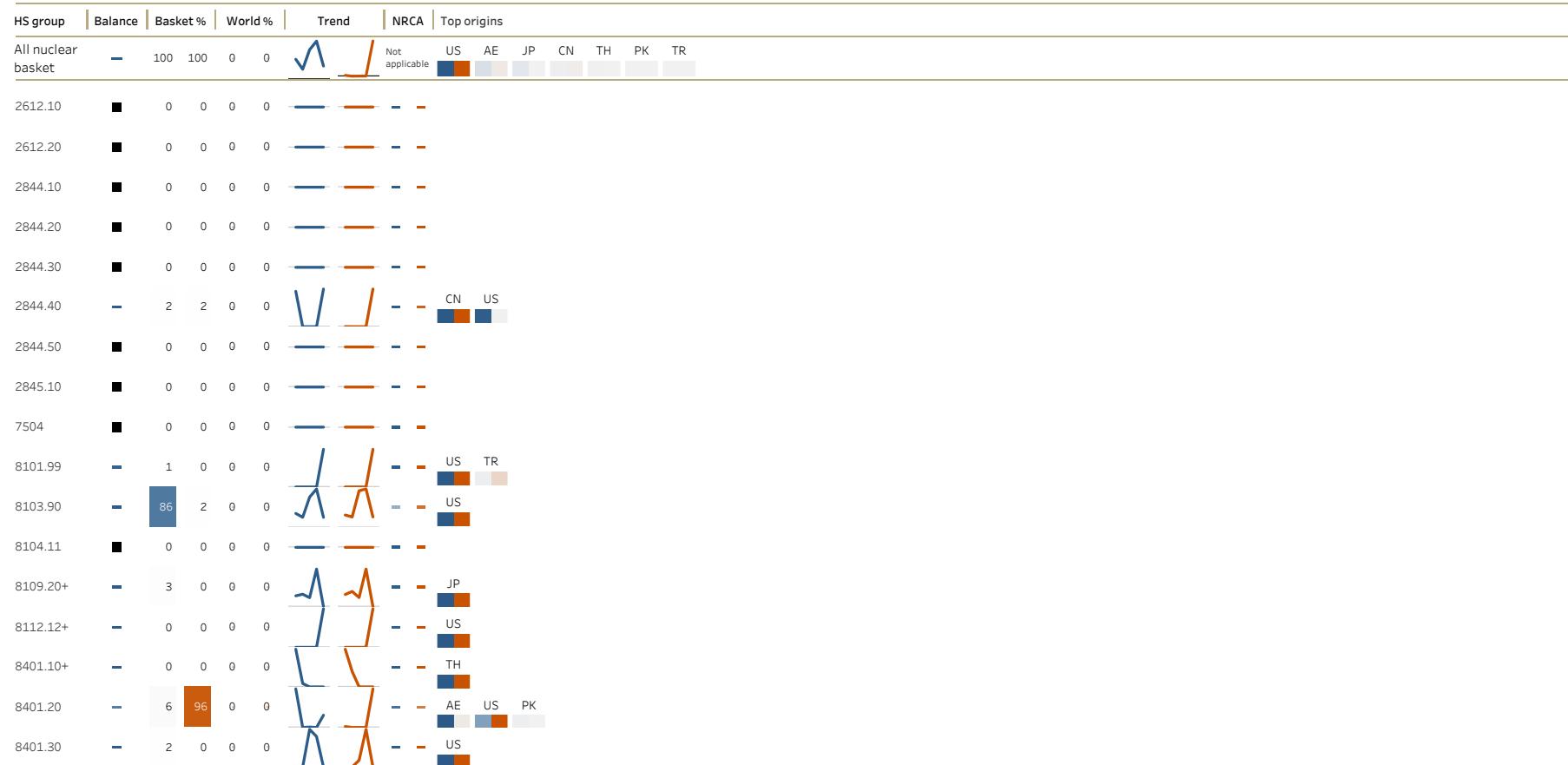


# Afghanistan

## Import

Years 2016-2020 BACI records: 21

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.7 T

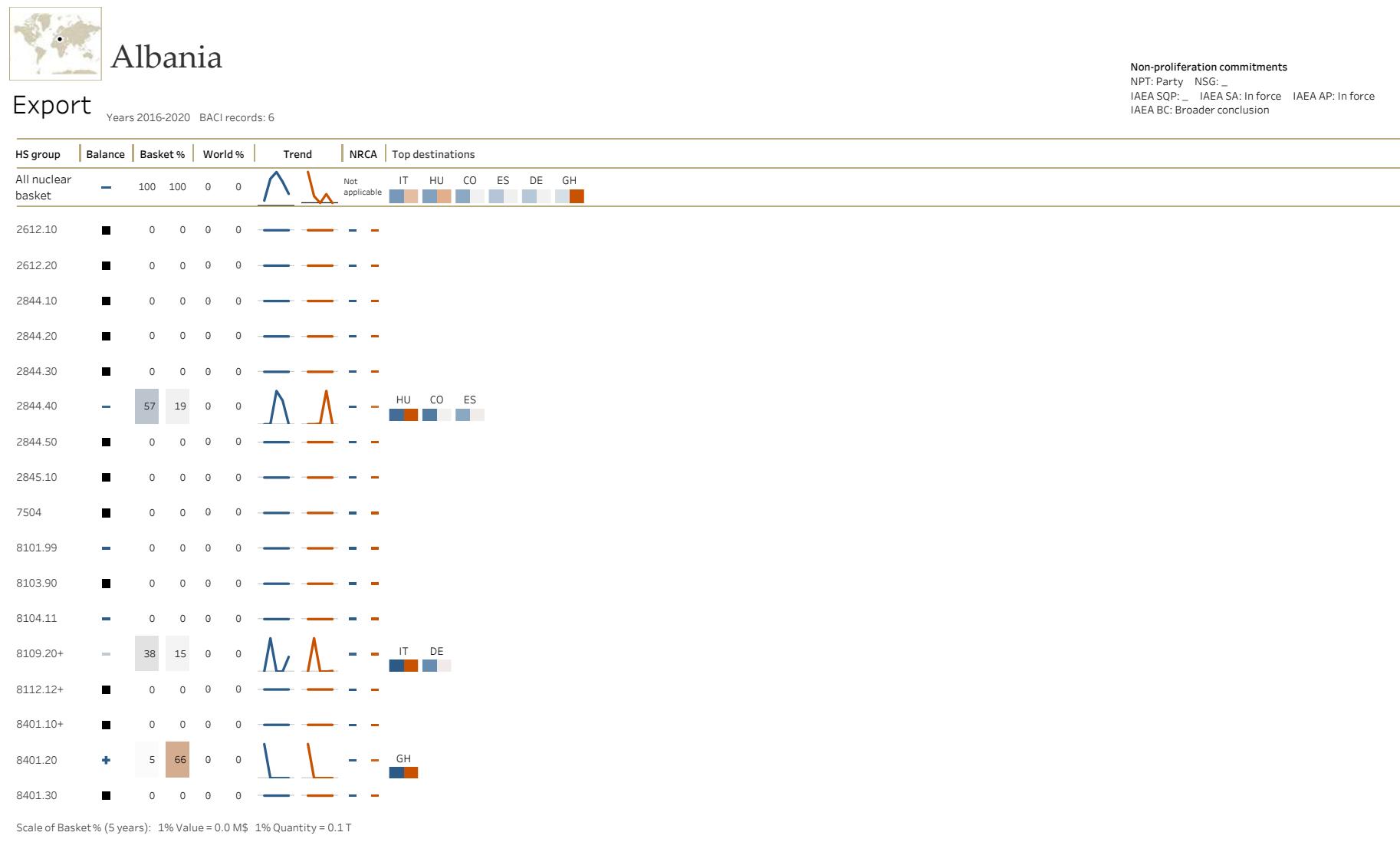


Figure 25: Albania

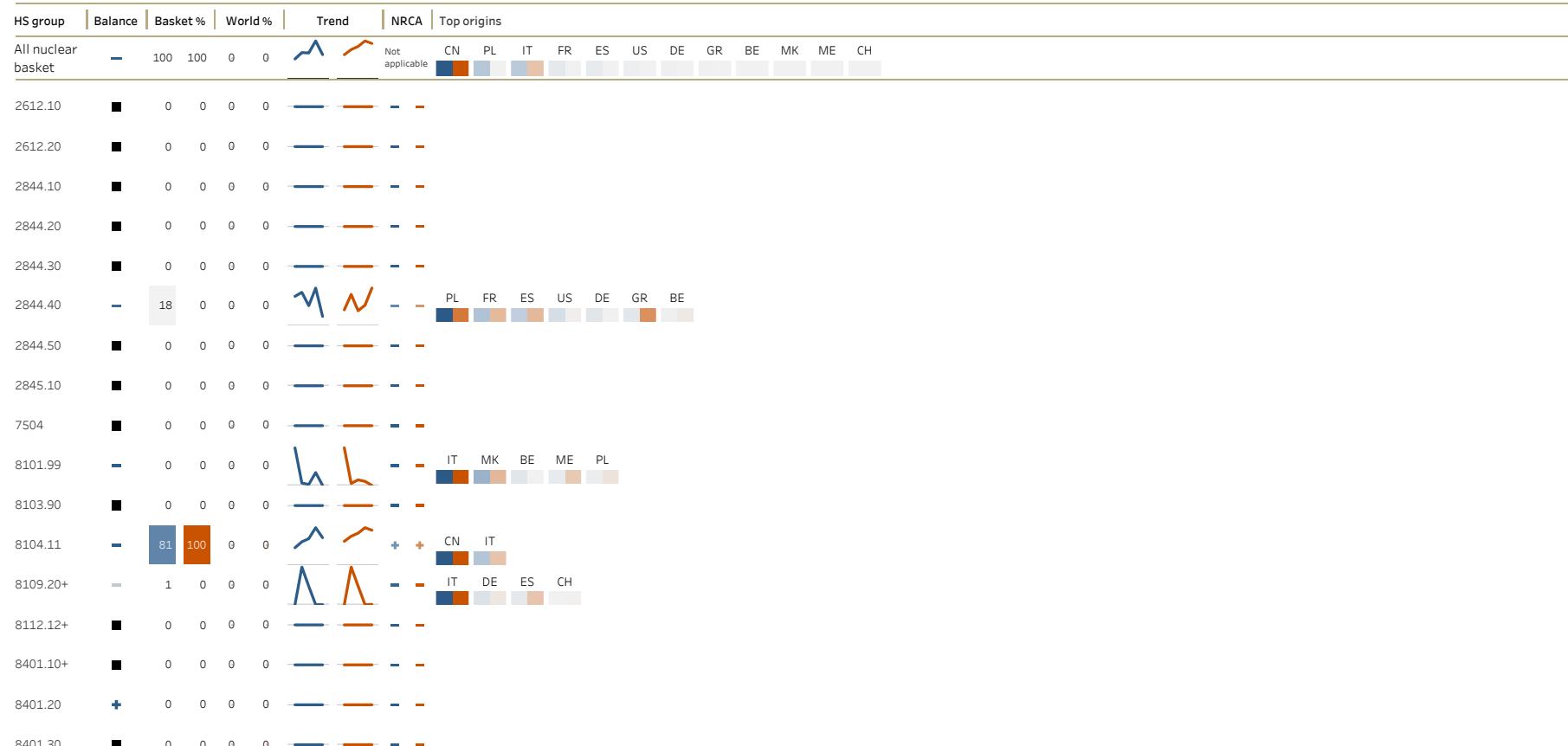


# Albania

## Import

Years 2016-2020 BACI records: 39

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 12.4 T

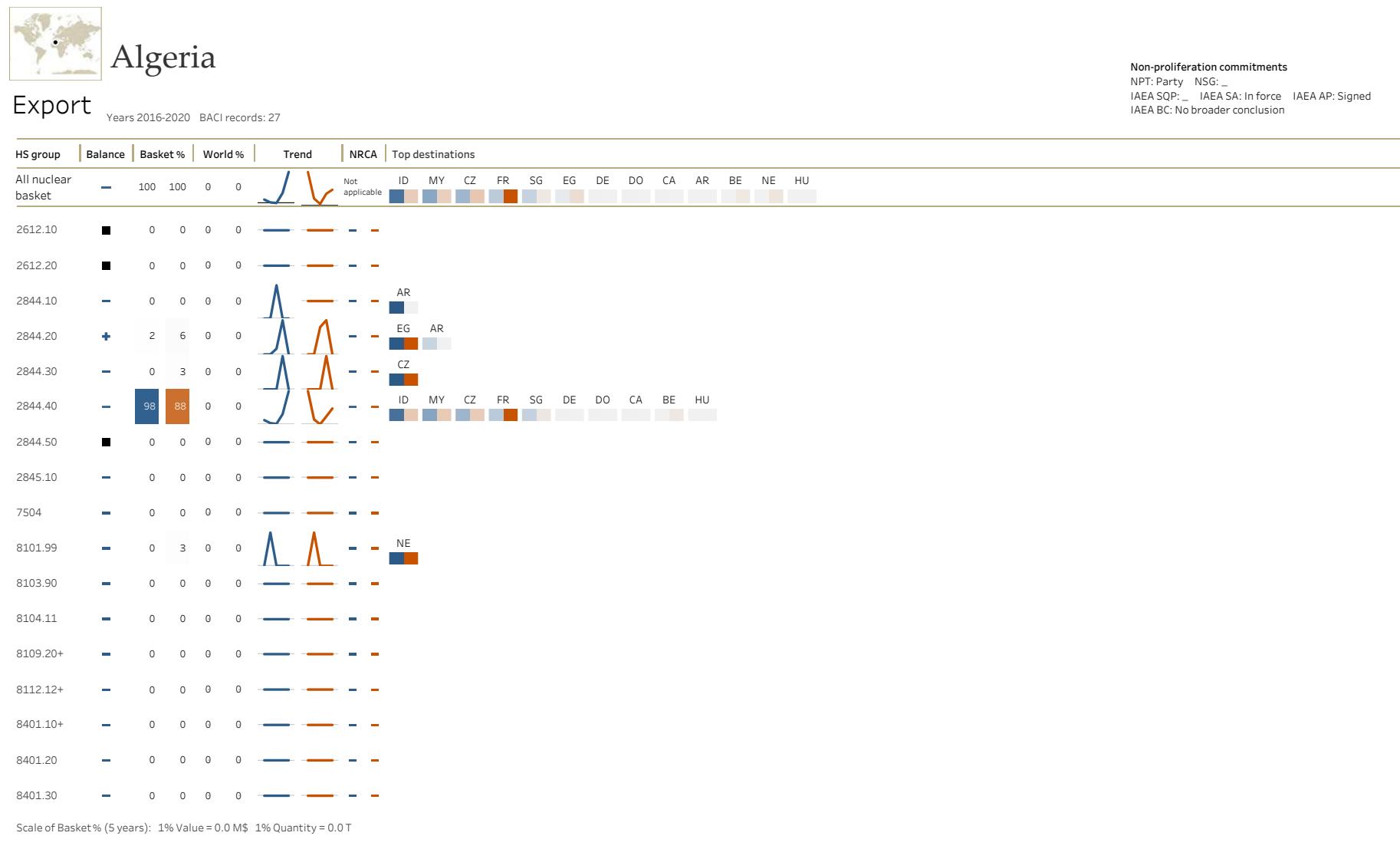


Figure 26: Algeria

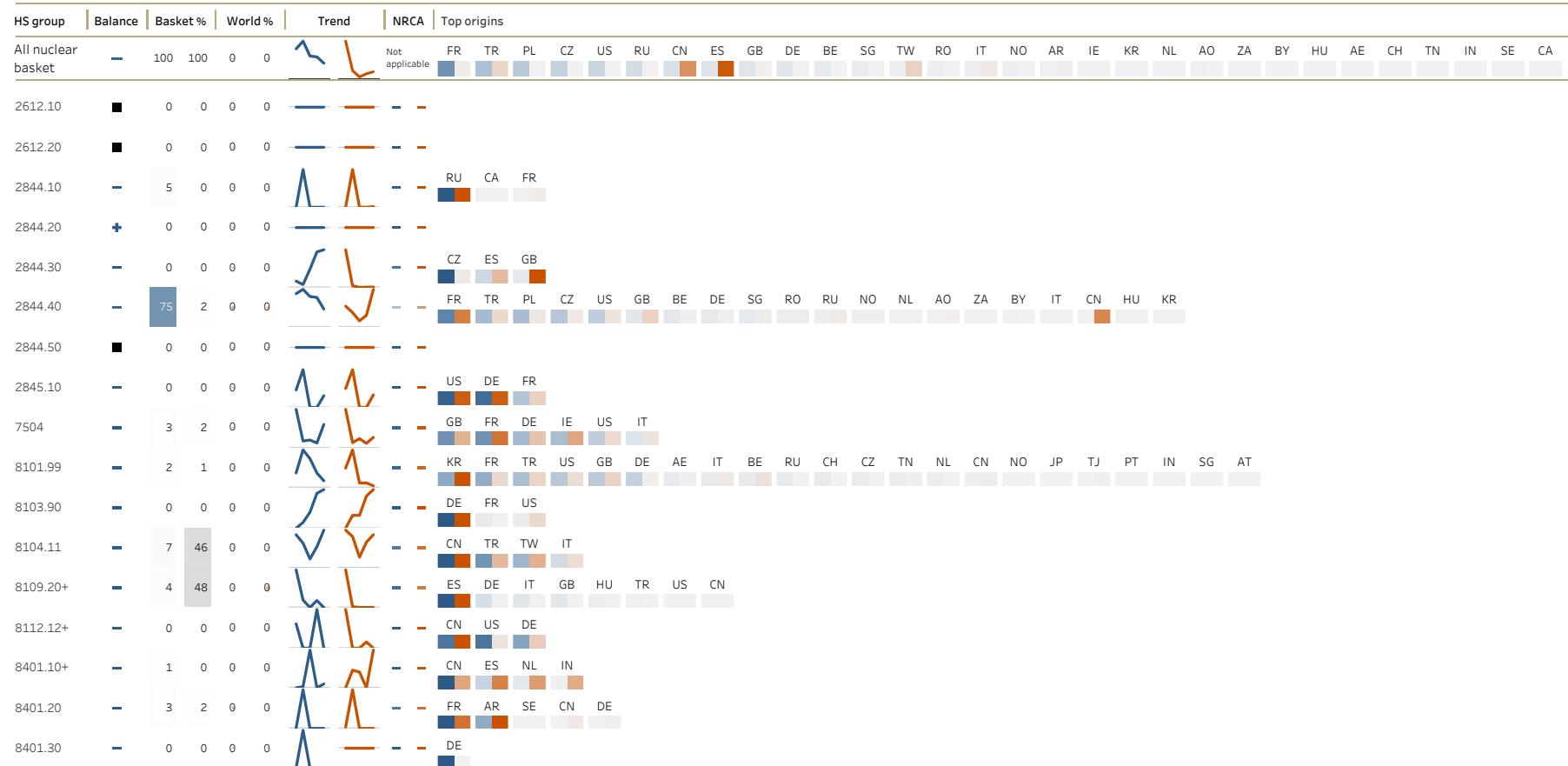


# Algeria

## Import

Years 2016-2020 BACI records: 189

**Non-proliferation commitments**  
 NPT: Party NSG:—  
 IAEA SQP:— IAEA SA: In force IAEA AP: Signed  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.2 M\$ 1% Quantity = 10.5 T

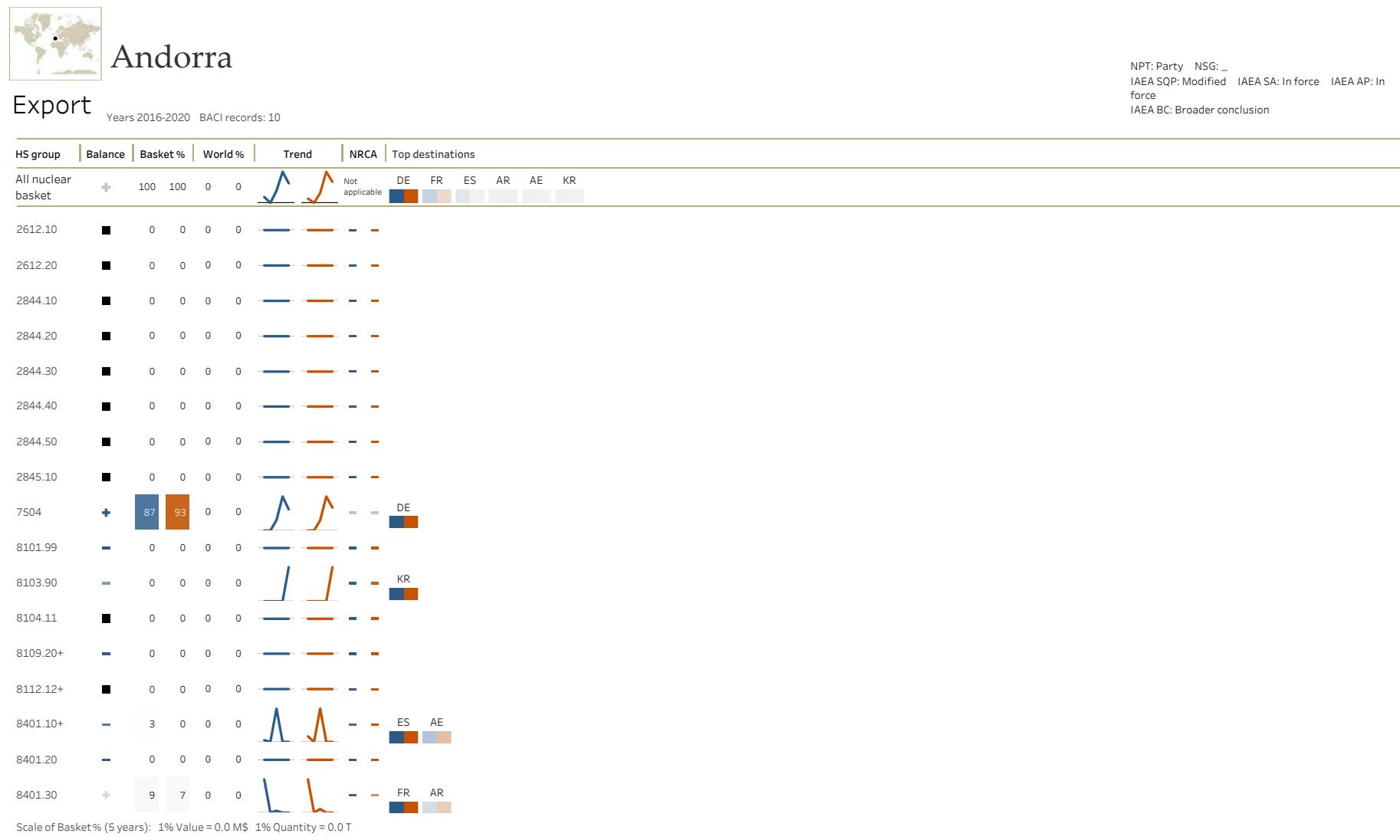


Figure 27: Andorra

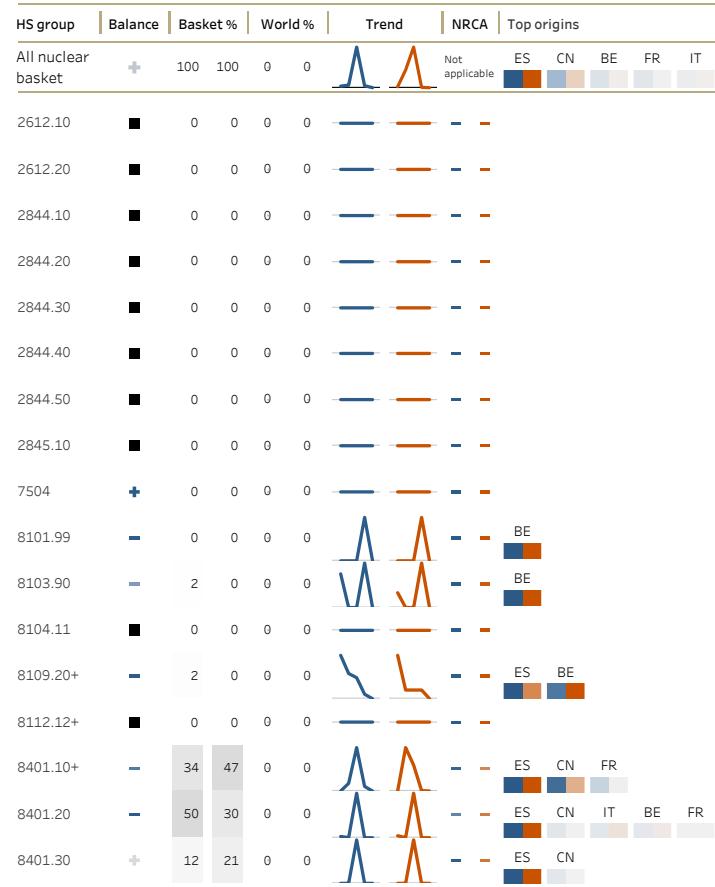


# Andorra

## Import

Years 2016-2020 BACI records: 19

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.0 T



## Angola

### Export

Years 2016-2020 BACI records: 62

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion

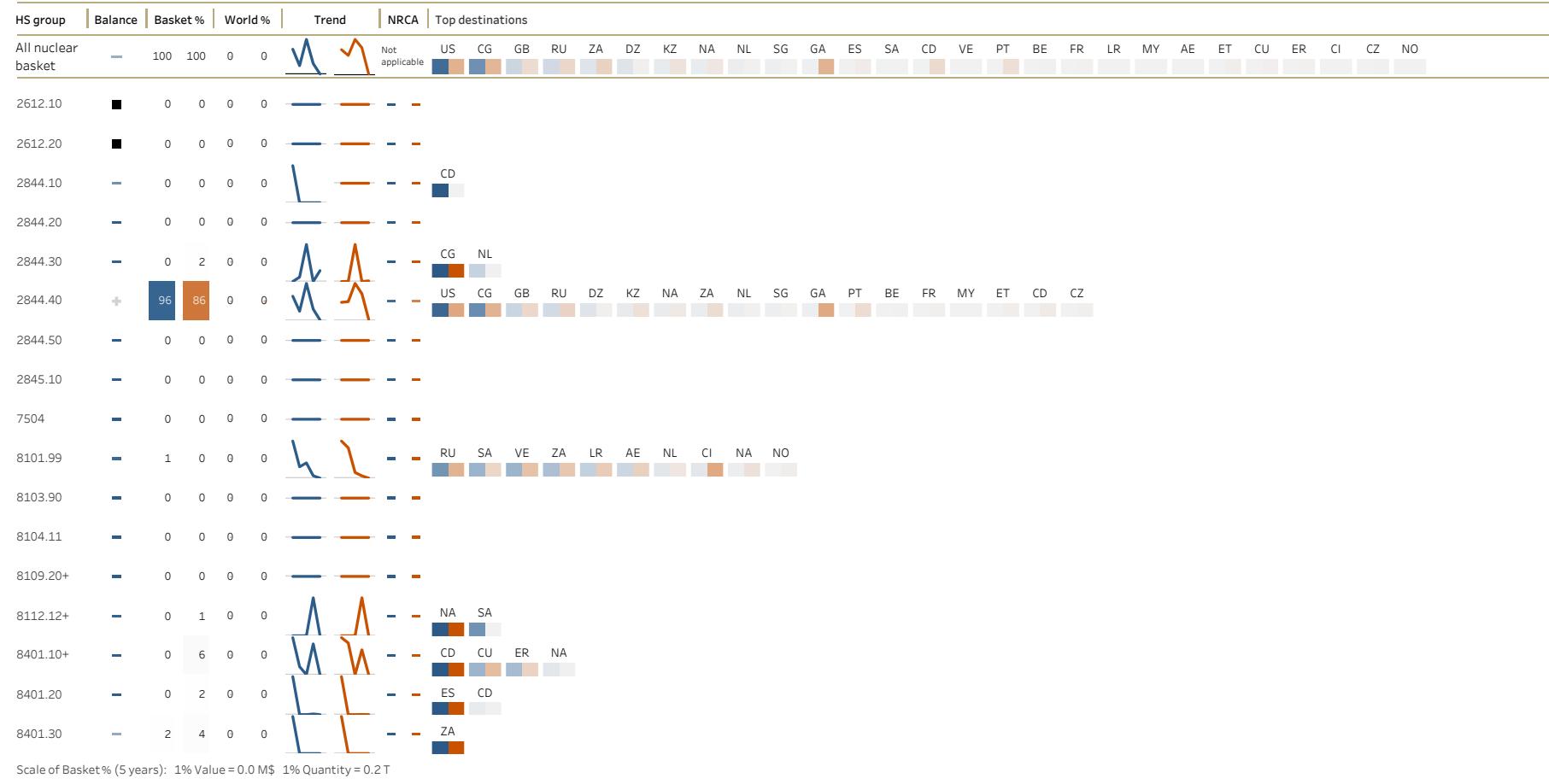


Figure 28: Angola

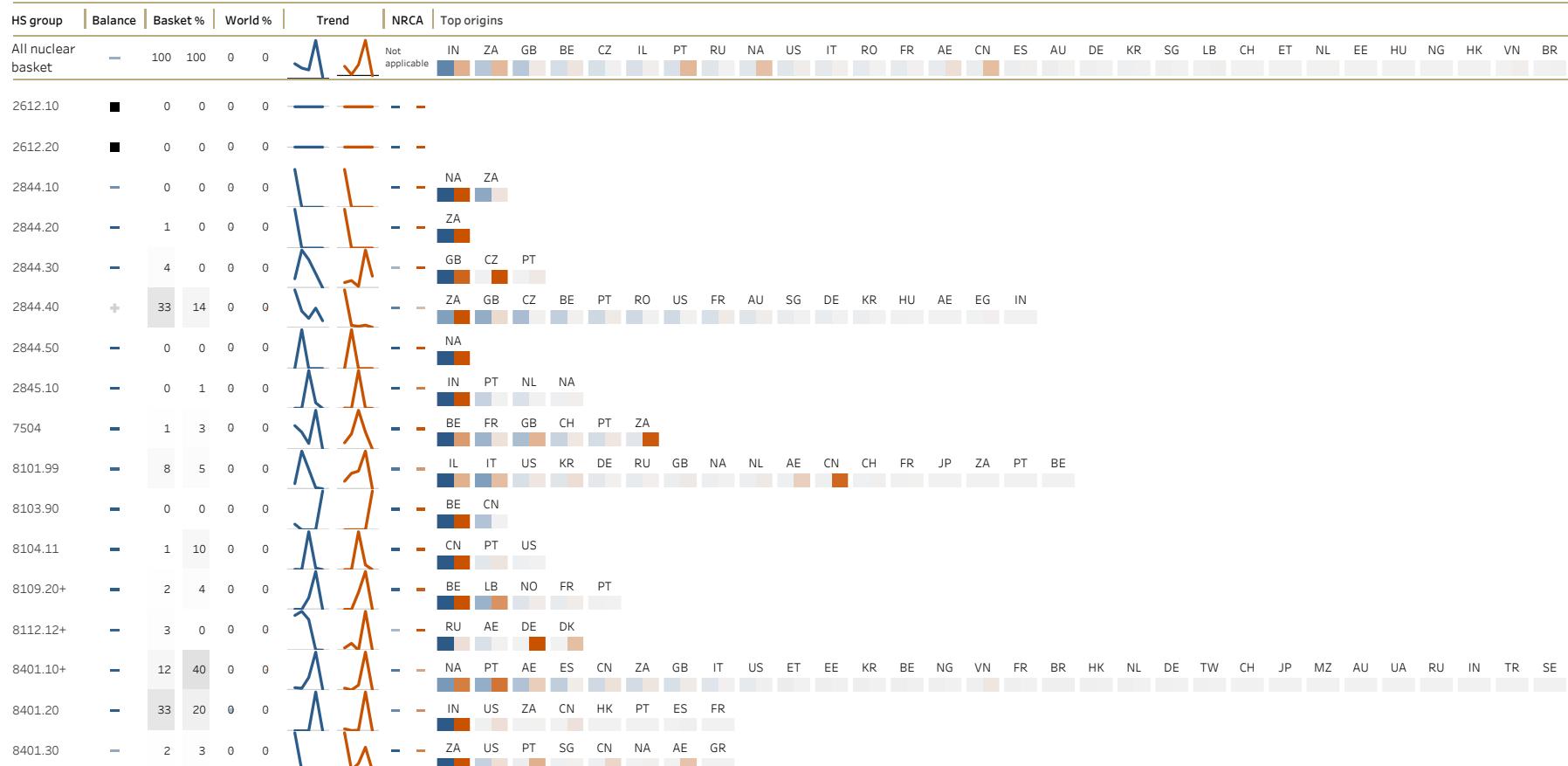


# Angola

## Import

Years 2016-2020 BACI records: 188

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 1.1 T



## Antigua and Barbuda

Export

Years 2016-2020 BACI records: 1

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion

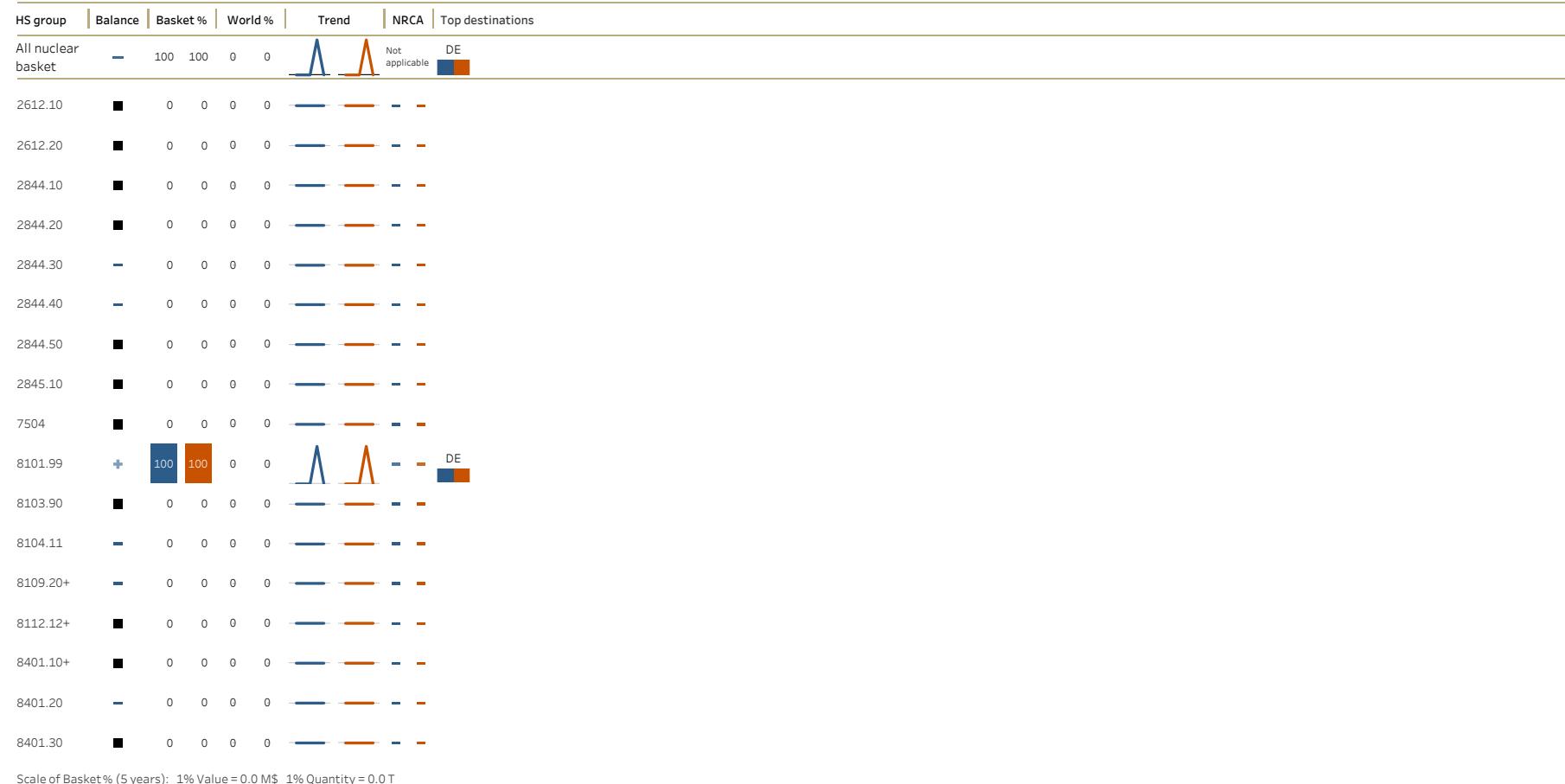


Figure 29: Antigua and Bar-  
buda

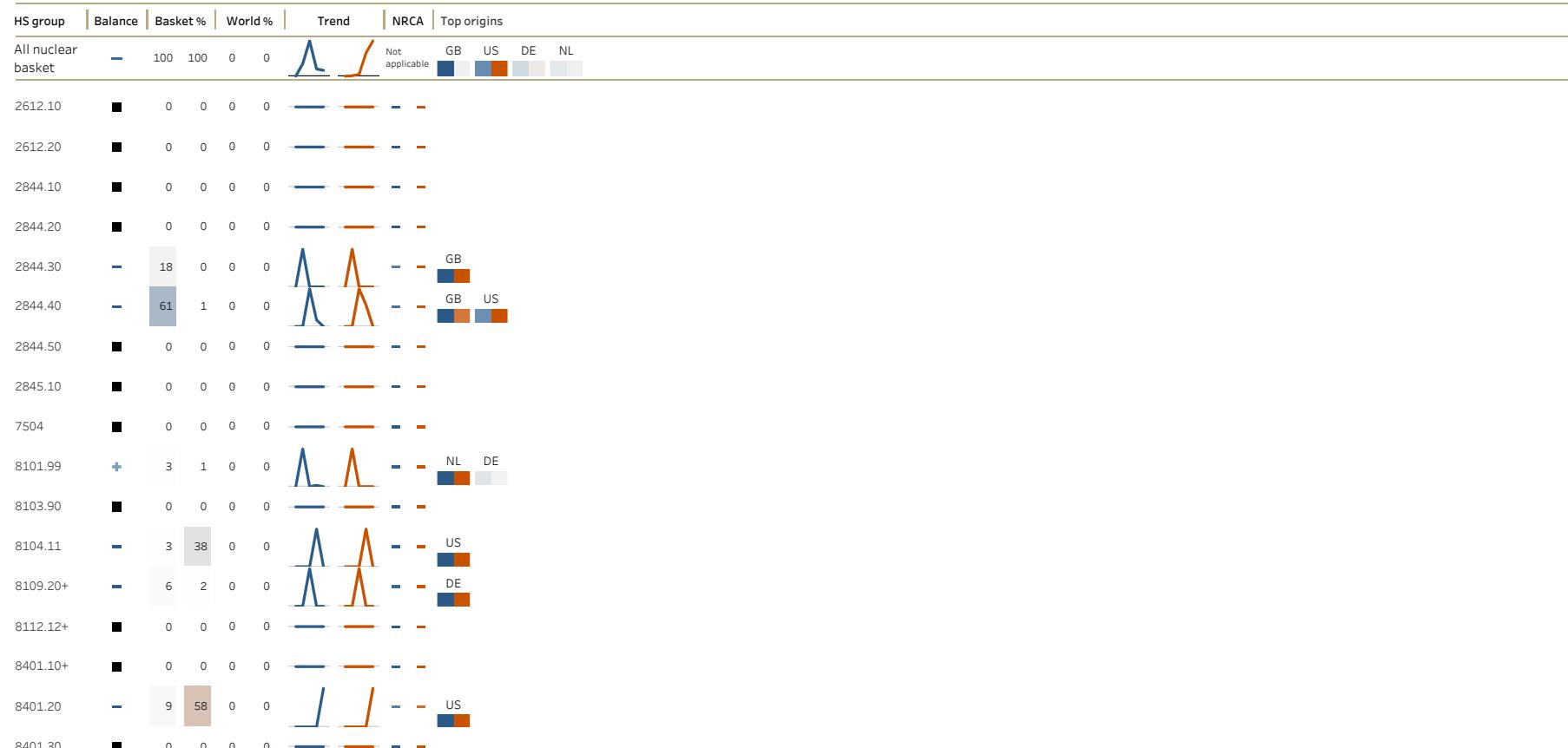


## Antigua and Barbuda

### Import

Years 2016-2020 BACI records: 9

NPT: Party NSG: –  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
force  
IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.0 T

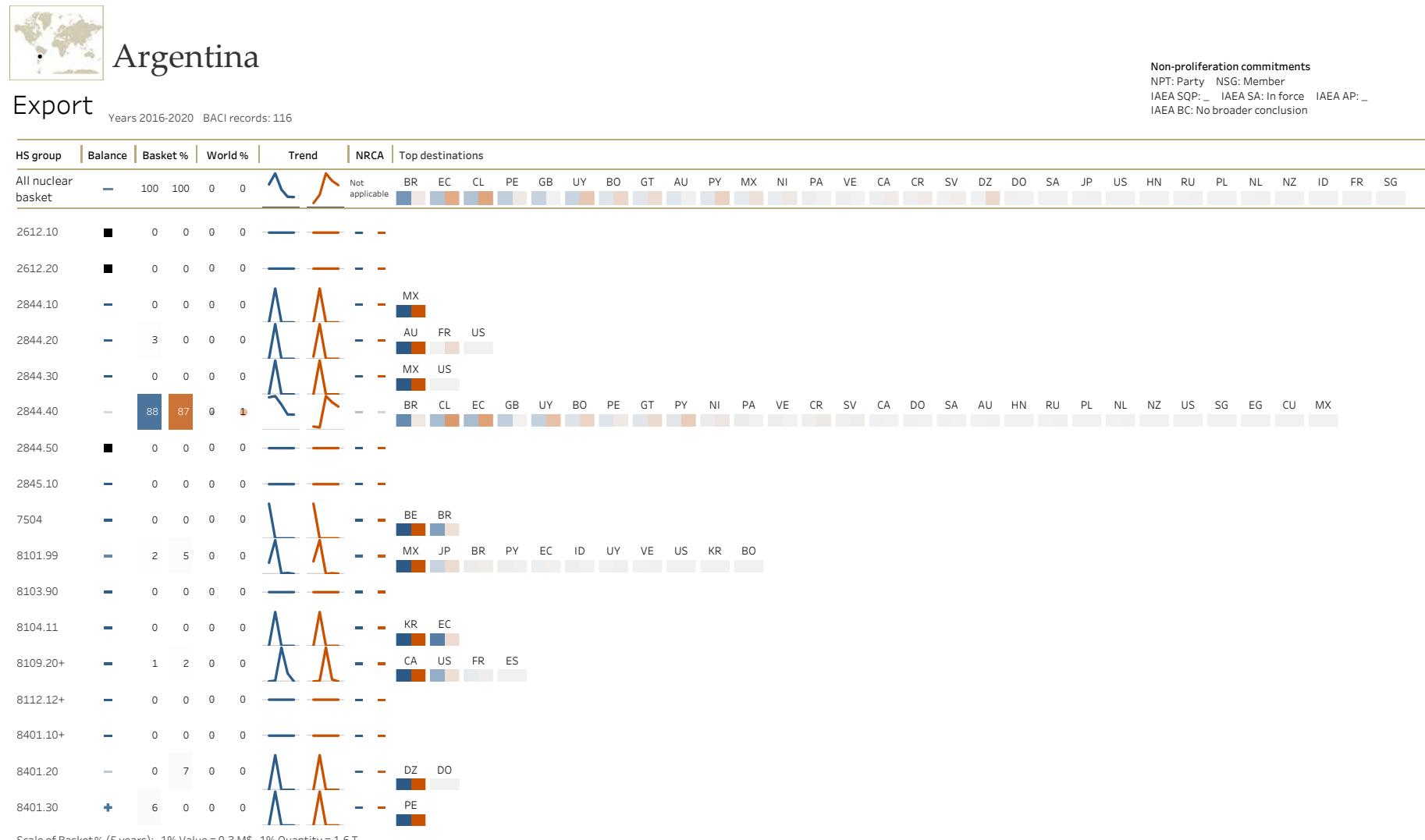


Figure 3c: Argentina

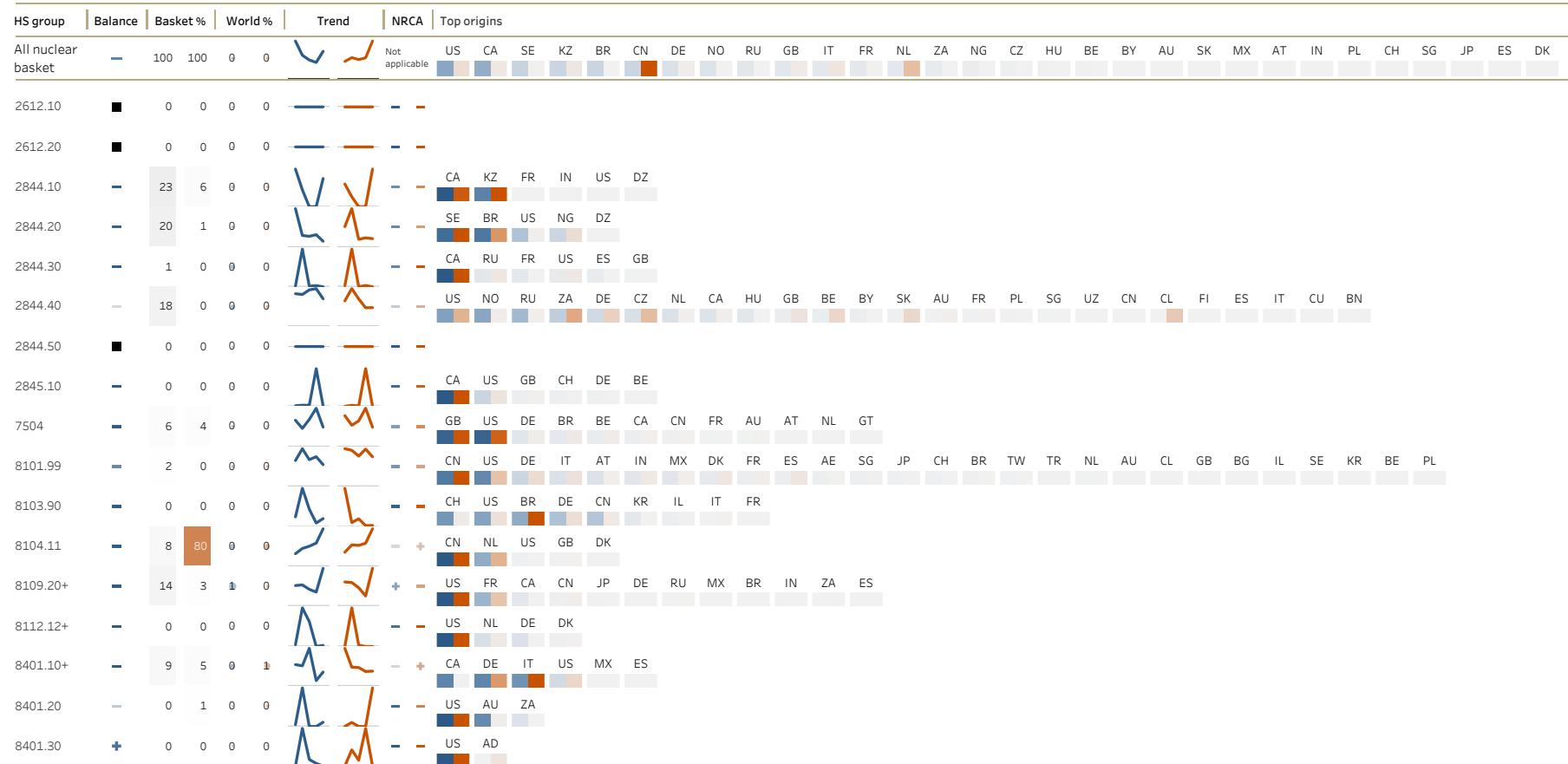


# Argentina

## Import

Years 2016-2020 BACI records: 358

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP:\_\_ IAEA SA: In force IAEA AP:\_\_  
 IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 1.3 M\$ 1% Quantity = 59.8 T

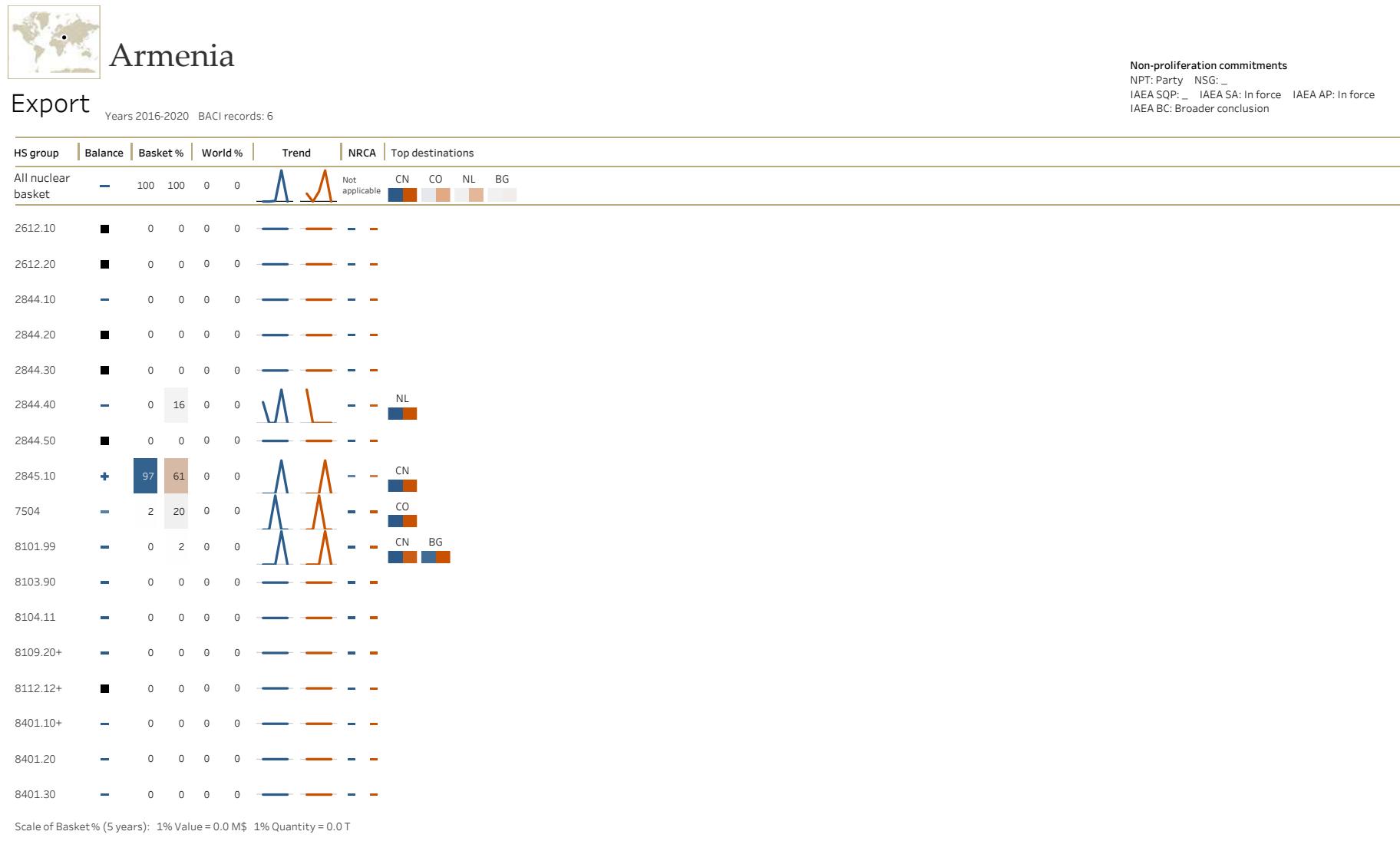


Figure 31: Armenia

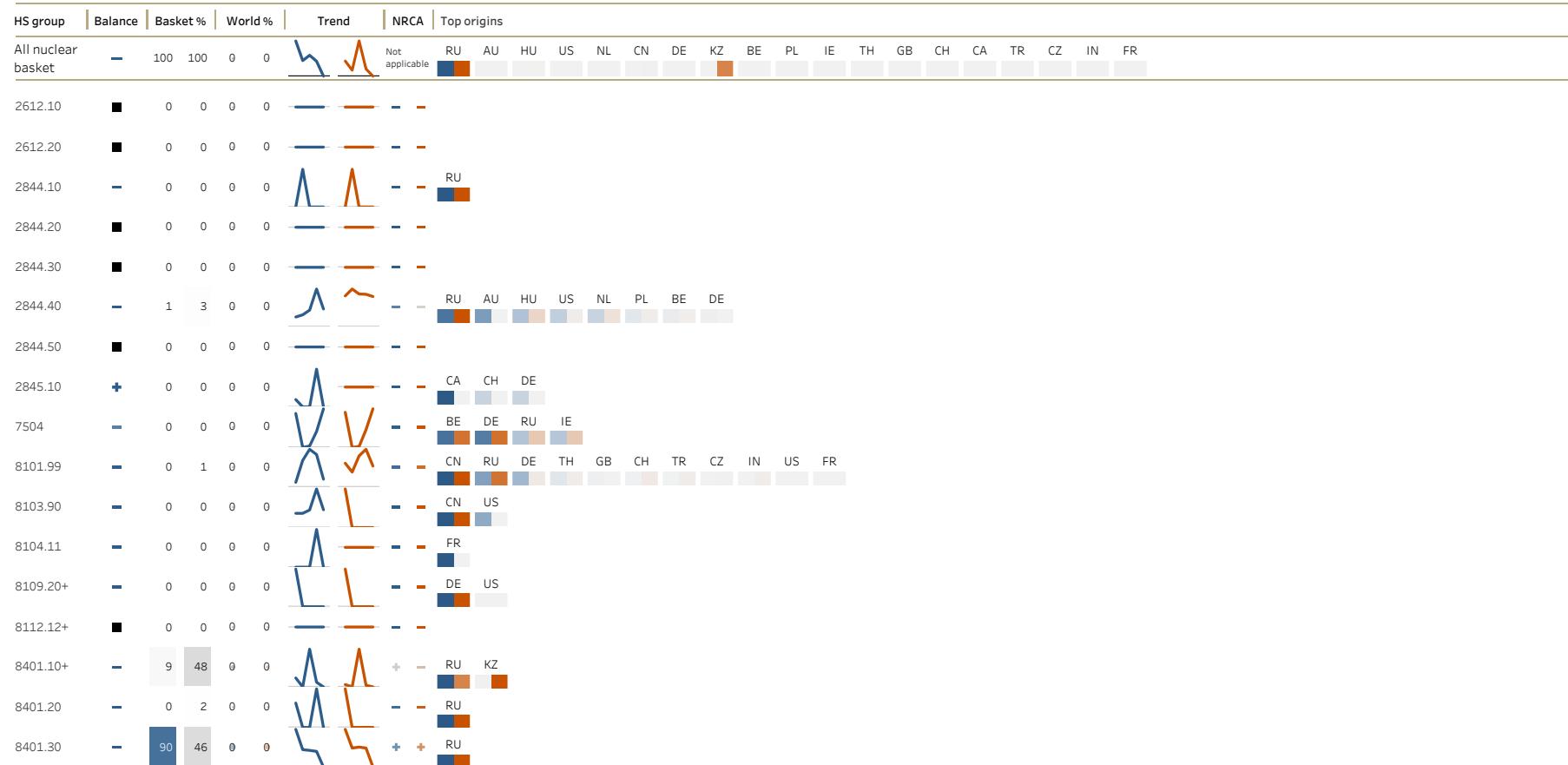


# Armenia

## Import

Years 2016-2020 BACI records: 83

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.8 M\$ 1% Quantity = 1.4 T

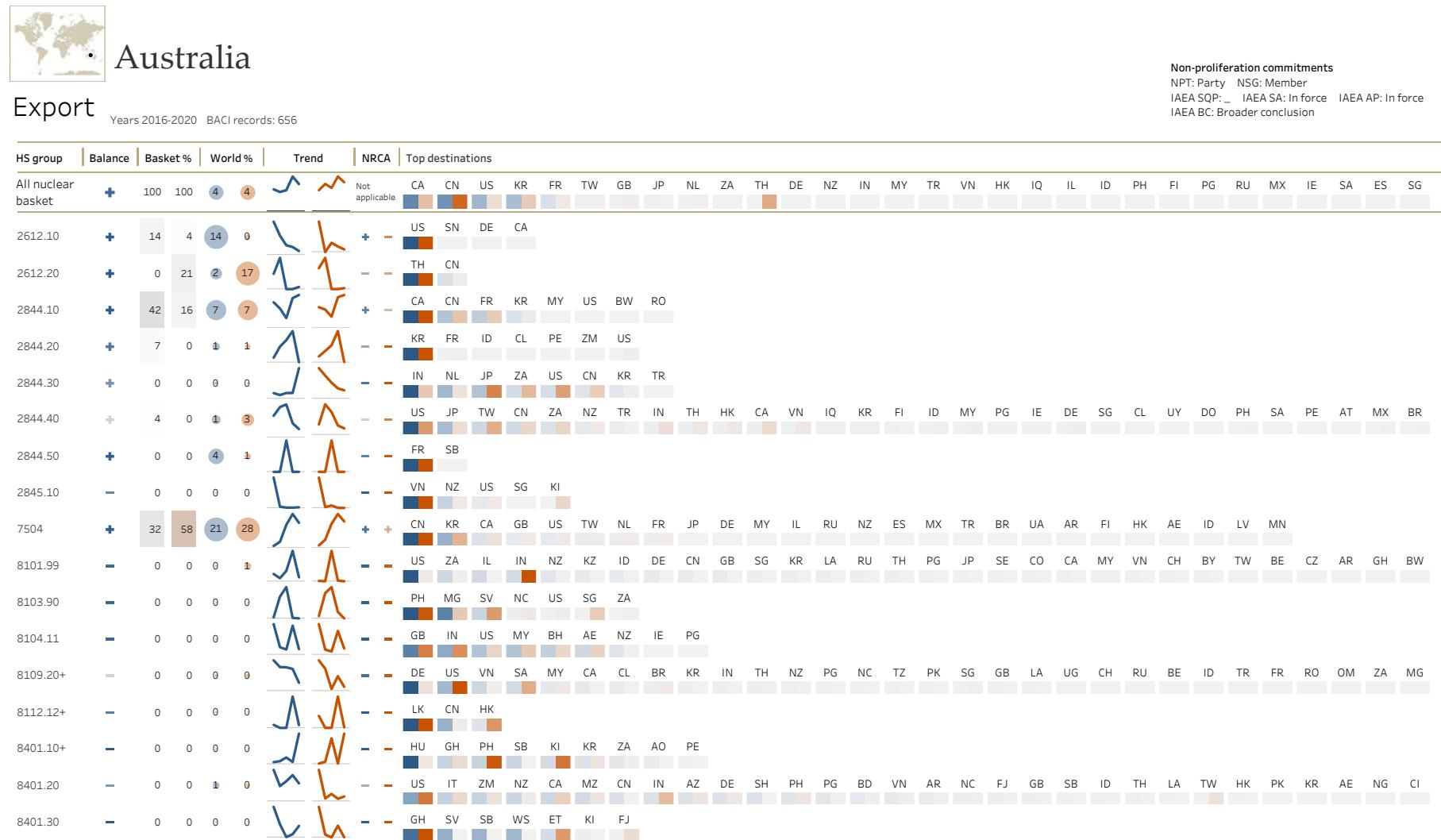


Figure 32: Australia

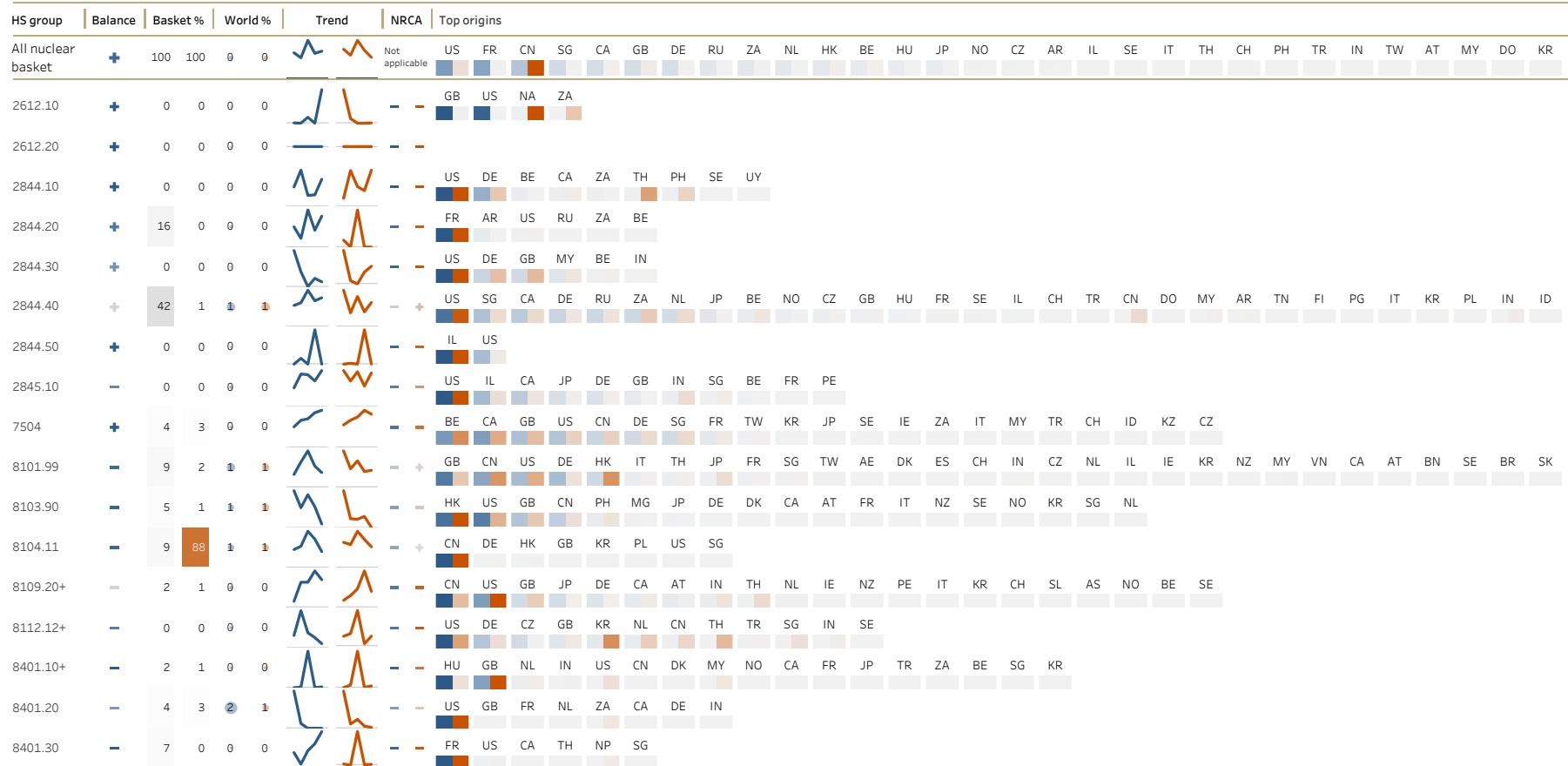


# Australia

## Import

Years 2016-2020 BACI records: 592

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 2.2 M\$ 1% Quantity = 93.8 T



Figure 33: Austria

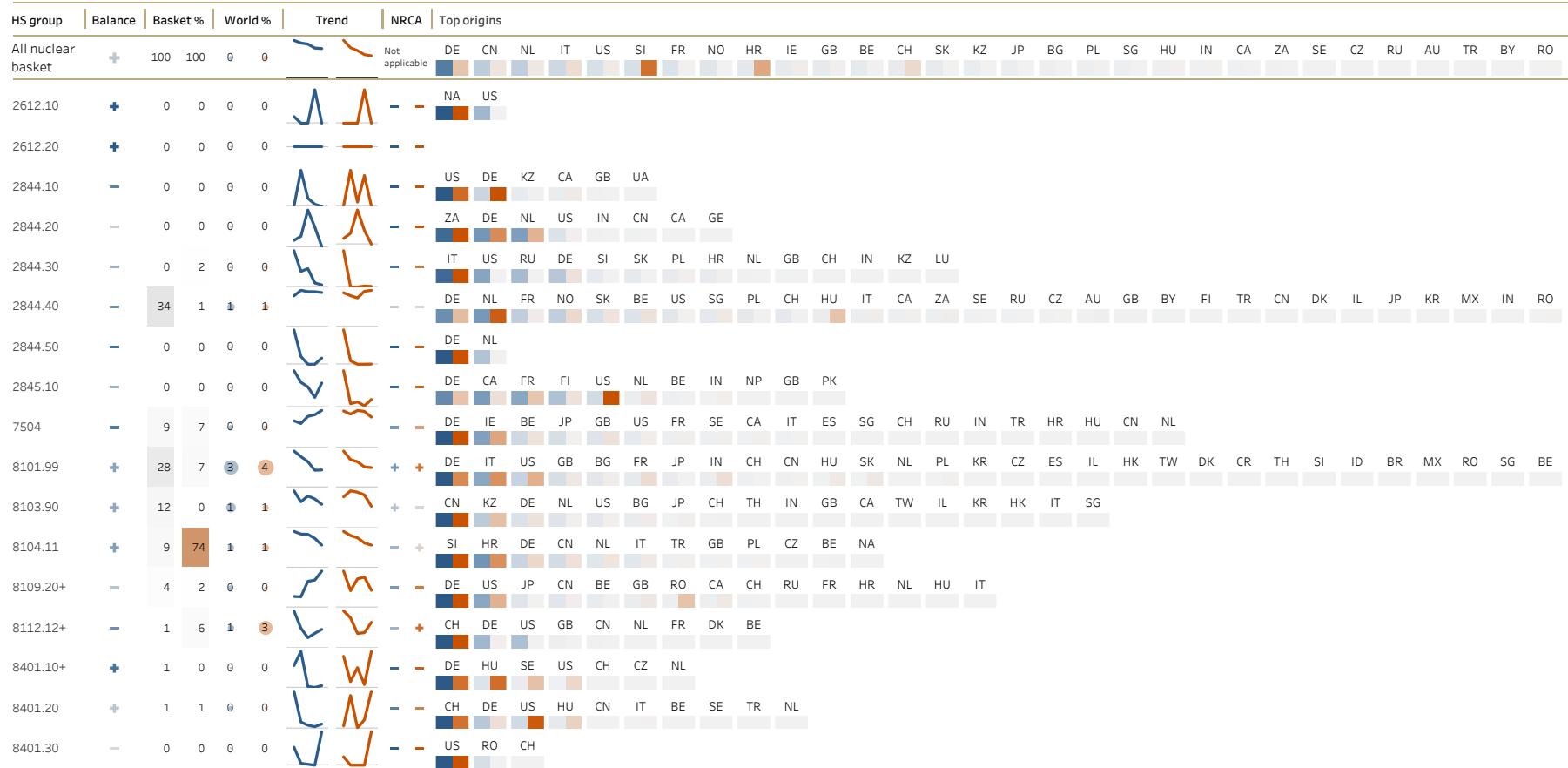


# Austria

## Import

Years 2016-2020 BACI records: 642

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 2.1 M\$ 1% Quantity = 105.5 T



Figure 34: Azerbaijan



# Azerbaijan

## Import

Years 2016-2020 BACI records: 151

### Non-proliferation commitments

NPT: Party NSG: —  
IAEA SQP: — IAEA SA: In force IAEA AP: In force  
IAEA BC: No broader conclusion

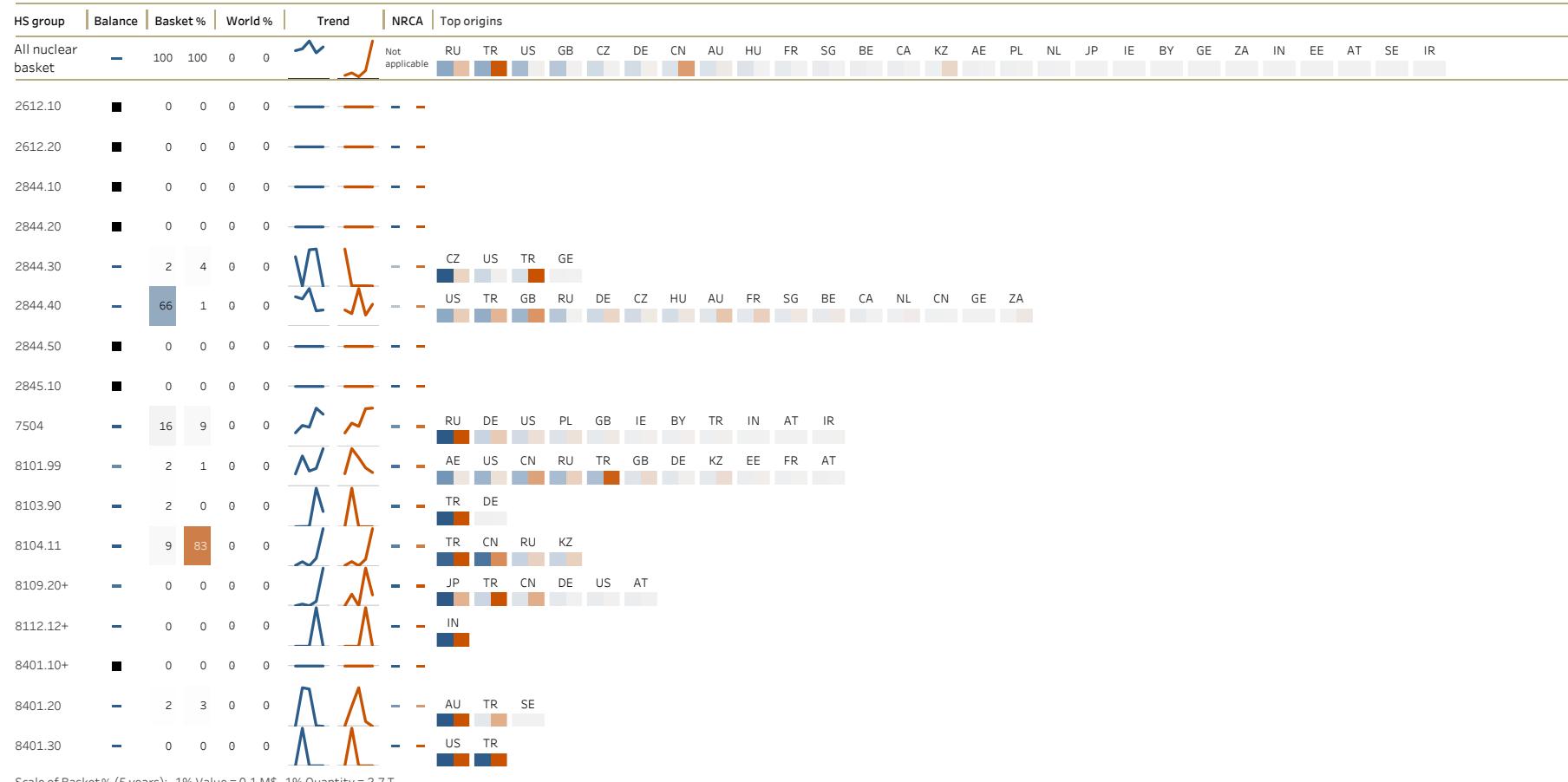




Figure 35: Bahamas

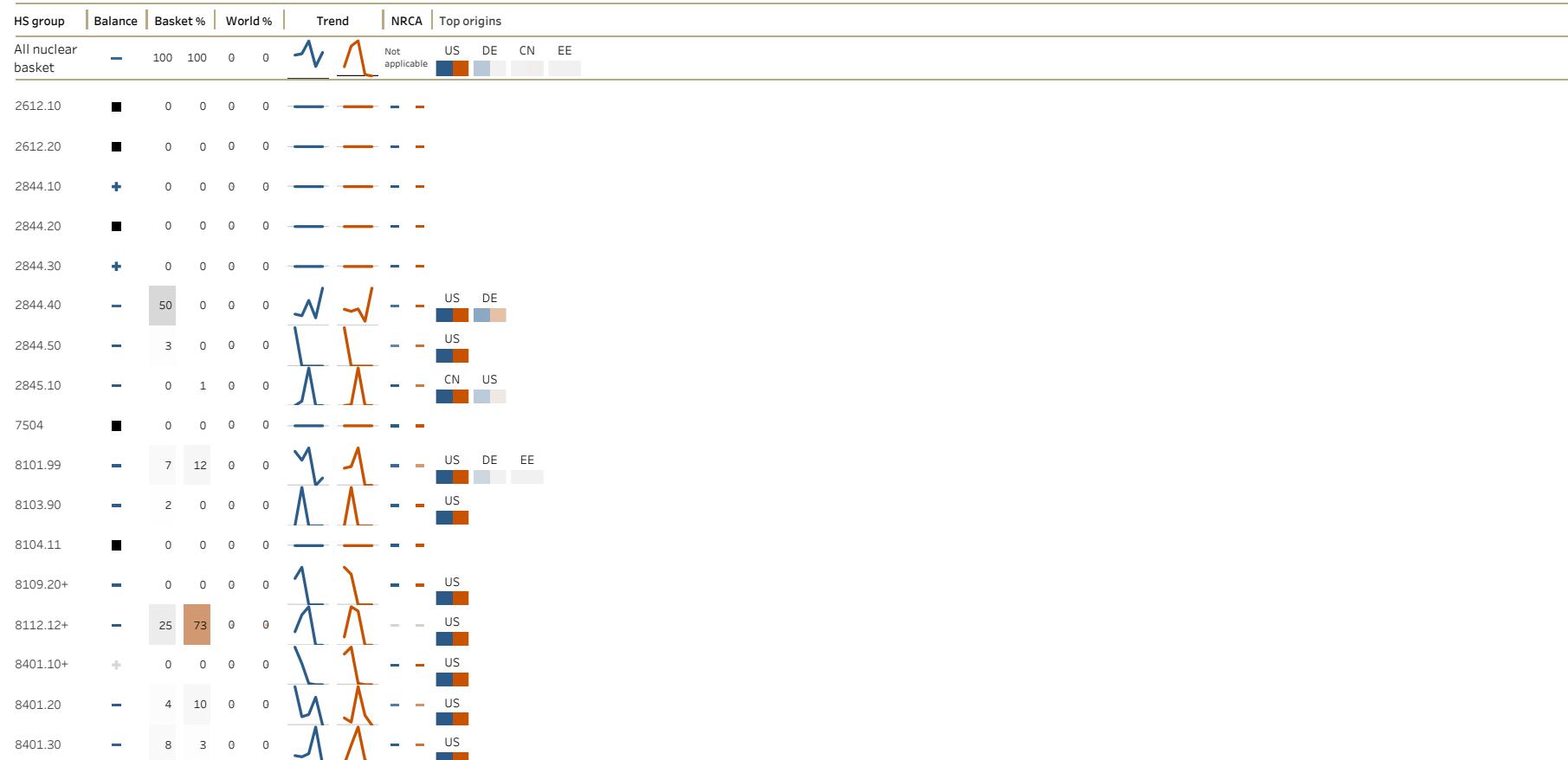


## Bahamas

### Import

Years 2016-2020 BACI records: 34

Non-proliferation commitments  
NPT: Party NSG: –  
IAEA SQP: Modified IAEA SA: In force IAEA AP: –  
IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.6 T



## Bahrain

### Export

Years 2016-2020 BACI records: 33

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion

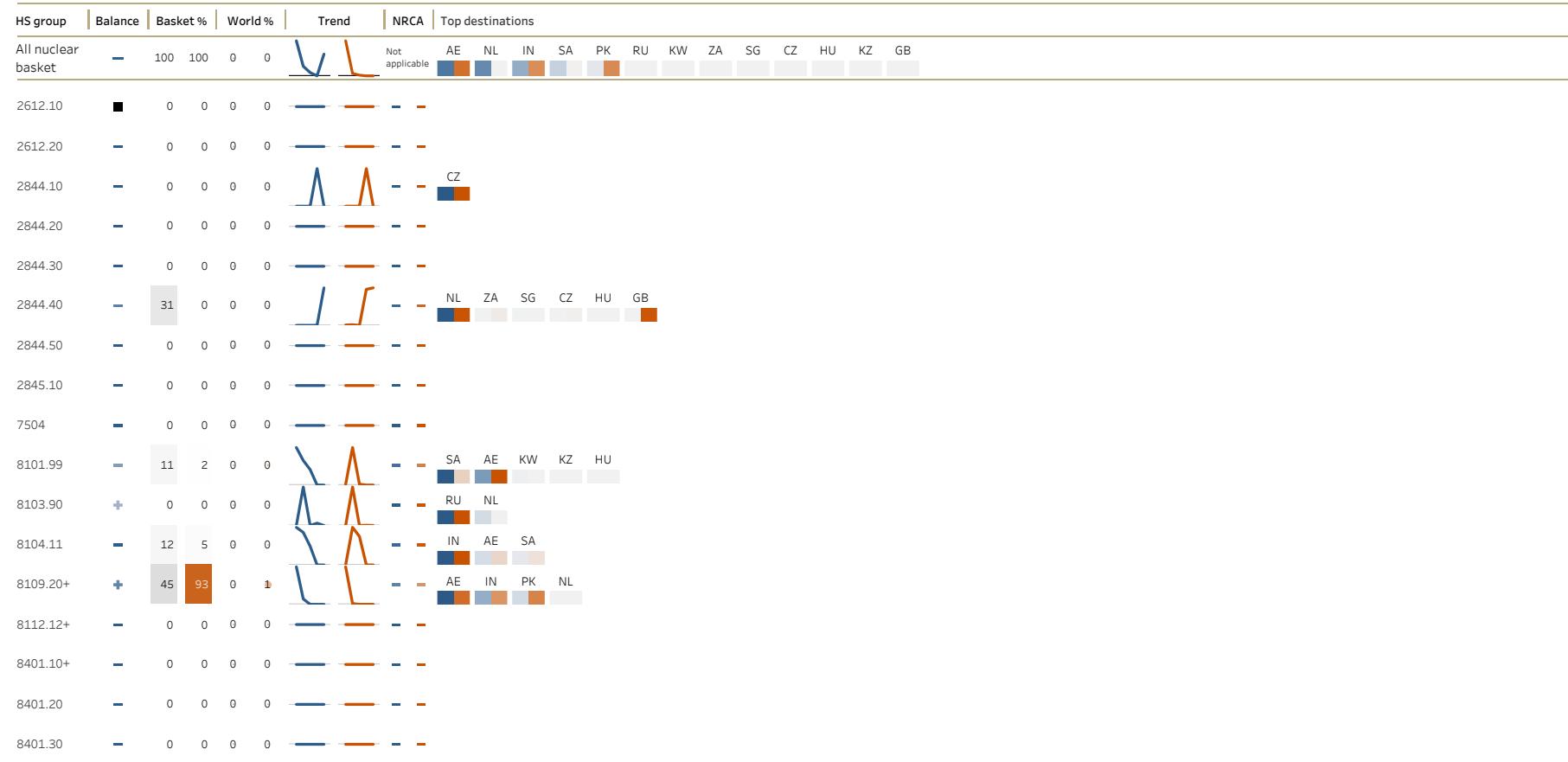


Figure 36: Bahrain

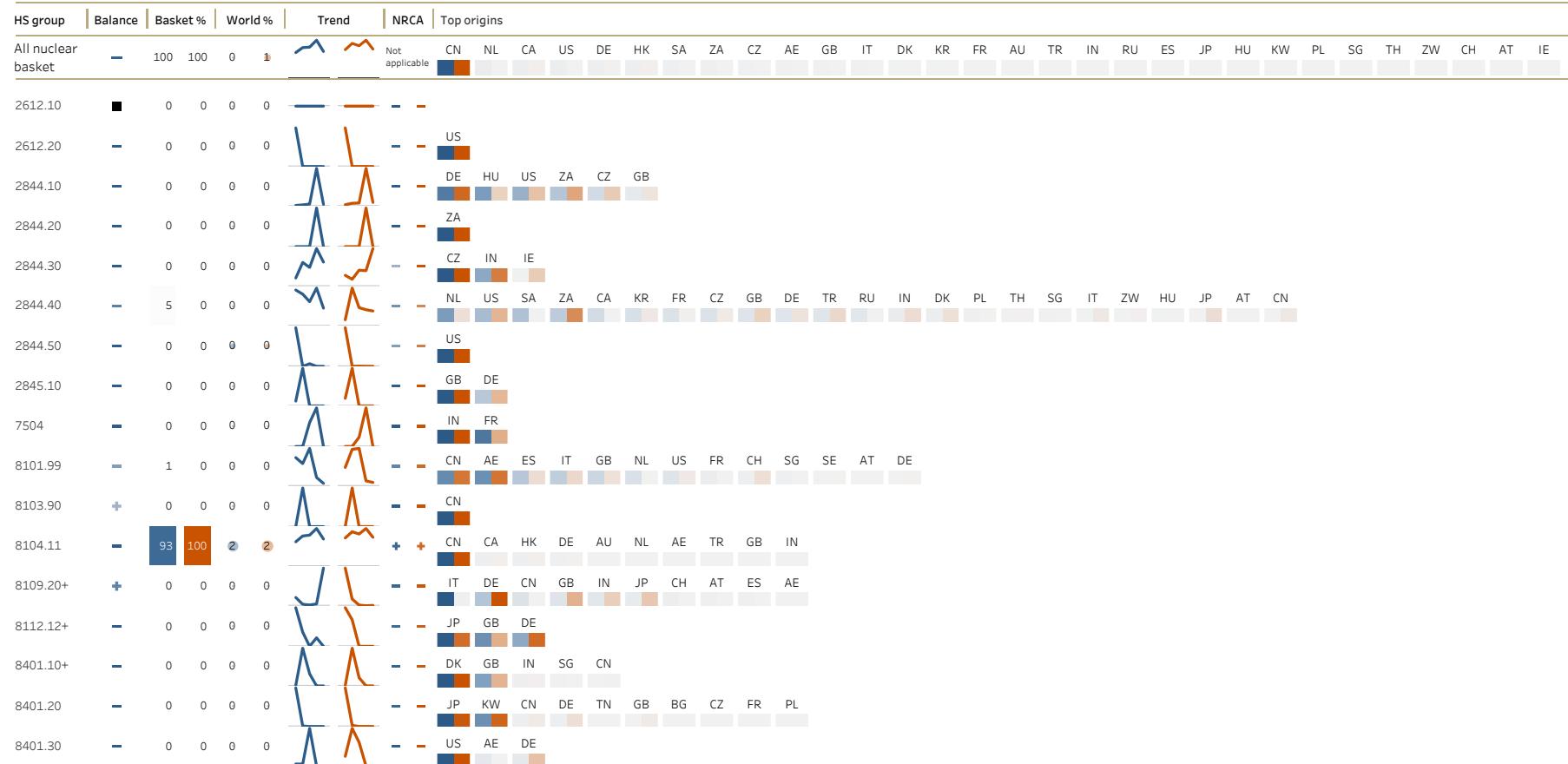


# Bahrain

## Import

Years 2016-2020 BACI records: 168

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.6 M\$ 1% Quantity = 236.1 T



## Bangladesh

### Export

Years 2016-2020 BACI records: 15

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

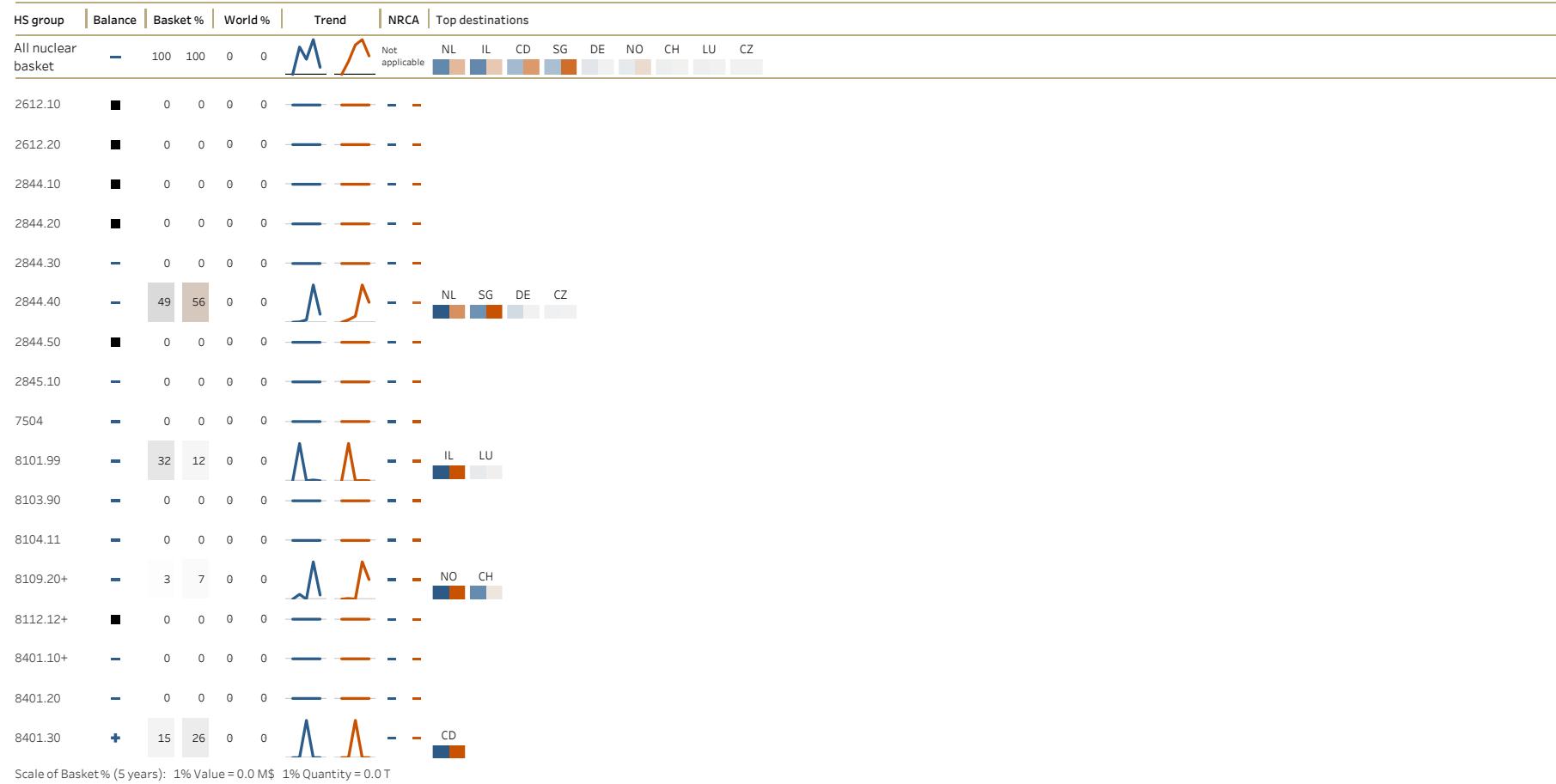


Figure 37: Bangladesh

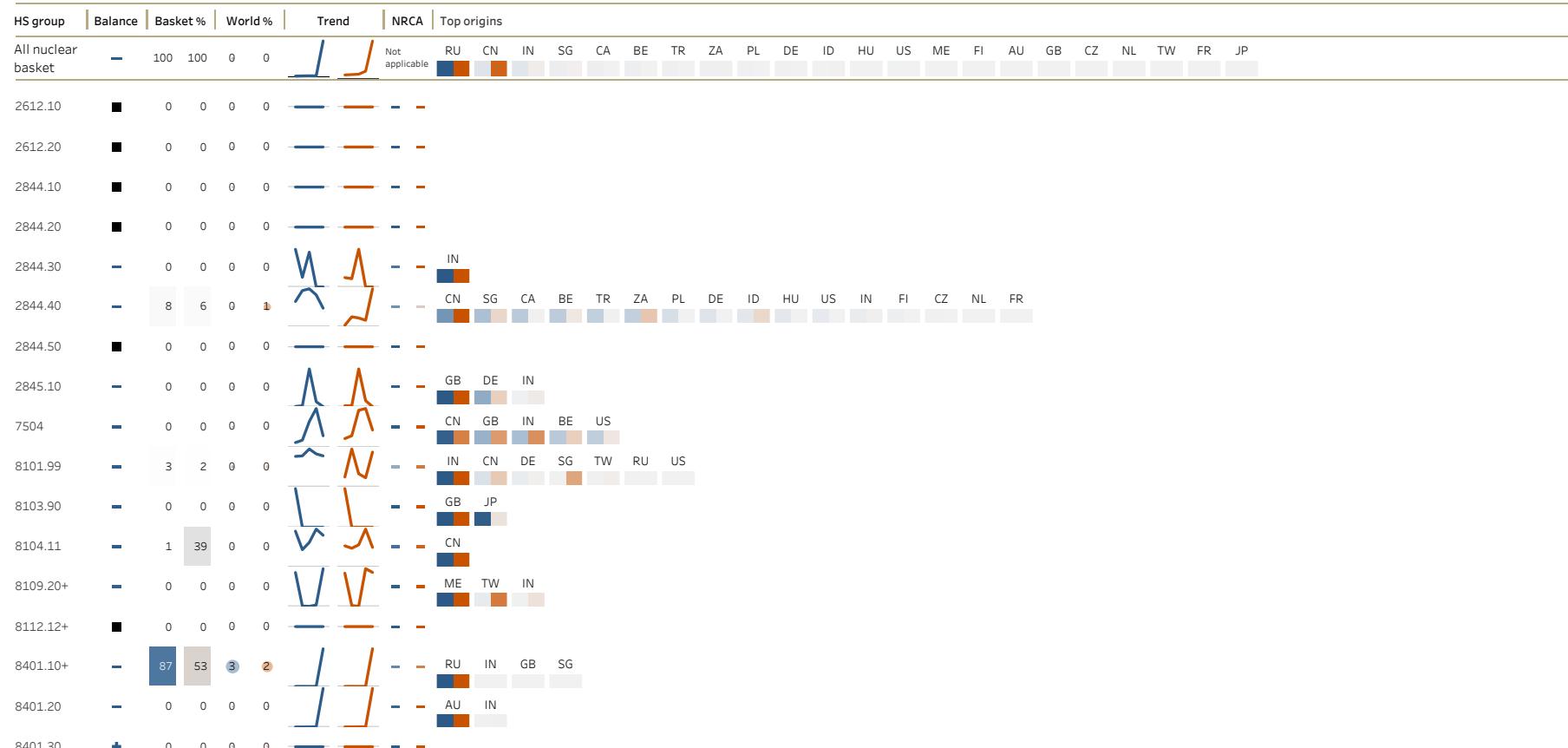


# Bangladesh

## Import

Years 2016-2020 BACI records: 126

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 1.0 M\$ 1% Quantity = 16.7 T

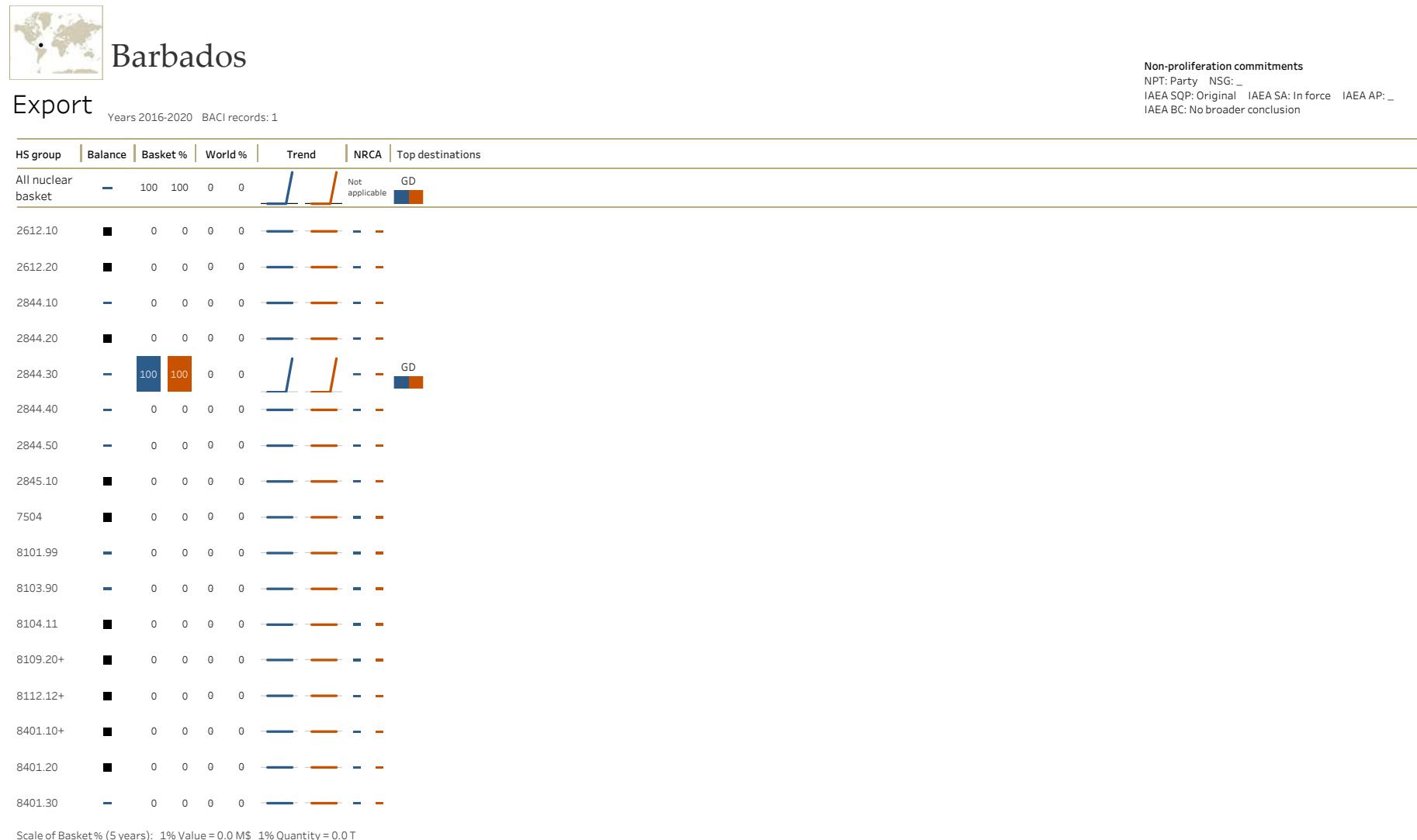


Figure 38: Barbados

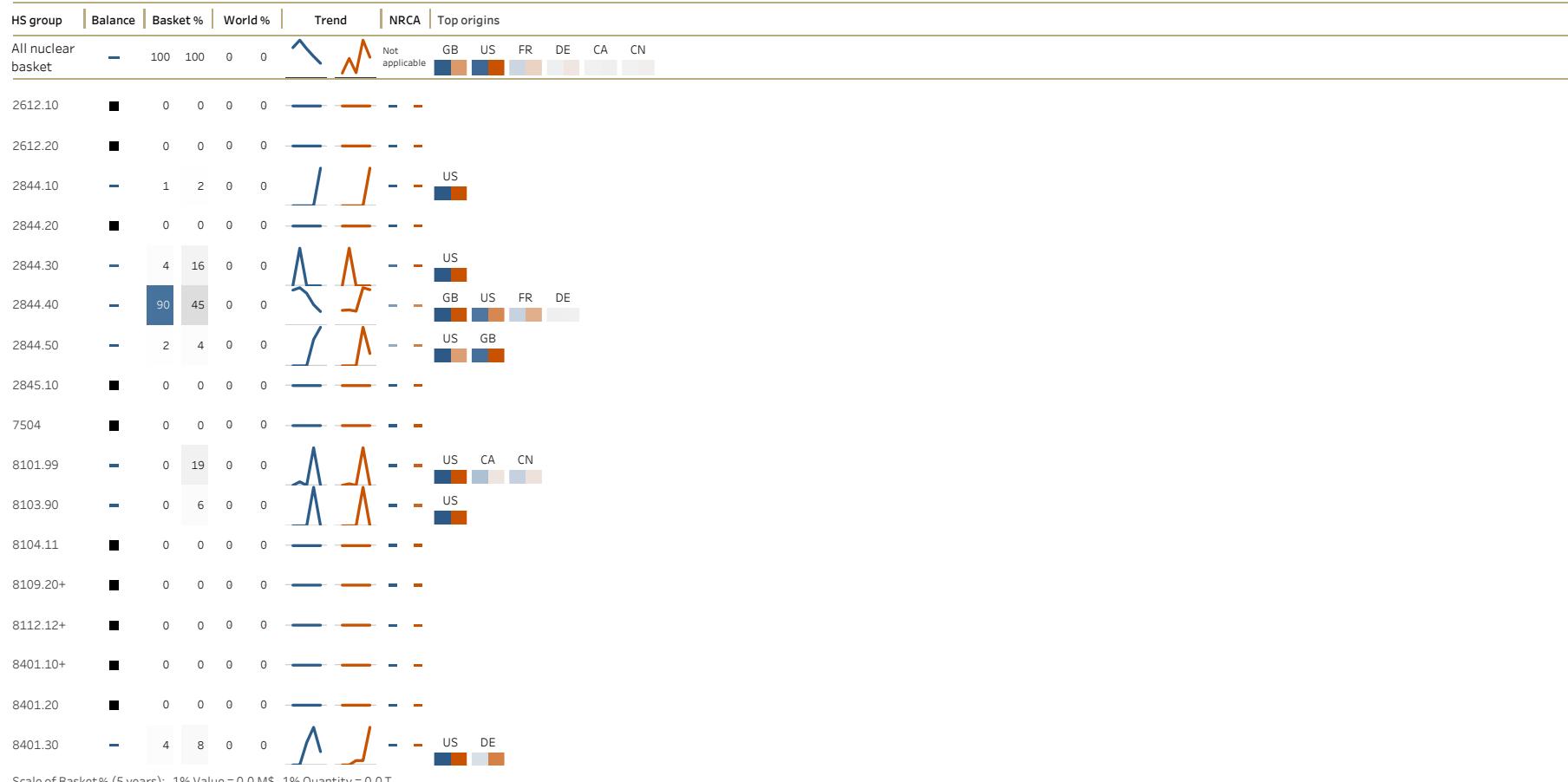


## Barbados

### Import

Years 2016-2020 BACI records: 26

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: Original IAEA SA: In force IAEA AP: —  
 IAEA BC: No broader conclusion



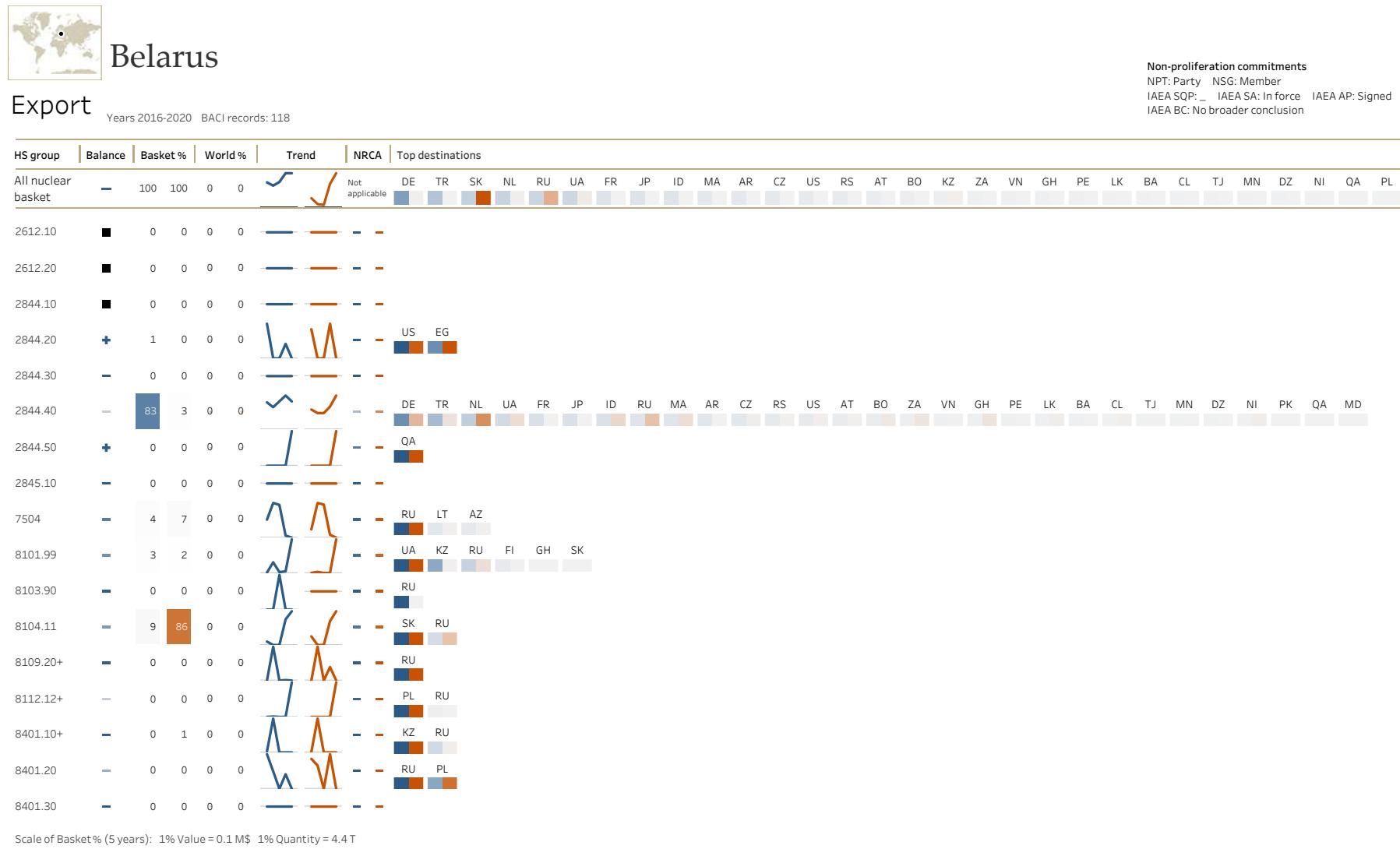


Figure 39: Belarus

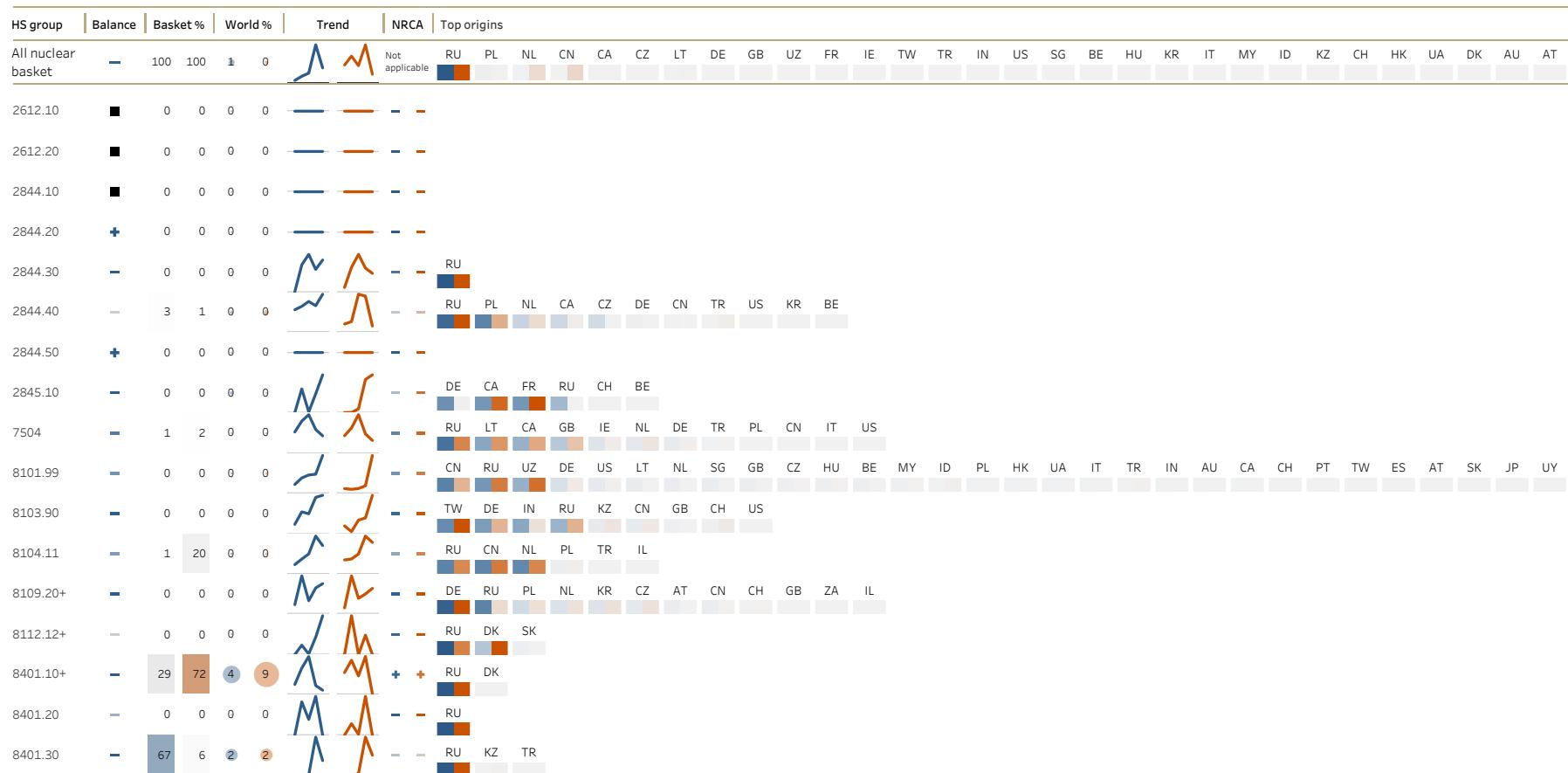


## Belarus

## Import

Years 2016-2020 BACI records: 269

**Non-proliferation commitments**  
NPT: Party NSG: Member  
IAEA SQP: \_ IAEA SA: In force IAEA AP: Signed  
IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 4.9 M\$ 1% Quantity = 62.6 T



## Belgium

### Export

Years 2016-2020 BACI records: 1,716

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

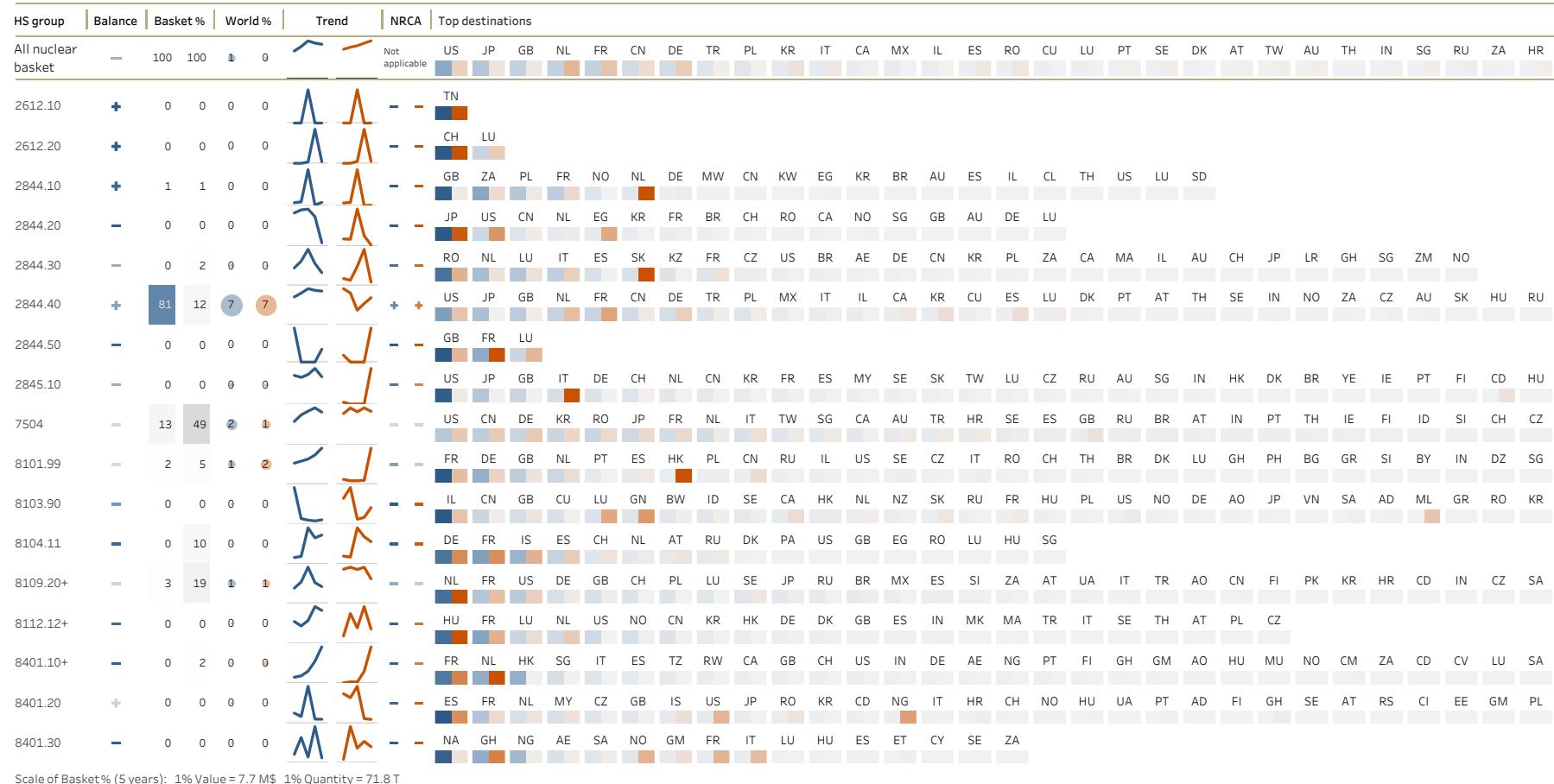


Figure 40: Belgium

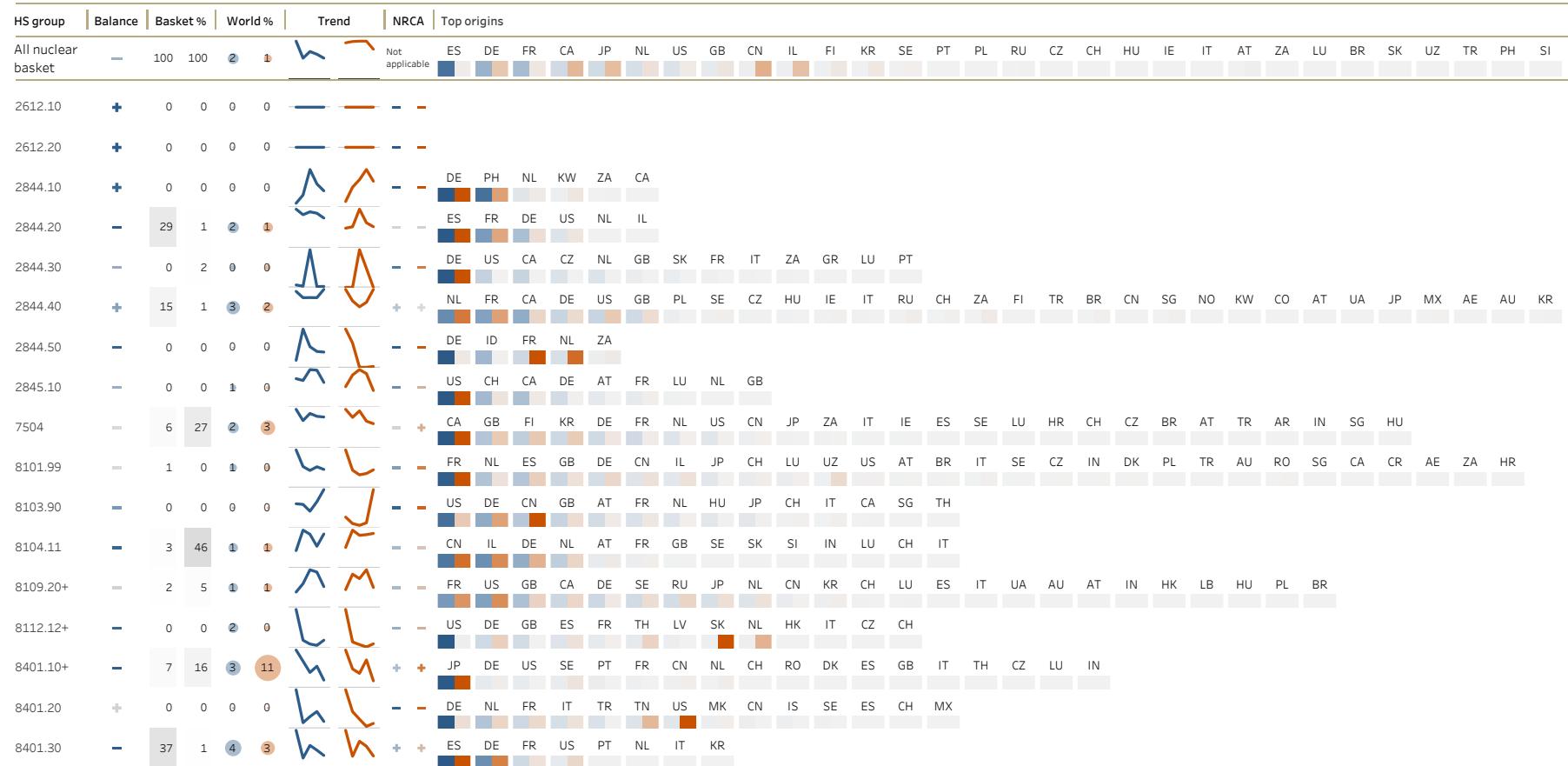


# Belgium

## Import

Years 2016-2020 BACI records: 822

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 16.0 M\$ 1% Quantity = 339.3 T

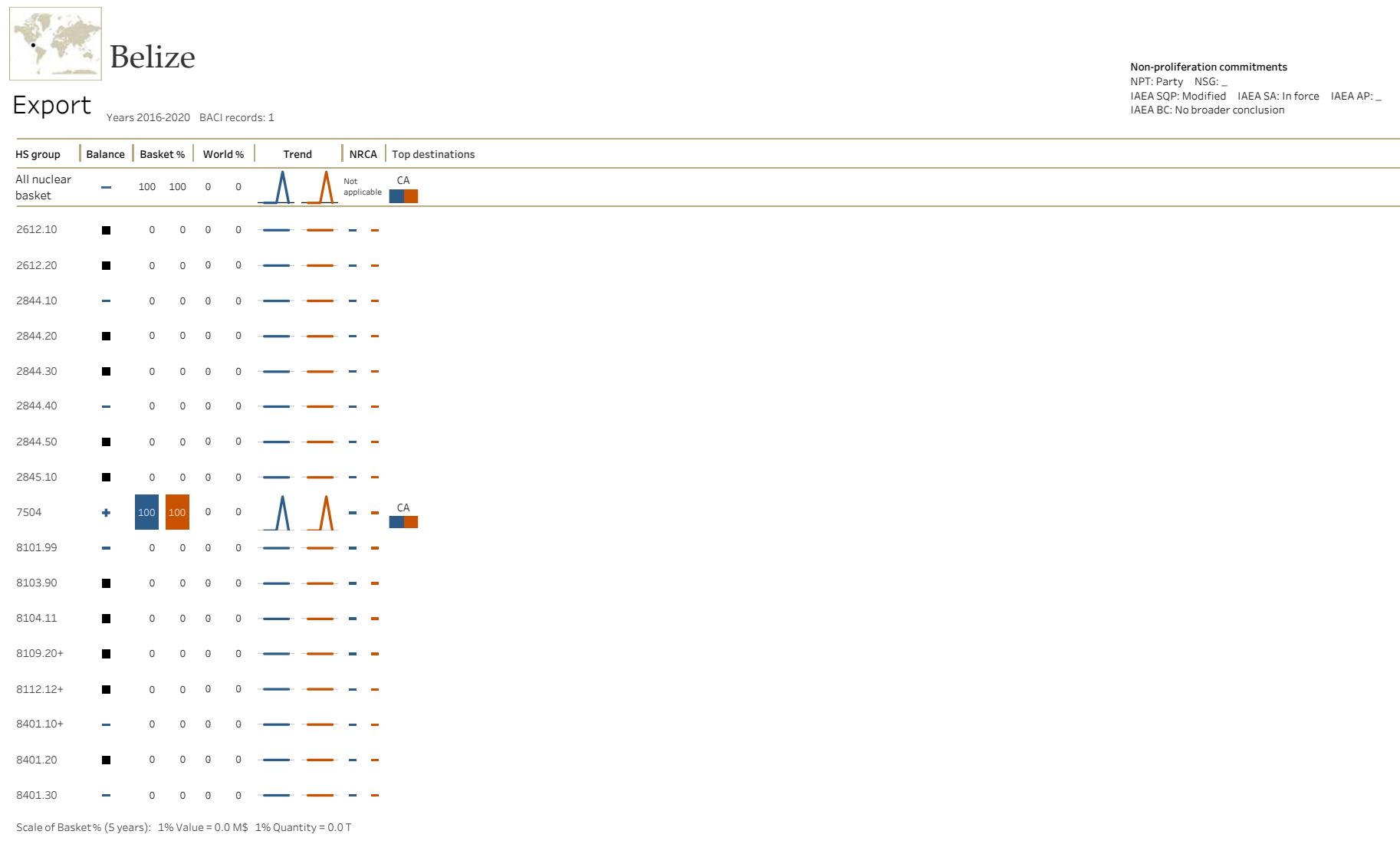


Figure 41: Belize

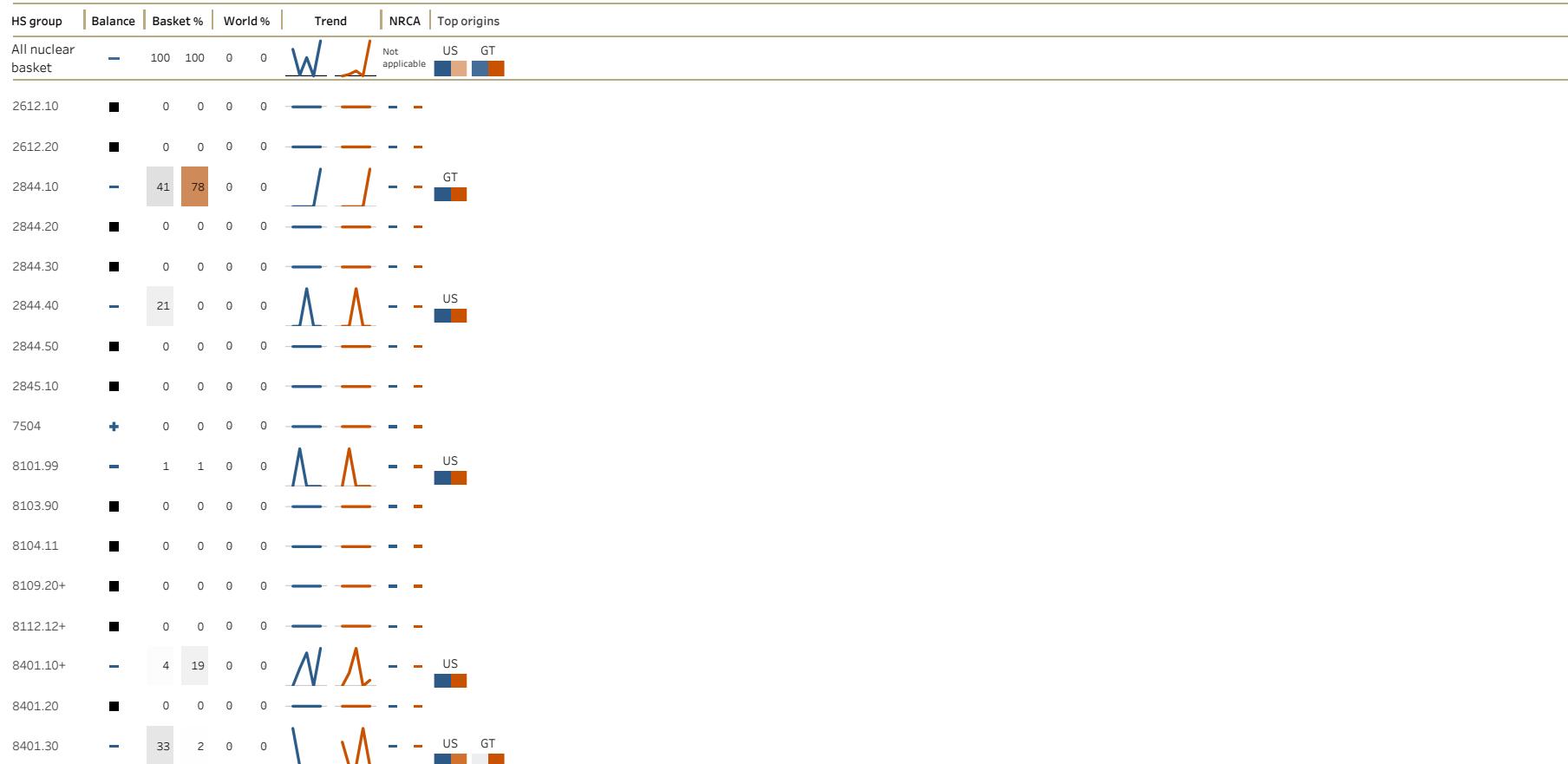


# Belize

## Import

Years 2016-2020 BACI records: 9

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: —  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.0 T



## Benin

### Export

Years 2016-2020 BACI records: 1

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Figure 42: Benin

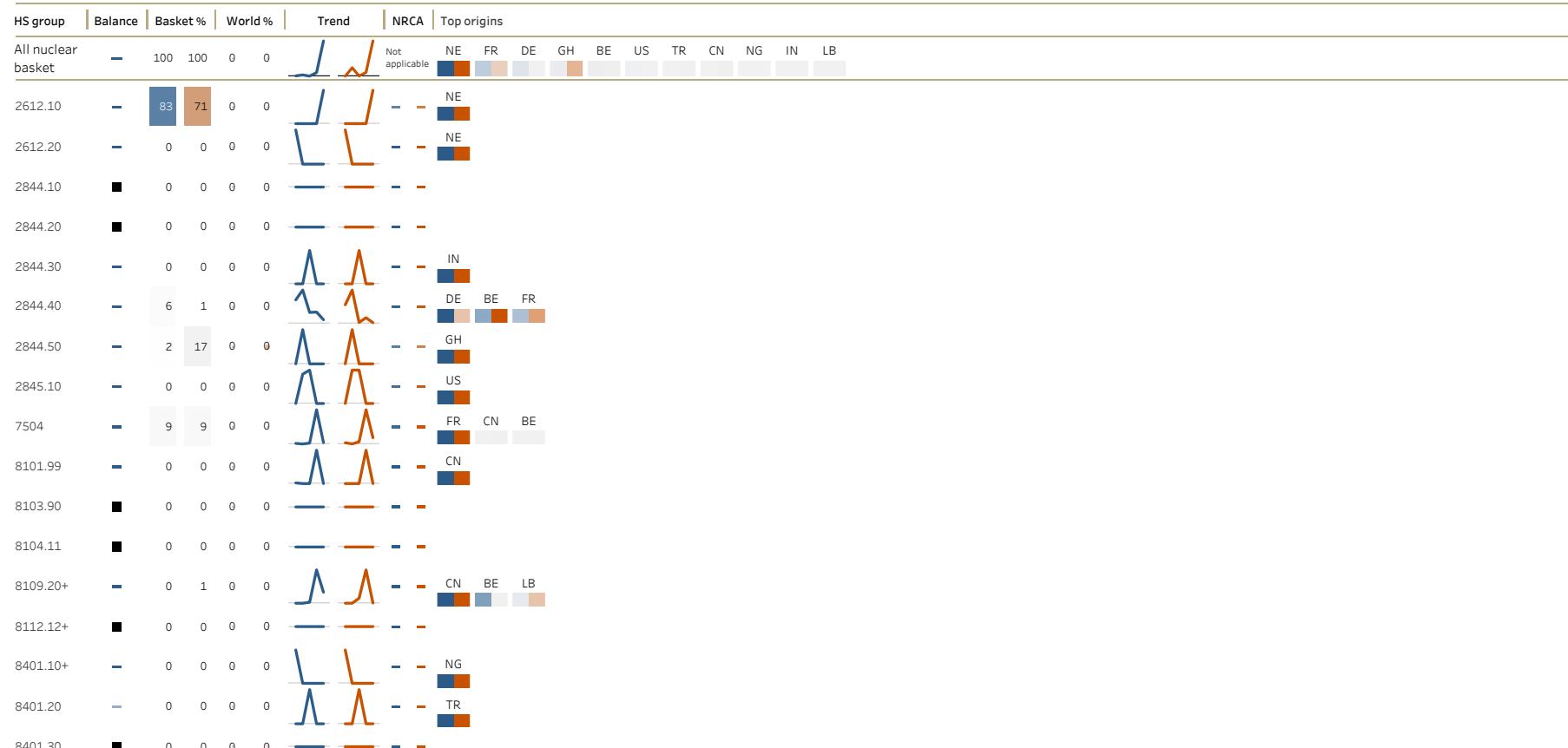


# Benin

## Import

Years 2016-2020 BACI records: 32

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.3 T

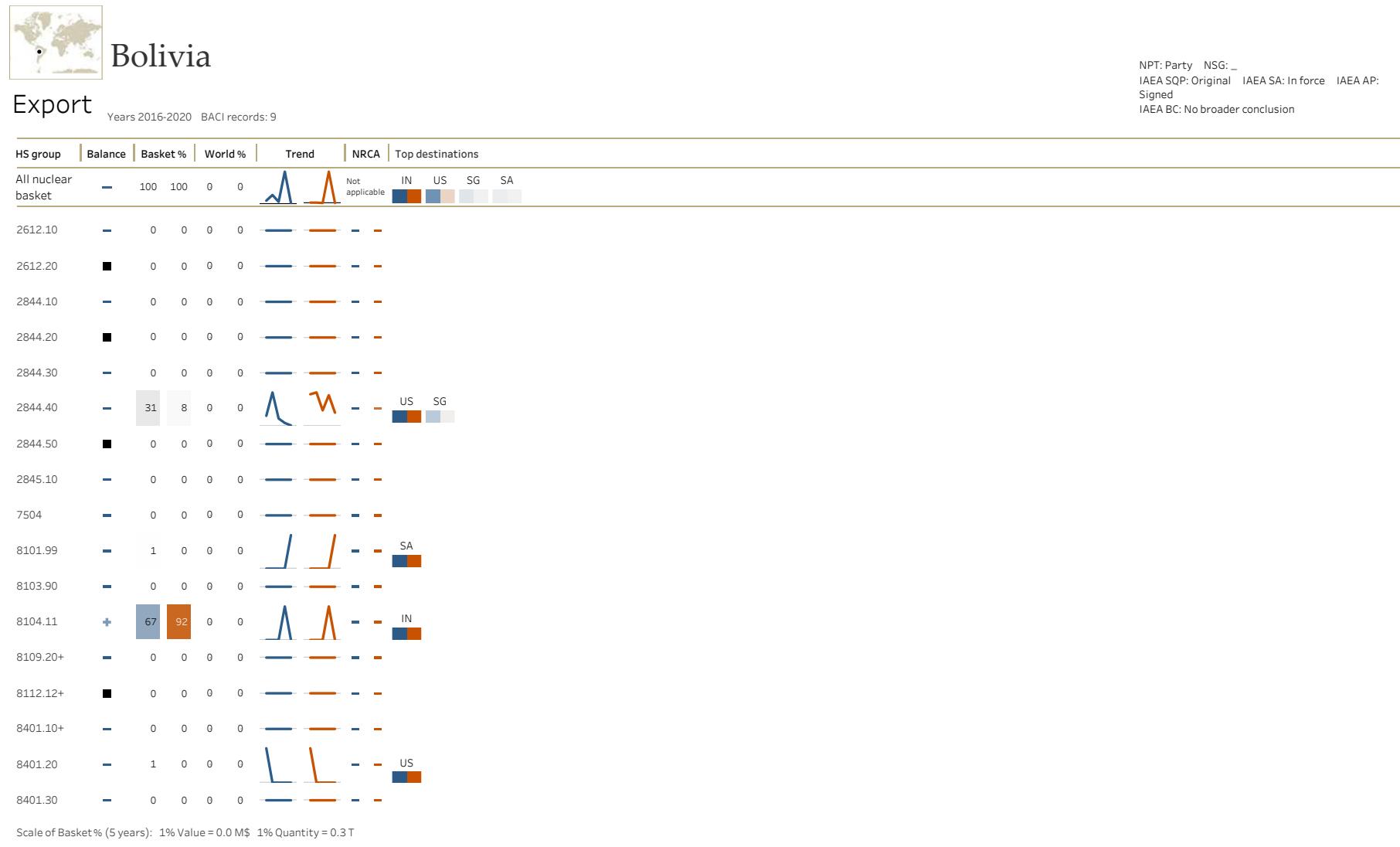


Figure 43: Bolivia



## Bolivia

## Import

Years 2016-2020 BACI records: 144

NPT: Party NSG: \_  
IAEA SQP: Original IAEA SA: In force IAEA AP:  
Signed  
IAEA BC: No broader conclusion

Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.3 T

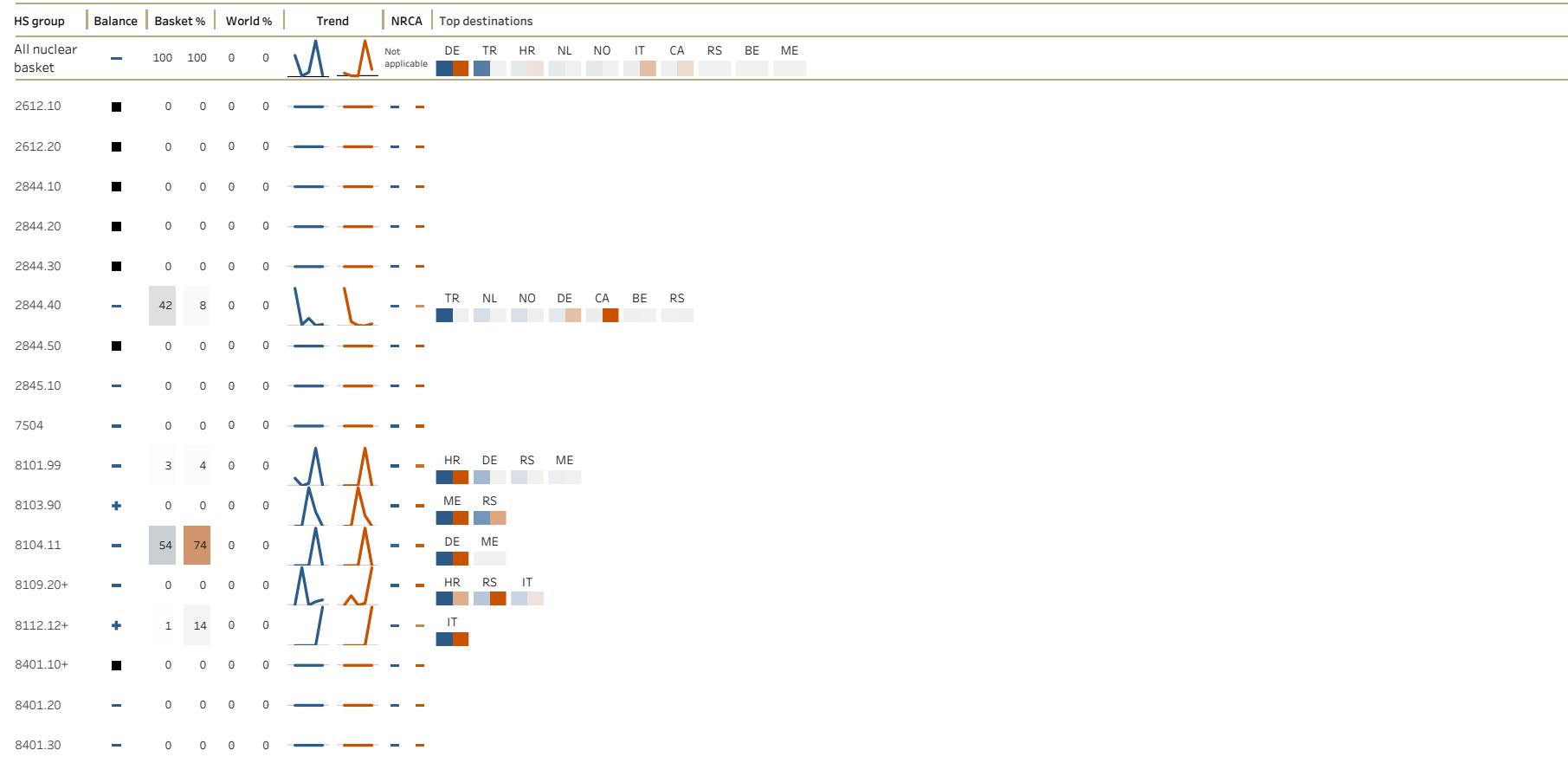


## Bosnia Herzegovina

### Export

Years 2016-2020 BACI records: 26

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.7 T

Figure 44: Bosnia Herzegovina



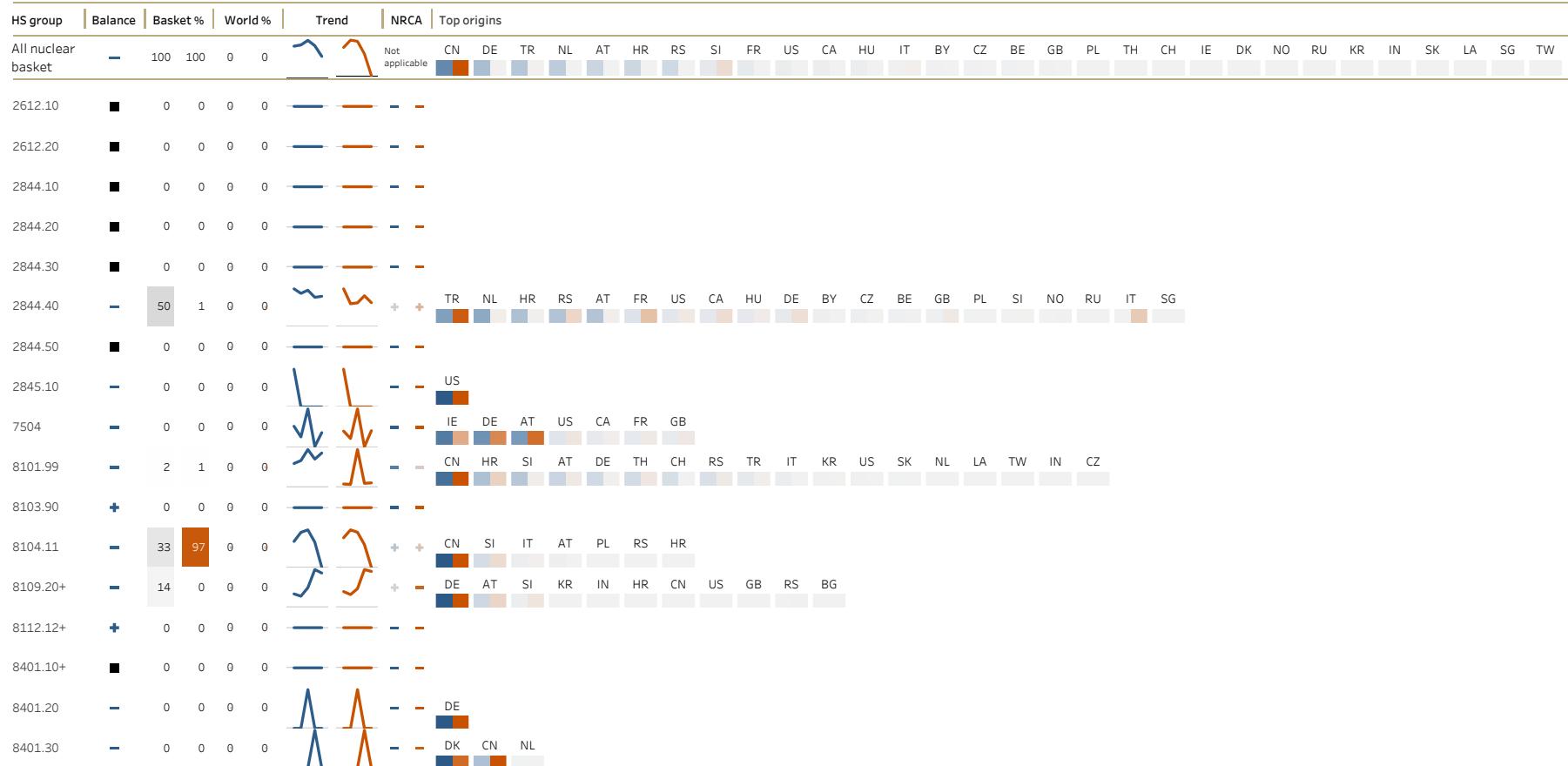
## Bosnia Herzegovina

### Import

Years 2016-2020 BACI records: 198

#### Non-proliferation commitments

NPT: Party NSG:—  
IAEA SQP:— IAEA SA: In force IAEA AP: In force  
IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.1 M\$ 1% Quantity = 17.6 T



## Botswana

### Export

Years 2016-2020 BACI records: 22

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

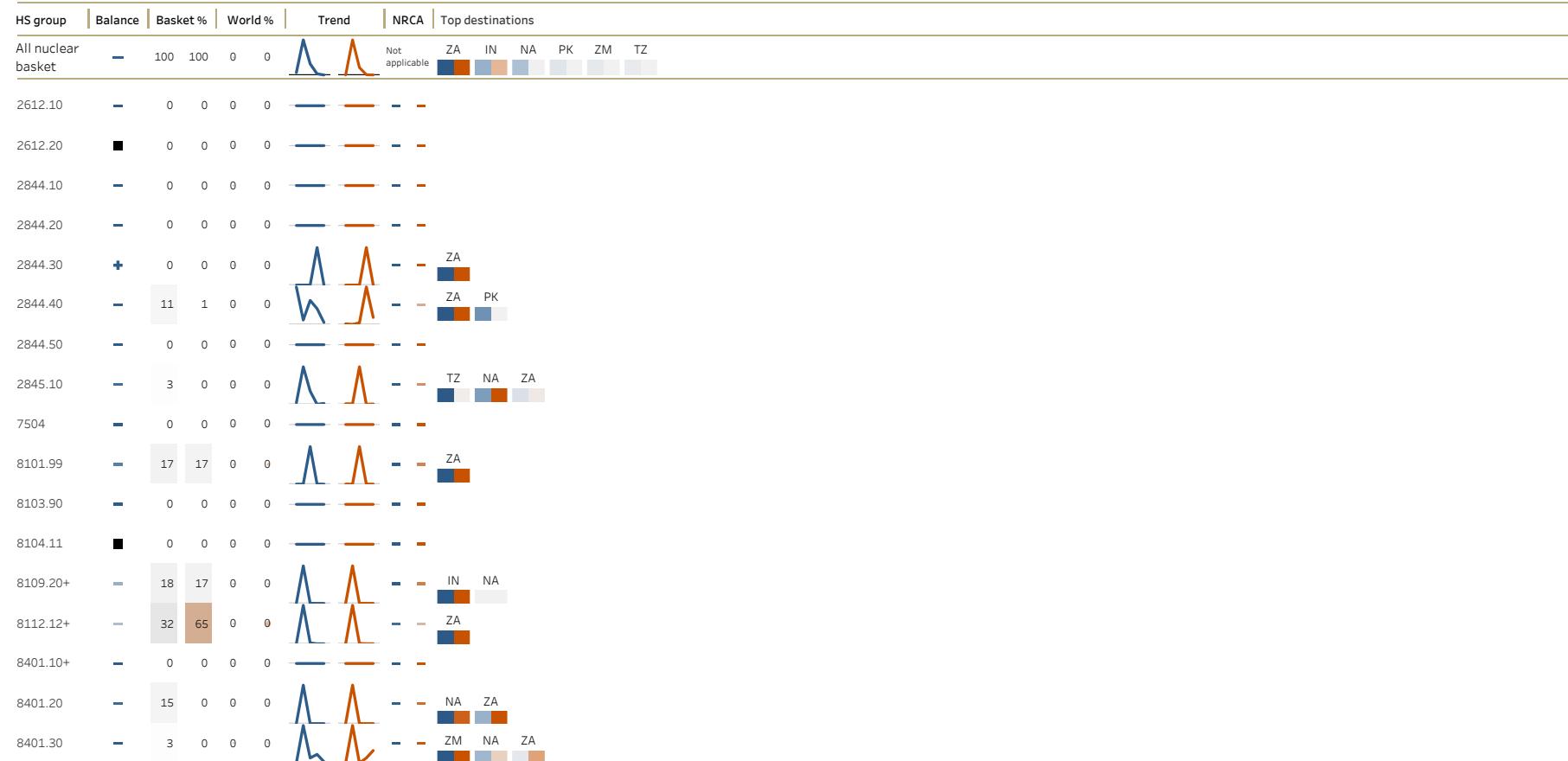


Figure 45: Botswana

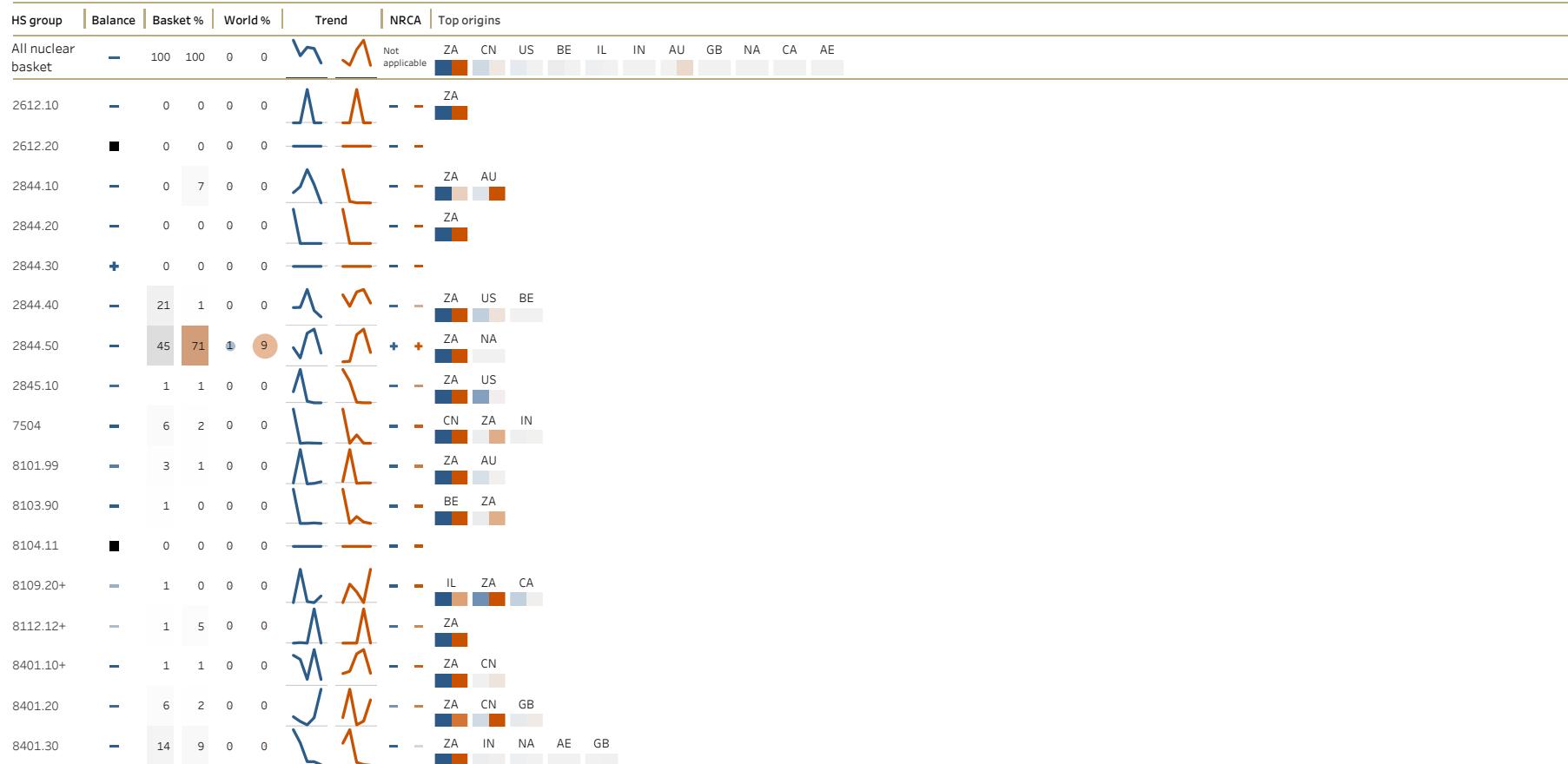


## Botswana

### Import

Years 2016-2020 BACI records: 80

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 1.7 T

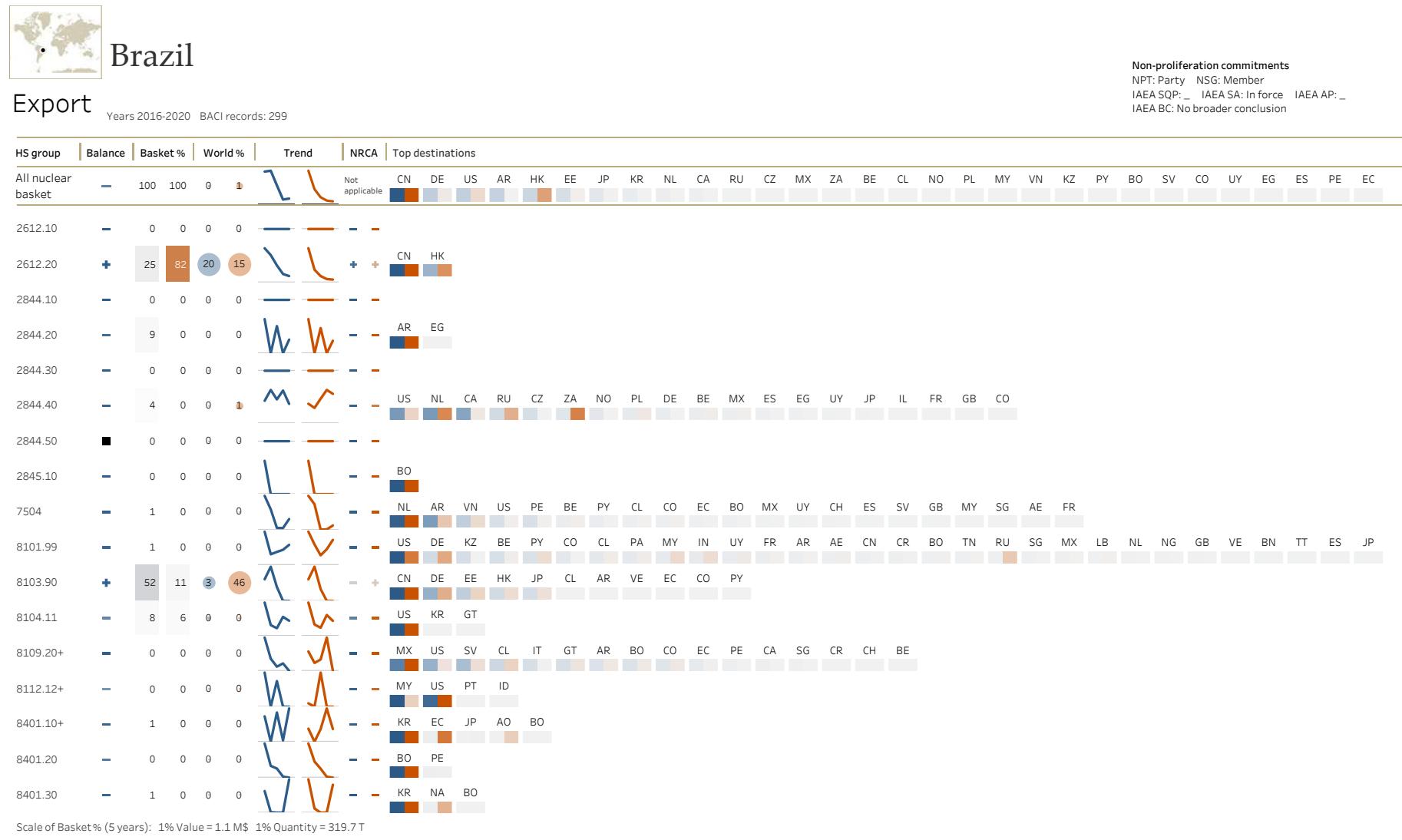


Figure 46: Brazil

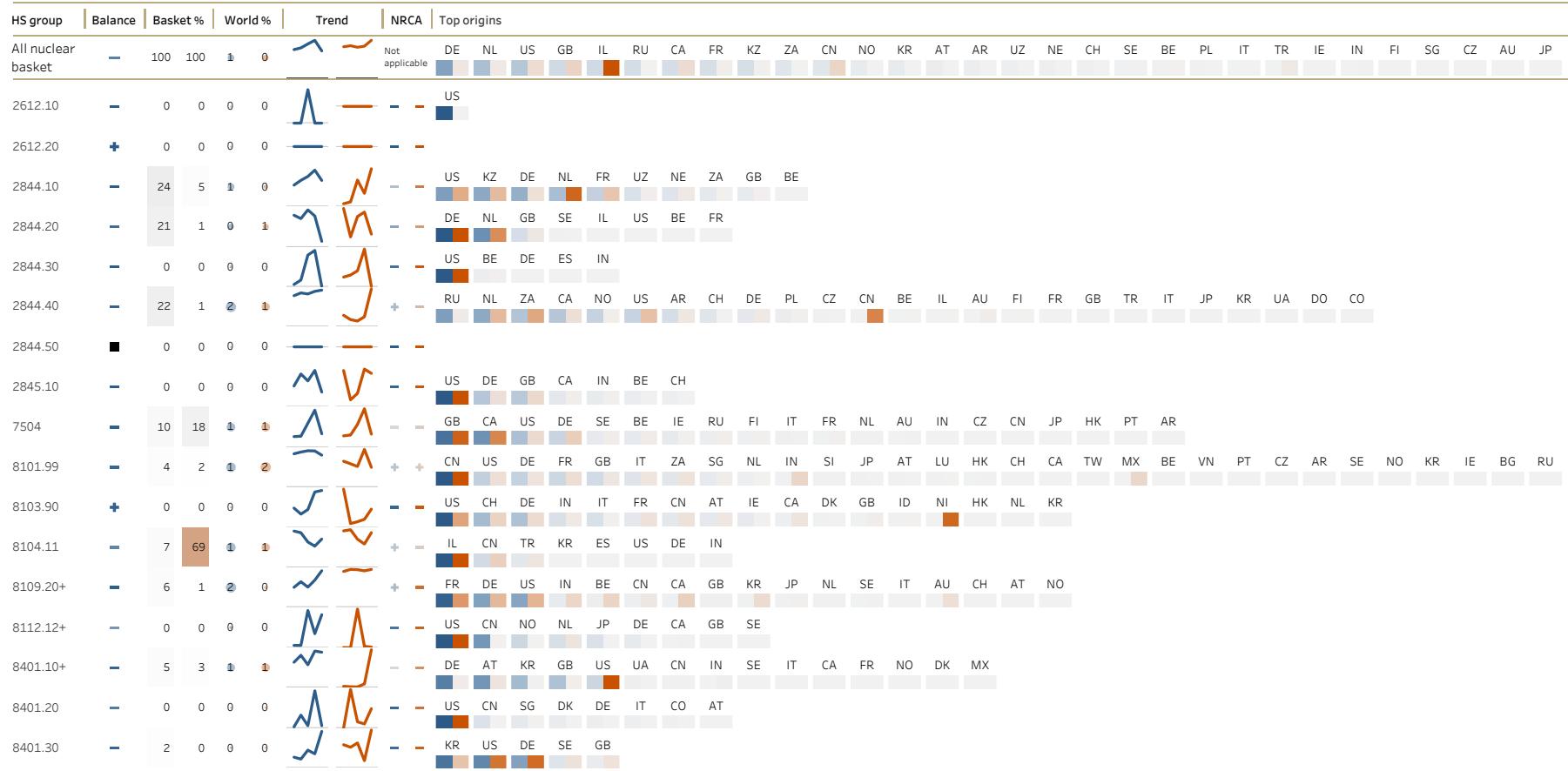


# Brazil

## Import

Years 2016-2020 BACI records: 632

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: In force IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 6.1 M\$ 1% Quantity = 179.8 T

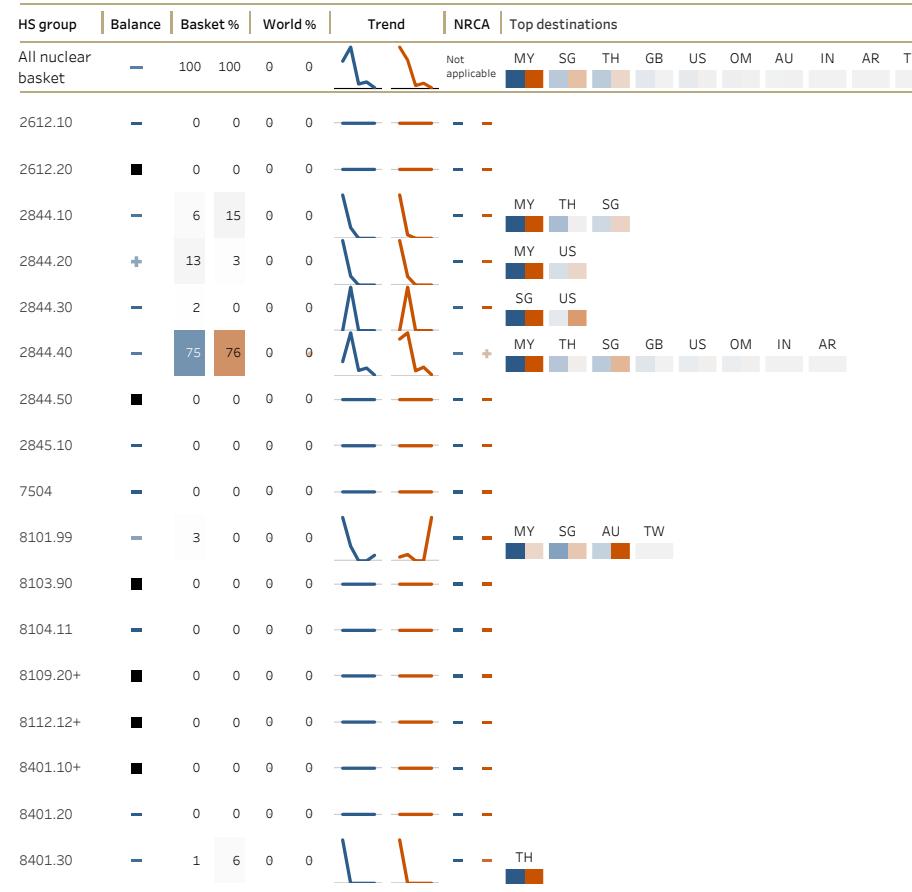


## Brunei Darussalam

### Export

Years 2016-2020 BACI records: 32

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.5 T

Figure 47: Brunei Darussalam

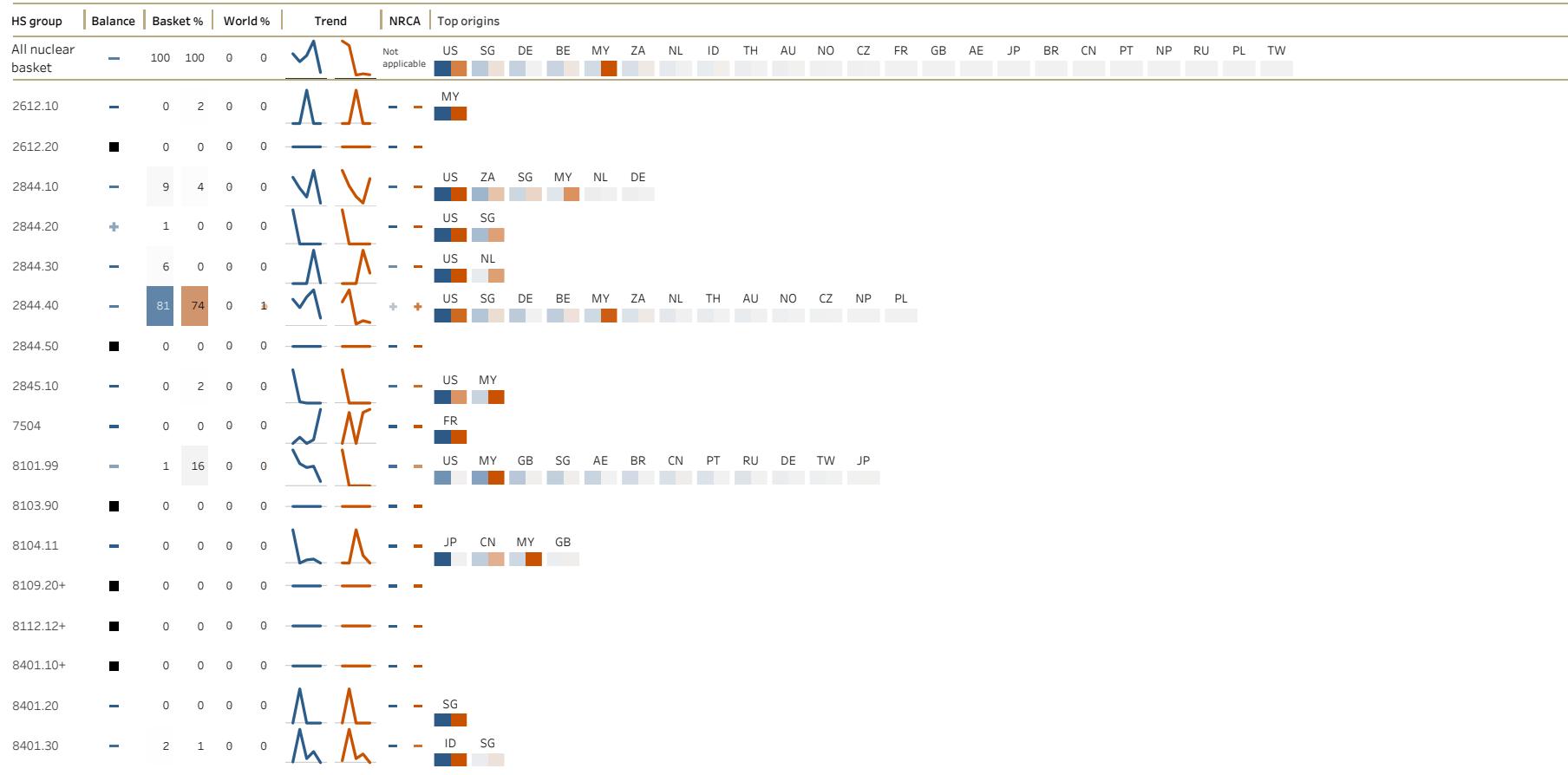


## Brunei Darussalam

### Import

Years 2016-2020 BACI records: 95

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion





## Bulgaria

### Export

Years 2016-2020 BACI records: 183

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion

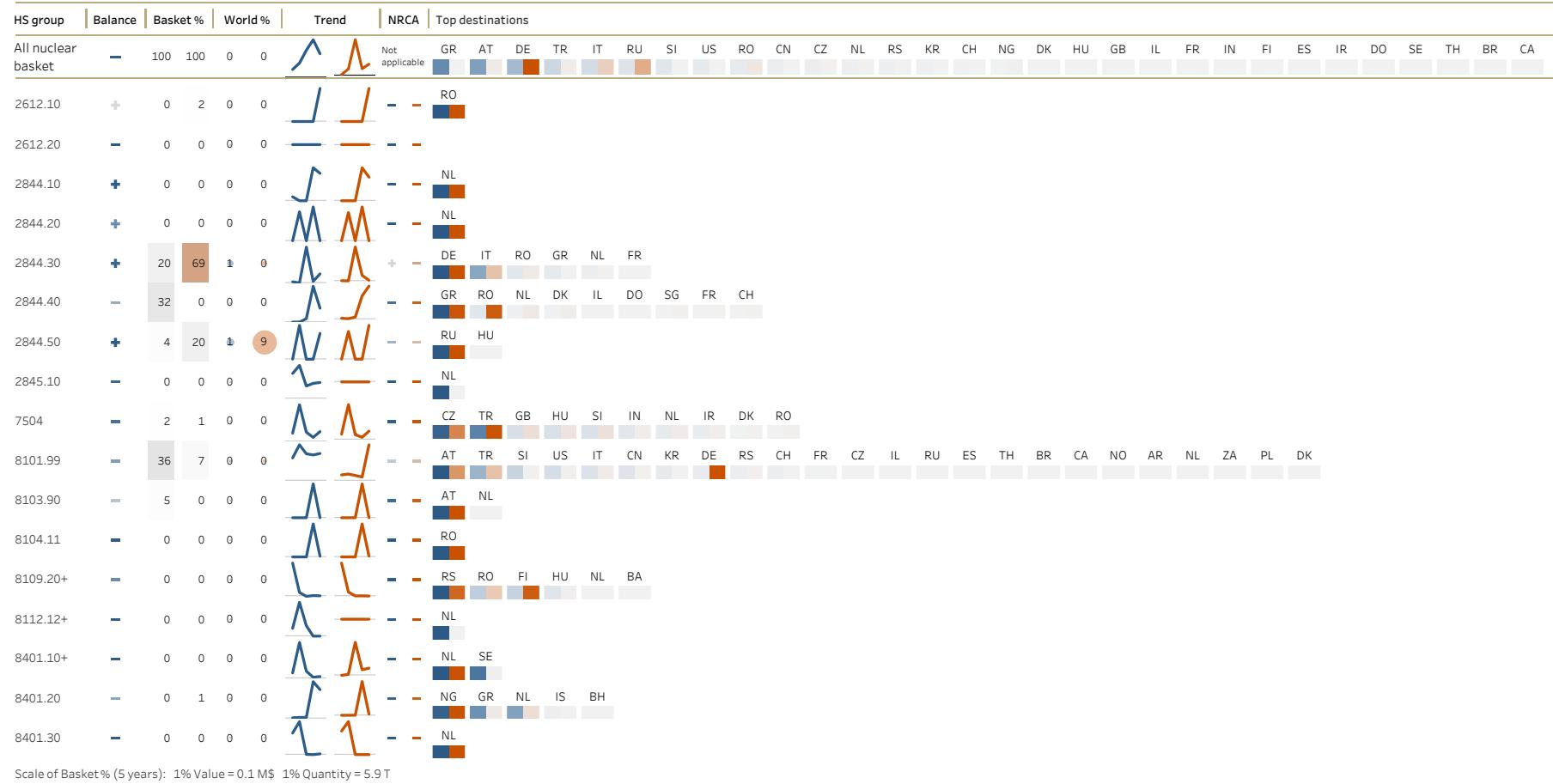


Figure 48: Bulgaria

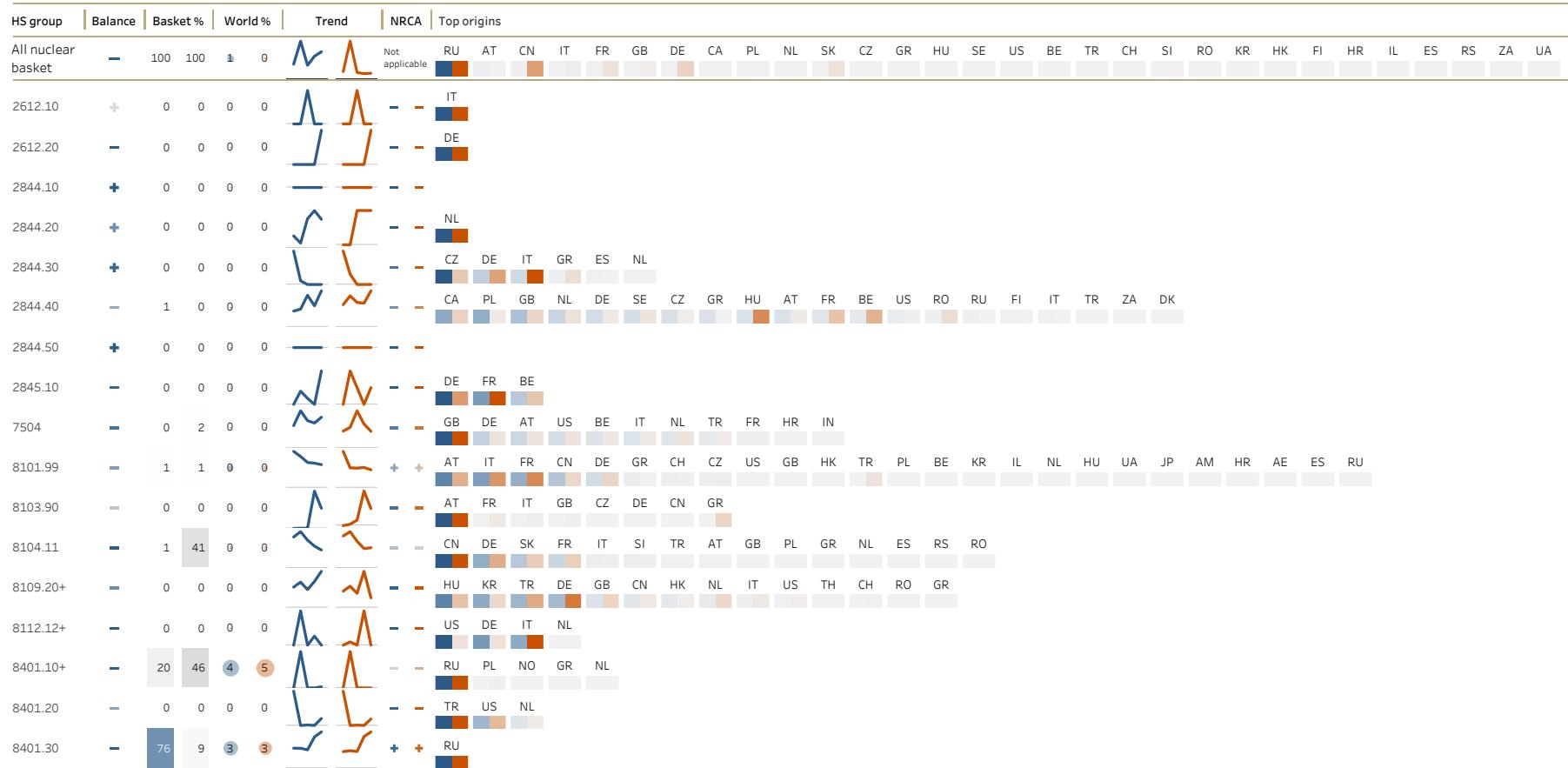


# Bulgaria

## Import

Years 2016-2020 BACI records: 313

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 6.3 M\$ 1% Quantity = 49.8 T



## Burkina Faso

### Export

Years 2016-2020 BACI records: 1

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion



Figure 49: Burkina Faso

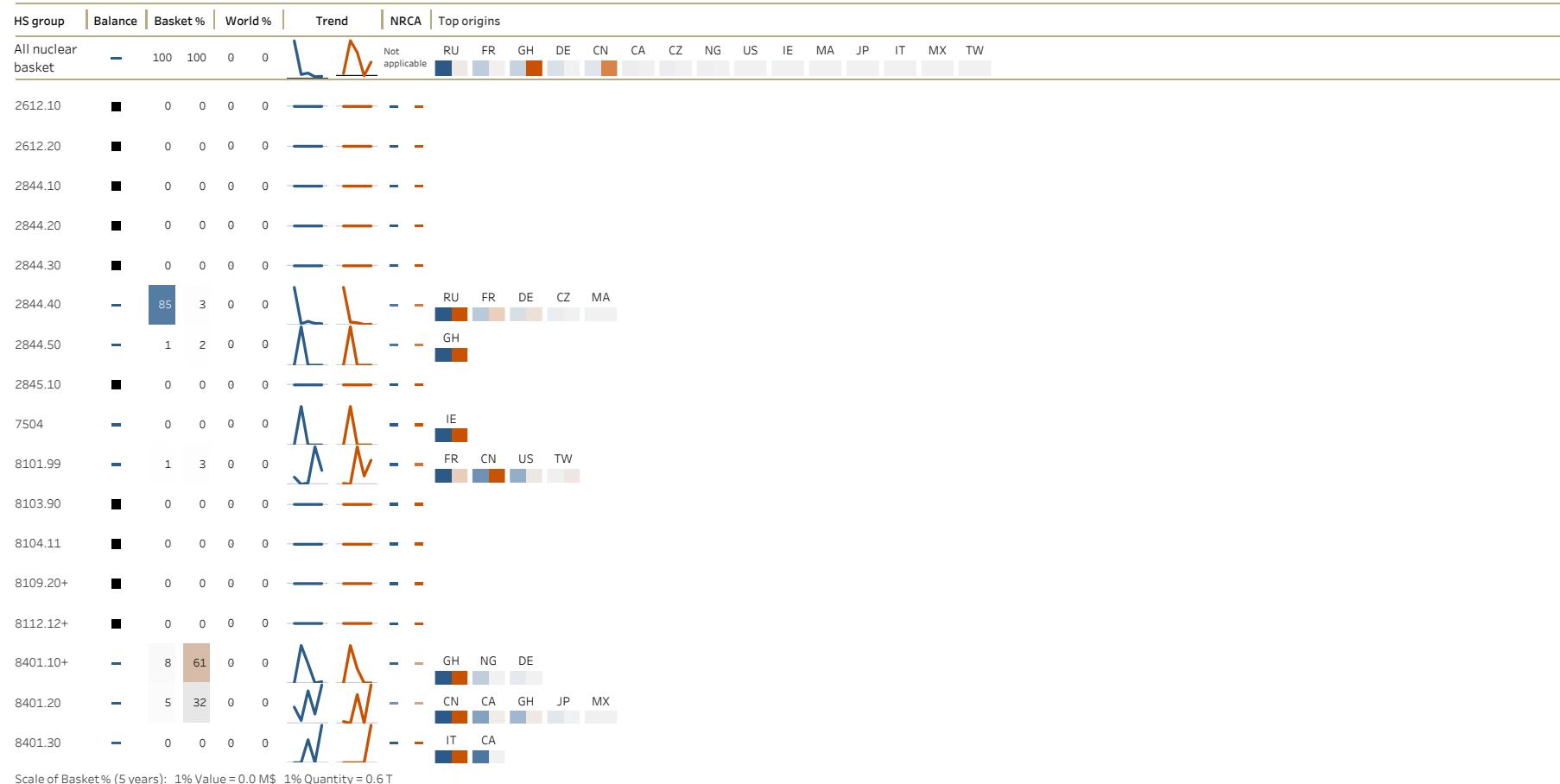


## Burkina Faso

### Import

Years 2016-2020 BACI records: 35

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion





## Cambodia

### Export

Years 2016-2020 BACI records: 3

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion

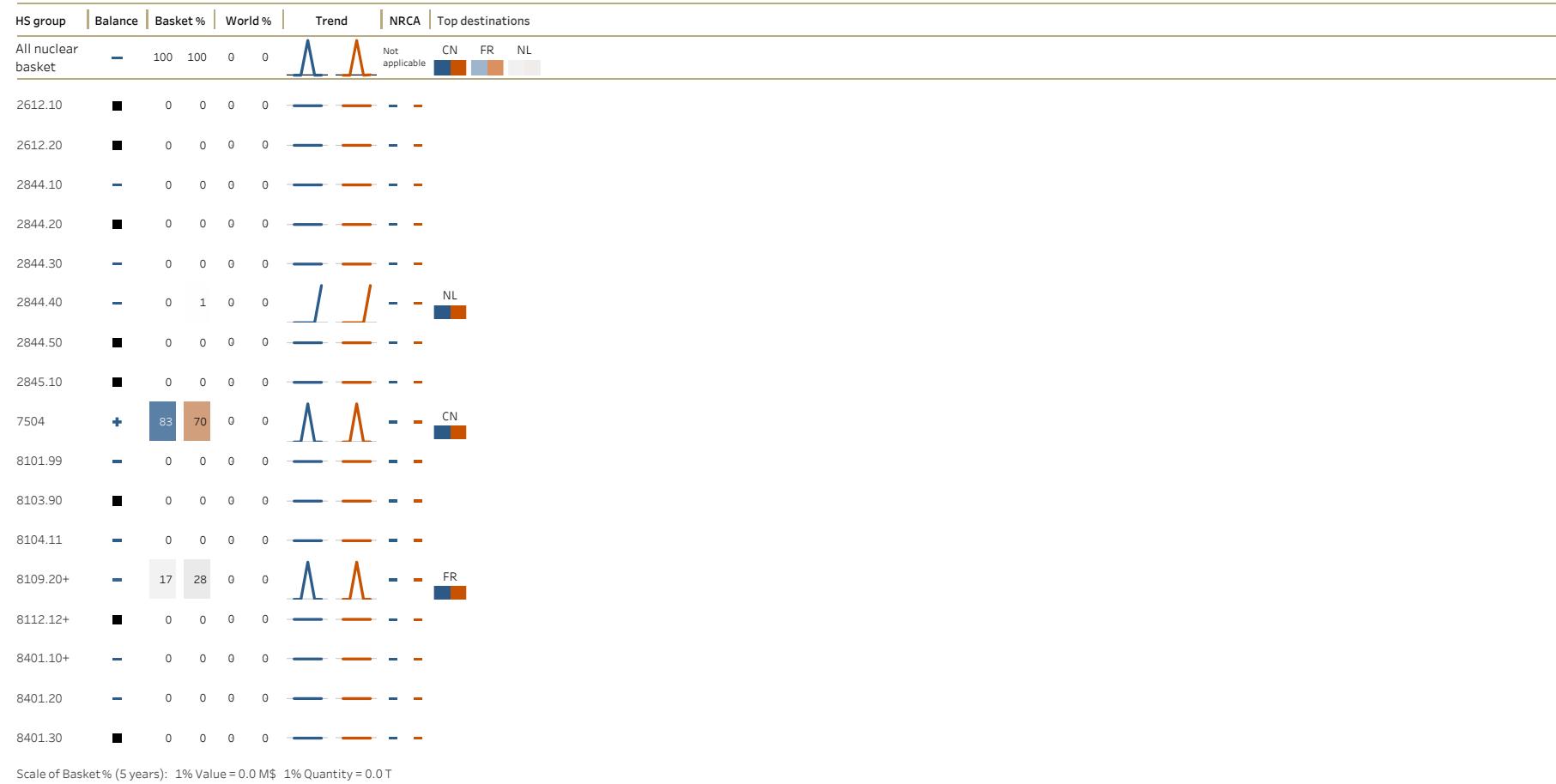


Figure 5c: Cambodia

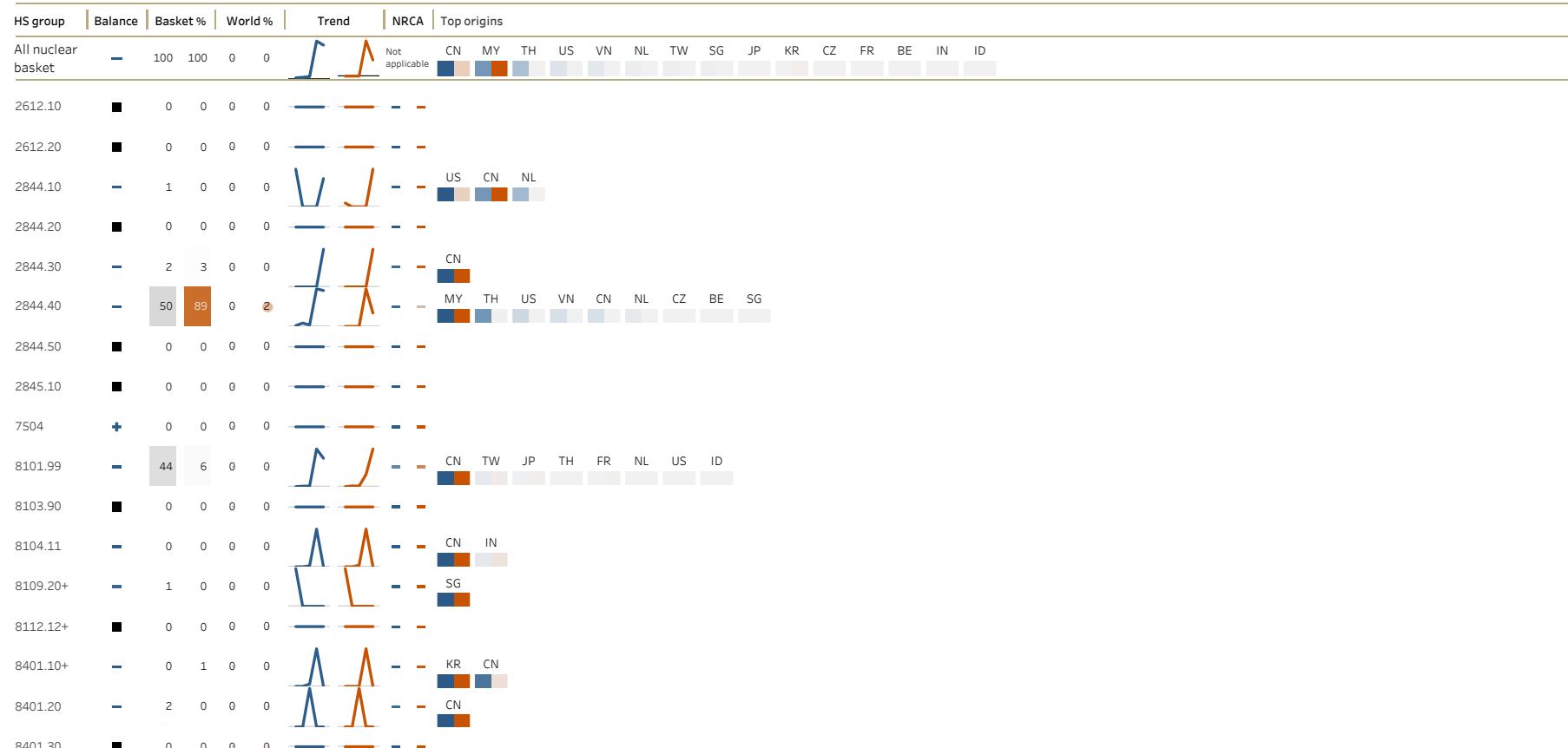


## Cambodia

### Import

Years 2016-2020 BACI records: 48

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 2.3 T

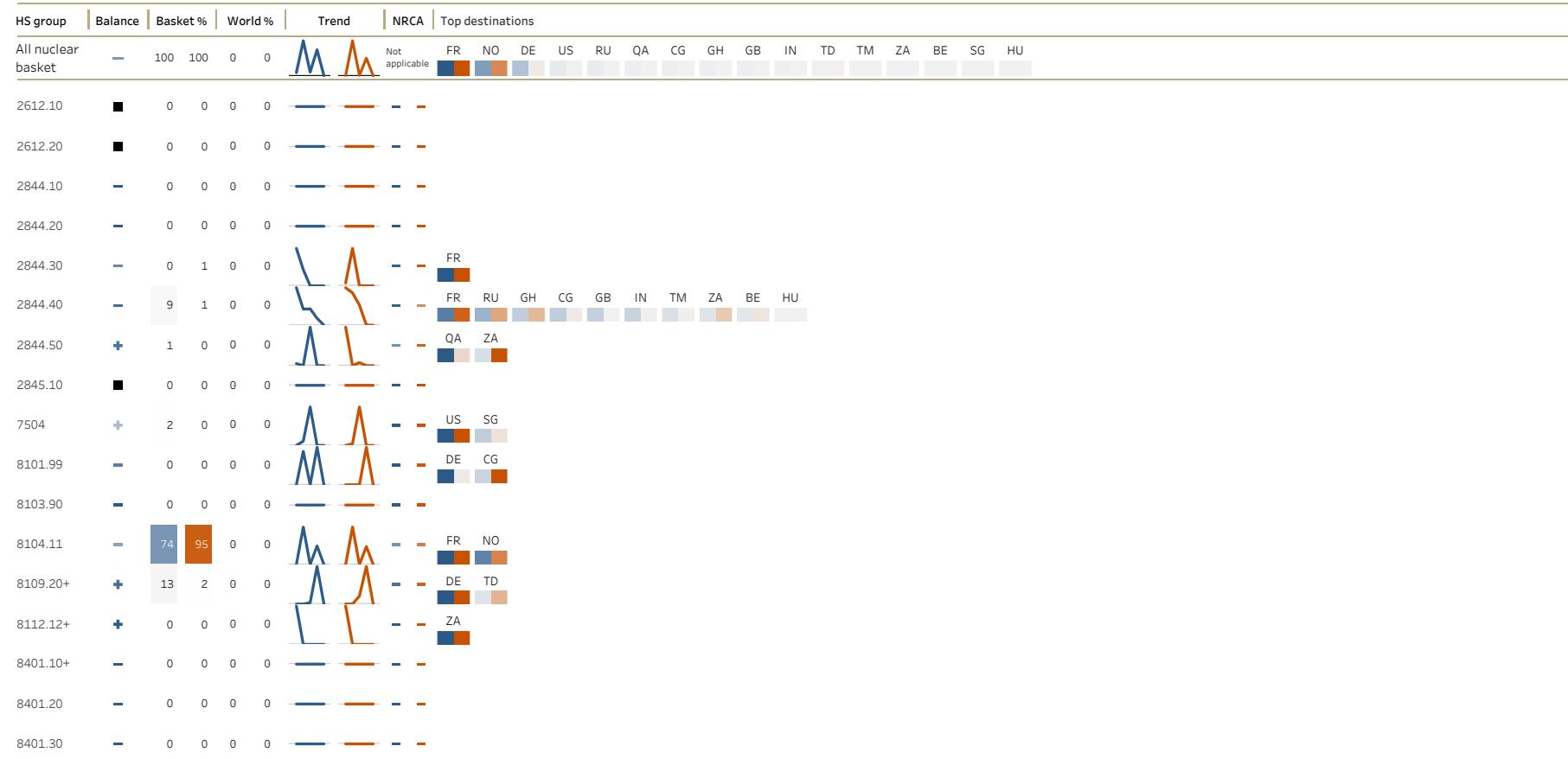


## Cameroon

### Export

Years 2016-2020 BACI records: 29

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 2.6 T

Figure 5r: Cameroon

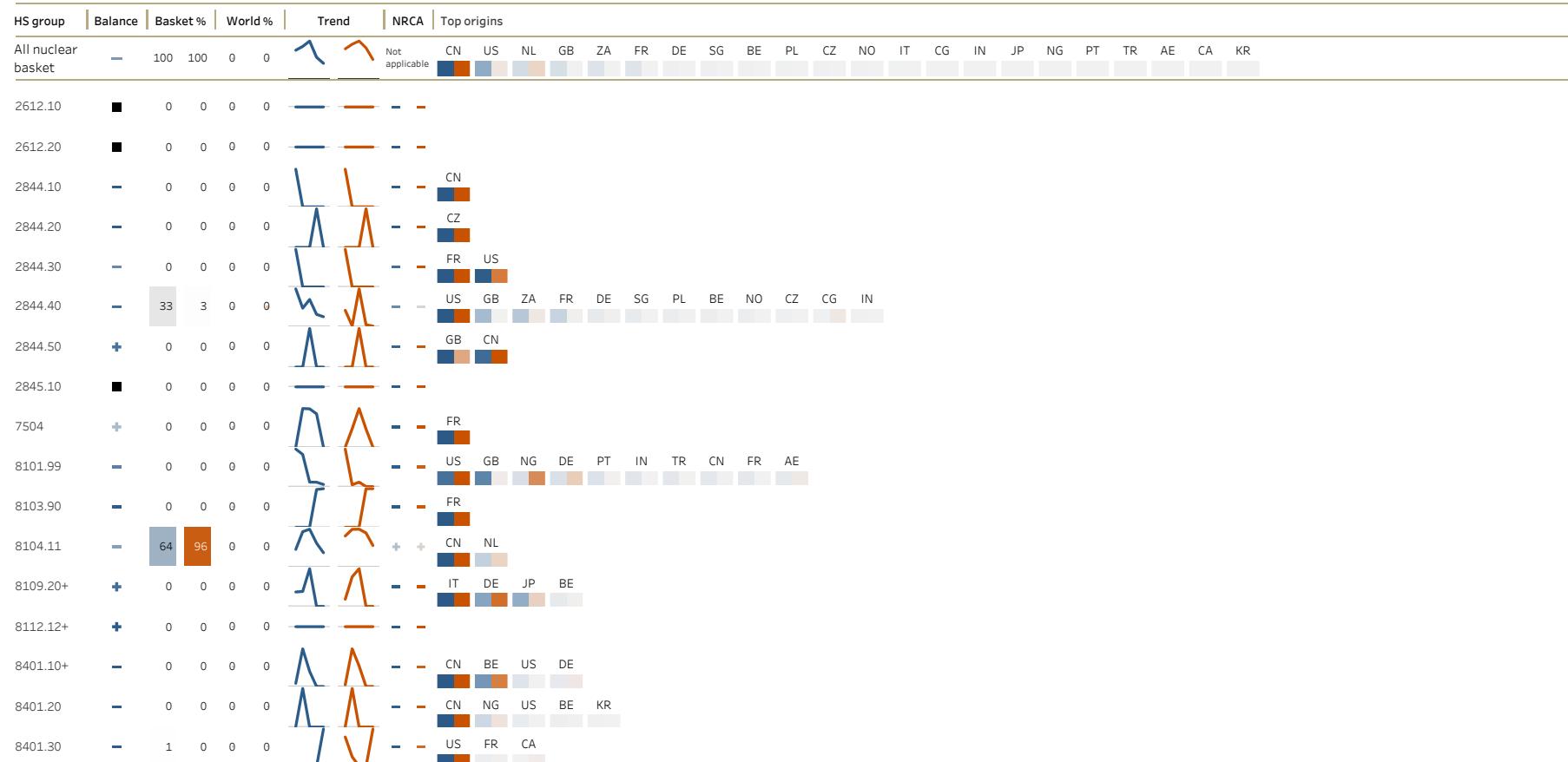


# Cameroon

## Import

Years 2016-2020 BACI records: 72

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 7.7 T

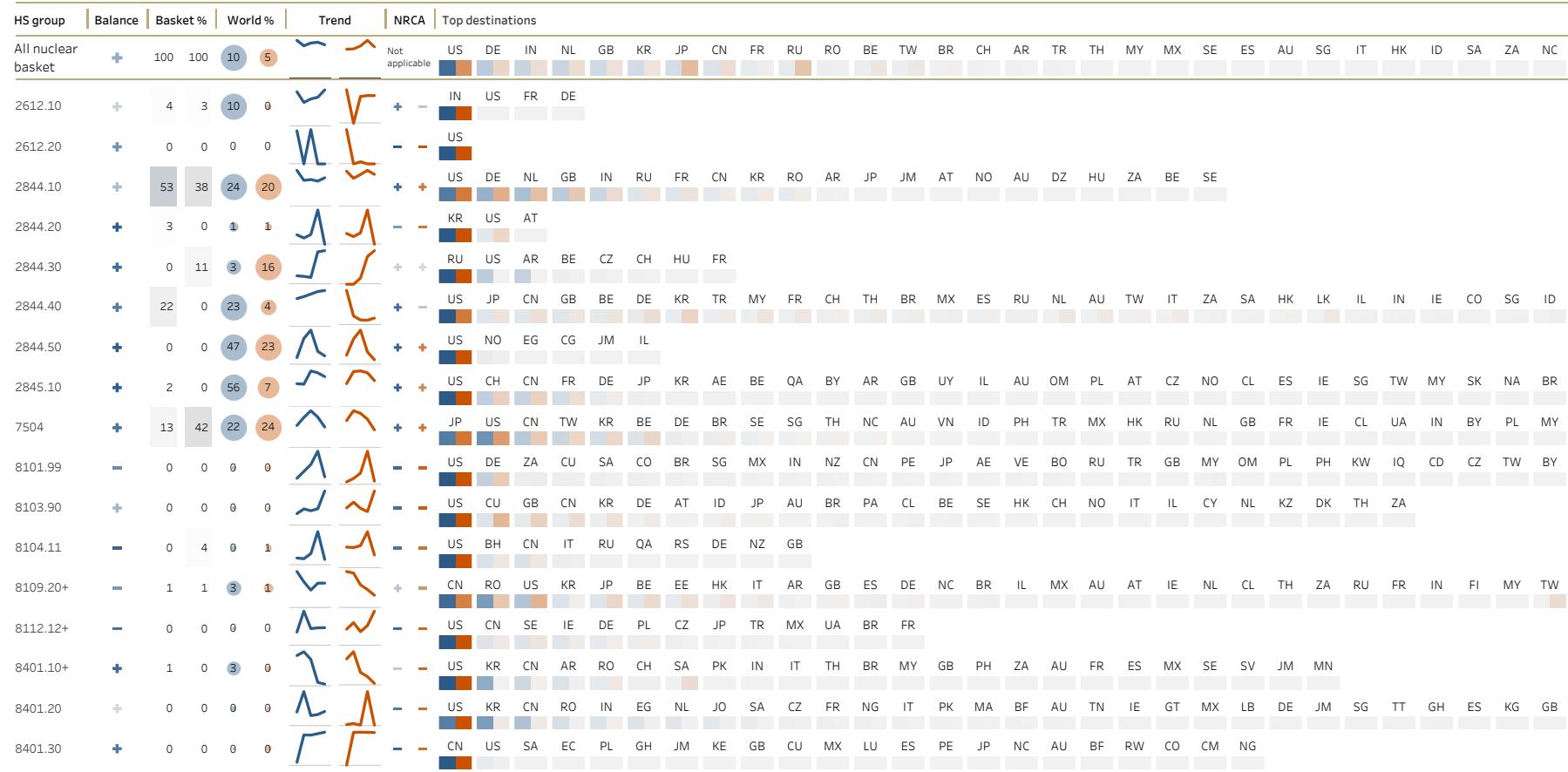


## Canada

### Export

Years 2016-2020 BACI records: 1,396

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 91.8 M\$ 1% Quantity = 1,712.0 T

Figure 52: Canada

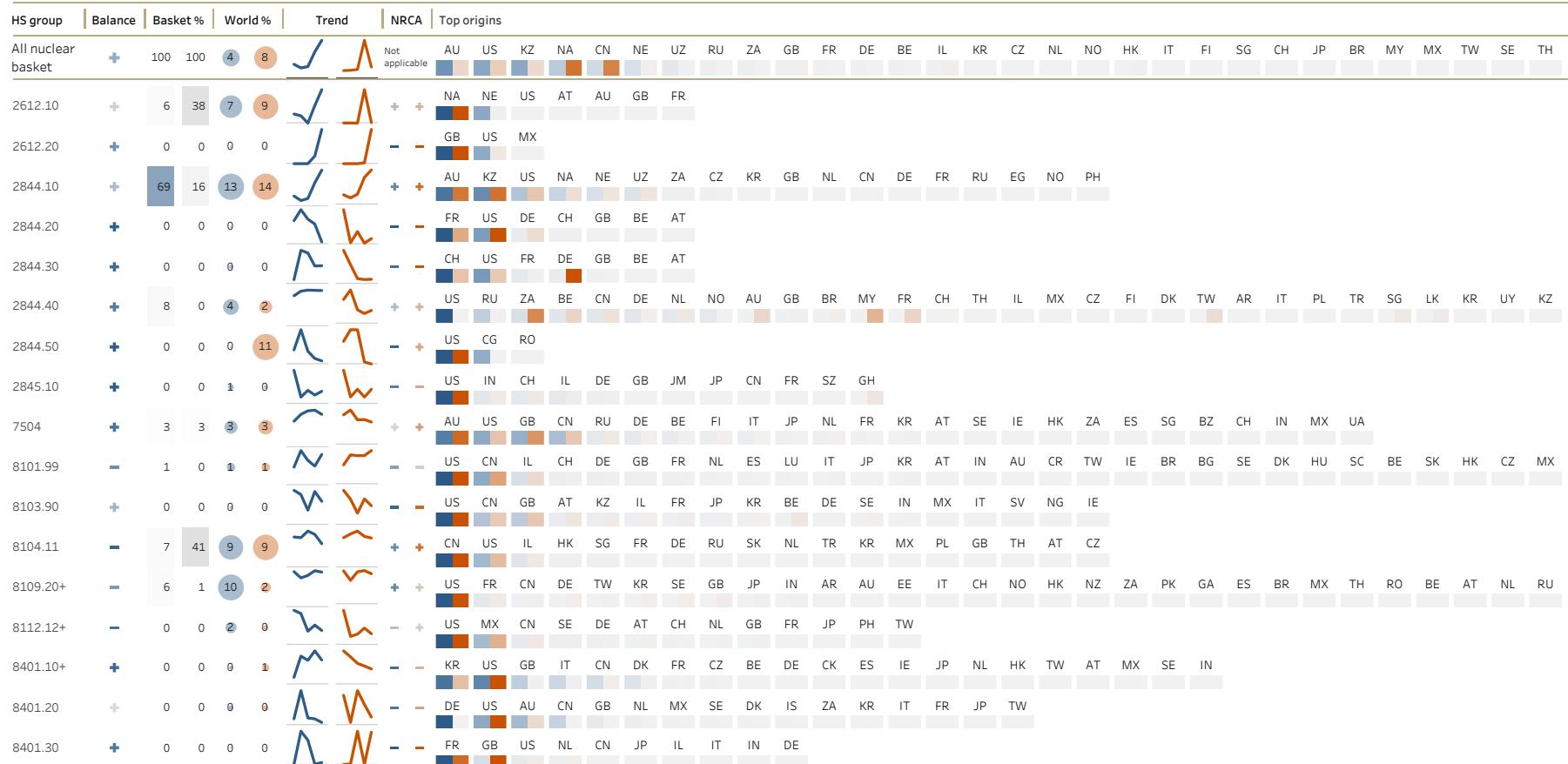


# Canada

## Import

Years 2016-2020 BACI records: 888

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 40.4 M\$ 1% Quantity = 2,794.0 T



## Cape Verde

### Export

Years 2016-2020 BACI records: 3

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: Signed IAEA AP:  
 Signed  
 IAEA BC: No broader conclusion

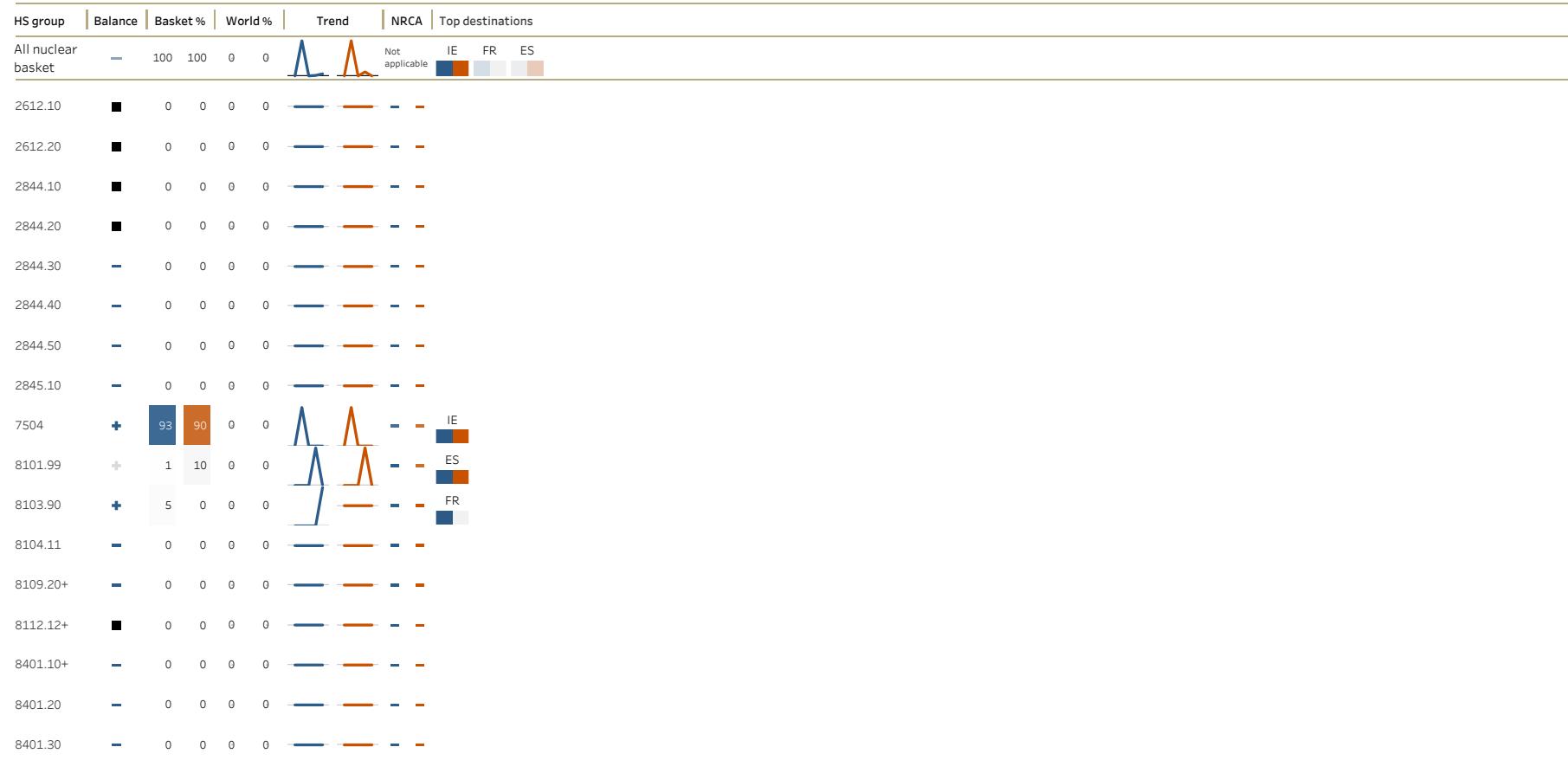


Figure 53: Cape Verde

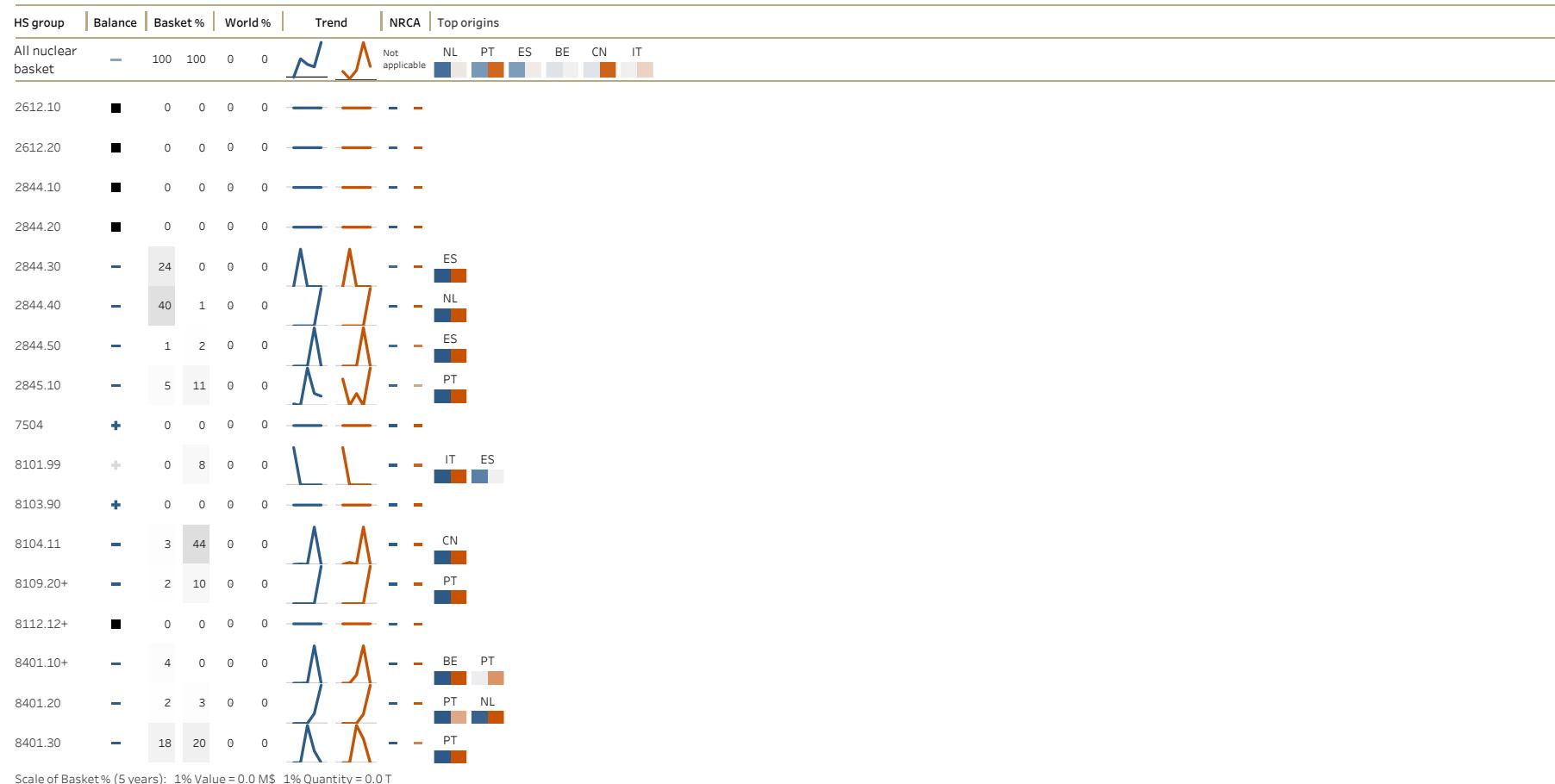


# Cape Verde

## Import

Years 2016-2020 BACI records: 20

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: Signed IAEA AP:  
 Signed  
 IAEA BC: No broader conclusion





Chad

Export

Years 2016-2020 BACI records: 4

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion

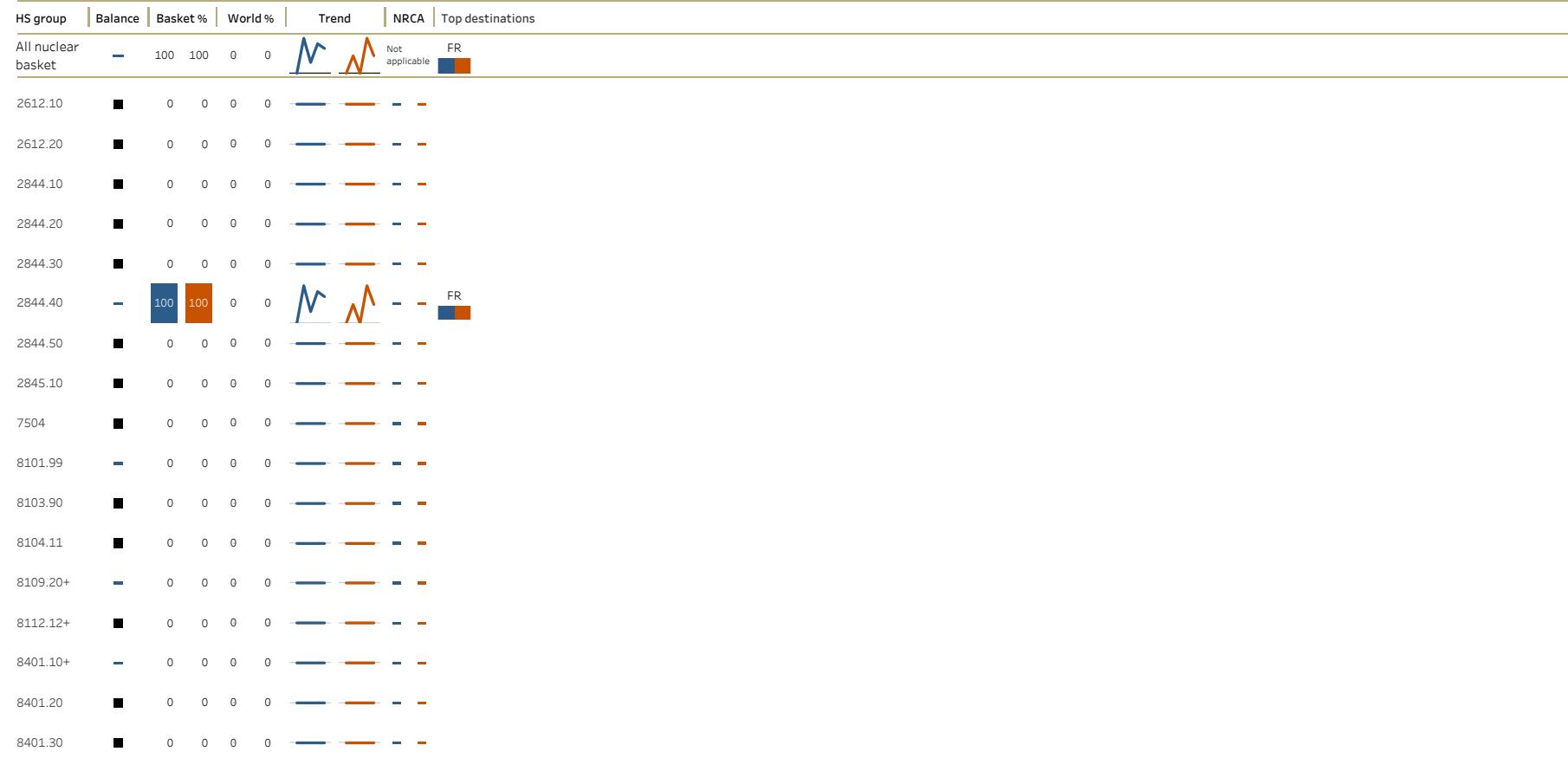


Figure 54: Chad

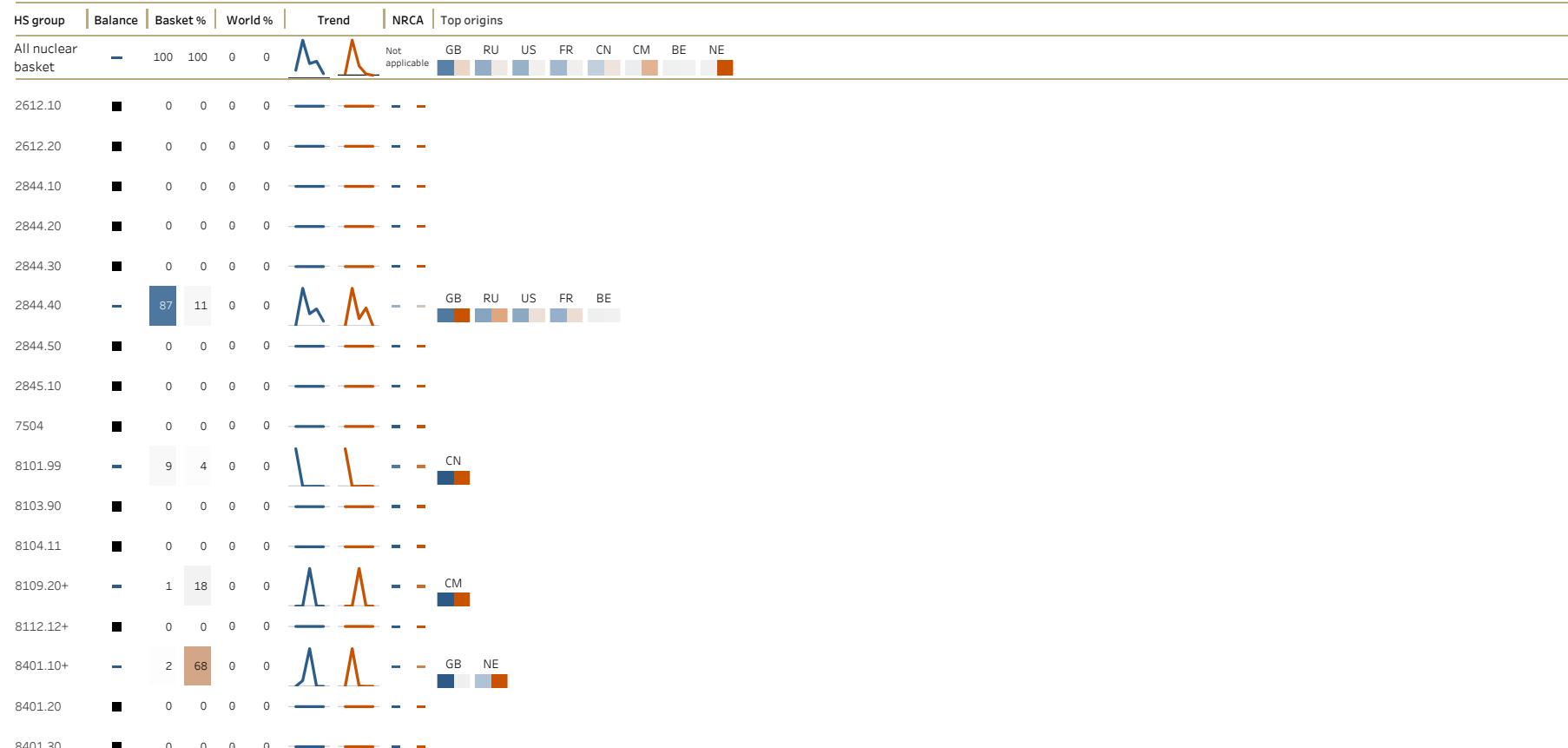


## Chad

### Import

Years 2016-2020 BACI records: 16

NPT: Party NSG: –  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
force  
IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.1 T



## Chile

### Export

Years 2016-2020 BACI records: 35

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

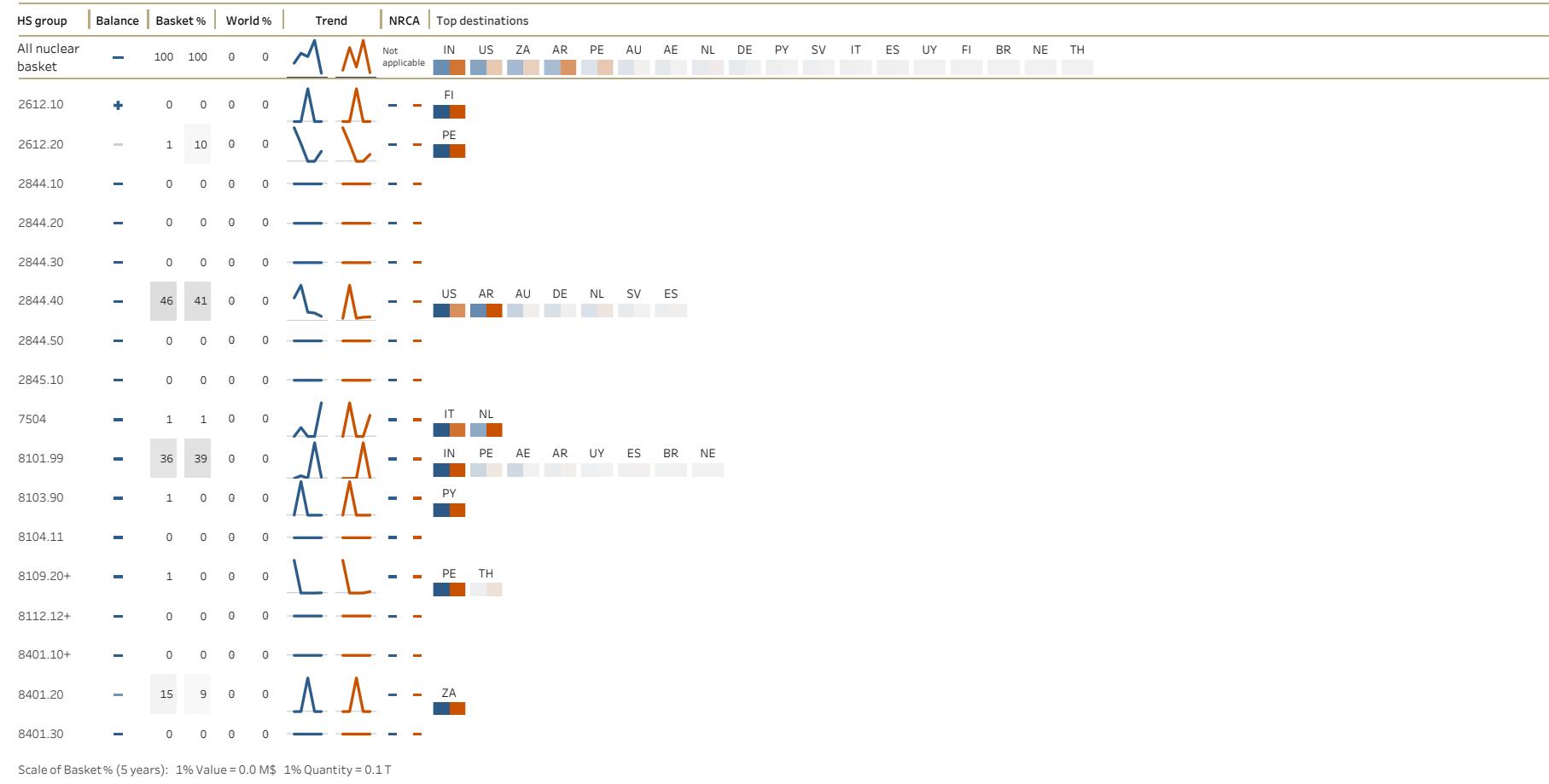


Figure 55: Chile

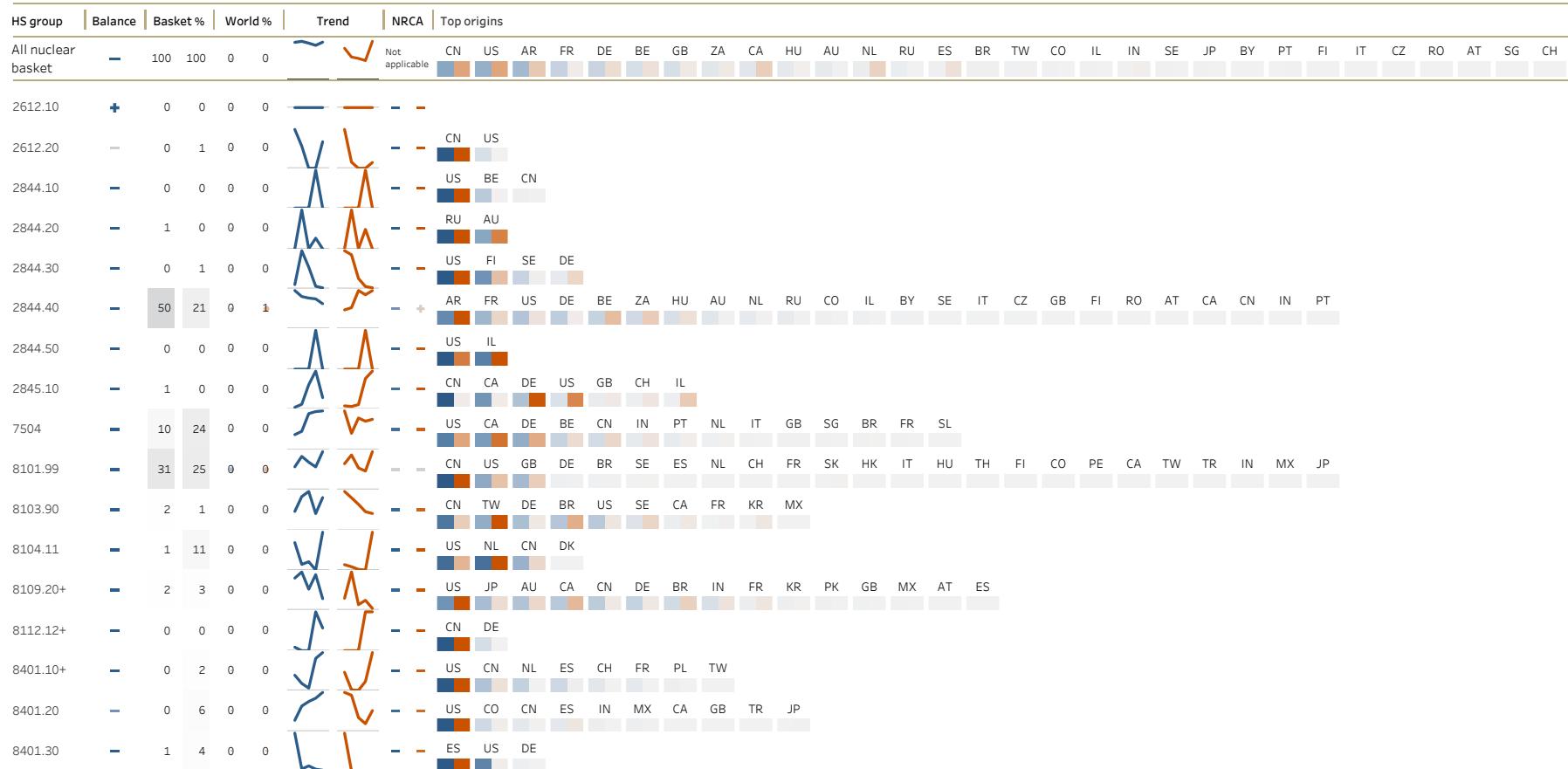


# Chile

## Import

Years 2016-2020 BACI records: 344

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.2 M\$ 1% Quantity = 3.0 T

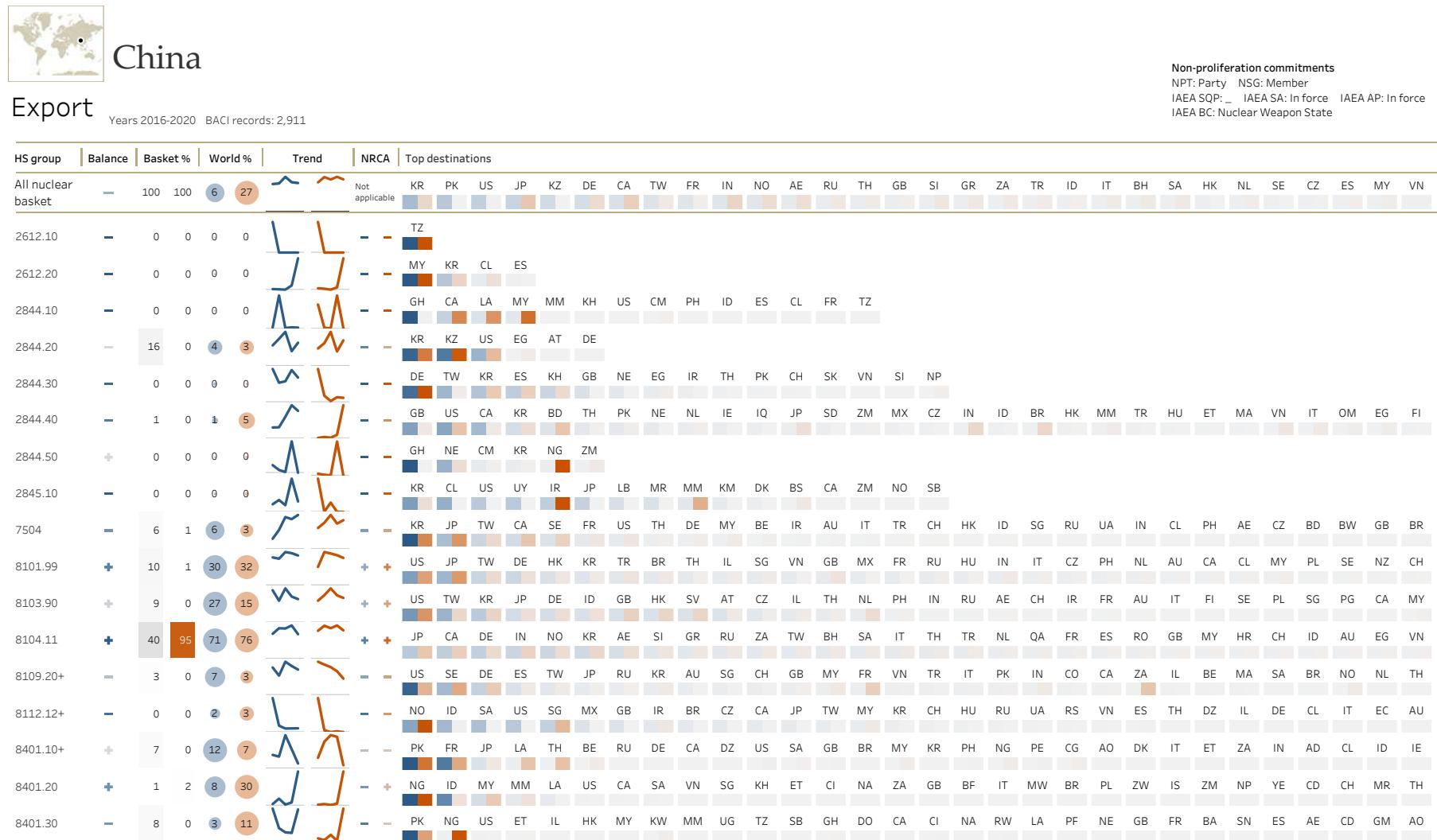


Figure 56: China

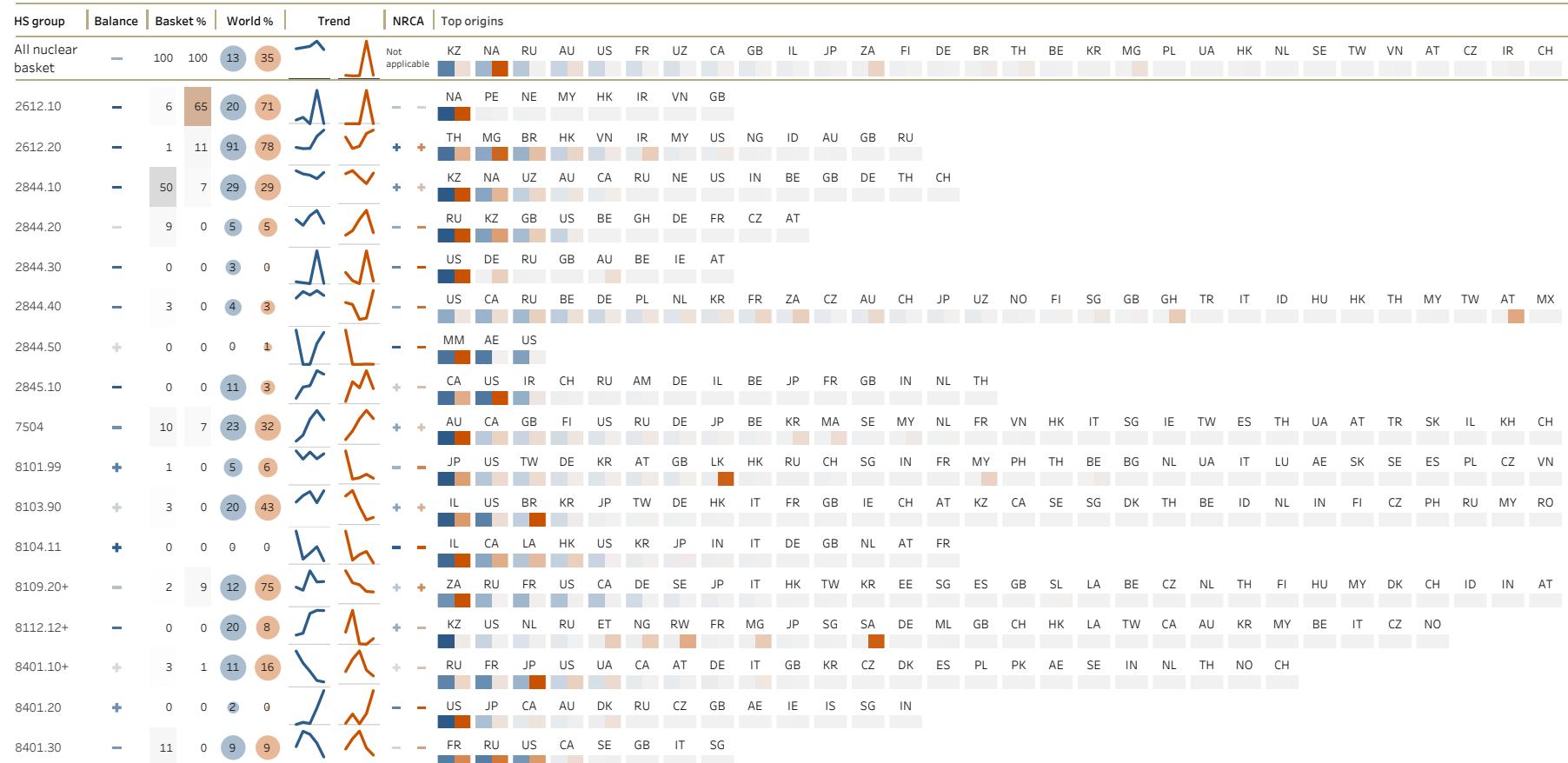


# China

## Import

Years 2016-2020 BACI records: 1,169

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Nuclear Weapon State



Scale of Basket% (5 years): 1% Value = 121.9 M\$ 1% Quantity = 12,568.3 T



## Colombia

### Export

Years 2016-2020 BACI records: 74

**Non-proliferation commitments**  
 NPT: Party NSG:—  
 IAEA SQP:— IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion

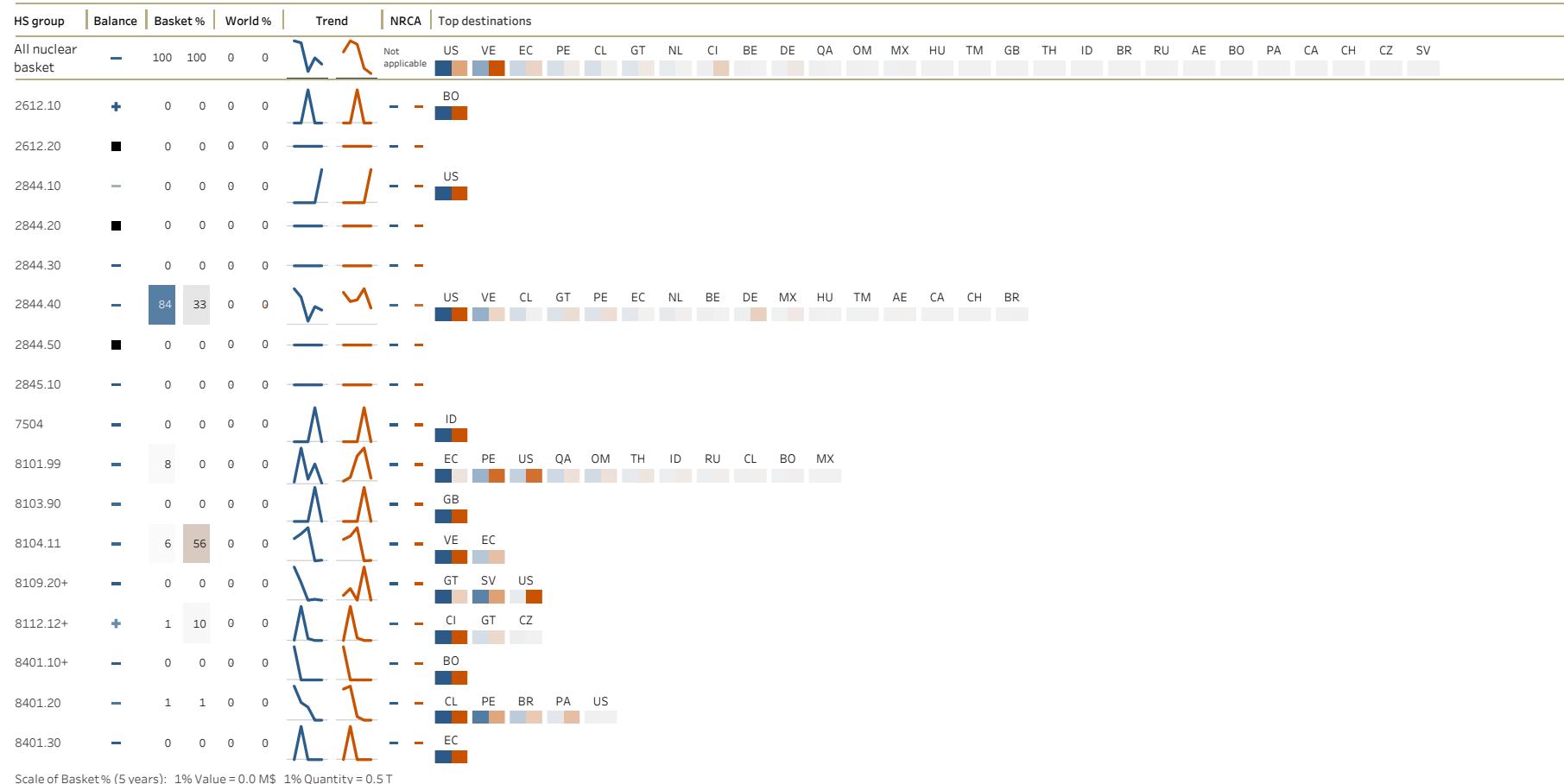


Figure 57. Colombia

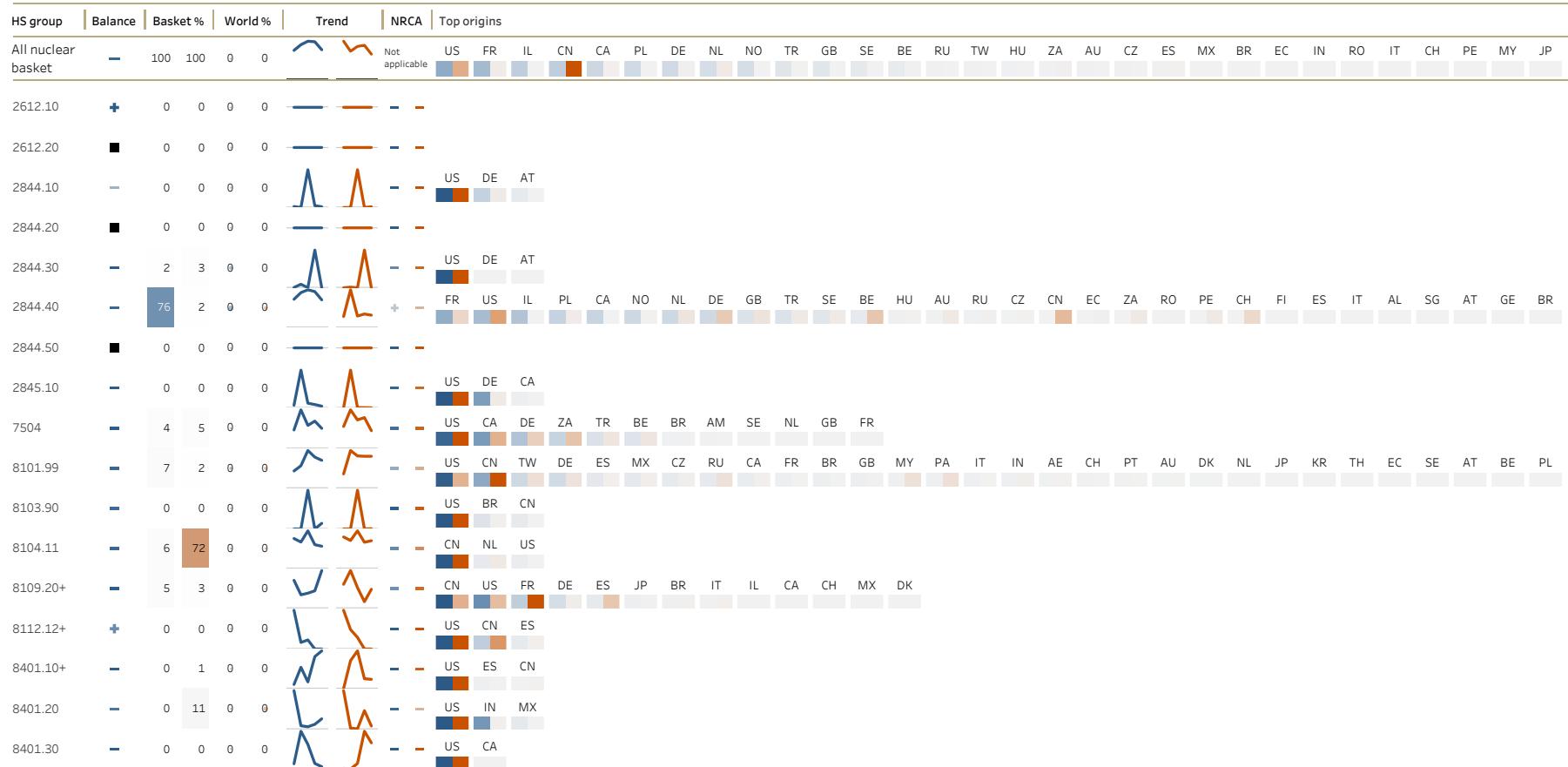


# Colombia

## Import

Years 2016-2020 BACI records: 313

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.4 M\$ 1% Quantity = 13.2 T



## Congo

### Export

Years 2016-2020 BACI records: 30

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion

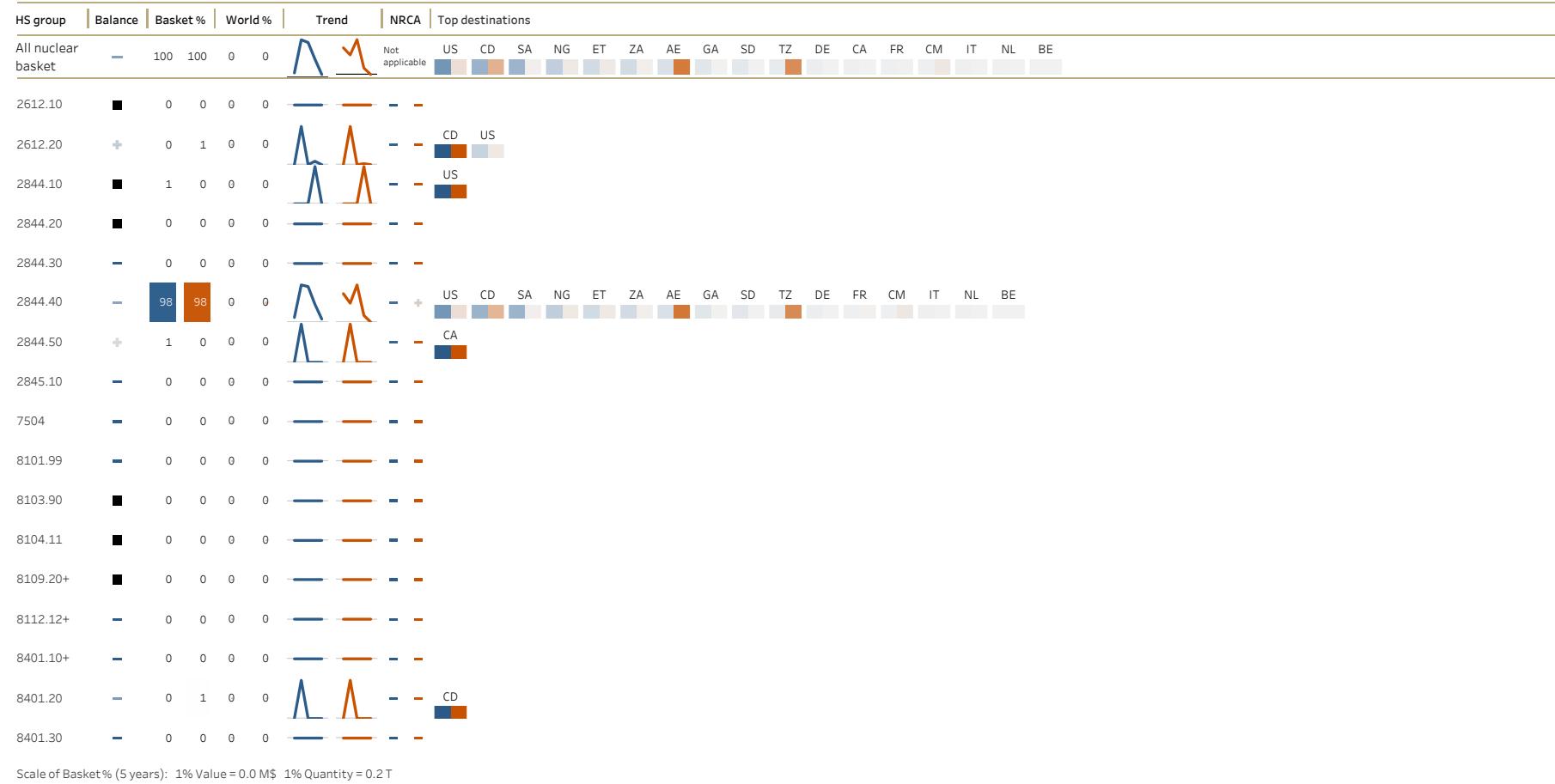


Figure 58: Congo

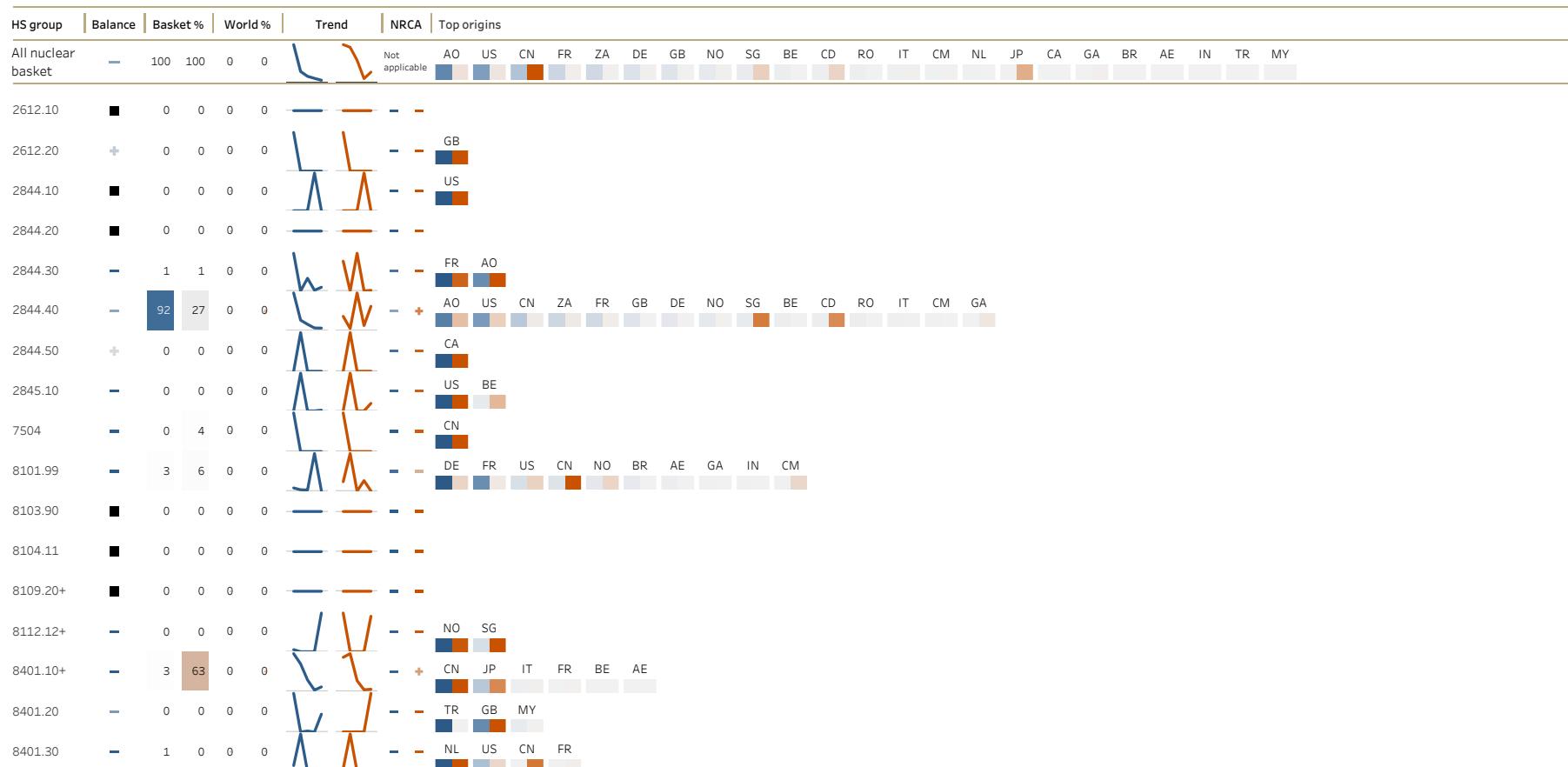


# Congo

## Import

Years 2016-2020 BACI records: 85

NPT: Party NSG: \_  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
force  
IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.8 T



Figure 59: Costa Rica

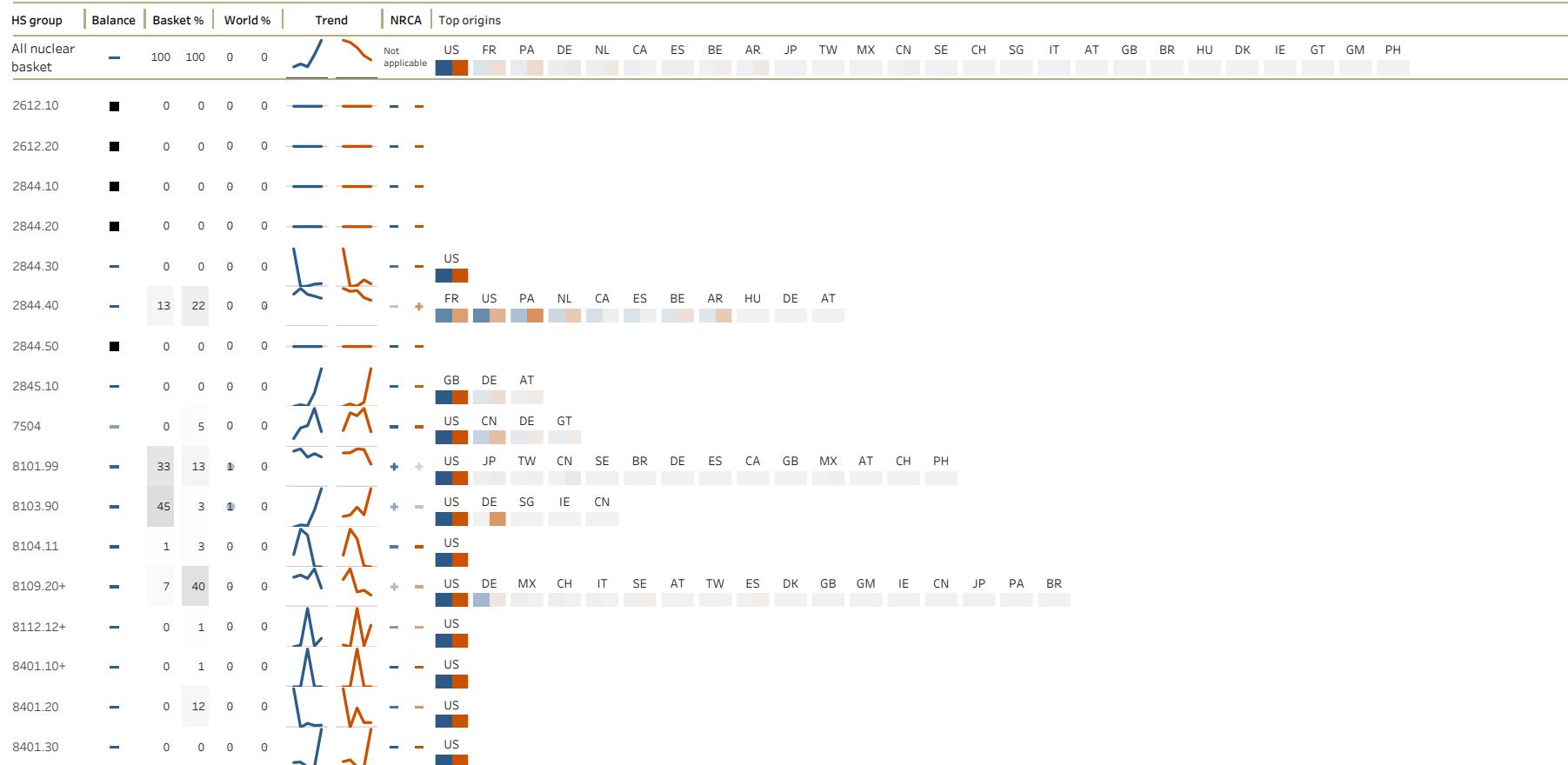


# Costa Rica

## Import

Years 2016-2020 BACI records: 167

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.5 M\$ 1% Quantity = 1.2 T



## Côte d'Ivoire

### Export

Years 2016-2020 BACI records: 13

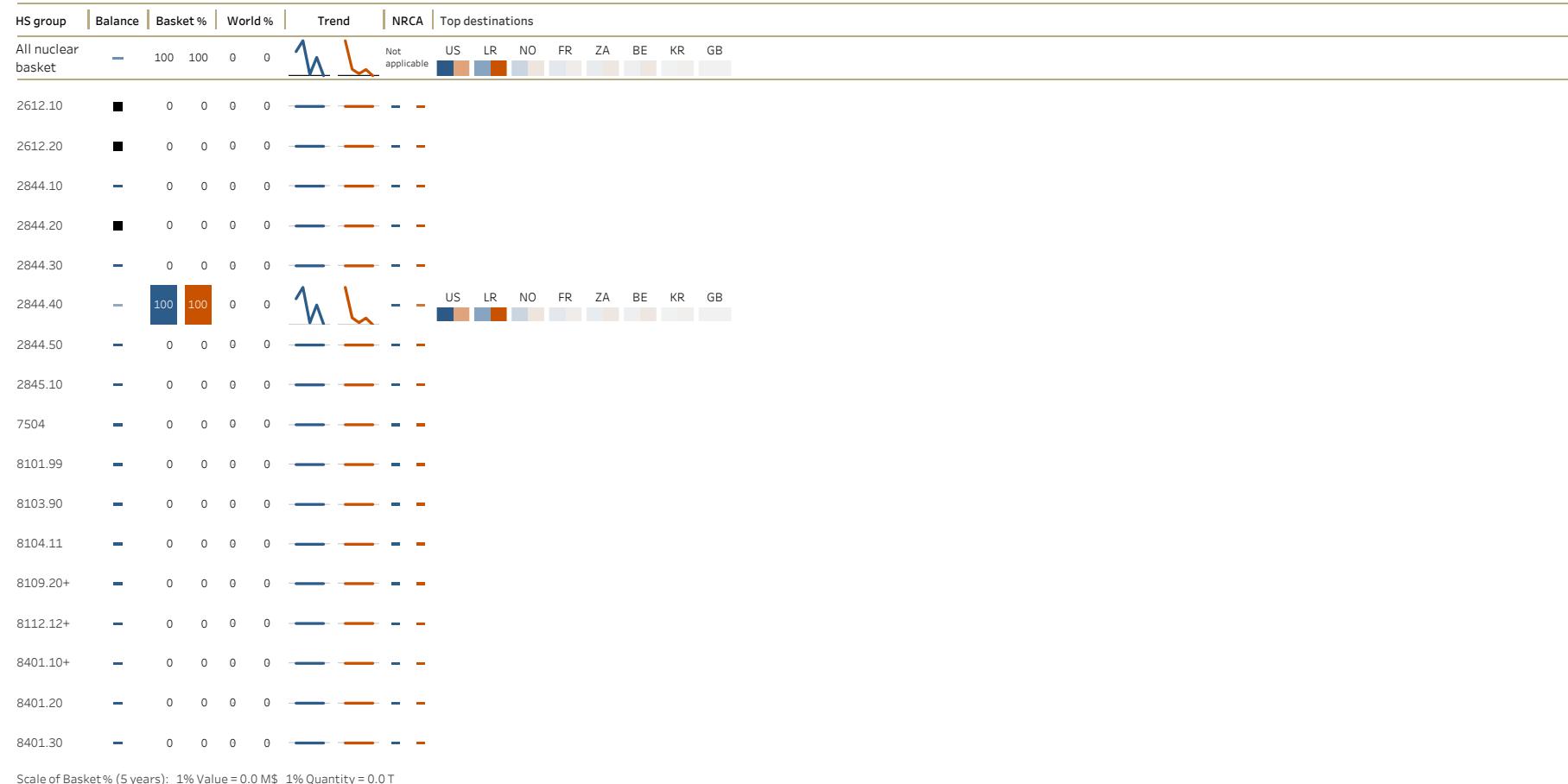


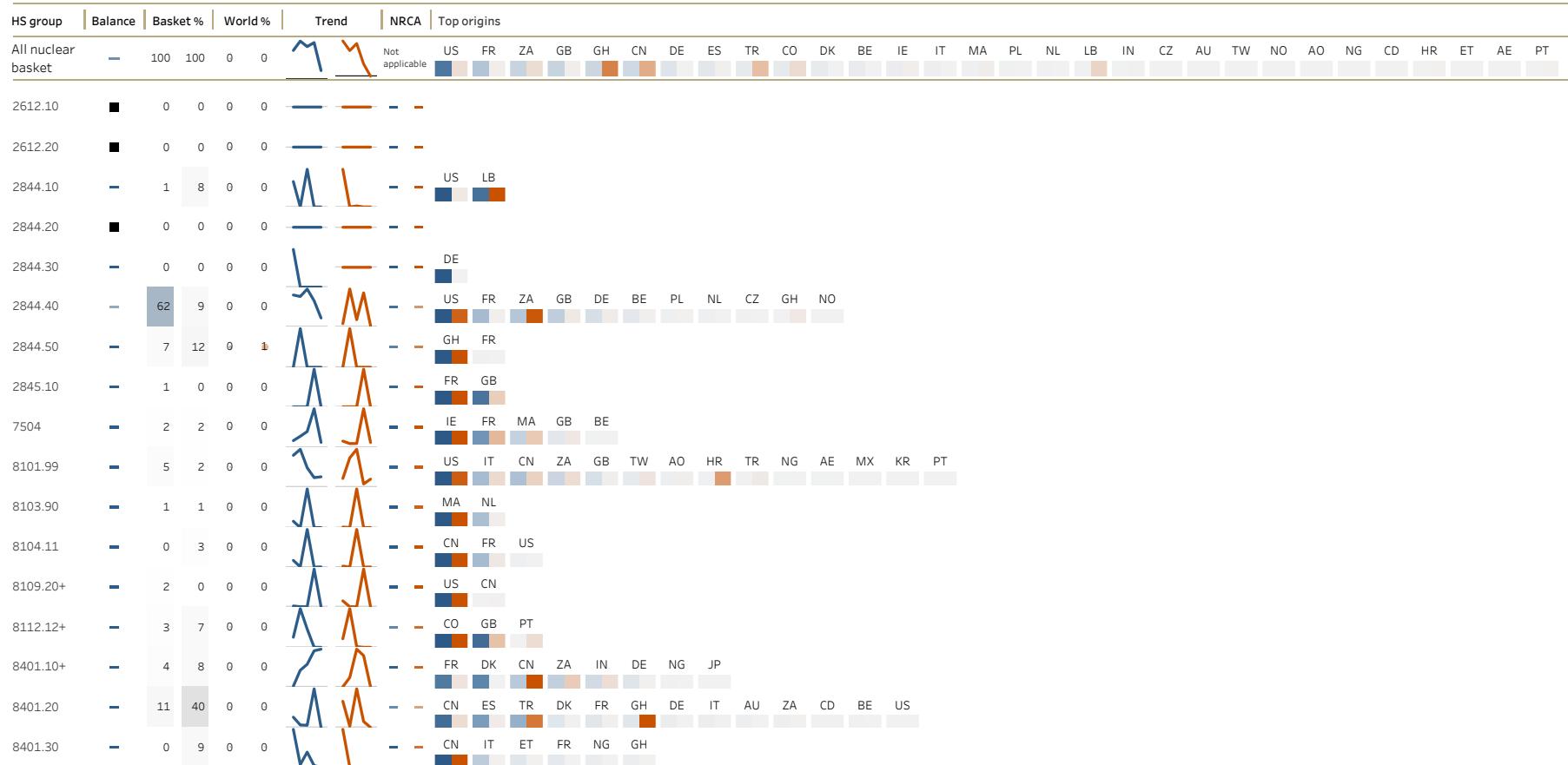
Figure 60: Côte d'Ivoire



## Côte d'Ivoire

### Import

Years 2016-2020 BACI records: 120





## Croatia

### Export

Years 2016-2020 BACI records: 206

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion

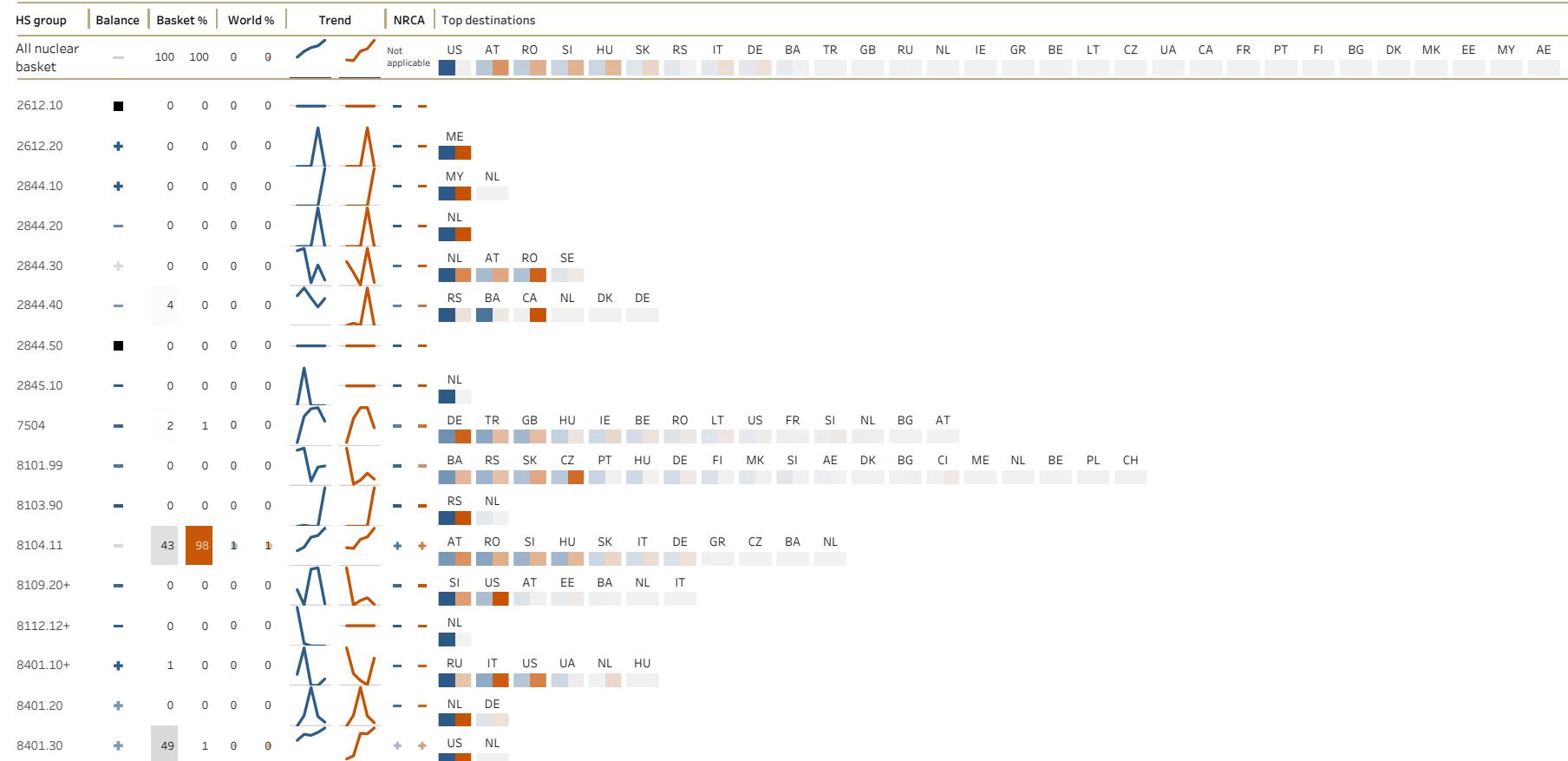


Figure 61. Croatia

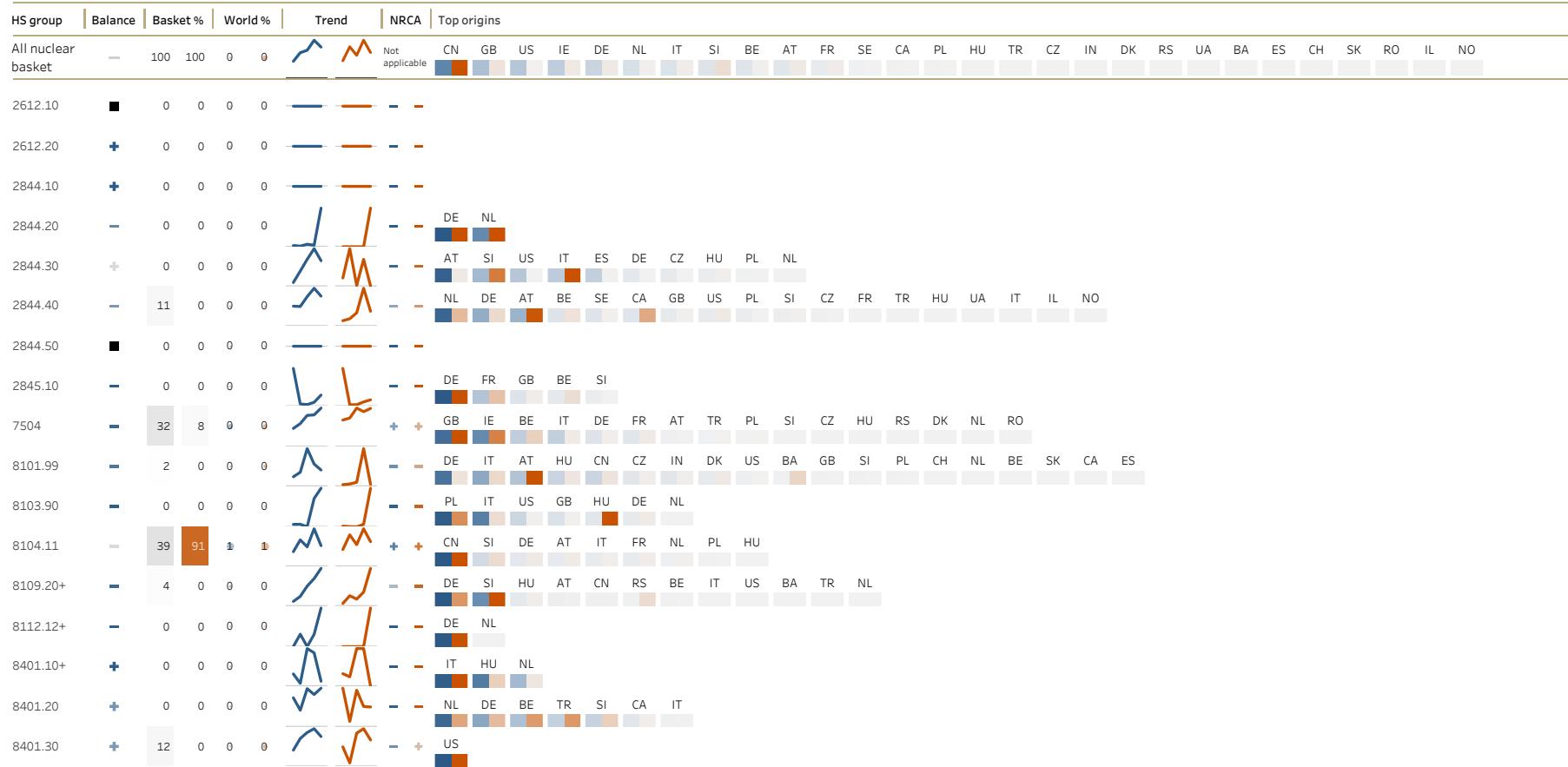


# Croatia

## Import

Years 2016-2020 BACI records: 326

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.6 M\$ 1% Quantity = 118.1 T



Figure 62: Cuba

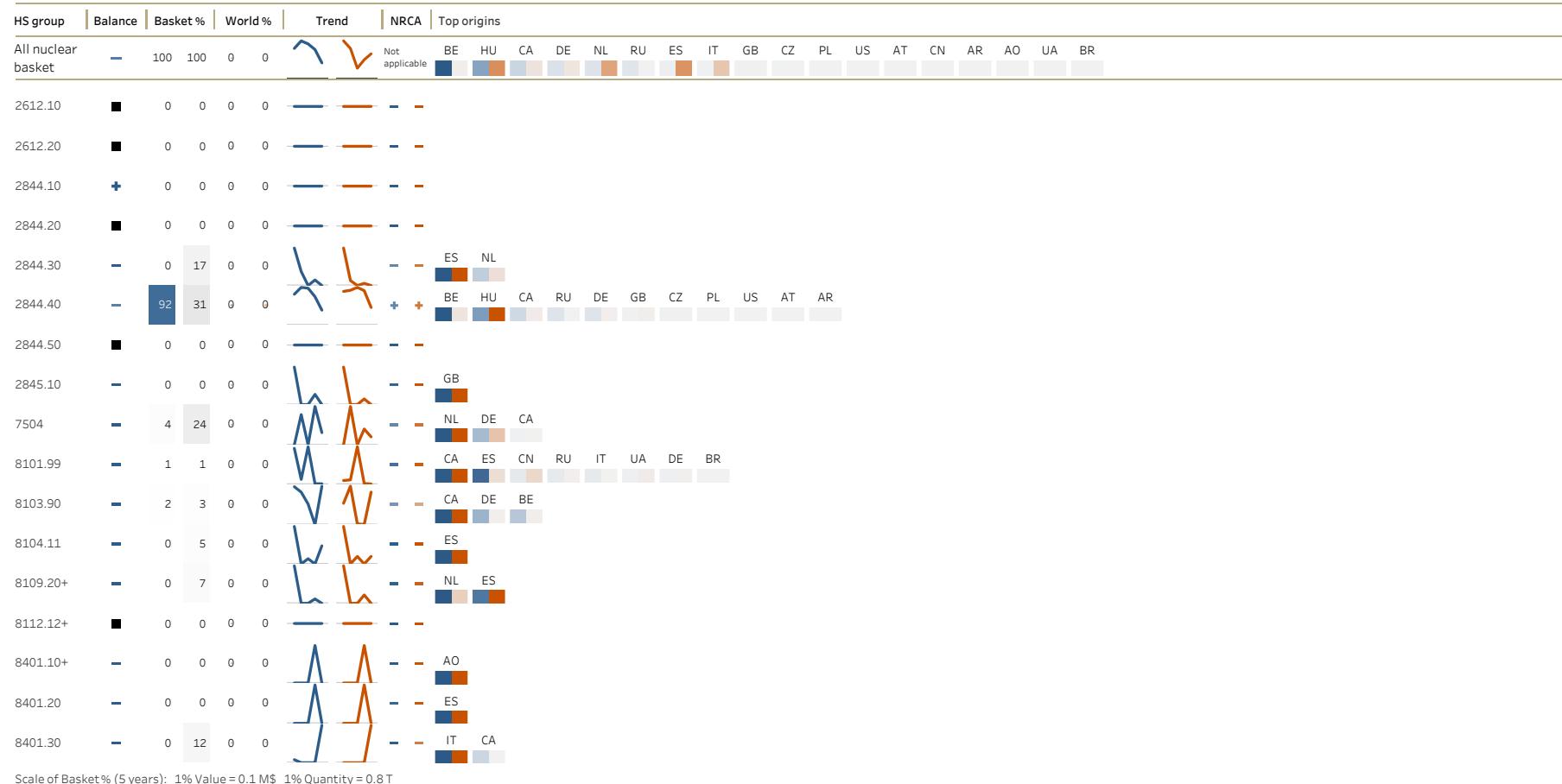


# Cuba

## Import

Years 2016-2020 BACI records: 66

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion





## Cyprus

### Export

Years 2016-2020 BACI records: 42

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: In force IAEA SA: In force IAEA AP: Accession  
 IAEA BC: No broader conclusion

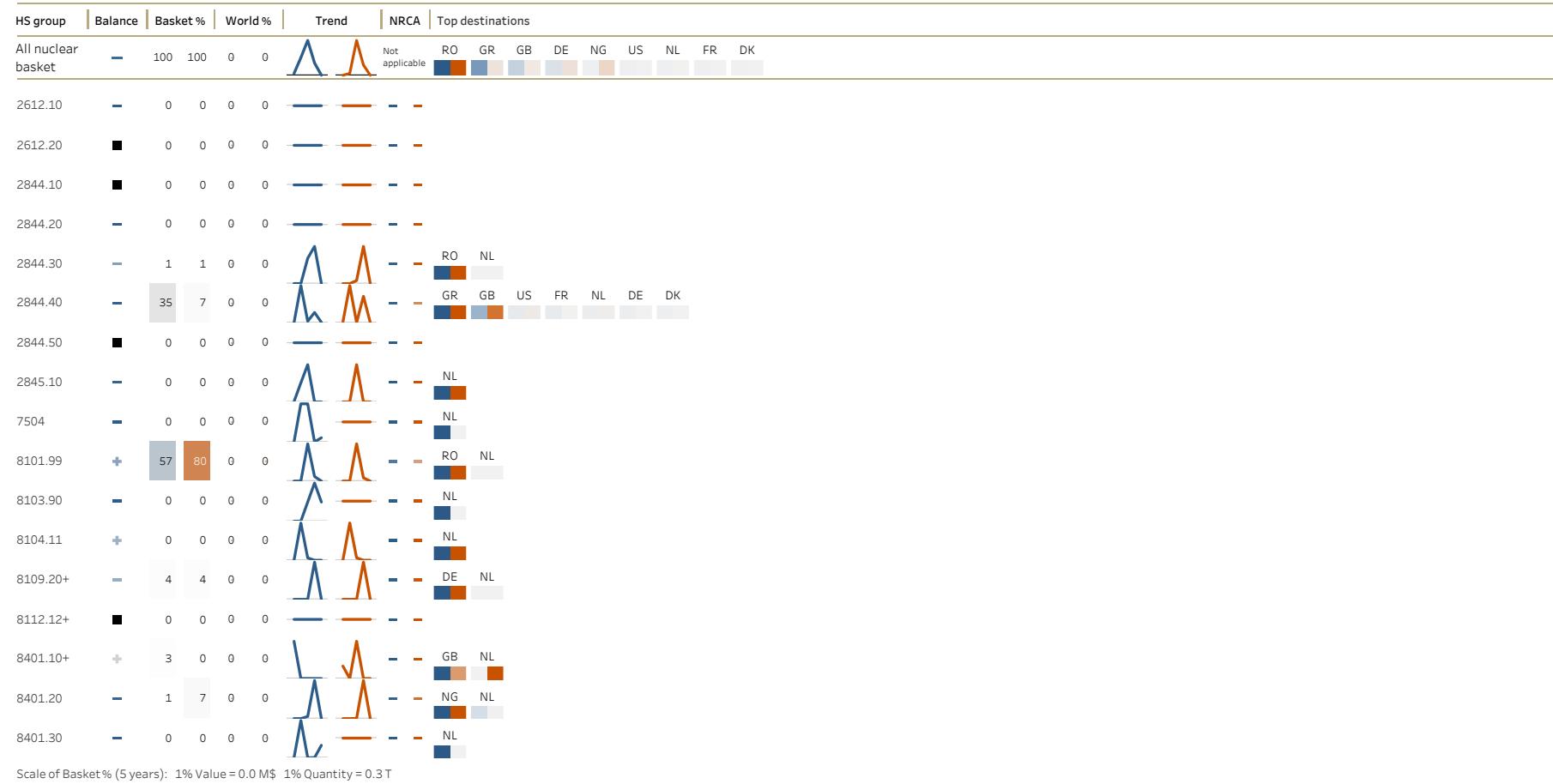


Figure 63: Cyprus

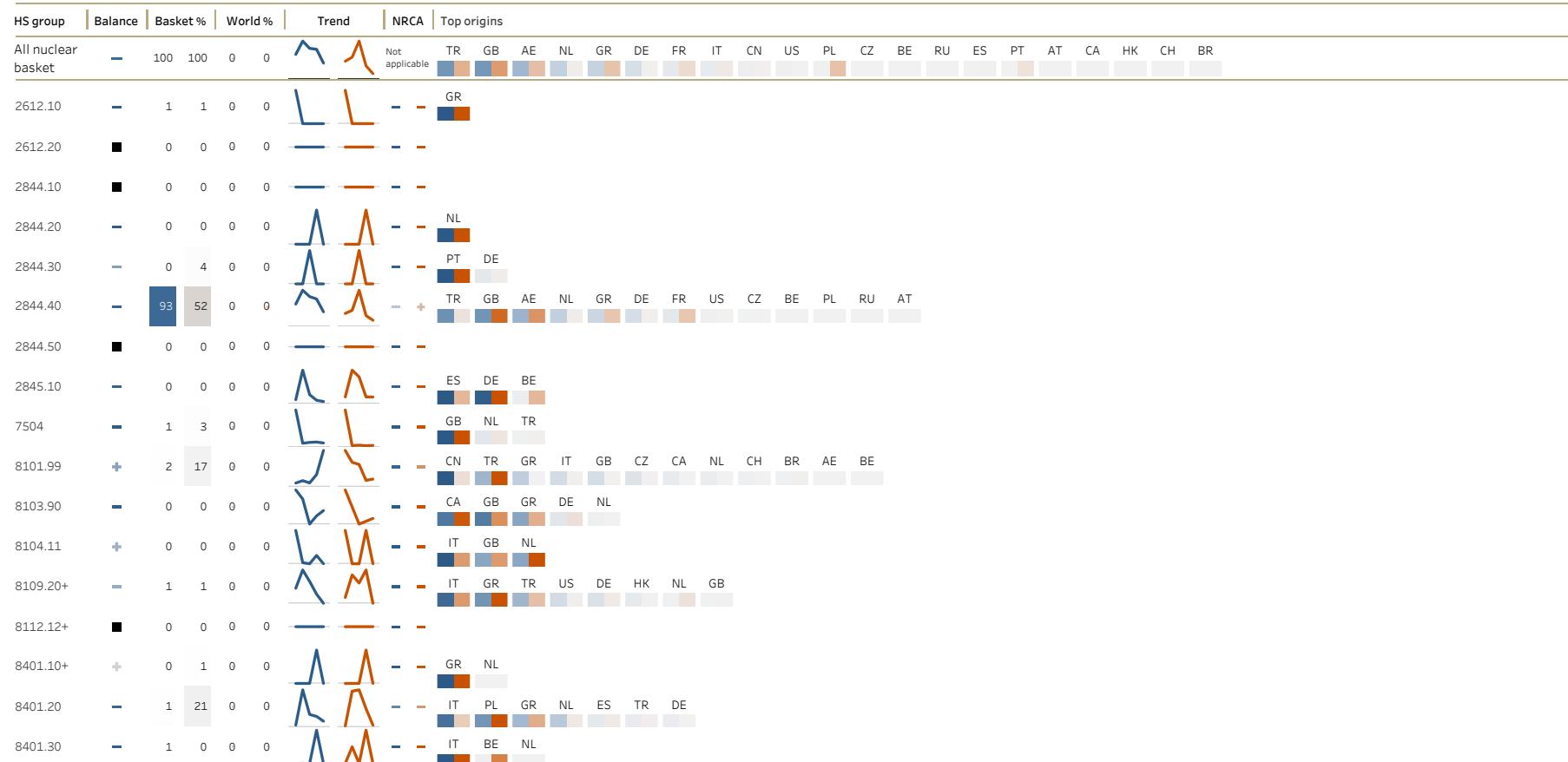


# Cyprus

## Import

Years 2016-2020 BACI records: 153

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: In force IAEA SA: In force IAEA AP: Accession  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.3 T

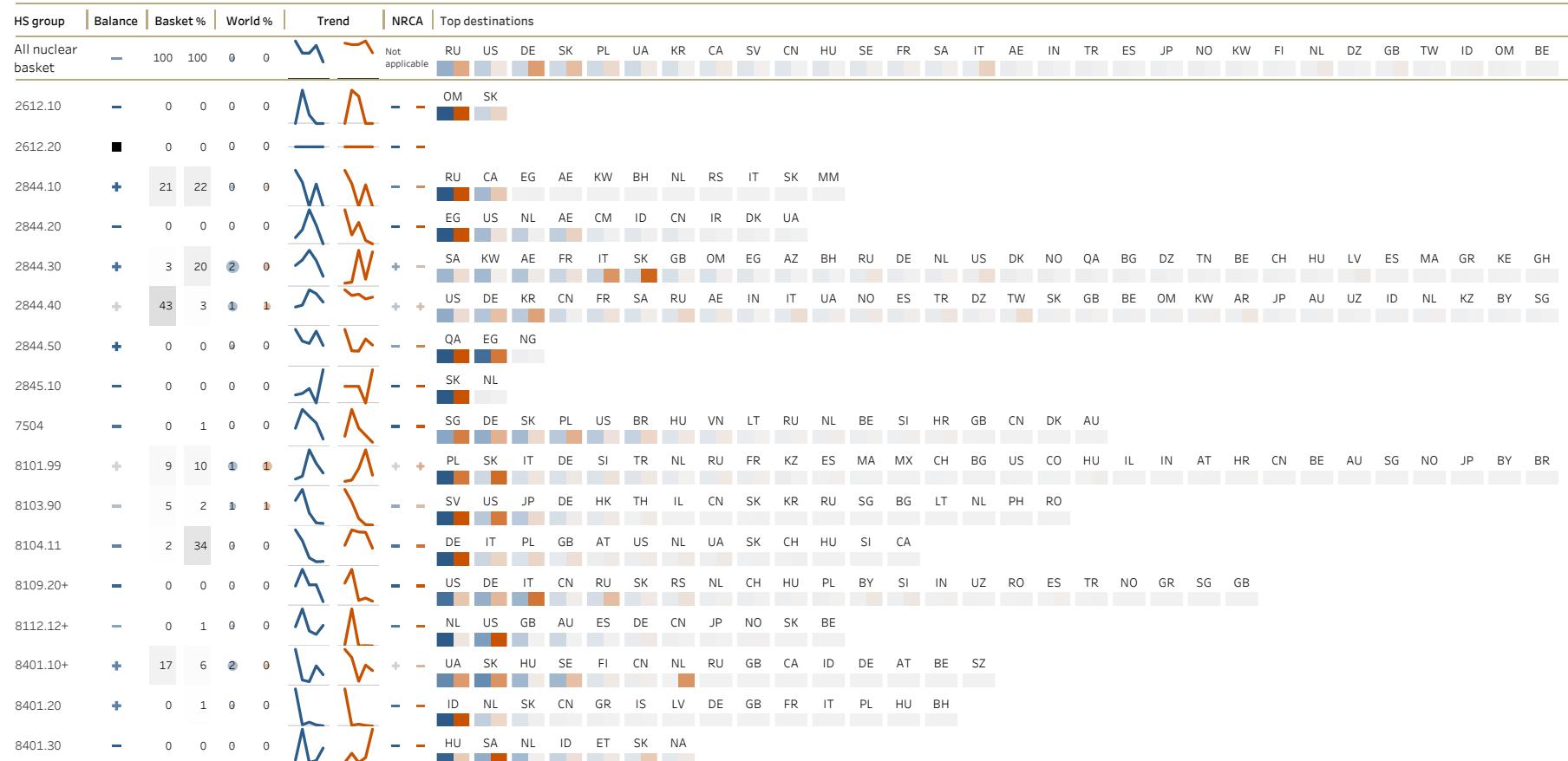


## Czech Rep.

### Export

Years 2016-2020 BACI records: 1,056

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 2.8 M\$ 1% Quantity = 28.6 T

Figure 64: Czech Rep.

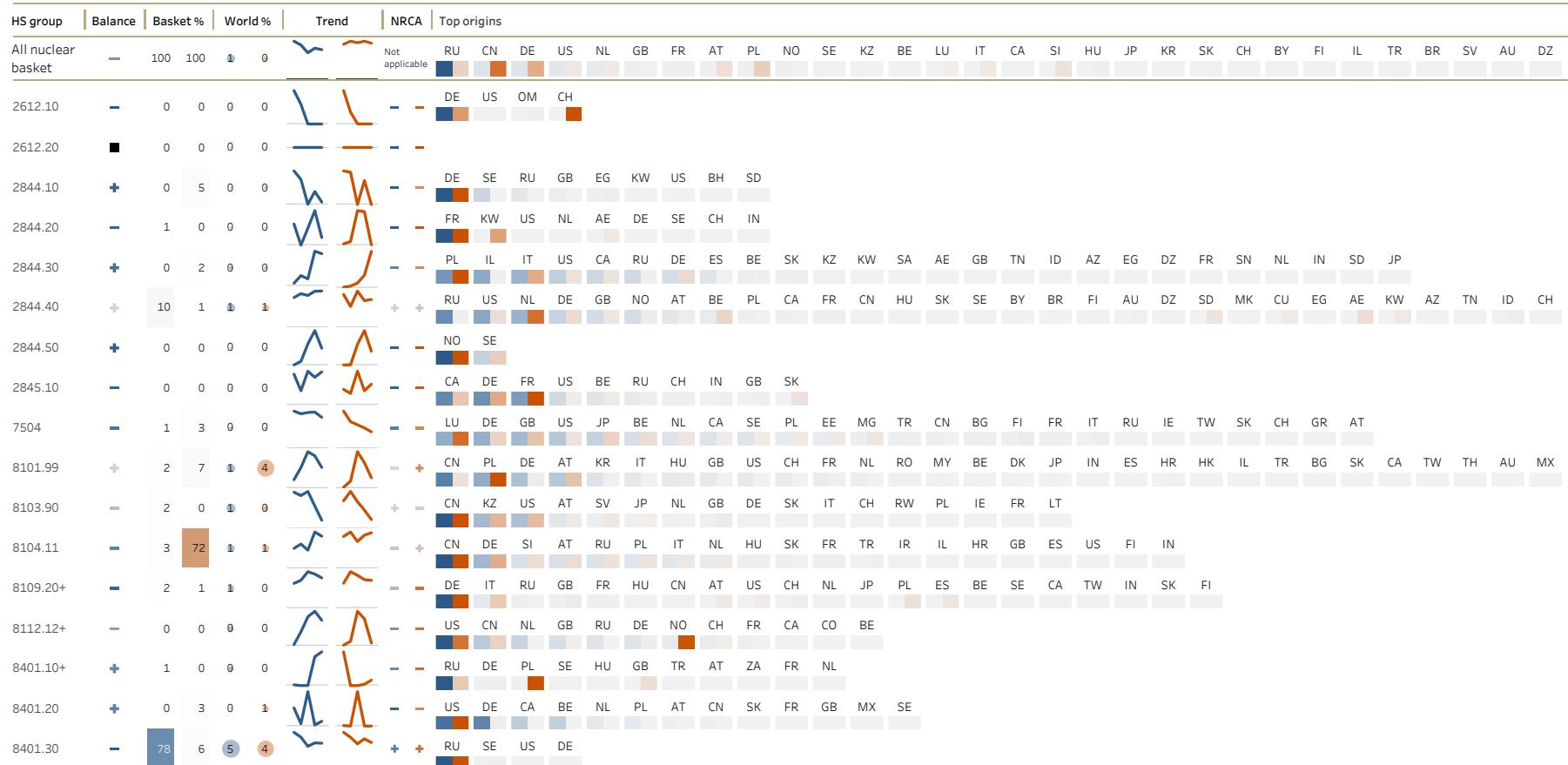


## Czech Rep.

### Import

Years 2016-2020 BACI records: 845

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 9.2 M\$ 1% Quantity = 118.3 T



## Dem. People's Rep. of Korea

### Export

Years 2016-2020 BACI records: 5

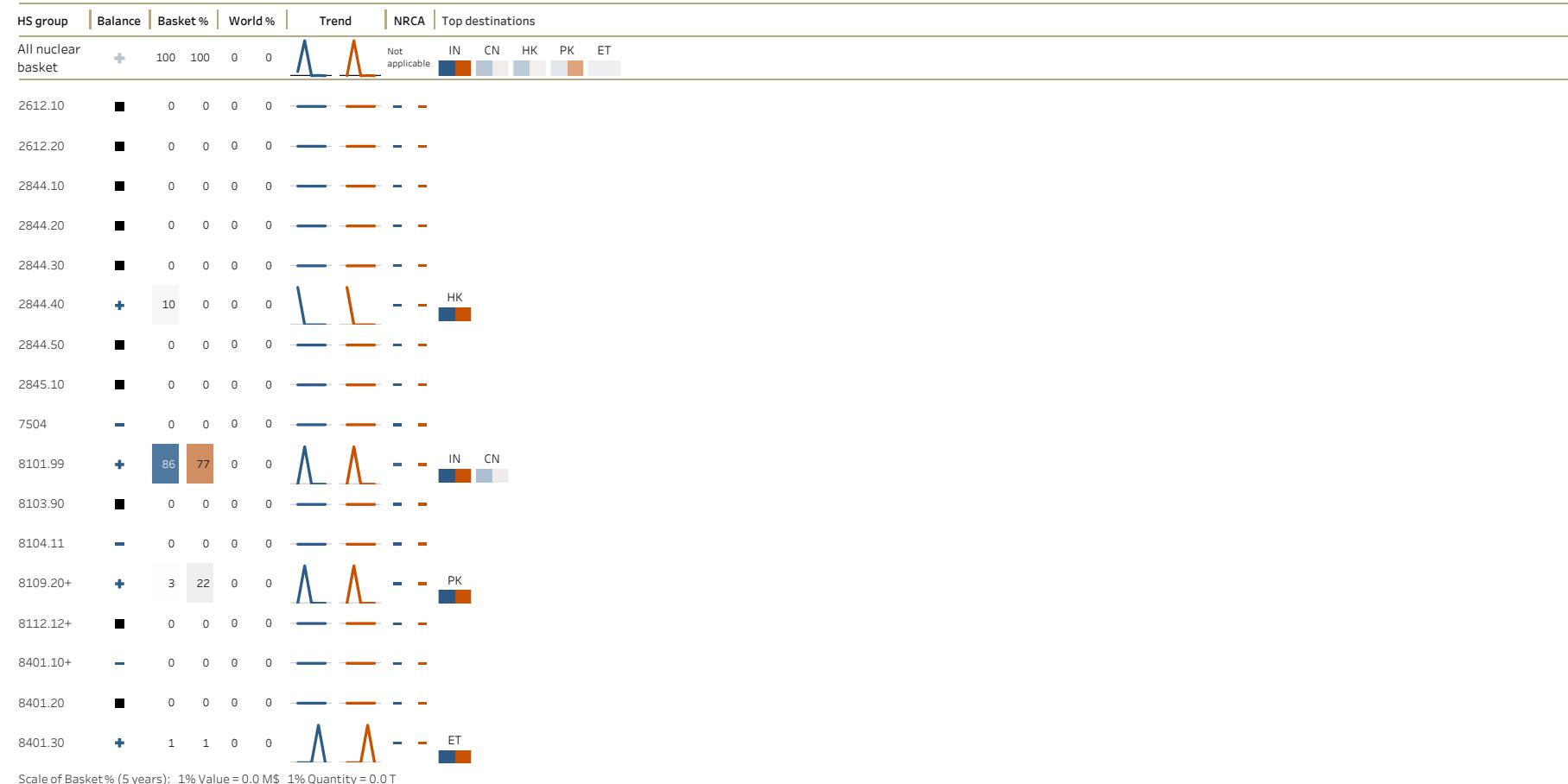


Figure 65: Dem. Peoples Rep. of Korea



## Dem. People's Rep. of Korea

### Import

Years 2016-2020 BACI records: 4



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.1 T



## Dem. Rep. of the Congo

Export

Years 2016-2020 BACI records: 11

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion

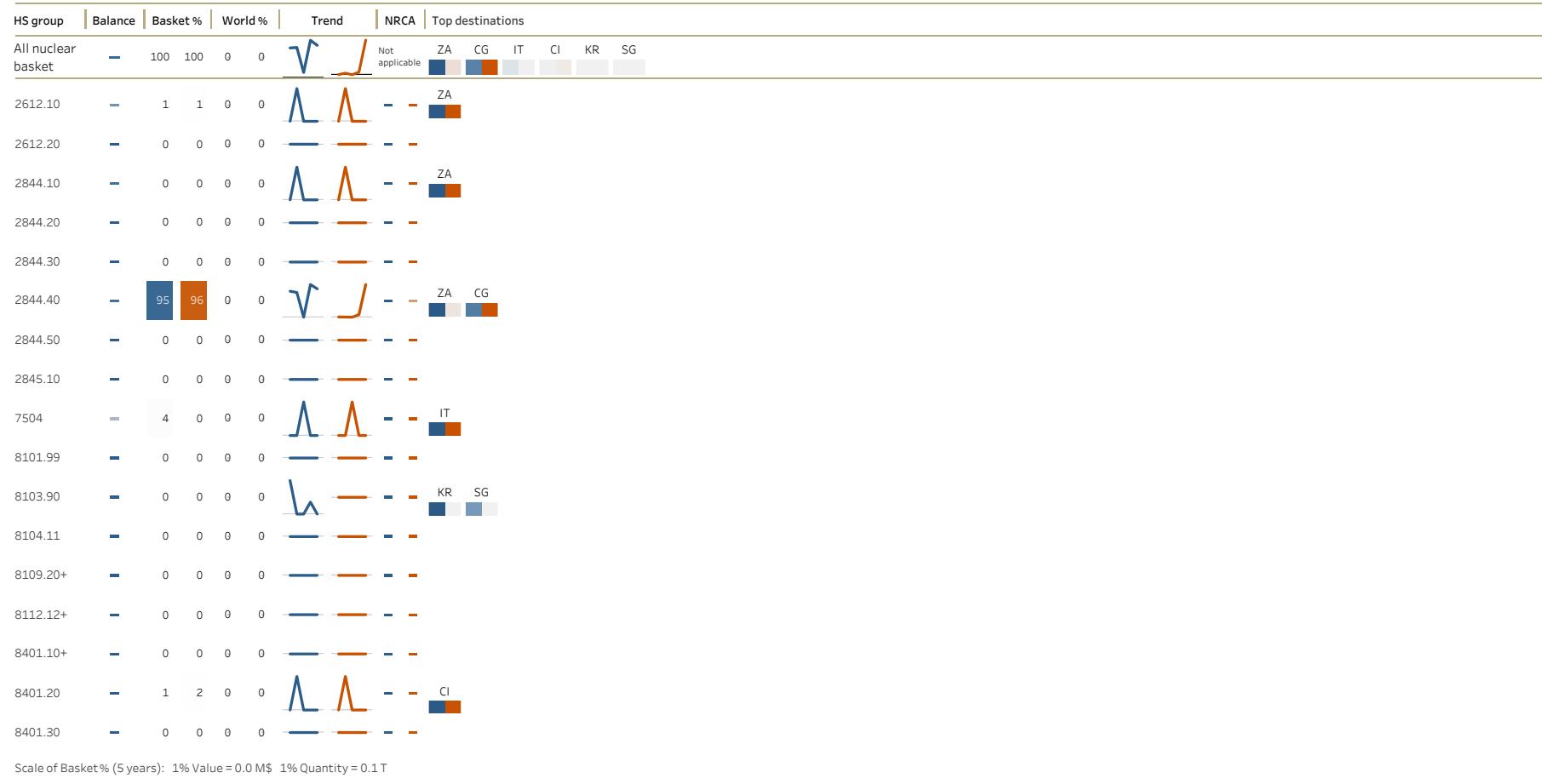


Figure 66: Dem. Rep. of the Congo

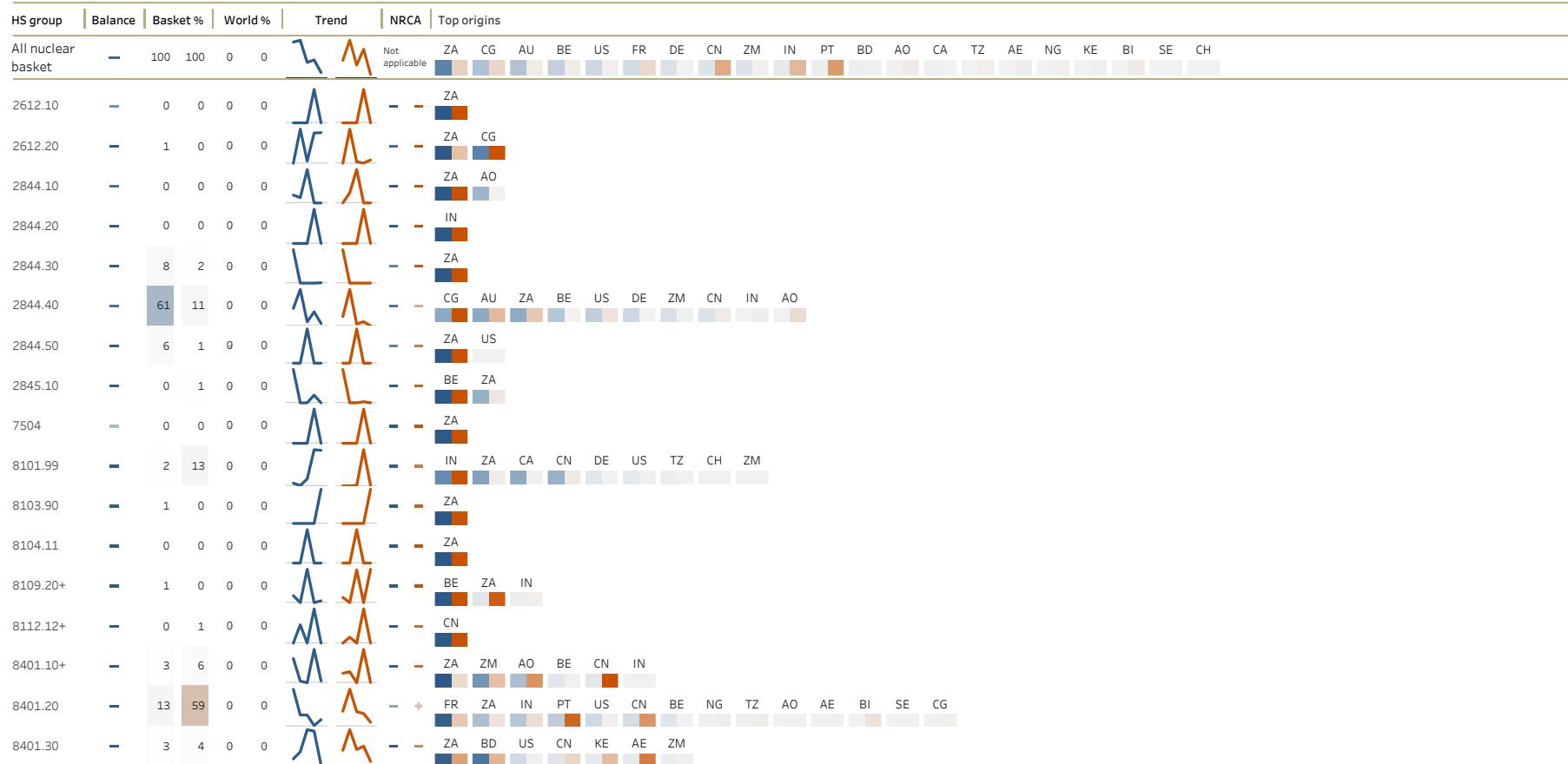


## Dem. Rep. of the Congo

### Import

Years 2016-2020 BACI records: 108

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.6 T

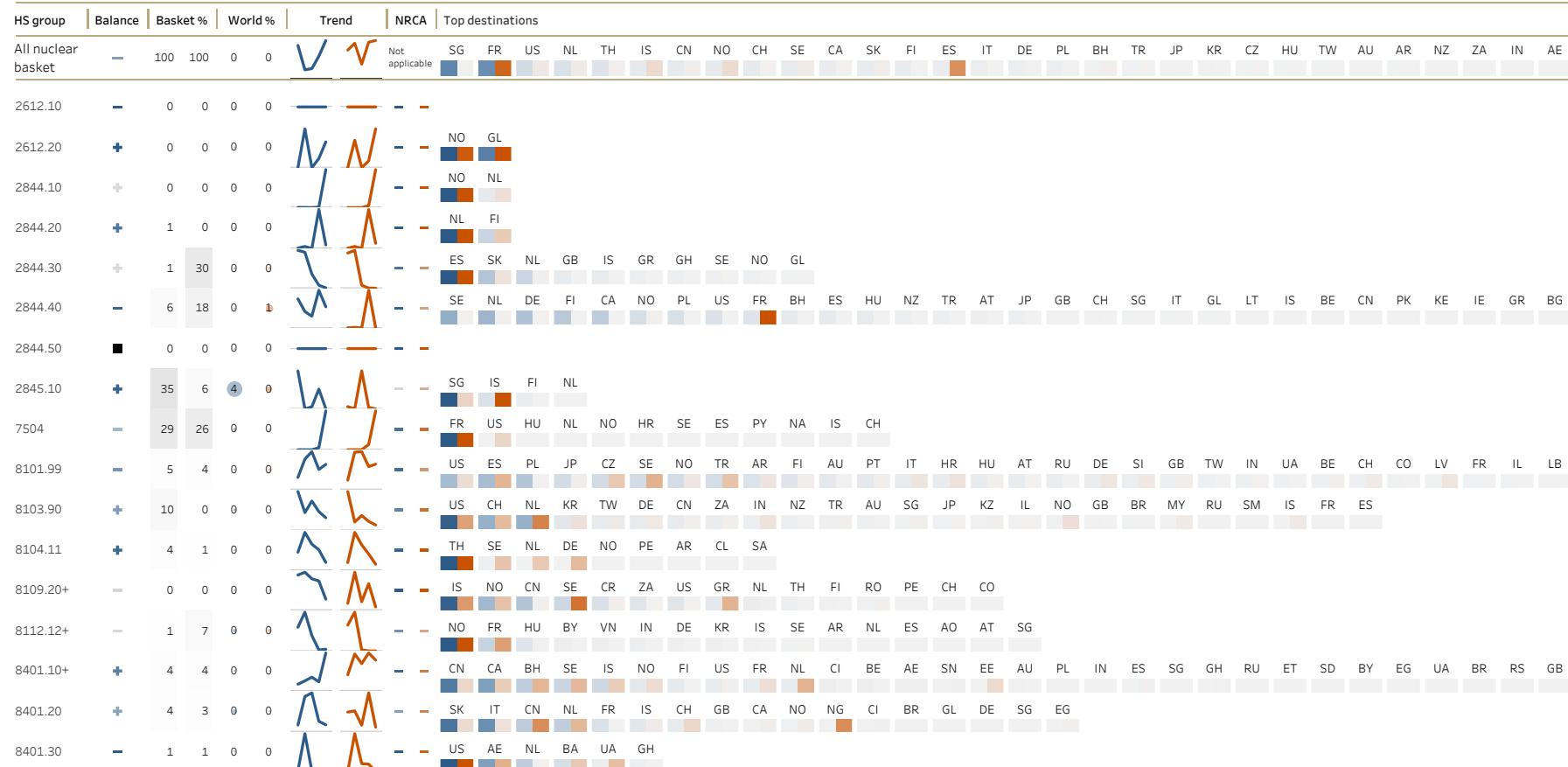


## Denmark

### Export

Years 2016-2020 BACI records: 516

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.3 M\$ 1% Quantity = 5.7 T

Figure 67: Denmark



## Denmark

## Import

Years 2016-2020 BACI records: 550

**Non-proliferation commitments**  
NPT: Party NSG: Member  
IAEA SQP: \_\_\_ IAEA SA: In force IAEA AP: In force  
IAEA BC: Broader conclusion

The figure displays a treemap visualization of HS group categories and their top origins. The categories are listed on the left, and each has a corresponding color scheme and a legend below it. The treemap shows the relative size of each origin country within the category.

HS group	Balance	Basket %	World %	Trend	NRCA	Top origins
All nuclear basket	-	100	100	0	0	Not applicable
2612.10	-	0	0	0	0	TH
2612.20	+	0	0	0	0	
2844.10	+	0	0	0	0	ZA TH
2844.20	+	0	0	0	0	NL DE CZ
2844.30	+	0	0	0	0	CZ DE ES NL US SE SK
2844.40	-	51	6	0	1	NL DE GB BE US SE CA FI CZ NO AT ES CH RU FR TR AU IE HU MT GR EE LV BG SI TK PL PT IT HR
2844.50	■	0	0	0	0	
2845.10	+	1	0	0	0	DE JP US FR SG SE CN RU BE
7504	-	20	82	0	0	GB US DE IT FR SE BE JP CN SG LT LV ES PT BG LU SK CZ GR EE IE AT
8101.99	-	5	2	0	0	DE LU CN US ES CH SE NL HU GB BE IN PL KR HK SK AT LT CZ LV IT SI JP EE NO FI RO HR FR IE
8103.90	+	1	0	0	0	NL KZ GB KR DE CH CN US IN IE HU LT JP CA SI EE SE IT
8104.11	+	0	1	0	0	DE CH BE SE CN KR US NL
8109.20+	-	0	1	0	0	US MY JP DE GB HU CH SE CN FR NL IE PL
8112.12+	-	1	1	0	0	NO US ES NL GB DE SE CH BE IT
8401.10+	+	0	1	0	0	HK US CN UA TW IE FI NO CH PL SE KR NL TR
8401.20	+	1	3	0	0	EG IT US TR NO IS SE DE CN HU IE EE NL
8401.30	-	21	3	0	0	FI FR US SE HK HU NO DE NL GB

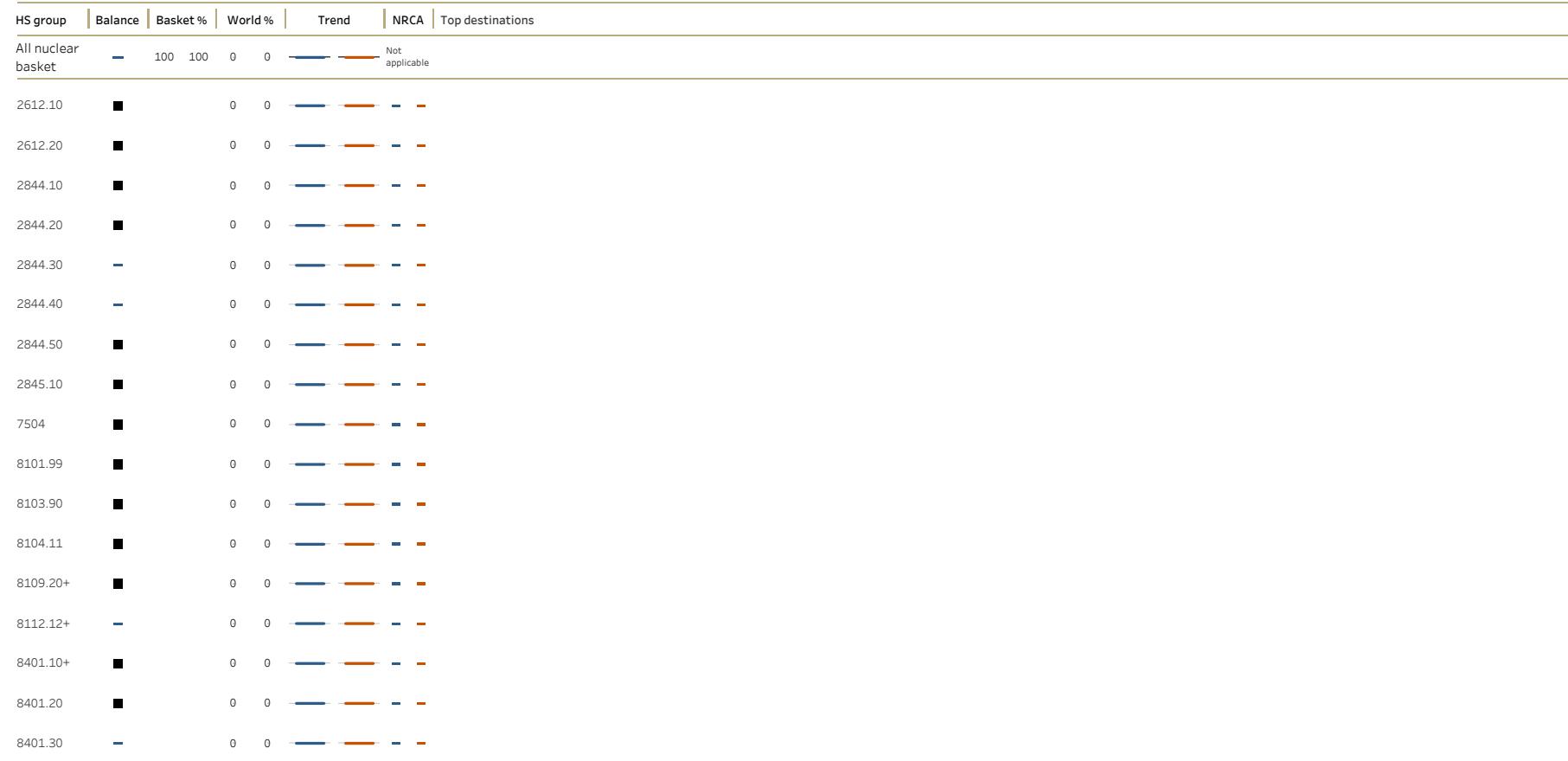
Scale of Basket% (5 years): 1% Value = 0.8 M\$ 1% Quantity = 13.5 T



Dominica

Export

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.0 T

Figure 68: Dominica

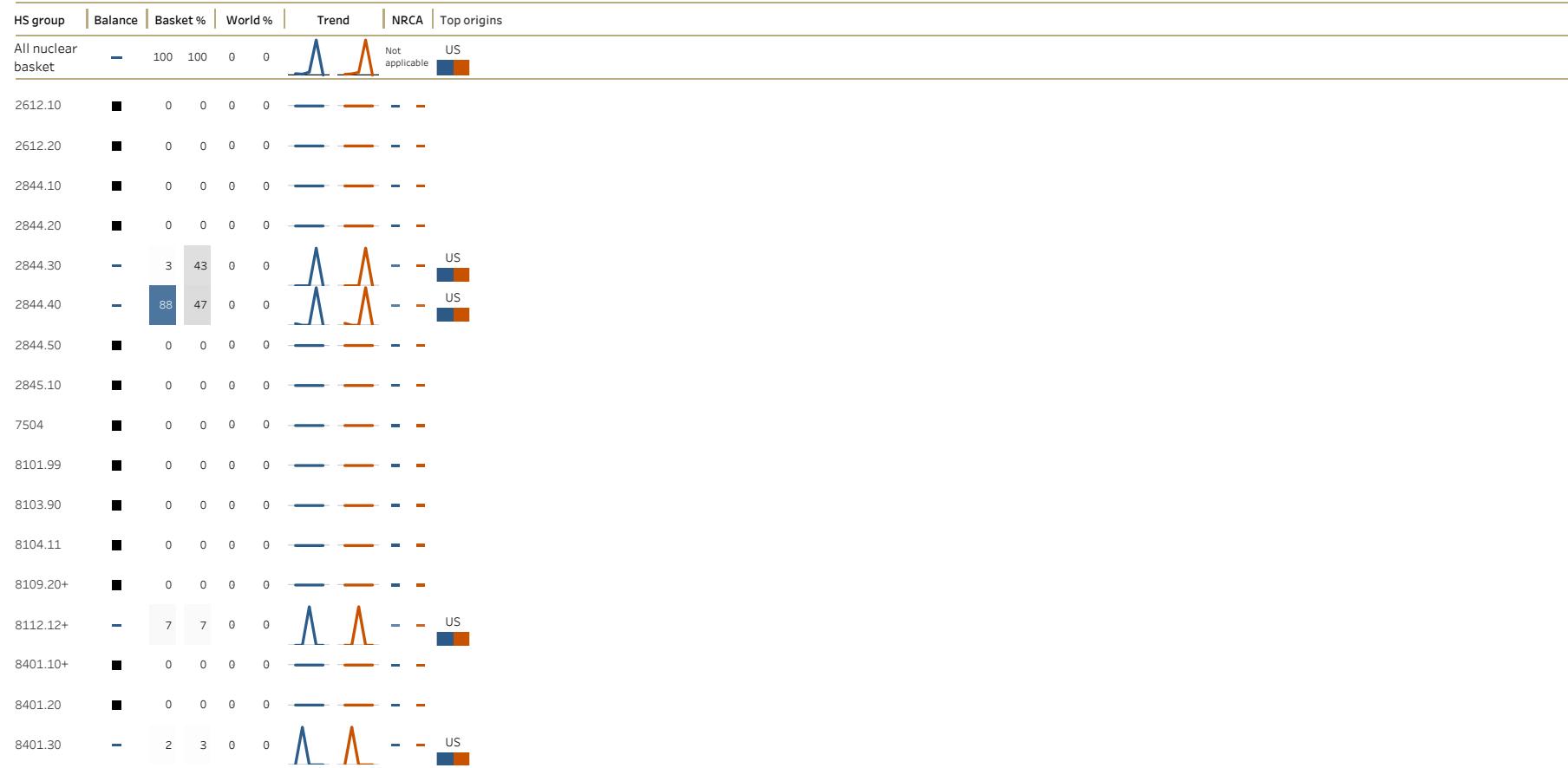


## Dominica

### Import

Years 2016-2020 BACI records: 5

Non-proliferation commitments  
NPT: Party NSG: –  
IAEA SQP: Original IAEA SA: In force IAEA AP: –  
IAEA BC: No broader conclusion



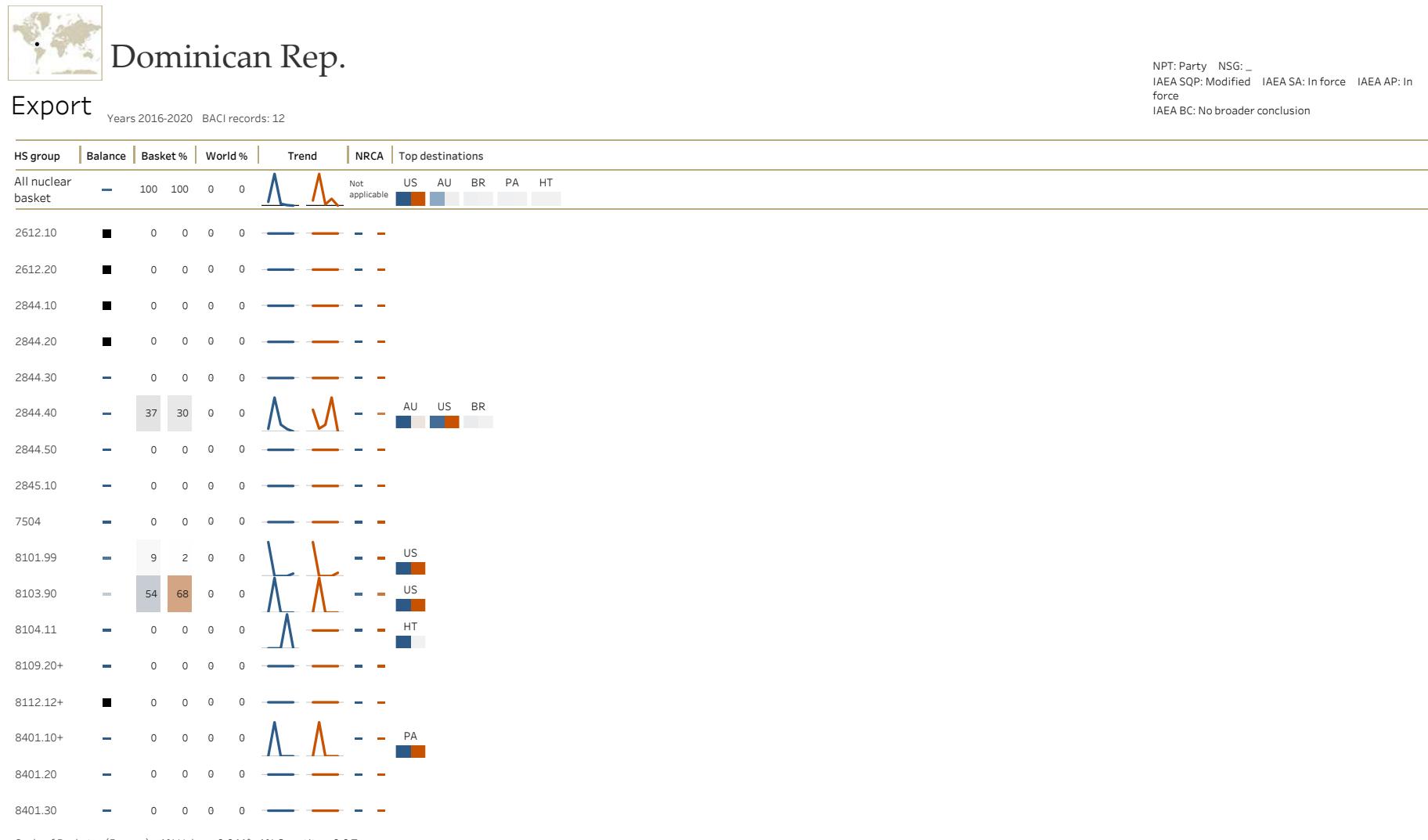


Figure 69: Dominican Rep.

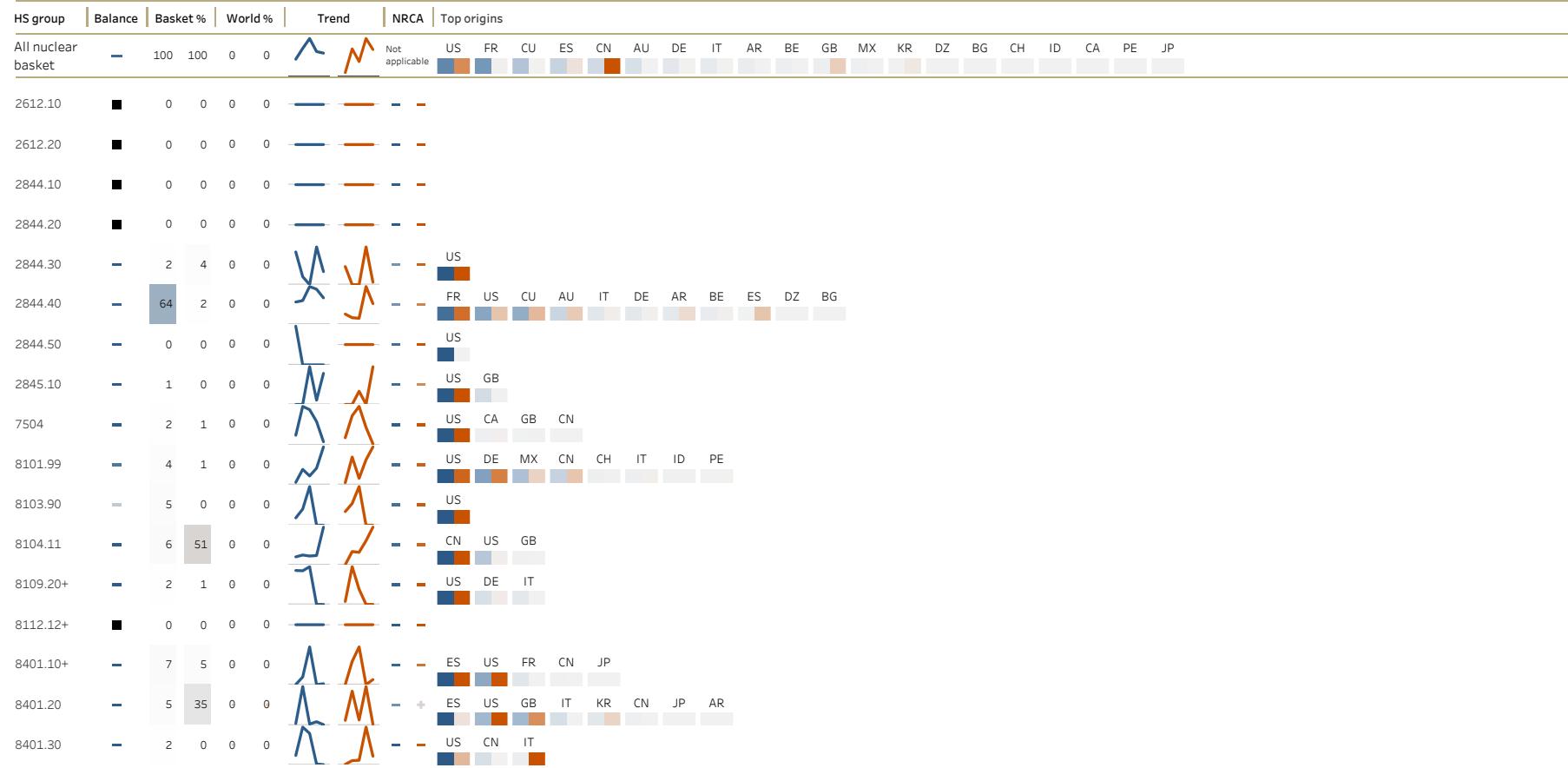


# Dominican Rep.

## Import

Years 2016-2020 BACI records: 116

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion





## Ecuador

### Export

Years 2016-2020 BACI records: 37

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion

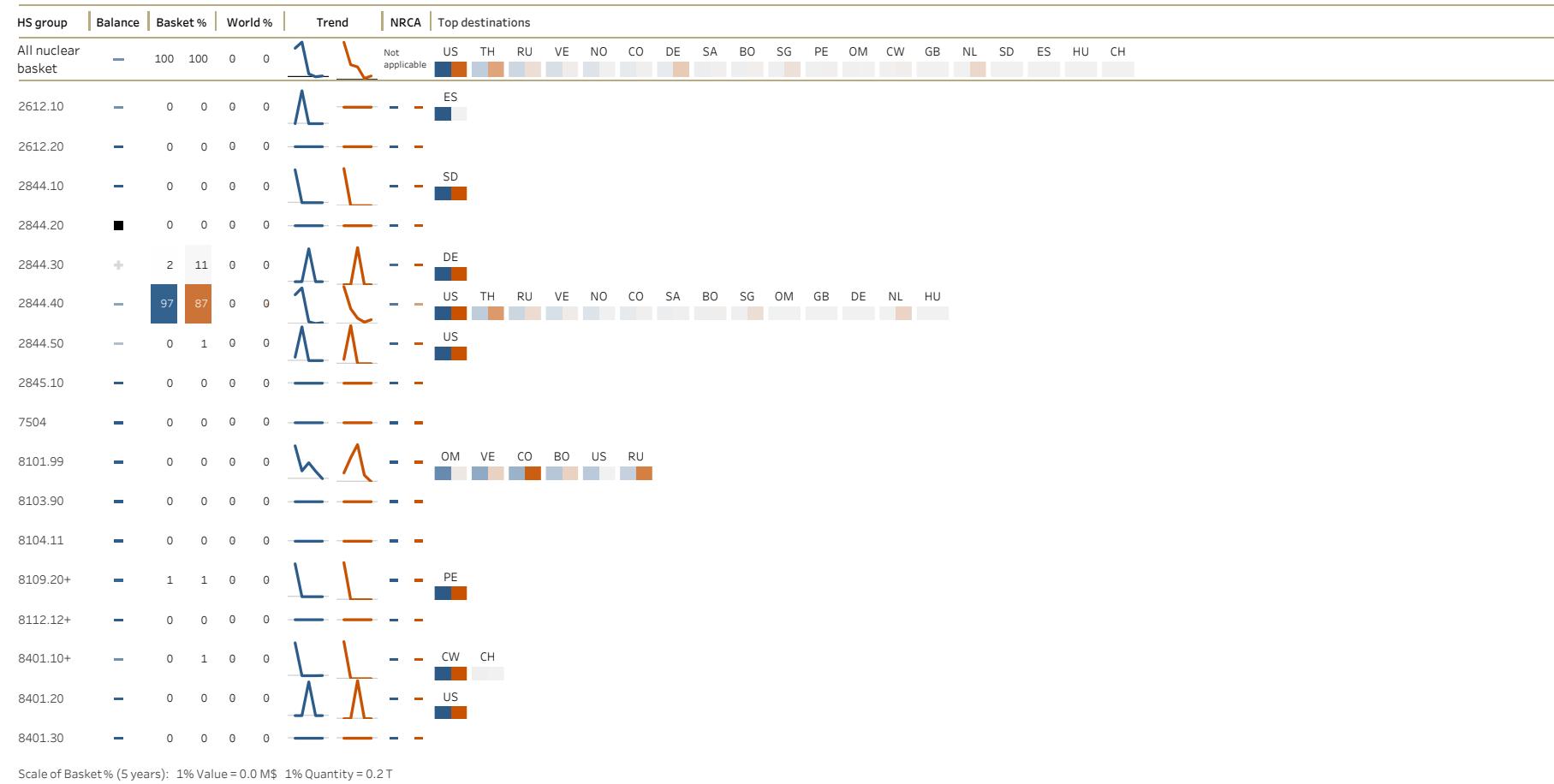


Figure 70: Ecuador

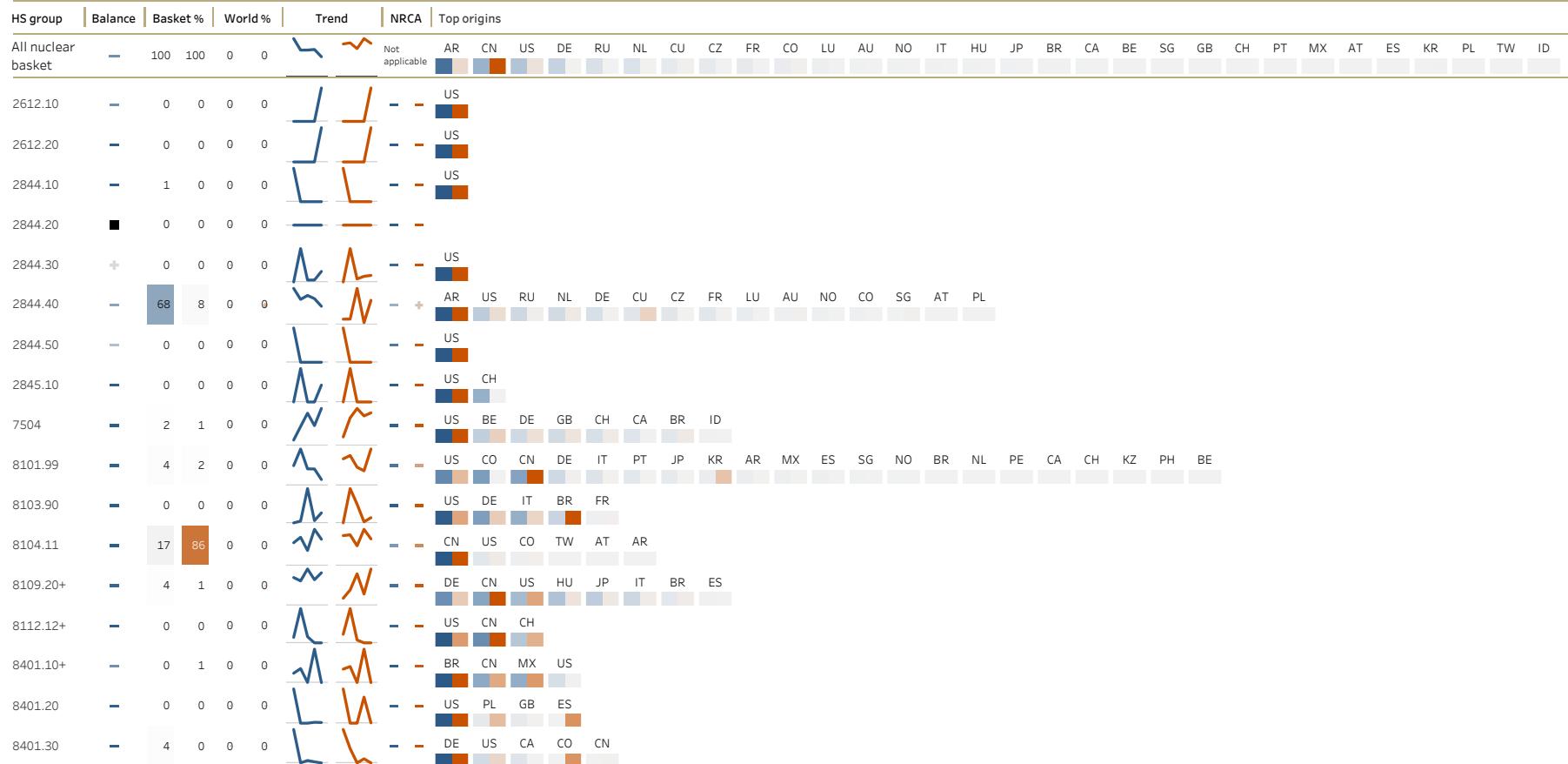


## Ecuador

### Import

Years 2016-2020 BACI records: 191

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion



Scale of Basket % (5 years): 1% Value = 0.1 M\$ 1% Quantity = 4.7 T



## Egypt

### Export

Years 2016-2020 BACI records: 59

**Non-proliferation commitments**  
 NPT: Party NSG: \_\_  
 IAEA SQP: \_\_ IAEA SA: In force IAEA AP: \_\_  
 IAEA BC: No broader conclusion



Figure 71: Egypt



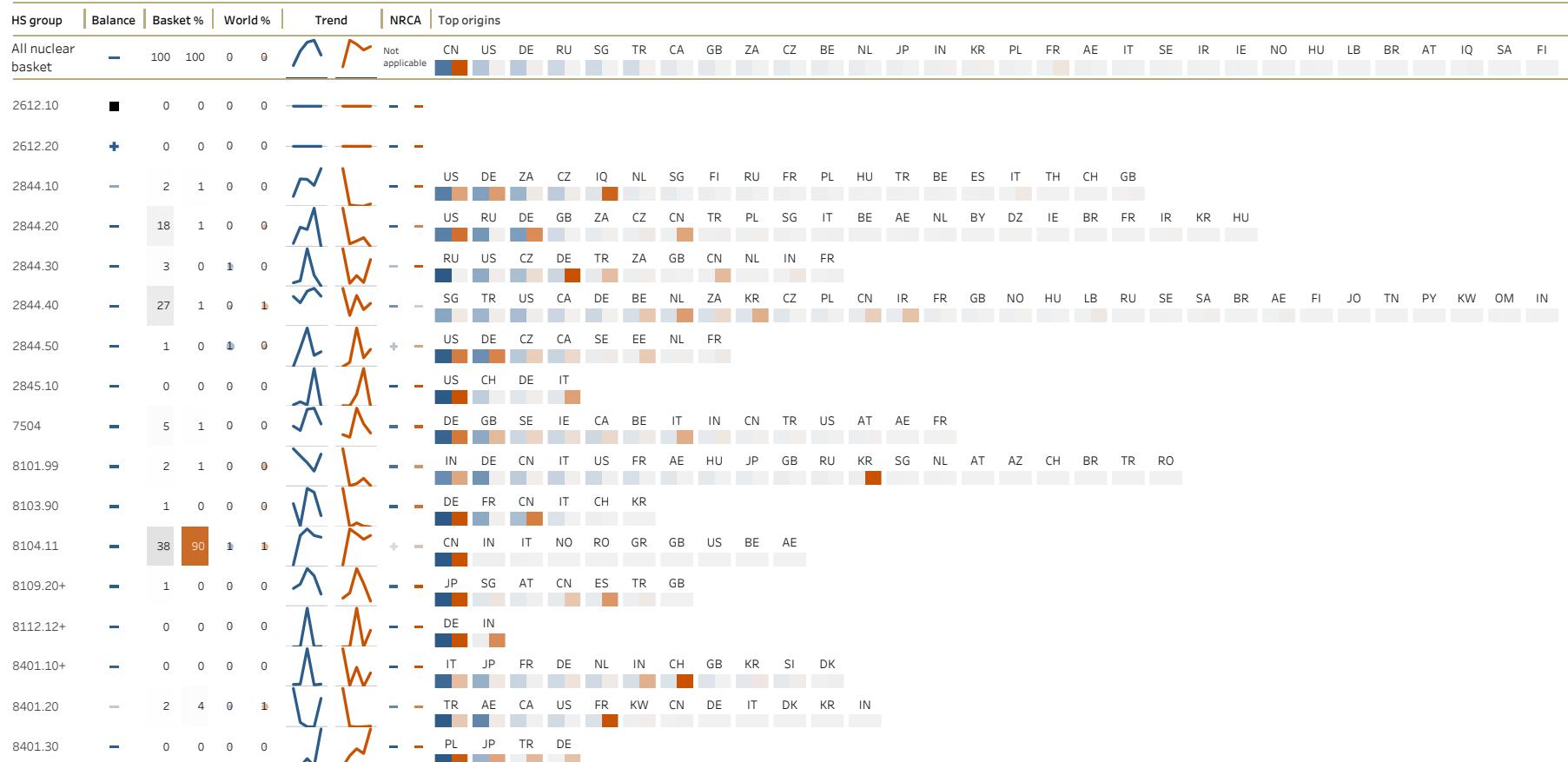
# Egypt

## Import

Years 2016-2020 BACI records: 401

### Non-proliferation commitments

NPT: Party NSG: —  
IAEA SQP: — IAEA SA: In force IAEA AP: —  
IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.5 M\$ 1% Quantity = 91.5 T



## El Salvador

### Export

Years 2016-2020 BACI records: 18

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion

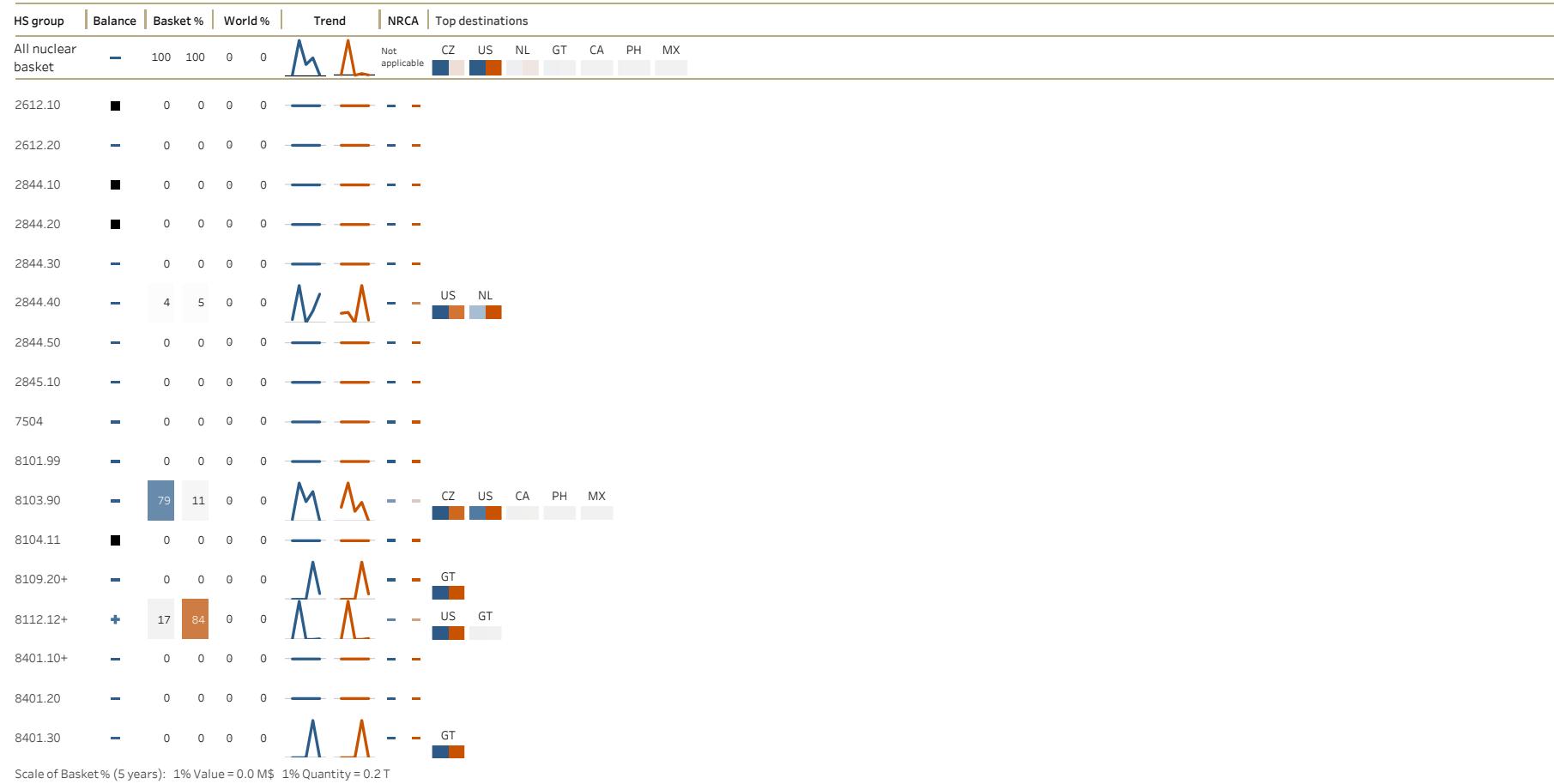


Figure 72: El Salvador

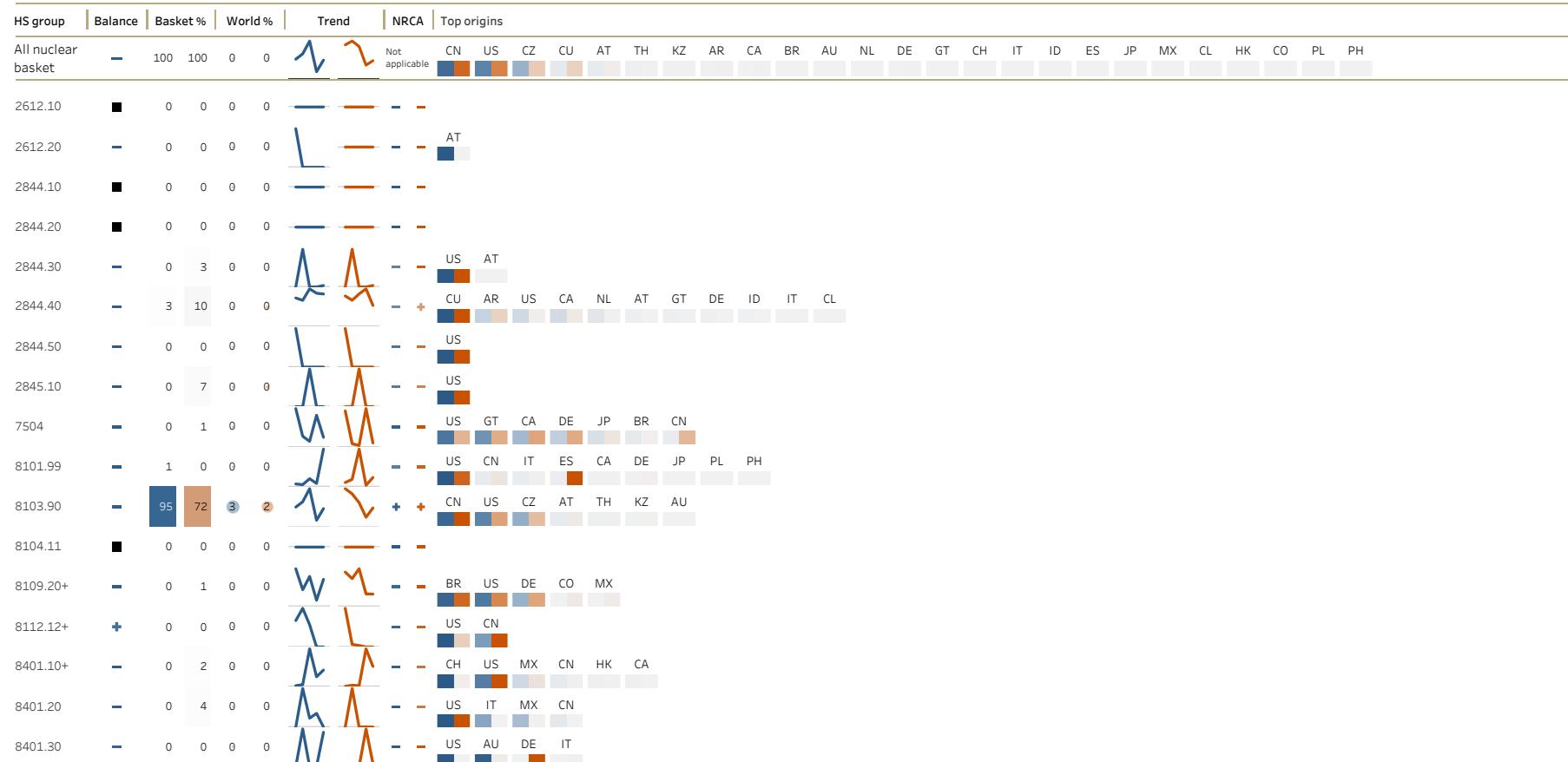


## El Salvador

### Import

Years 2016-2020 BACI records: 120

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion



Scale of Basket % (5 years): 1% Value = 0.5 M\$ 1% Quantity = 2.1 T

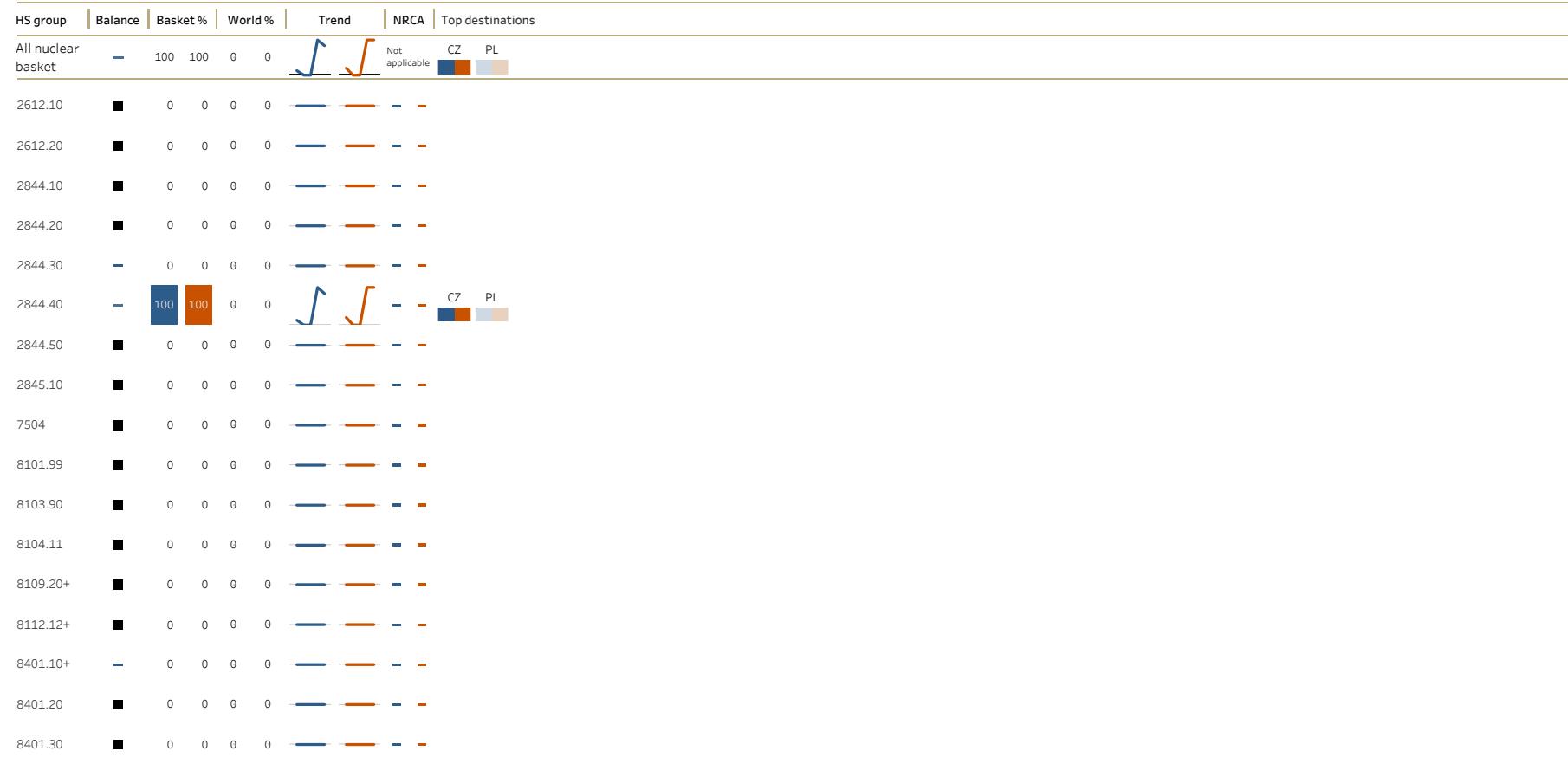


## Equatorial Guinea

Export

Years 2016-2020 BACI records: 3

NPT: Party NSG: \_  
 IAEA SQP: Approved IAEA SA: Approved IAEA AP:  
 — IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.0 T

Figure 73: Equatorial Guinea

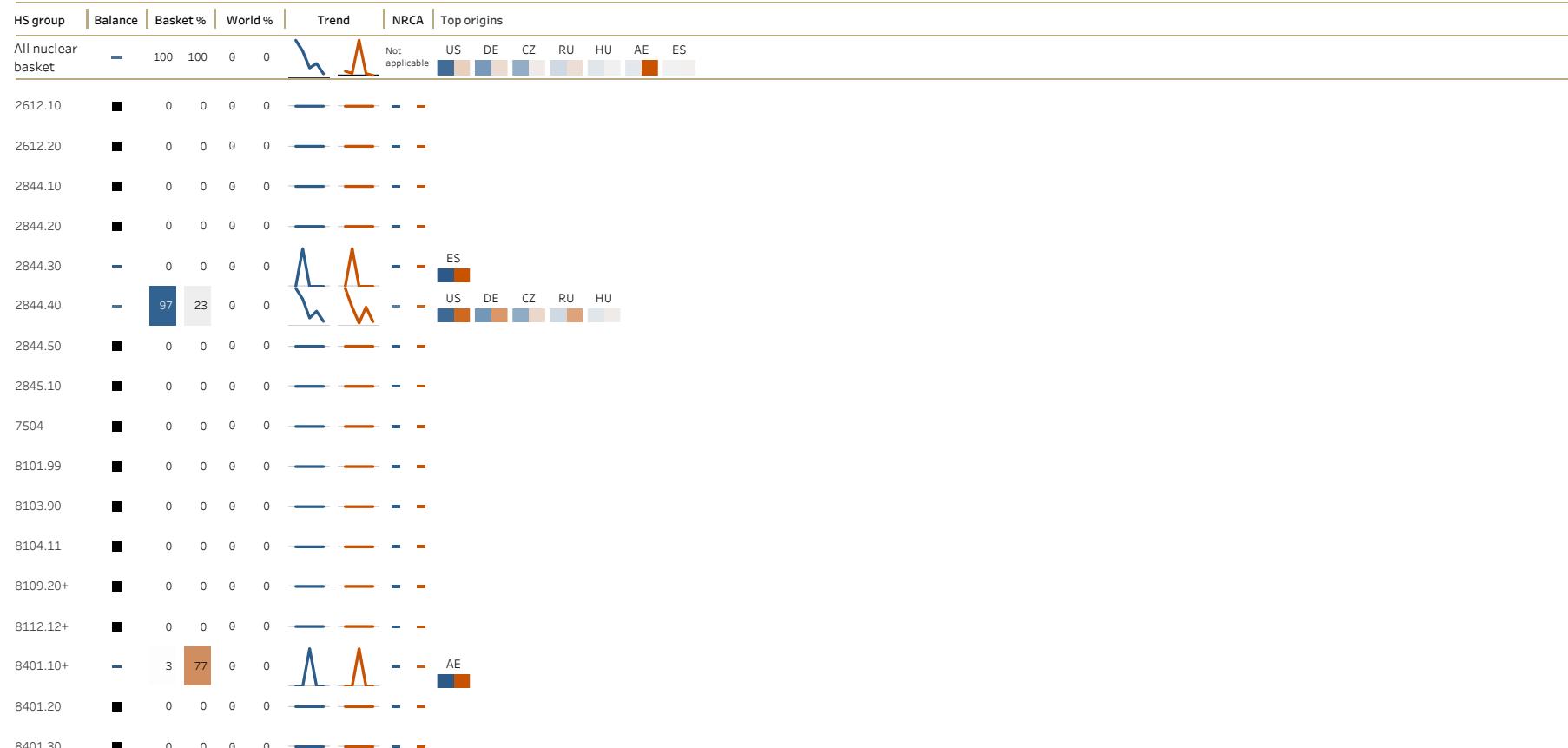


# Equatorial Guinea

## Import

Years 2016-2020 BACI records: 11

NPT: Party NSG: \_  
 IAEA SQP: Approved IAEA SA: Approved IAEA AP:  
 \_ IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.0 T



## Estonia

### Export

Years 2016-2020 BACI records: 129

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion

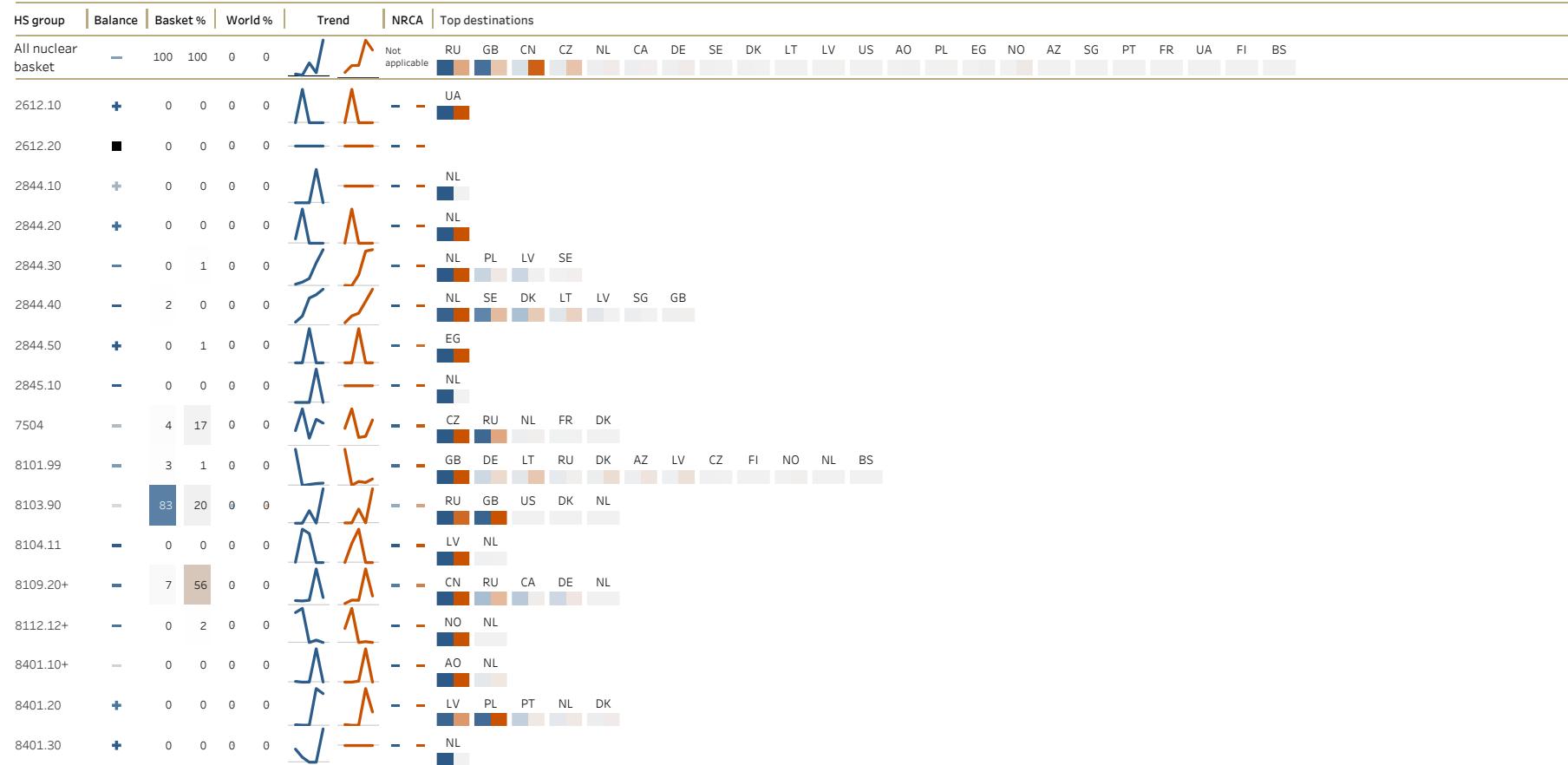


Figure 74: Estonia

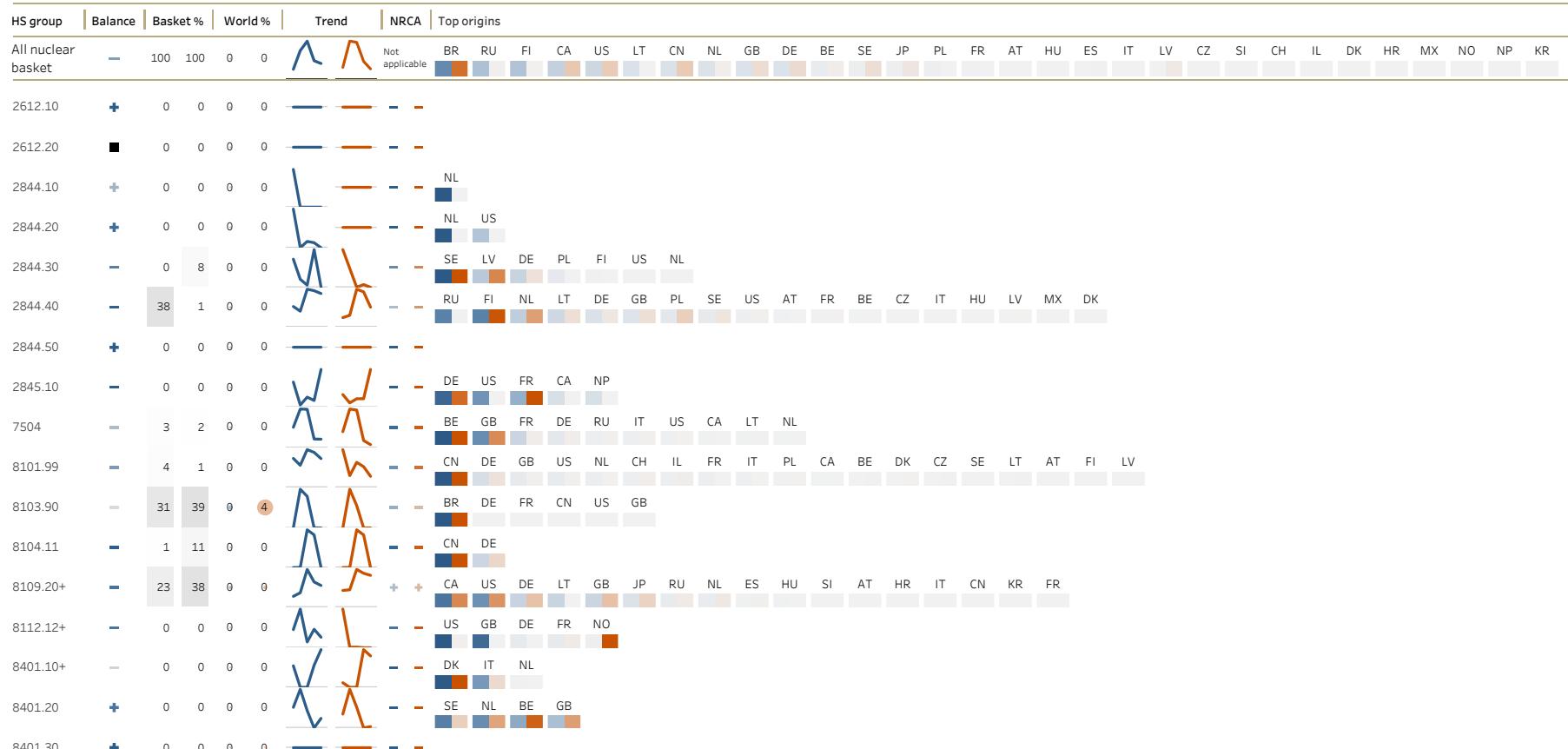


# Estonia

## Import

Years 2016-2020 BACI records: 263

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.2 M\$ 1% Quantity = 7.5 T

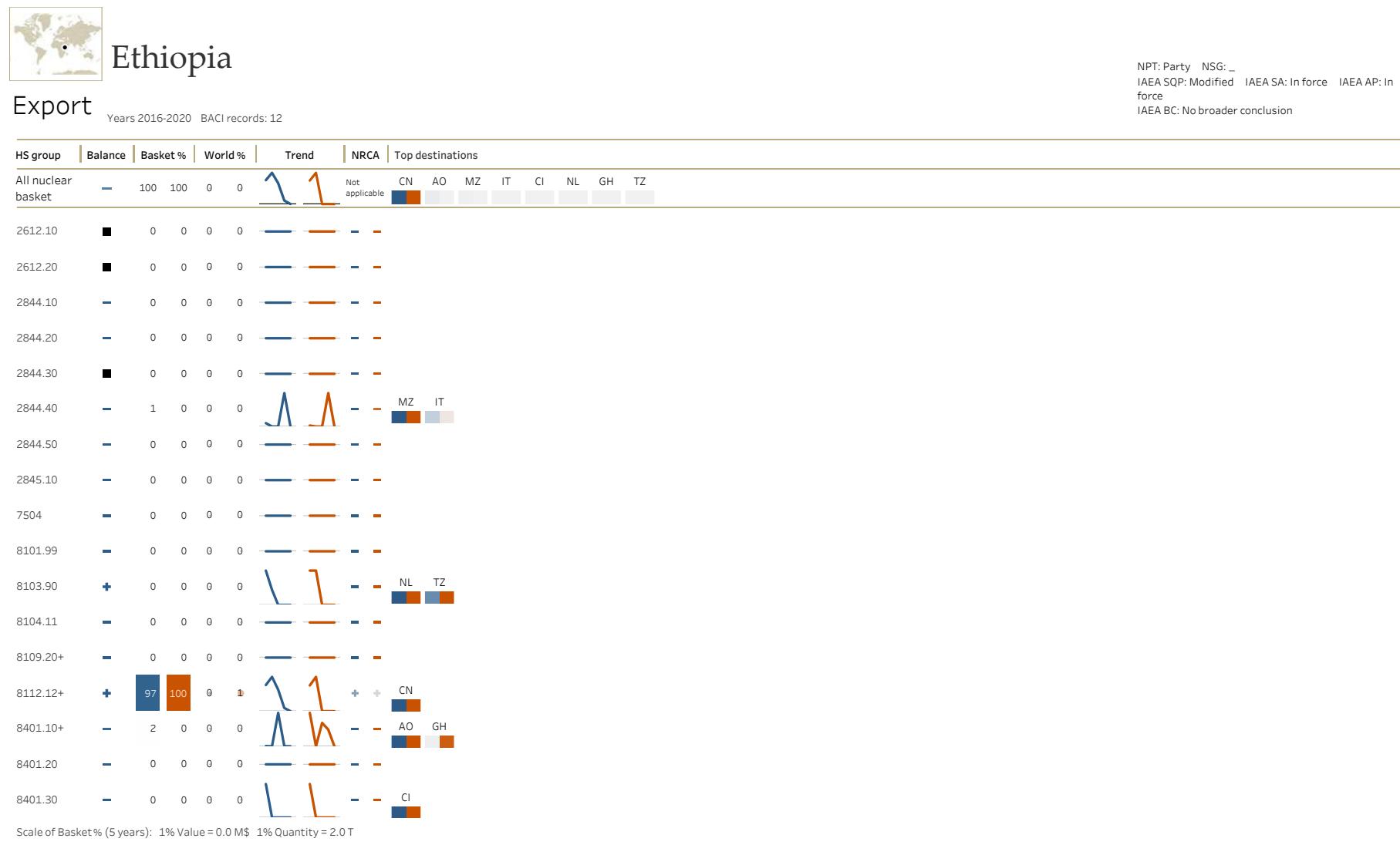


Figure 75: Ethiopia

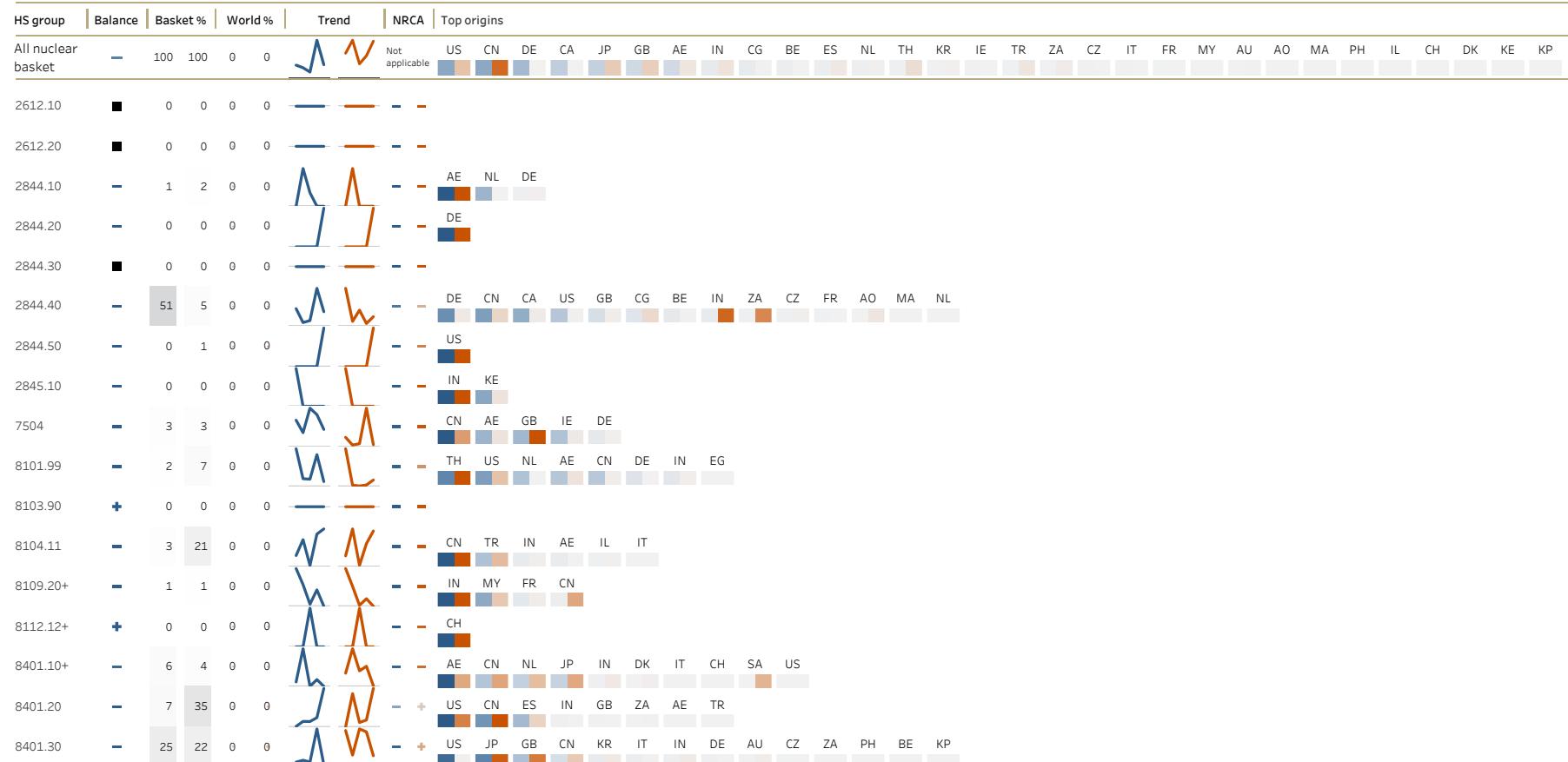


# Ethiopia

## Import

Years 2016-2020 BACI records: 148

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 1.5 T



Figure 76: Fiji

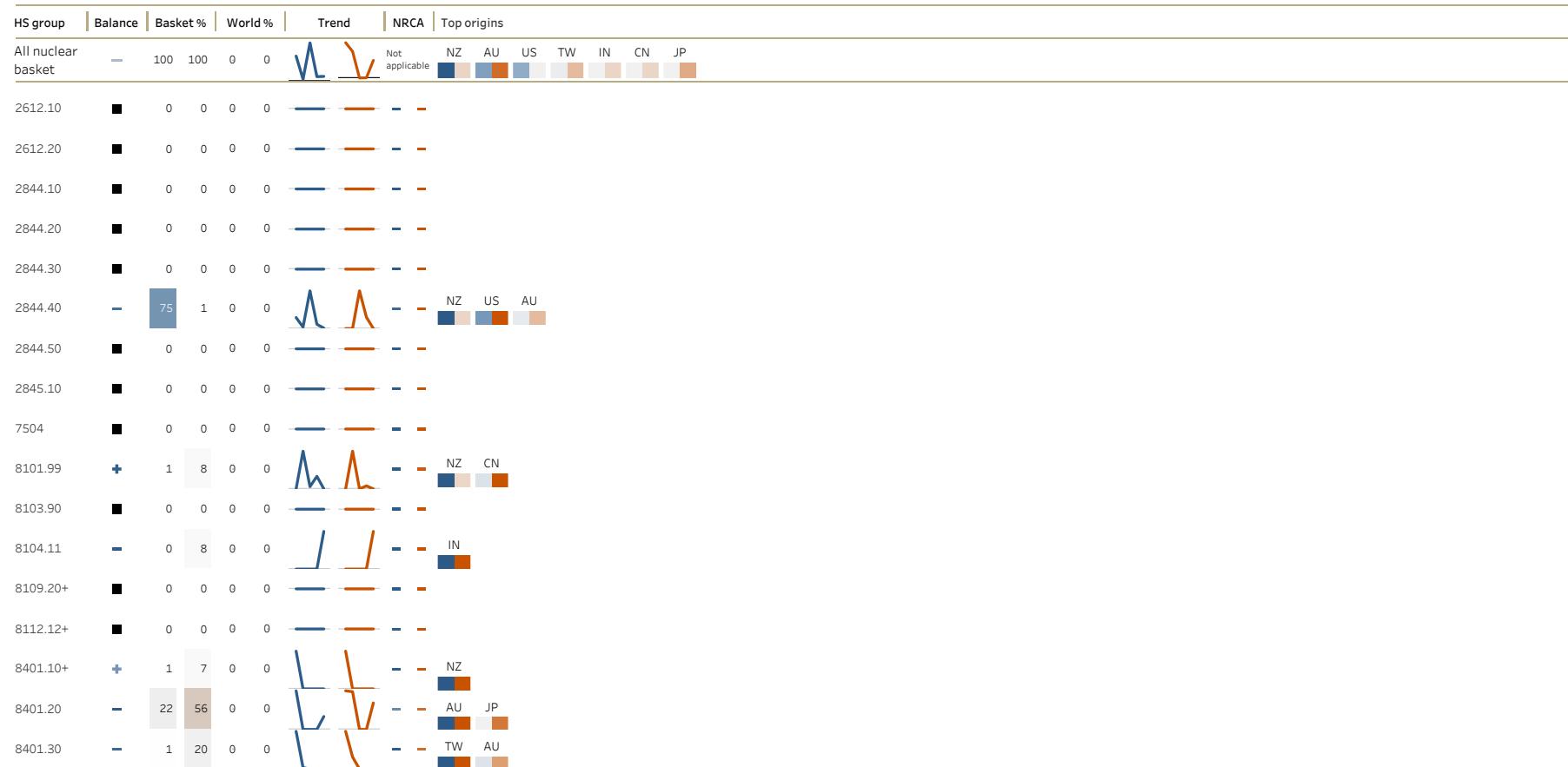


• Fiji

## Import

Years 2016-2020 BACI records: 18

NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.0 T



## Finland

### Export

Years 2016-2020 BACI records: 480

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

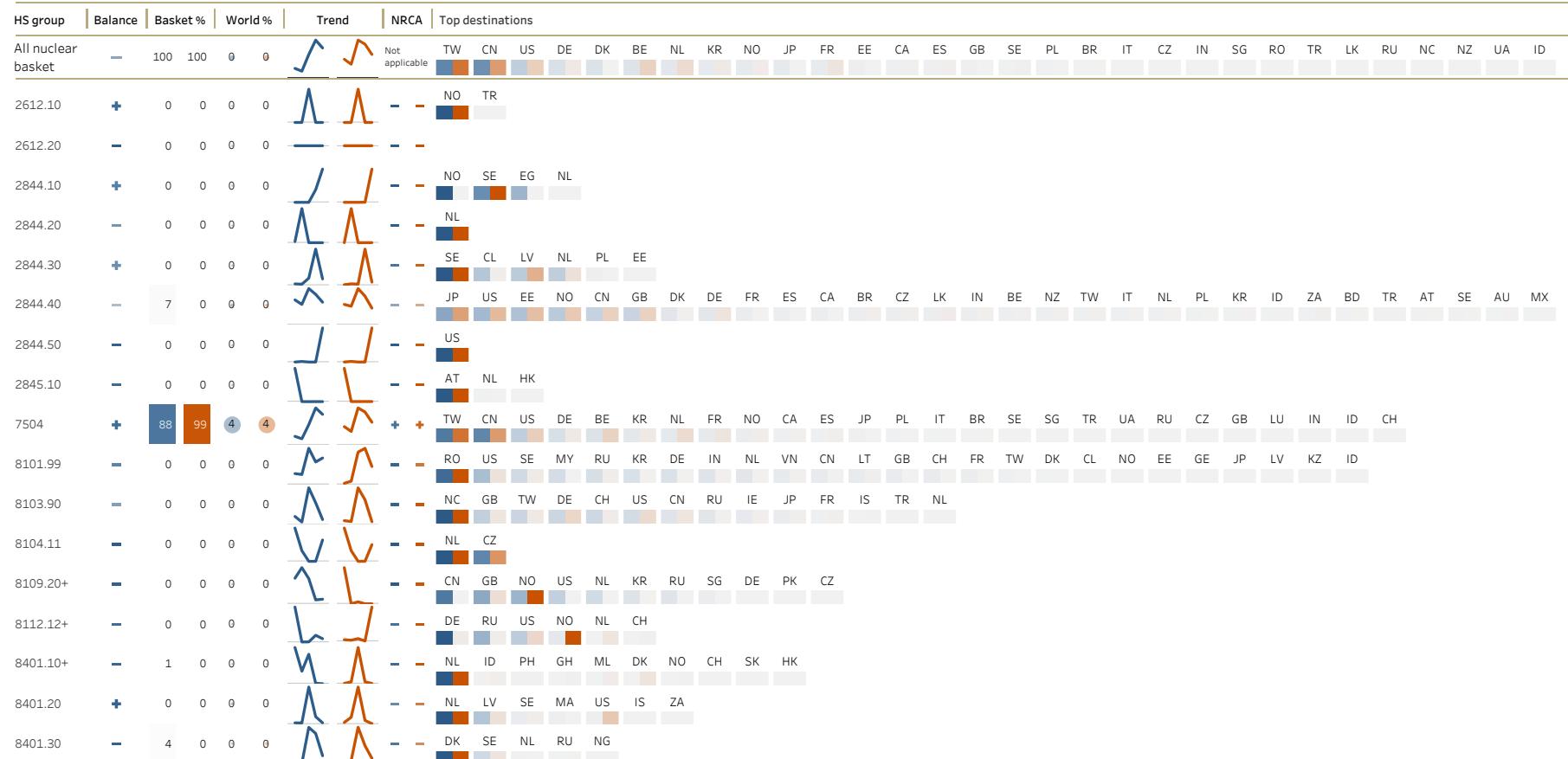


Figure 77: Finland

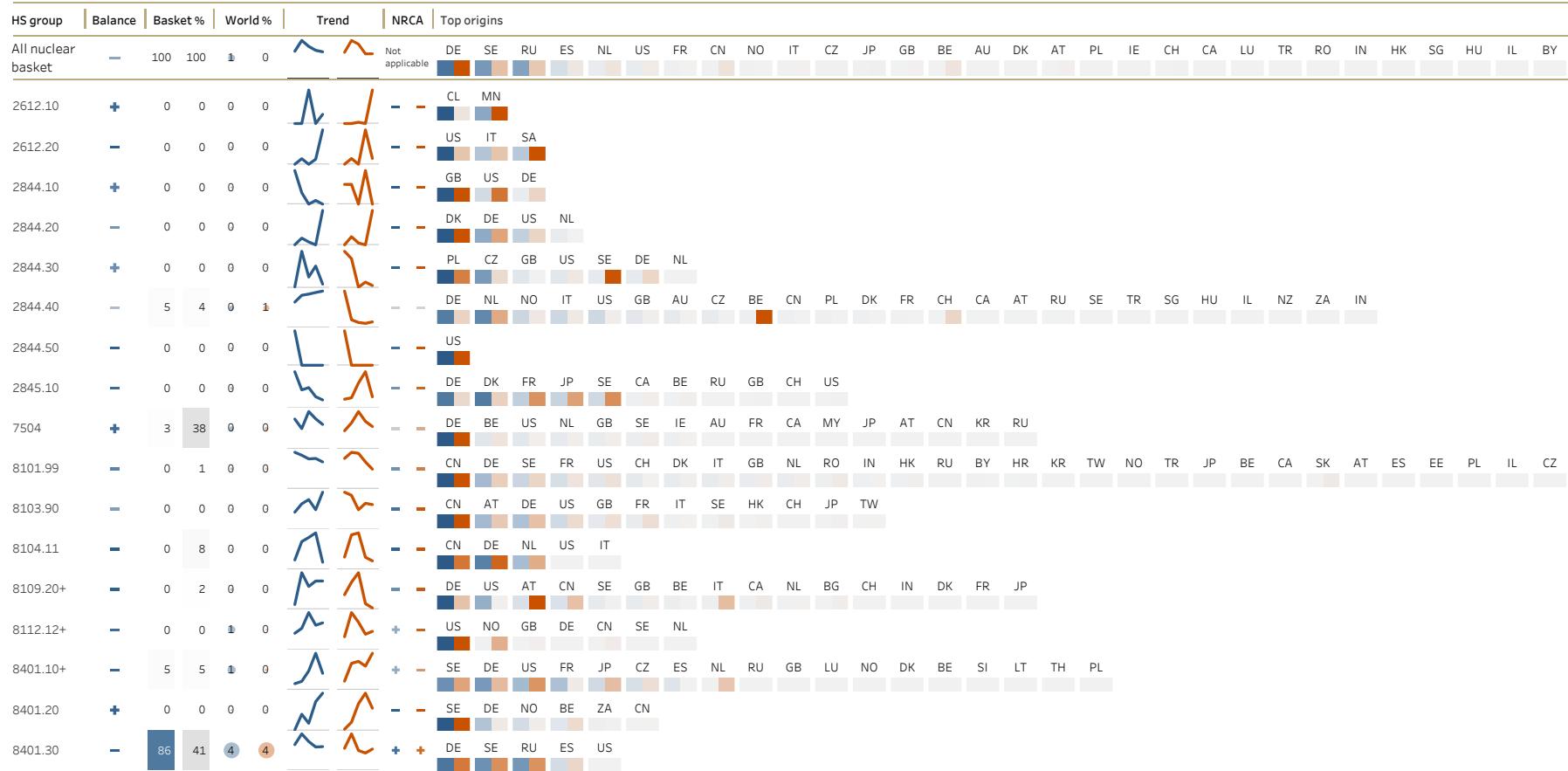


# Finland

## Import

Years 2016-2020 BACI records: 486

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 6.5 M\$ 1% Quantity = 15.7 T

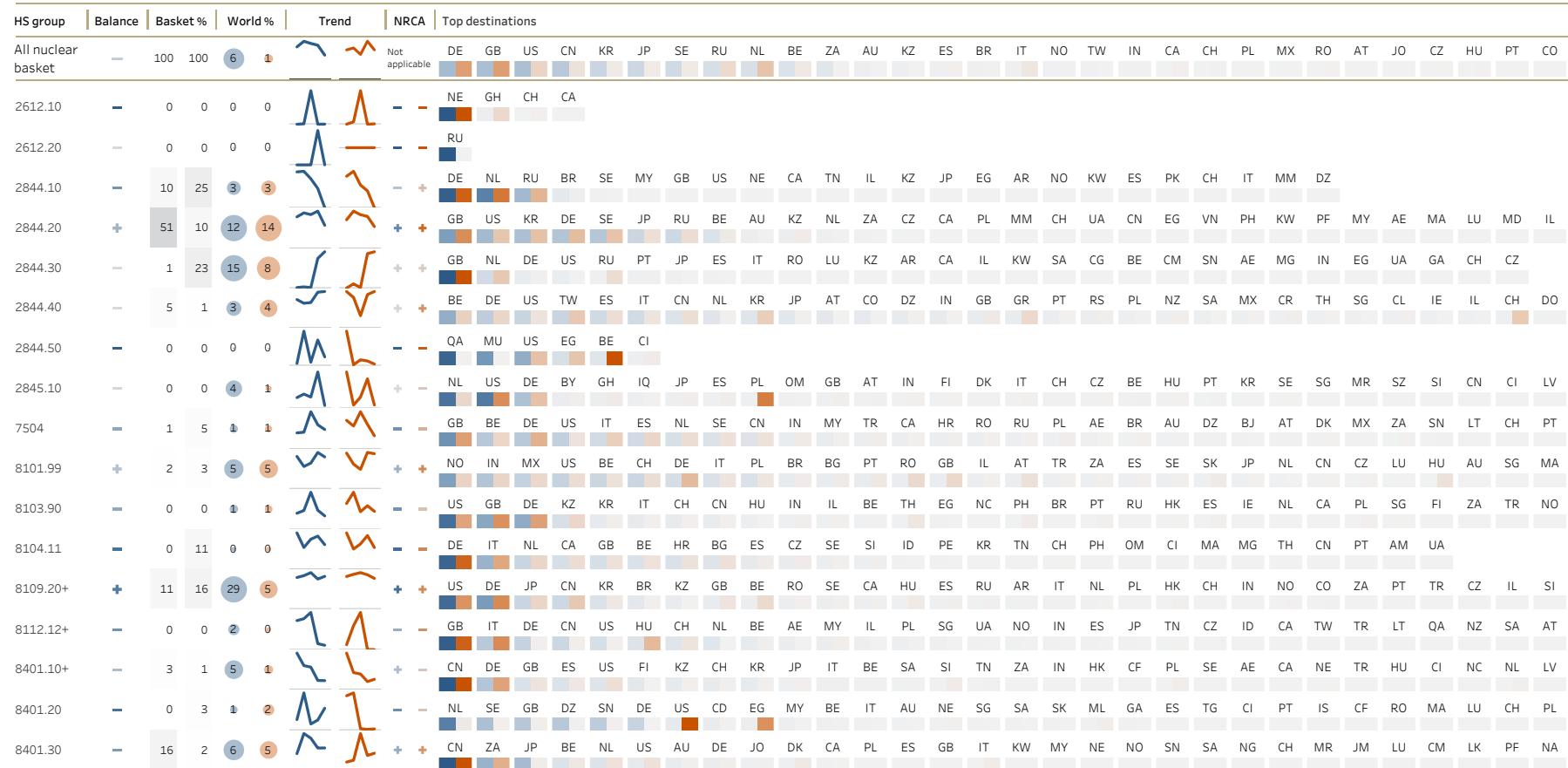


## France

### Export

Years 2016-2020 BACI records: 2,330

NPT: Party NSG: Member  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
force  
IAEA BC: Nuclear Weapon State



Scale of Basket% (5 years): 1% Value = 58.6 M\$ 1% Quantity = 412.6 T

Figure 78: France

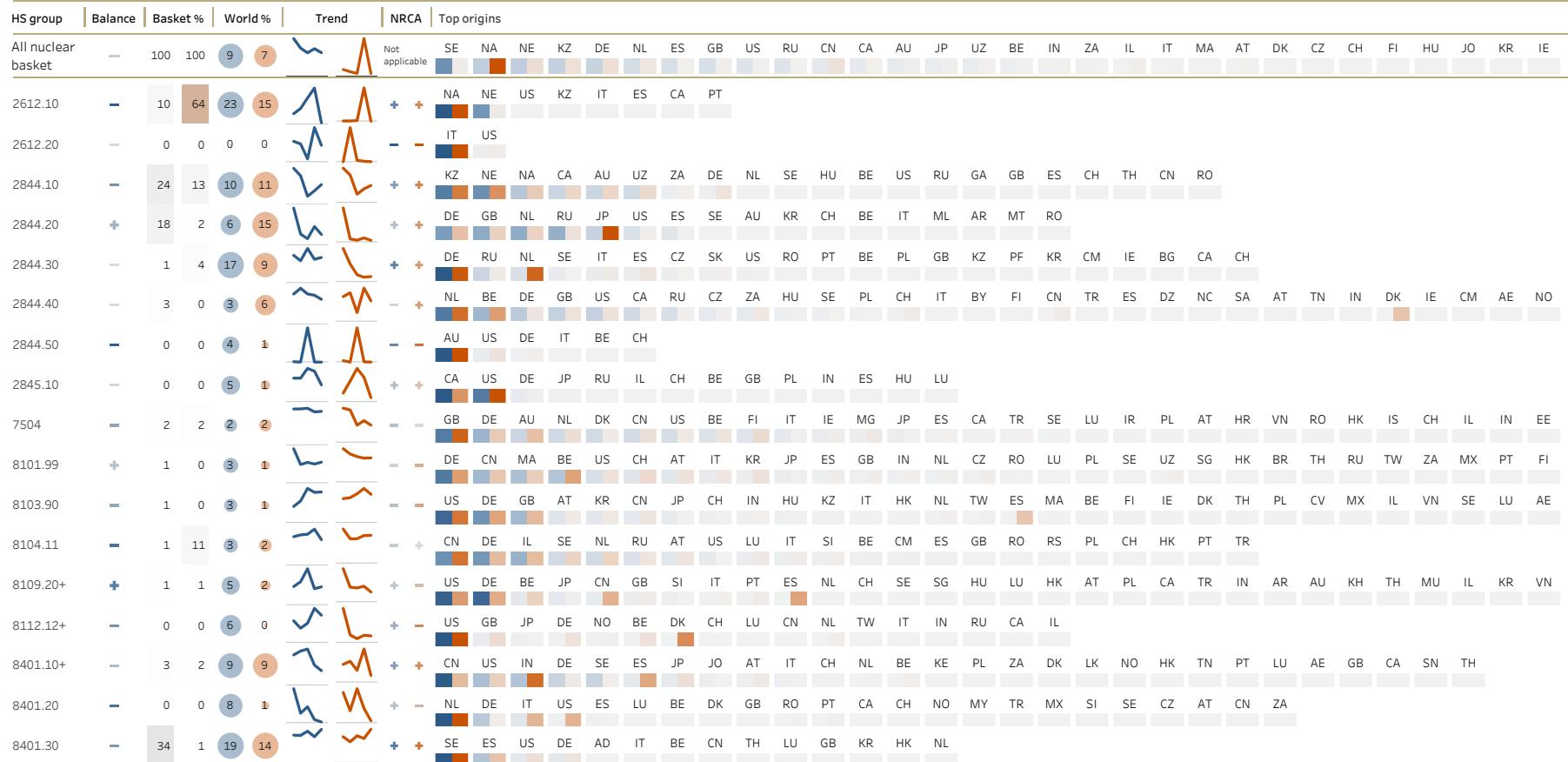


# France

## Import

Years 2016-2020 BACI records: 1,301

NPT: Party NSG: Member  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
force  
IAEA BC: Nuclear Weapon State



Scale of Basket% (5 years): 1% Value = 84.0 M\$ 1% Quantity = 2,634.7 T

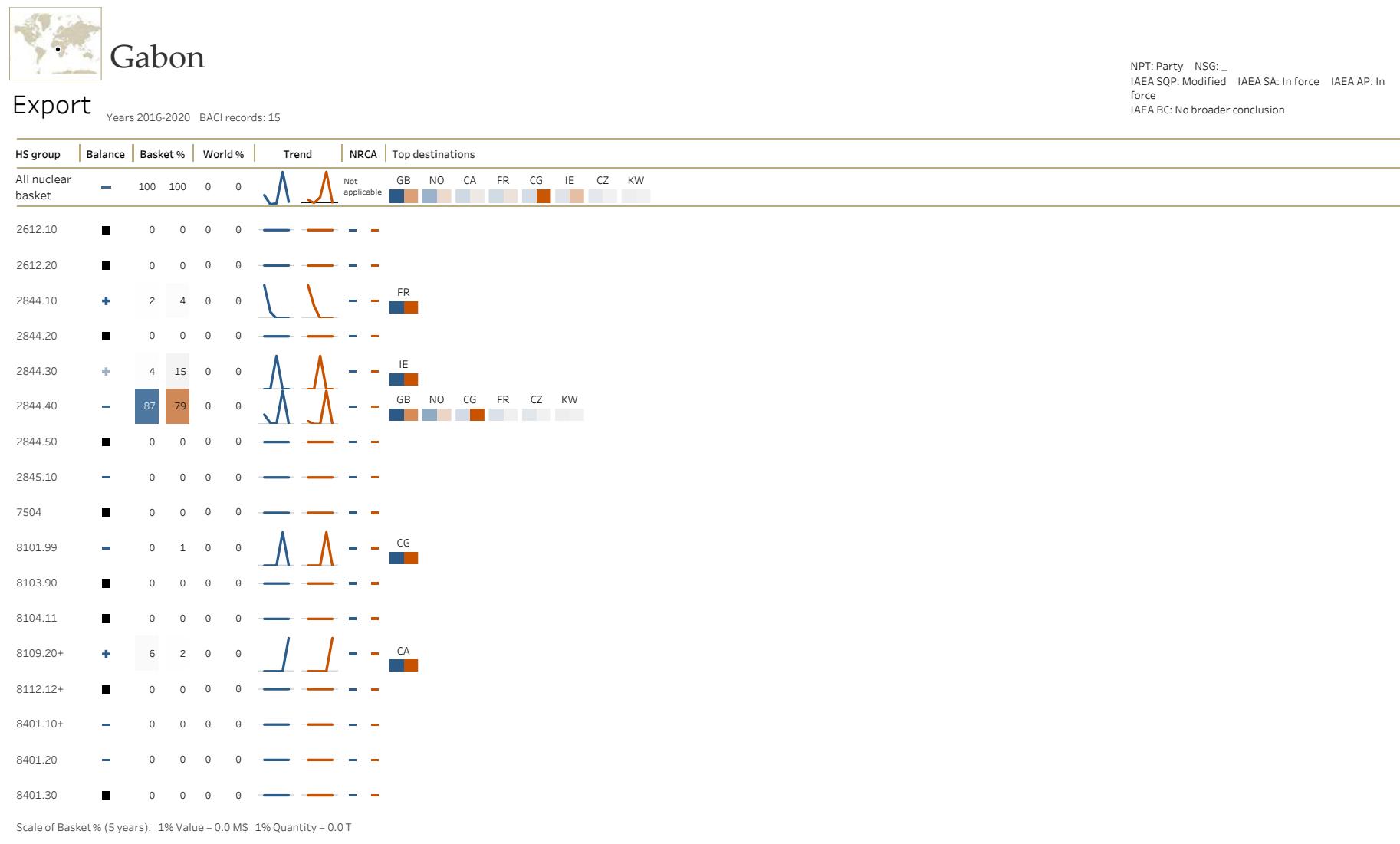


Figure 79: Gabon

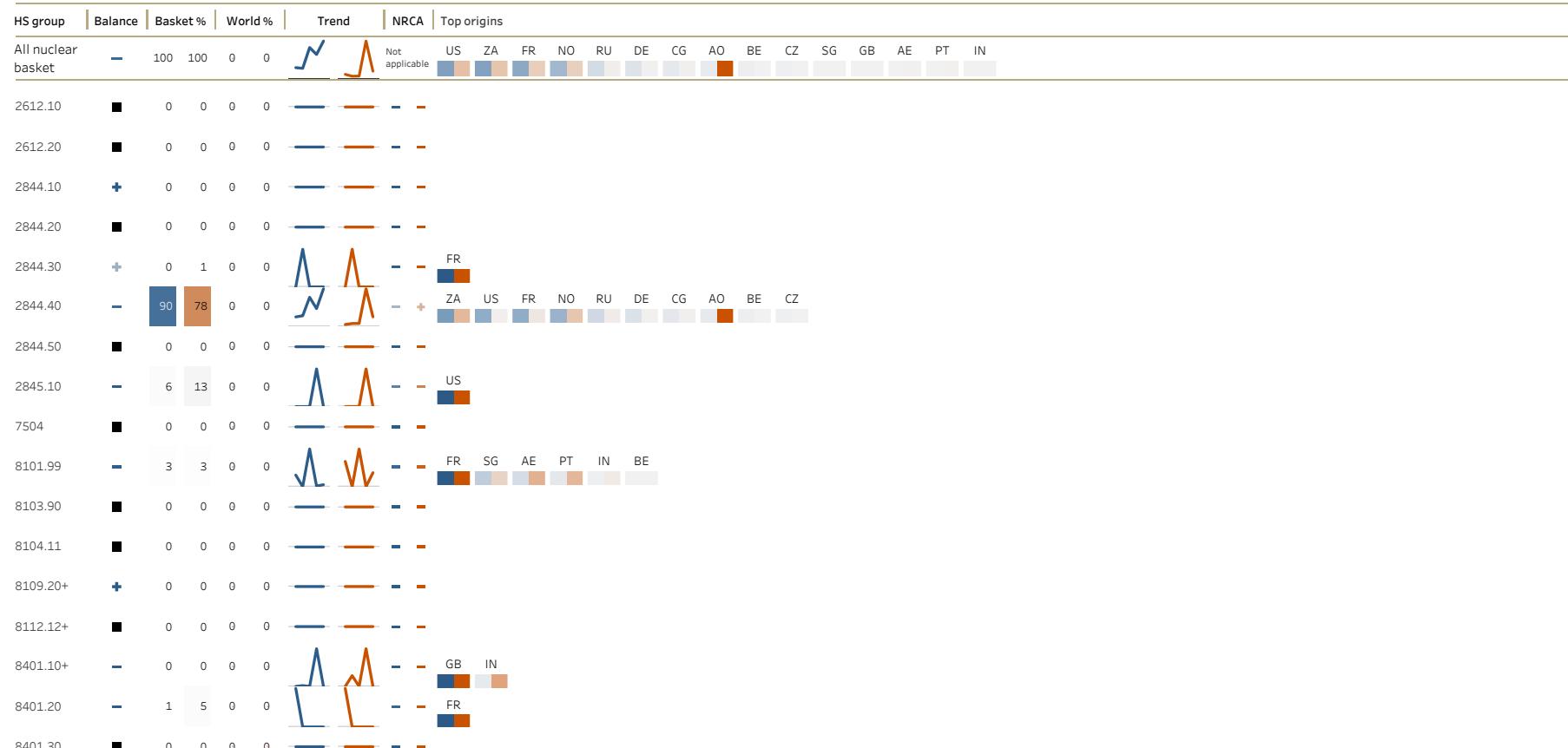


# Gabon

## Import

Years 2016-2020 BACI records: 37

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.1 T



## Georgia

### Export

Years 2016-2020 BACI records: 21

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion

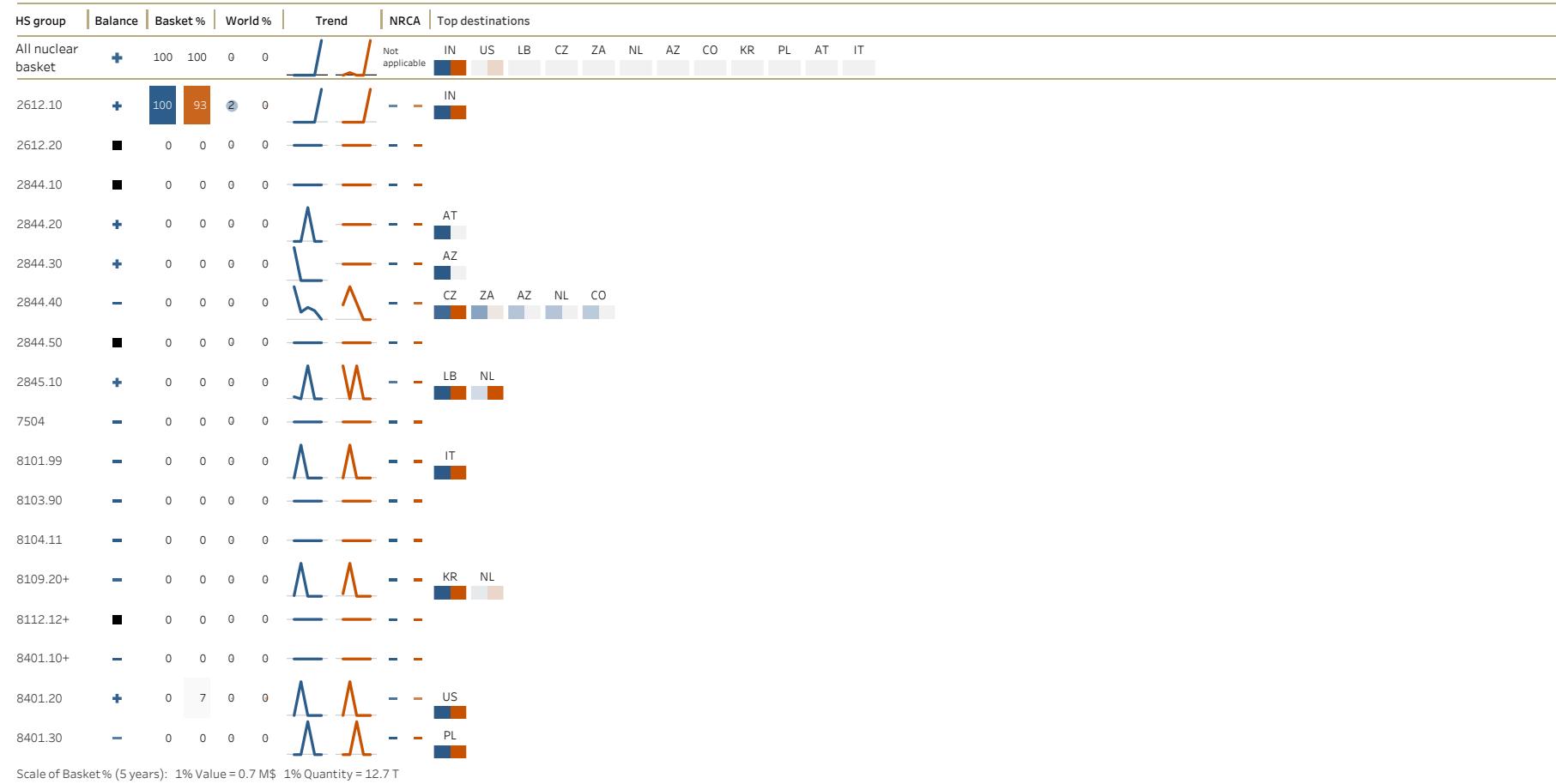


Figure 8: Georgia

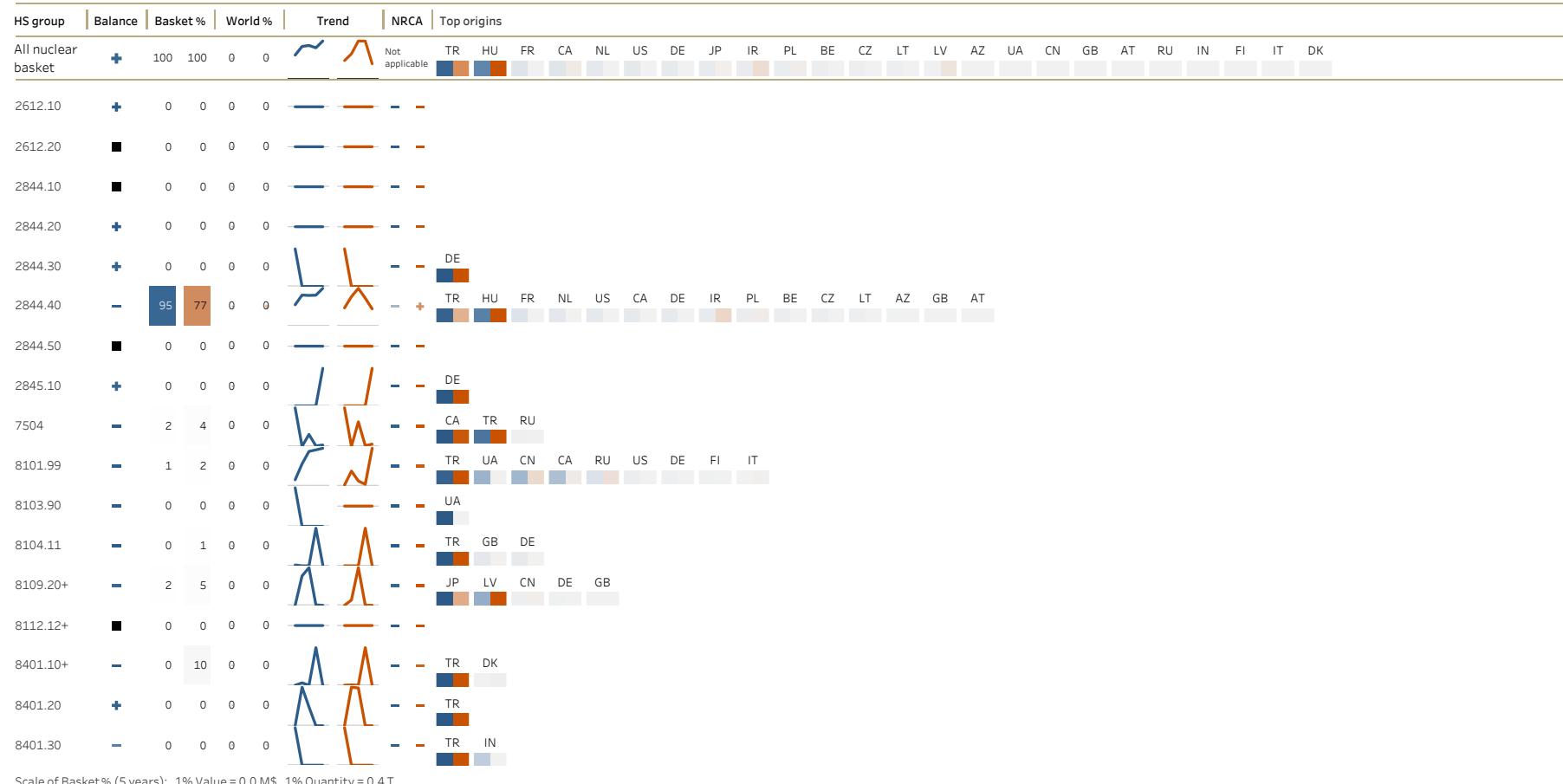


# Georgia

## Import

Years 2016-2020 BACI records: 89

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion



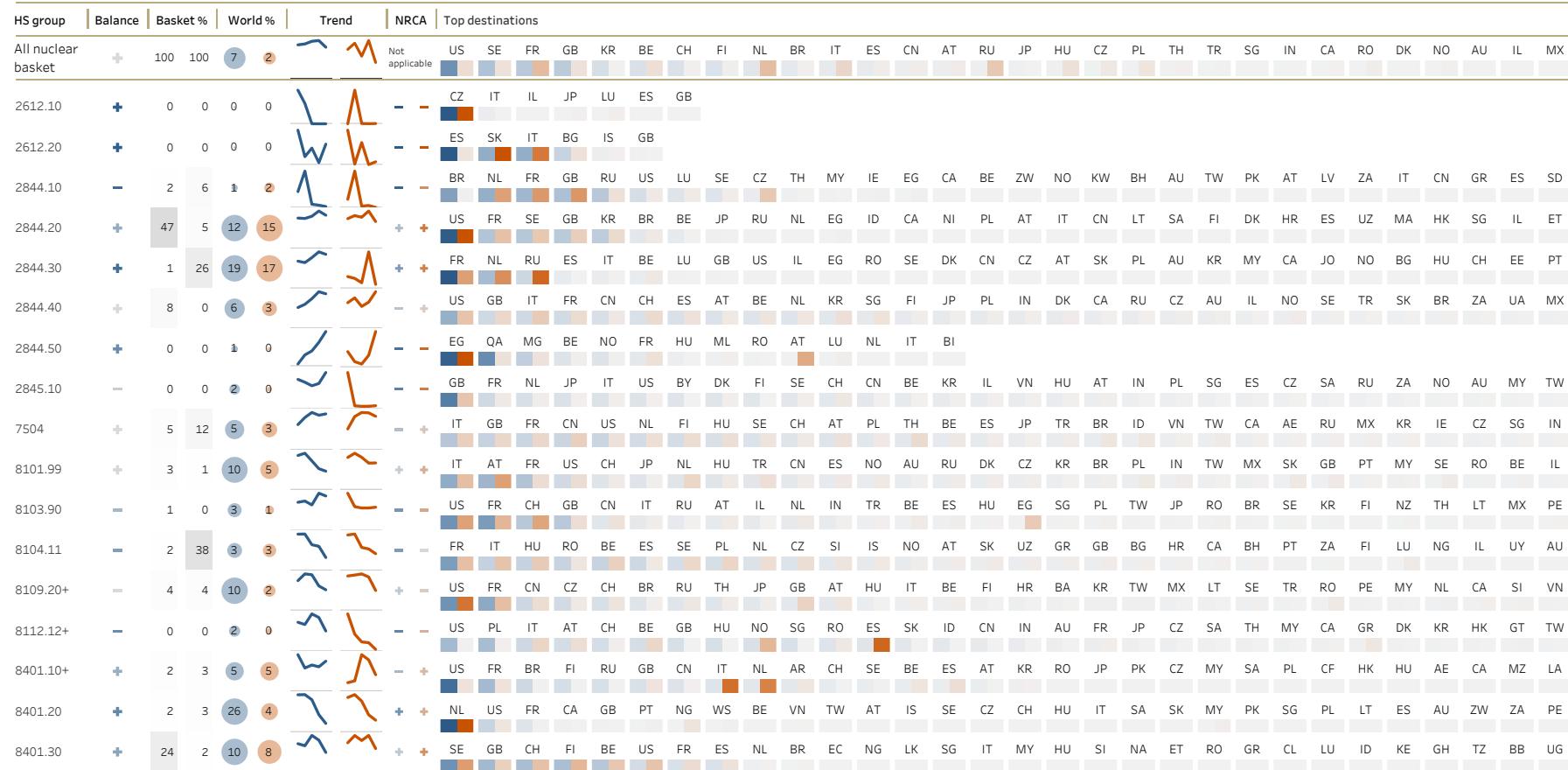


# Germany

## Export

Years 2016-2020 BACI records: 3,757

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 63.5 M\$ 1% Quantity = 825.3 T

Figure 81: Germany

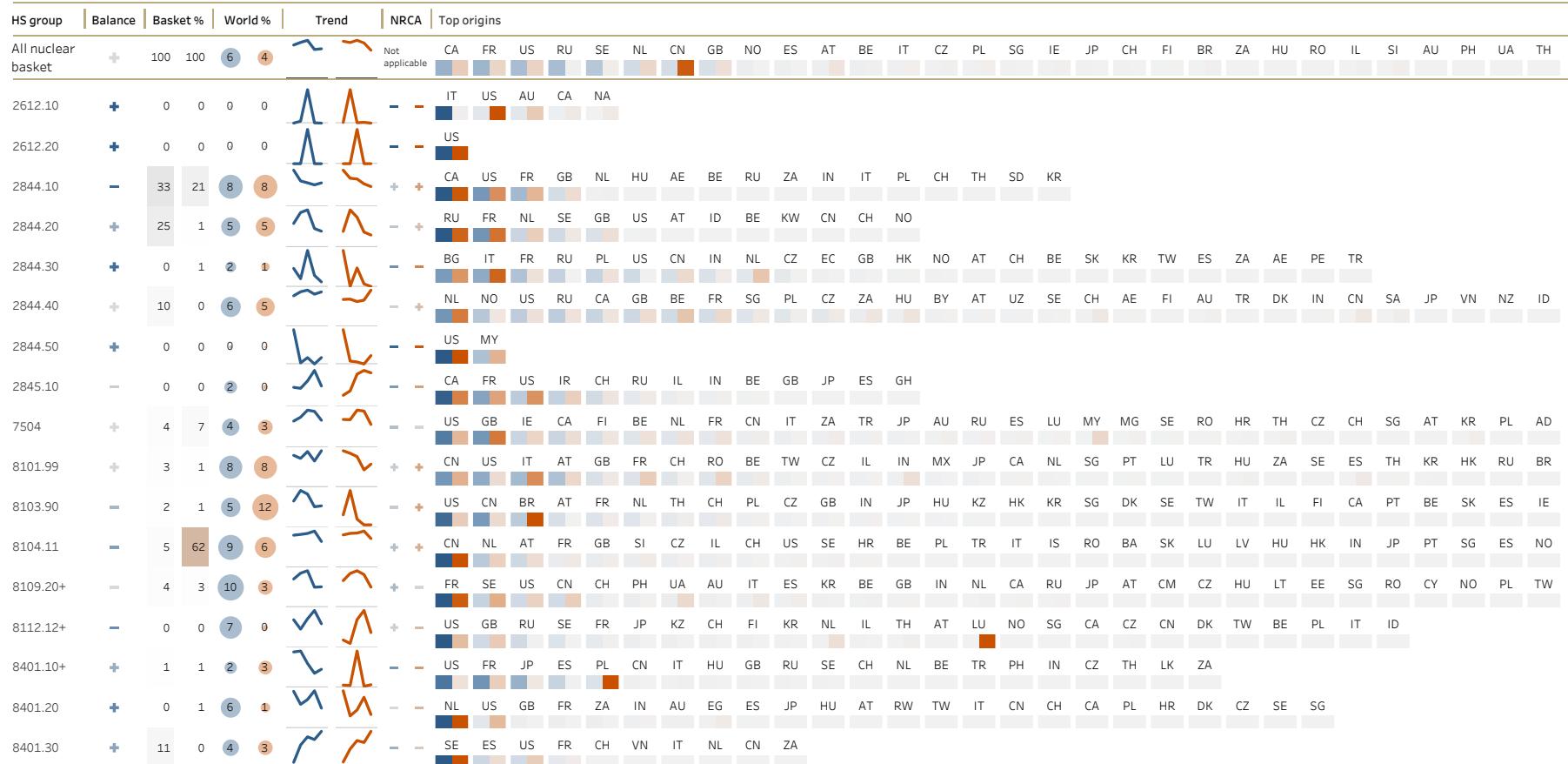


# Germany

## Import

Years 2016-2020 BACI records: 1,488

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 53.3 M\$ 1% Quantity = 1,277.6 T



## Ghana

### Export

Years 2016-2020 BACI records: 28

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

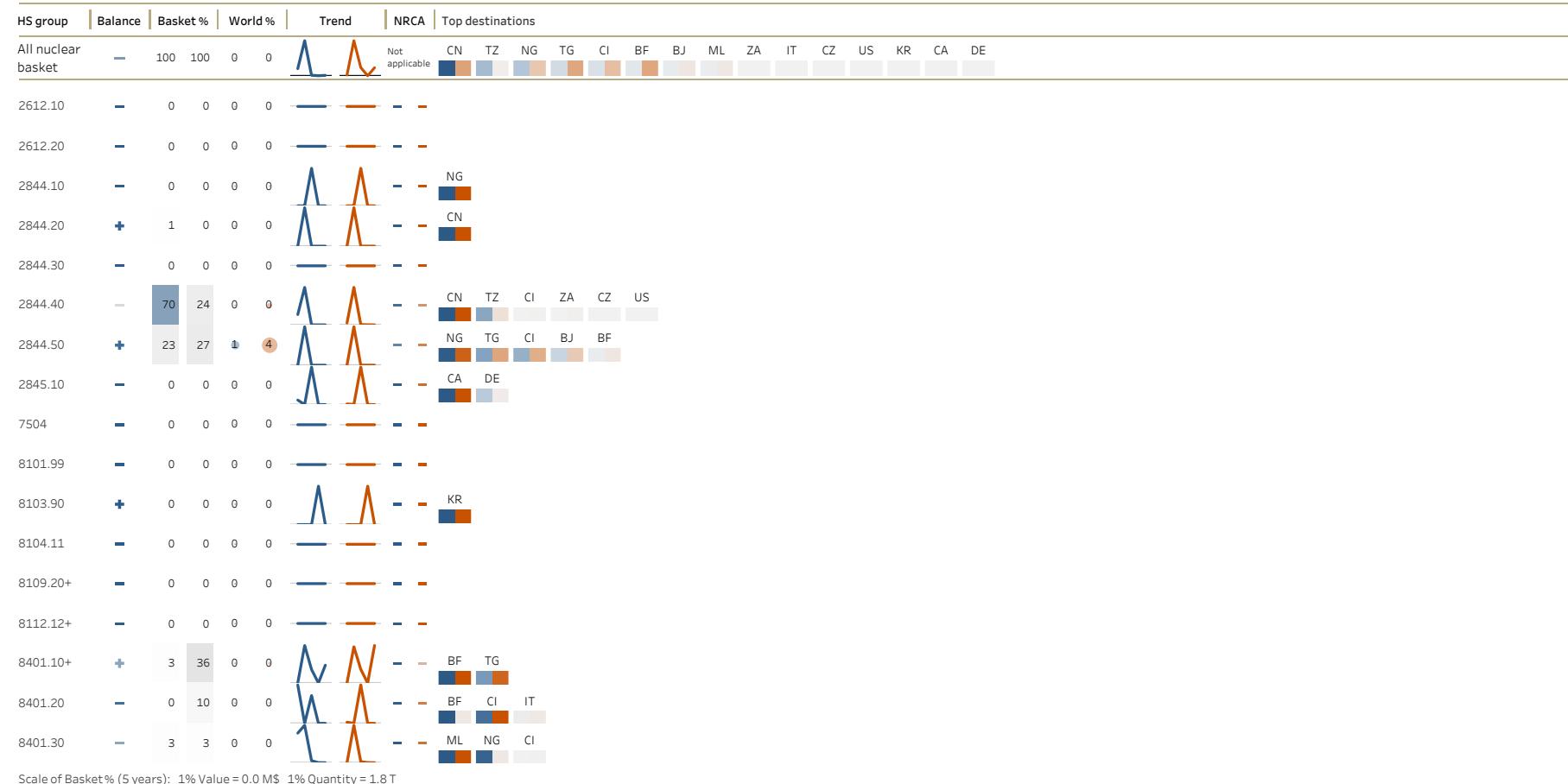


Figure 82: Ghana



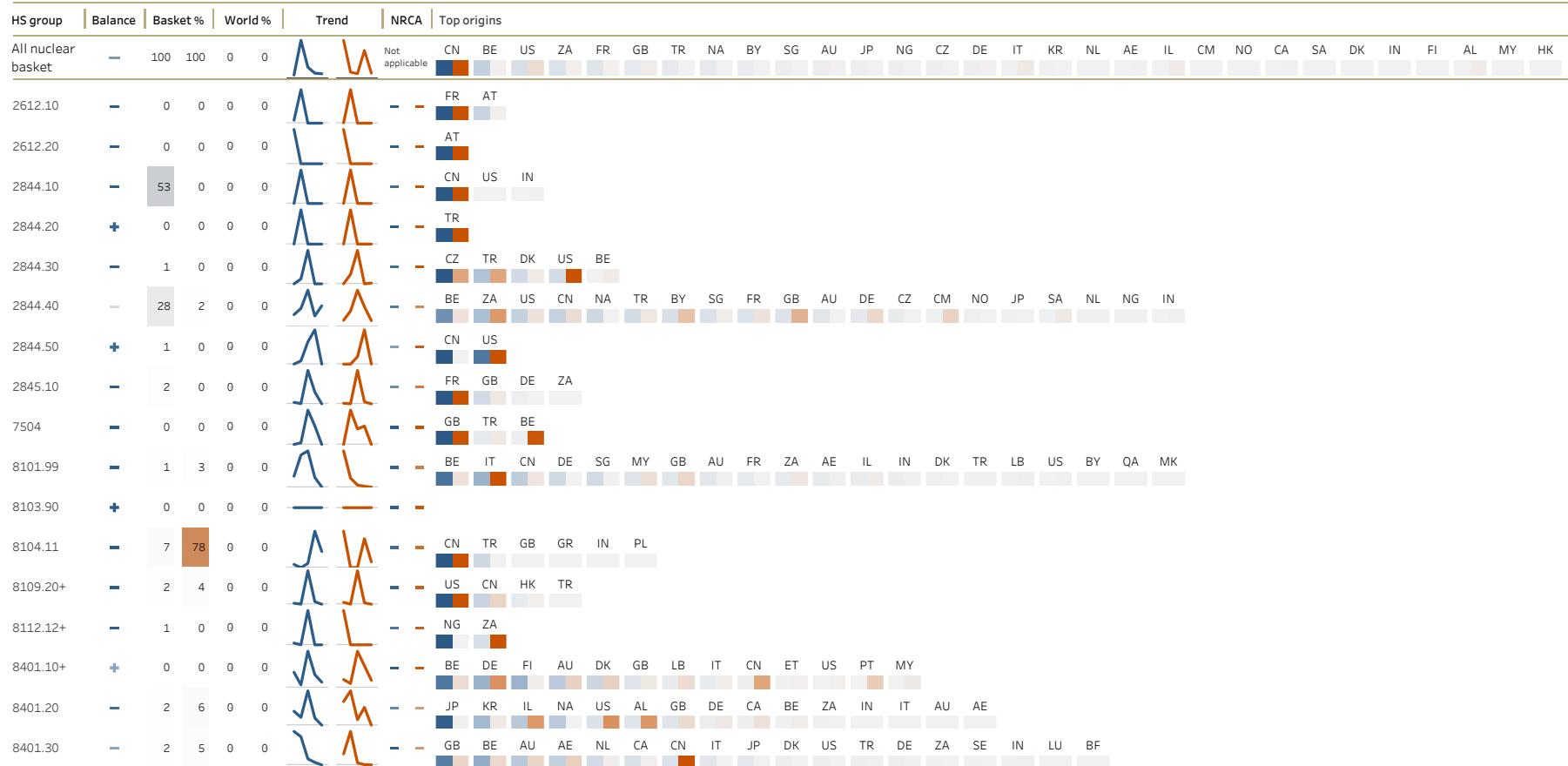
# Ghana

## Import

Years 2016-2020 BACI records: 195

### Non-proliferation commitments

NPT: Party NSG: —  
IAEA SQP: — IAEA SA: In force IAEA AP: In force  
IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.1 M\$ 1% Quantity = 2.7 T

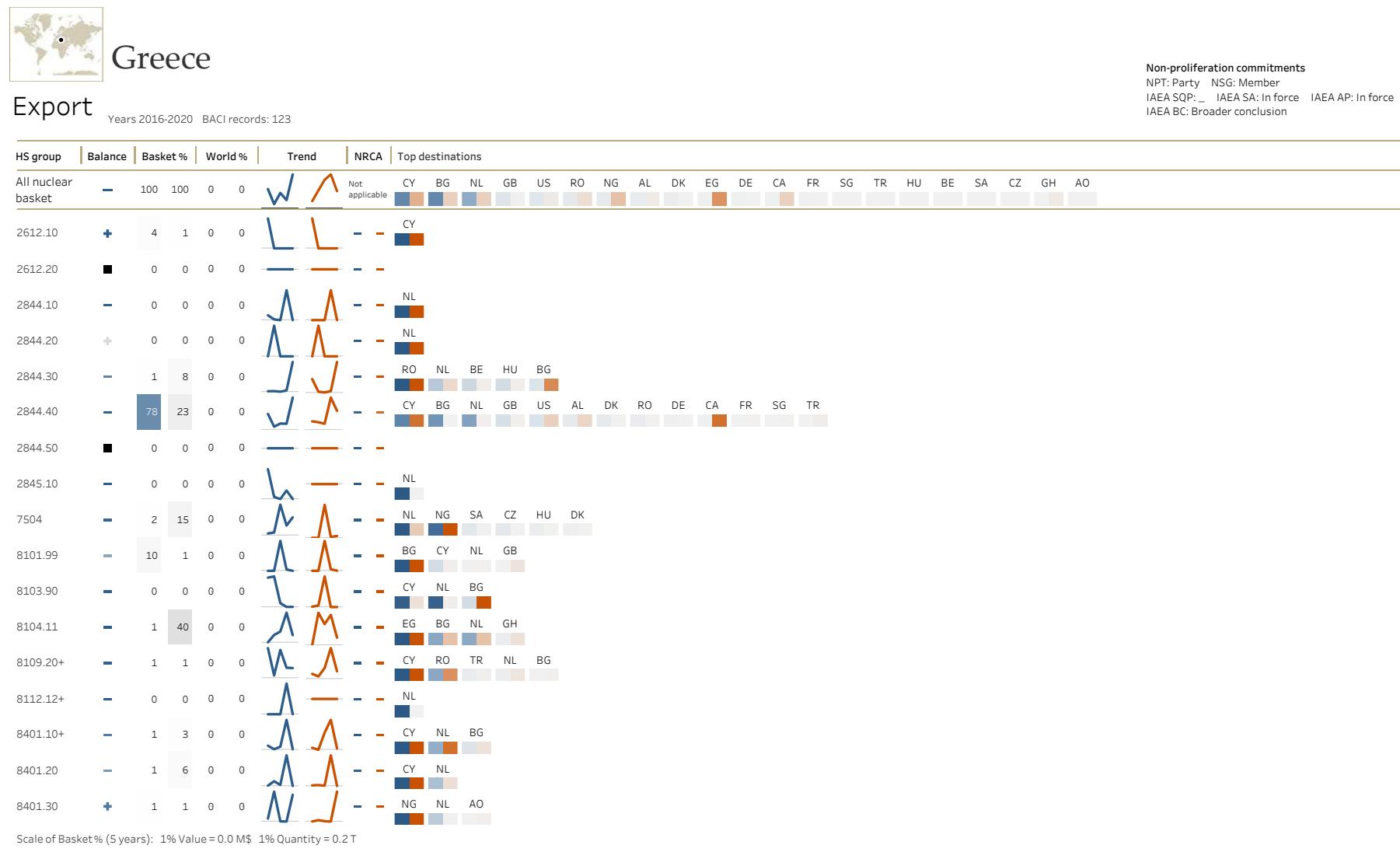


Figure 83: Greece

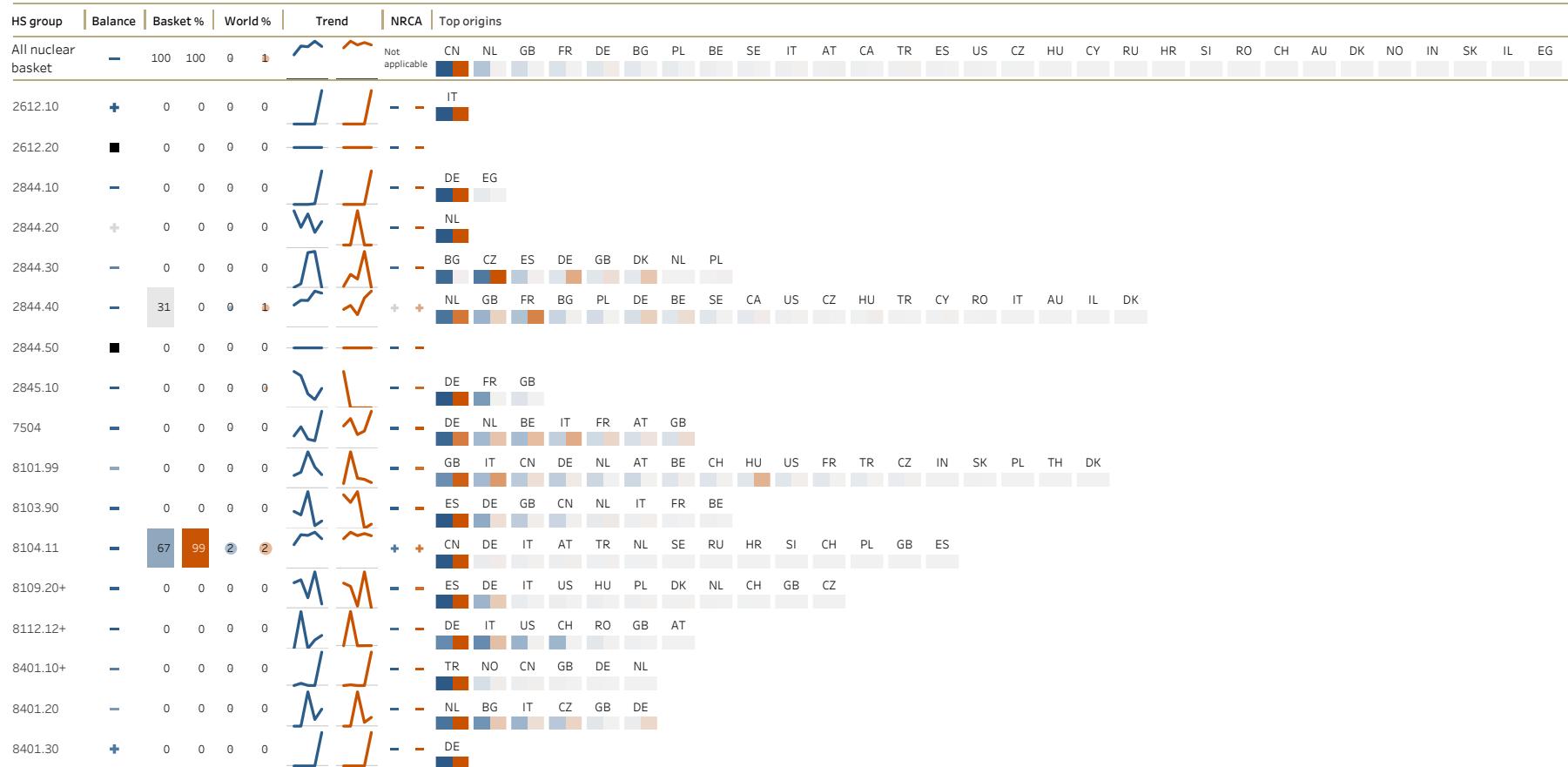


# Greece

## Import

Years 2016-2020 BACI records: 298

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 1.0 M\$ 1% Quantity = 297.2 T



## Guatemala

### Export

Years 2016-2020 BACI records: 27

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion

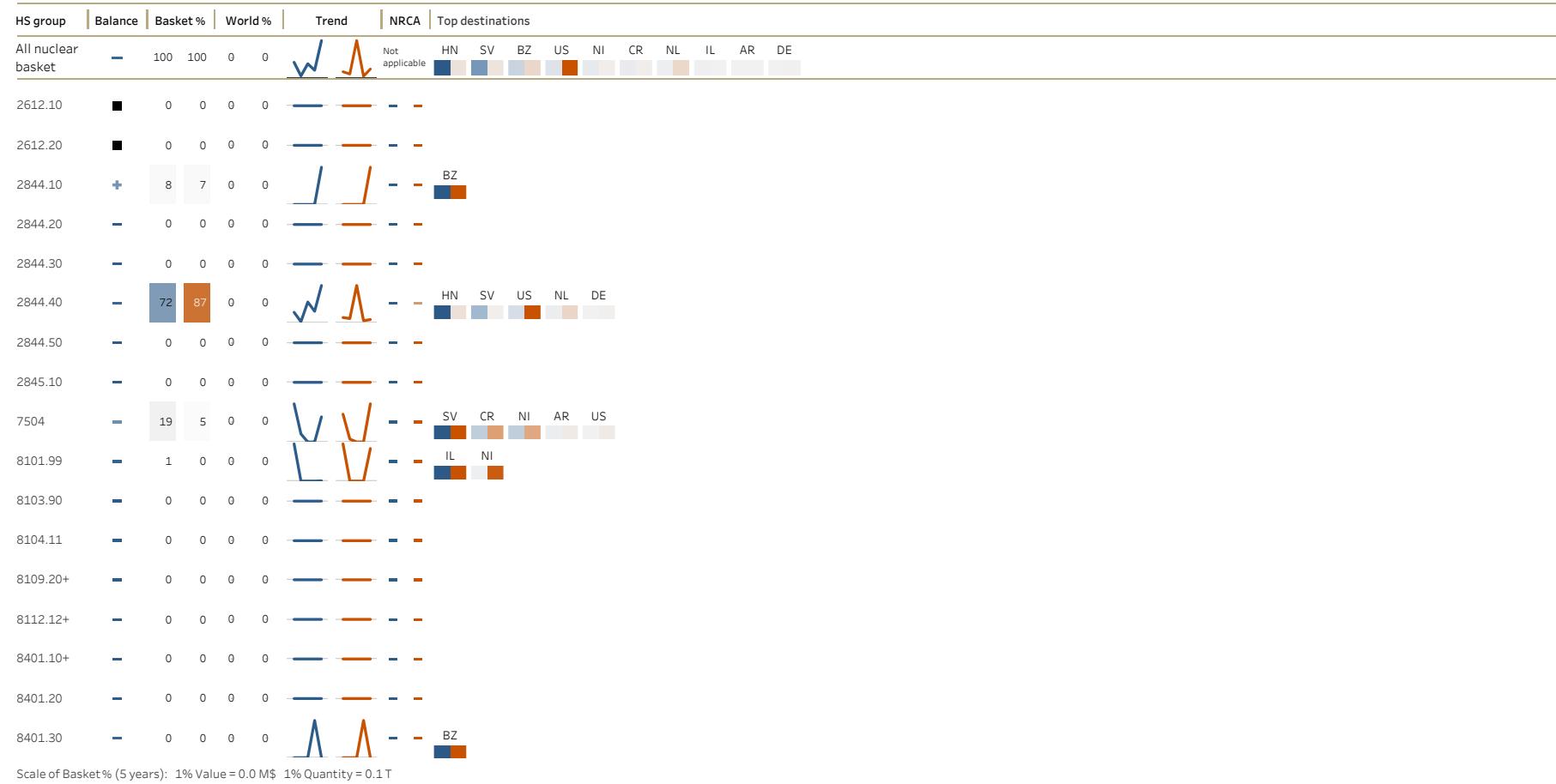


Figure 84: Guatemala

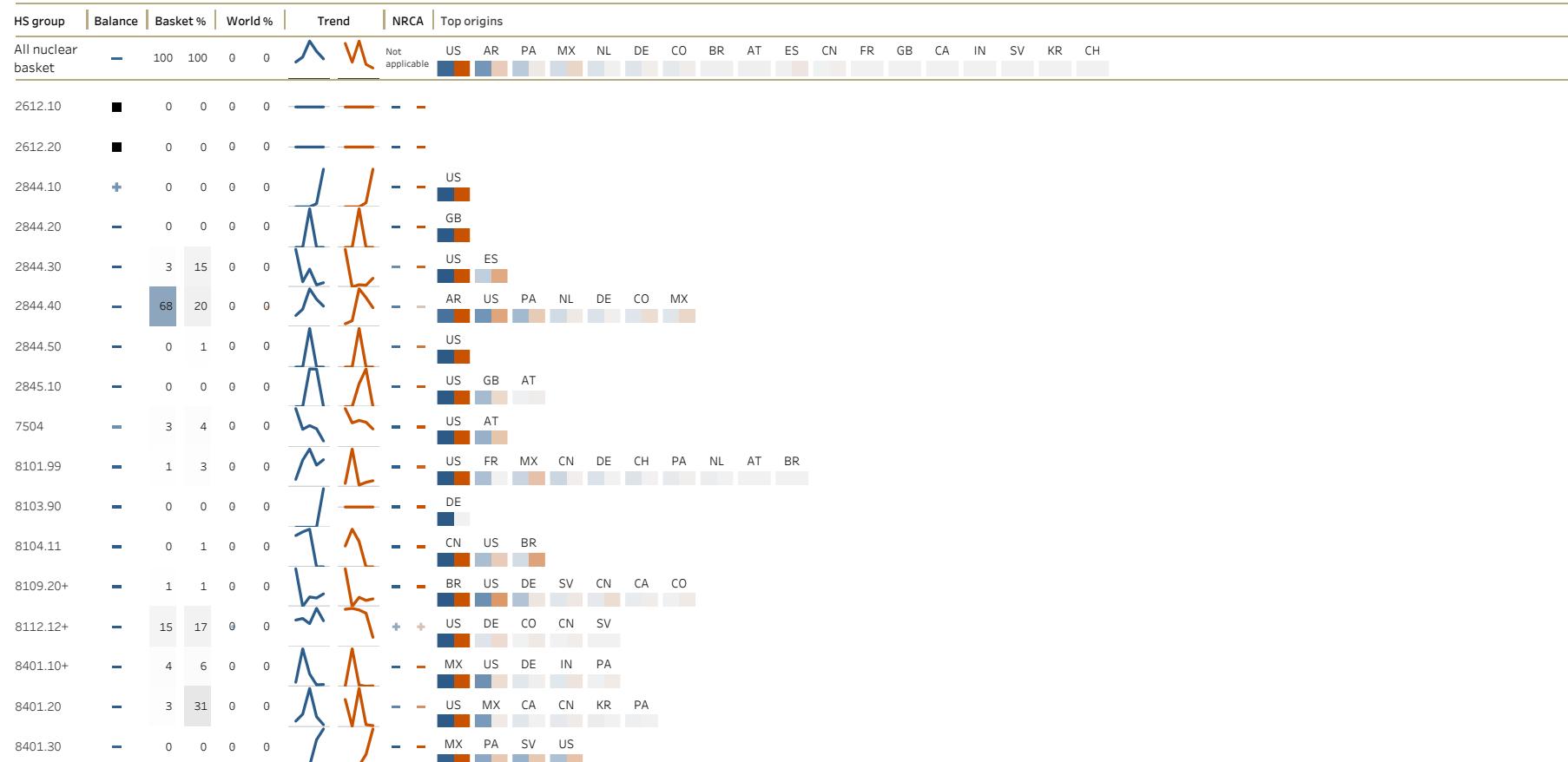


# Guatemala

## Import

Years 2016-2020 BACI records: 130

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.8 T

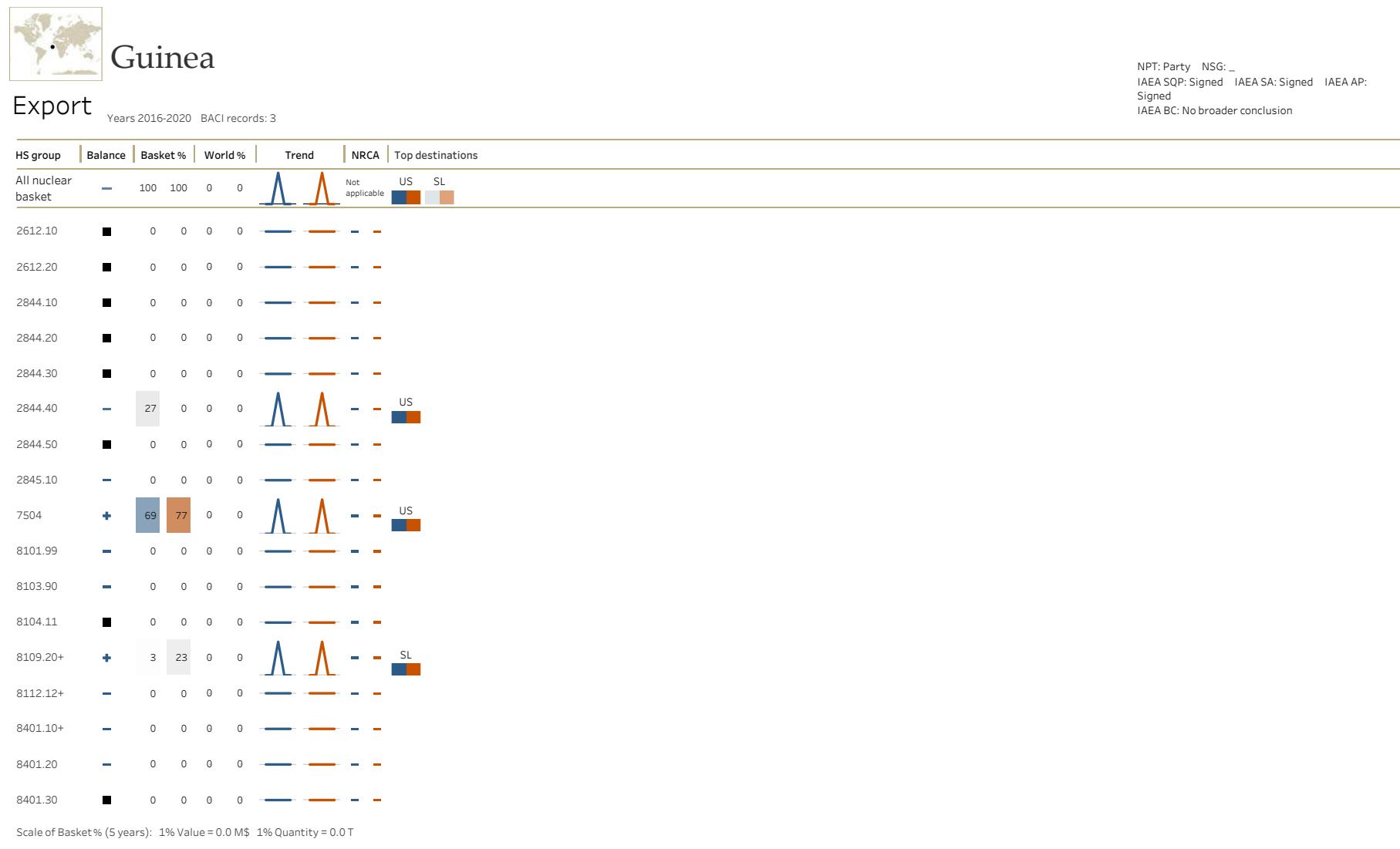


Figure 85: Guinea

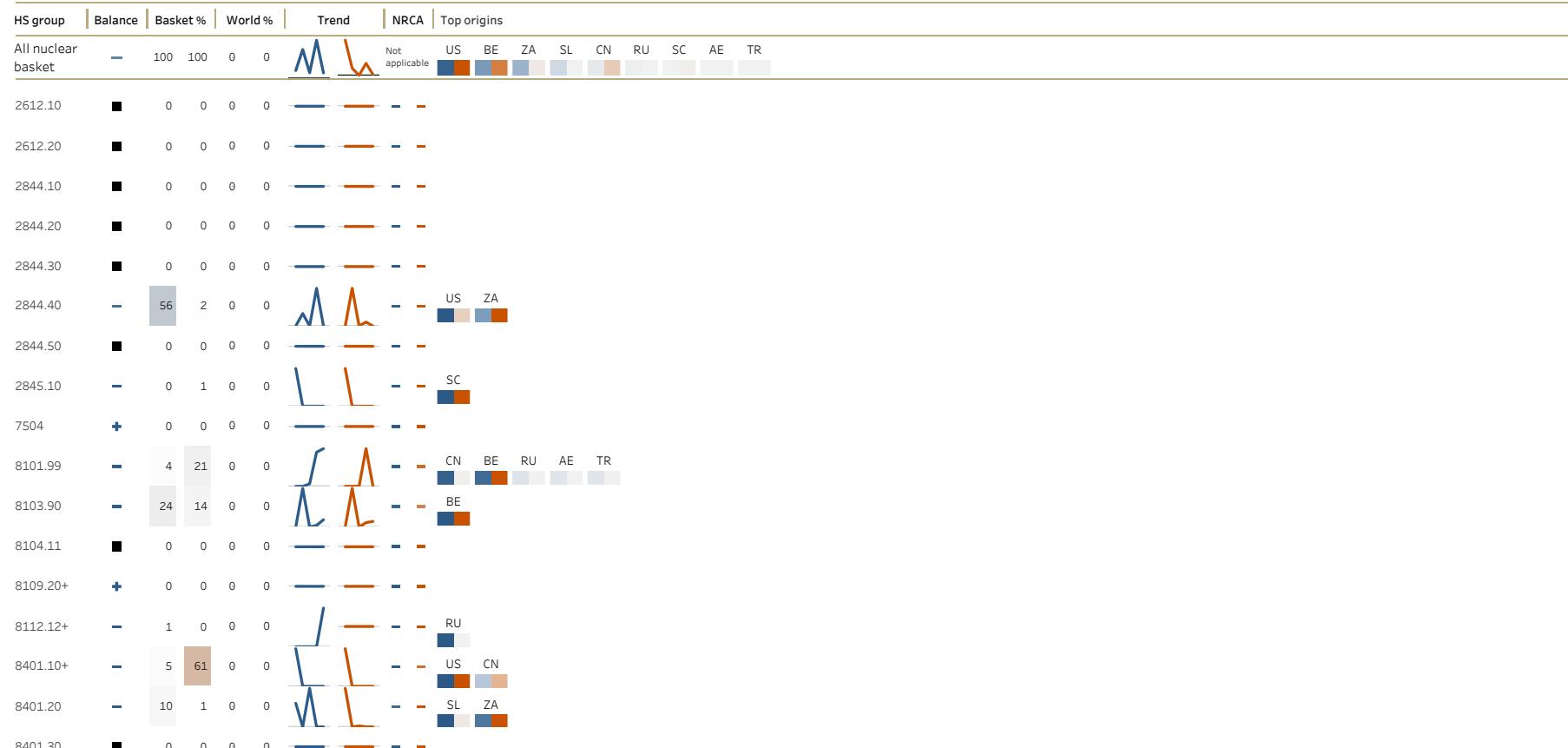


# Guinea

## Import

Years 2016-2020 BACI records: 16

NPT: Party NSG: –  
 IAEA SQP: Signed IAEA SA: Signed IAEA AP:  
 Signed  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.1 T



Figure 86: Guyana

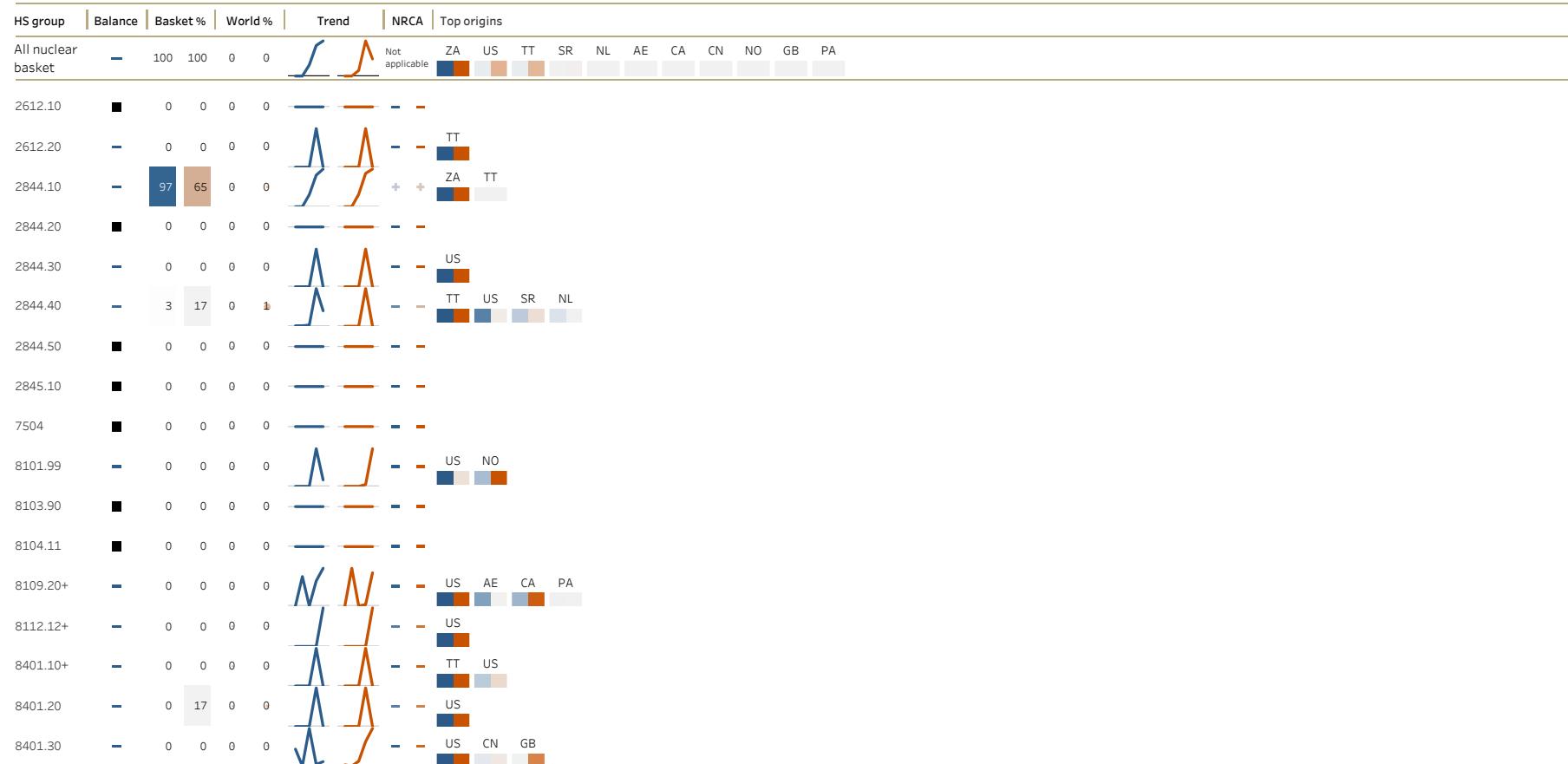


# Guyana

## Import

Years 2016-2020 BACI records: 30

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: Original IAEA SA: In force IAEA AP: —  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.2 M\$ 1% Quantity = 4.9 T



Haiti

Export

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion

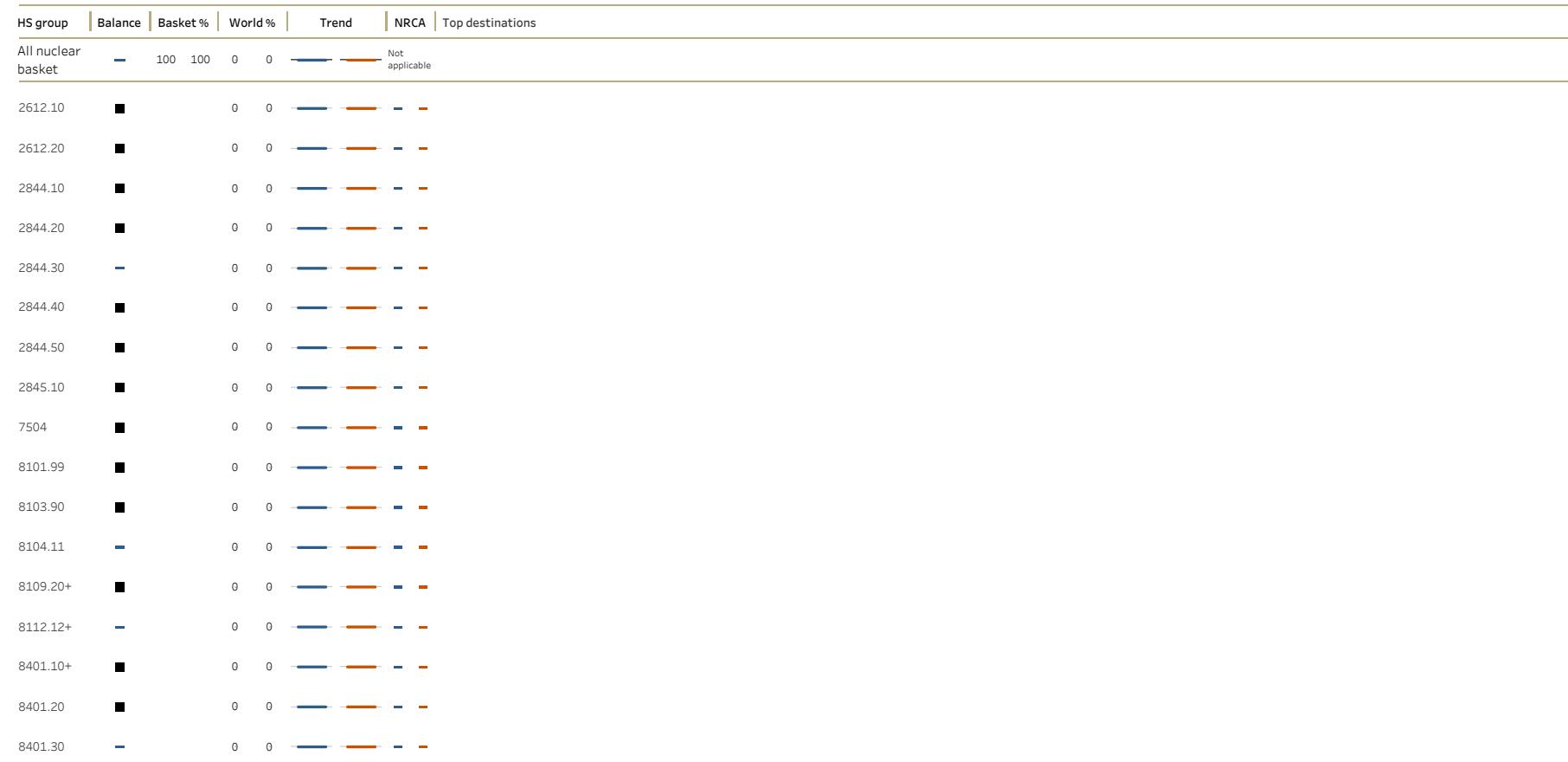


Figure 87. Haiti

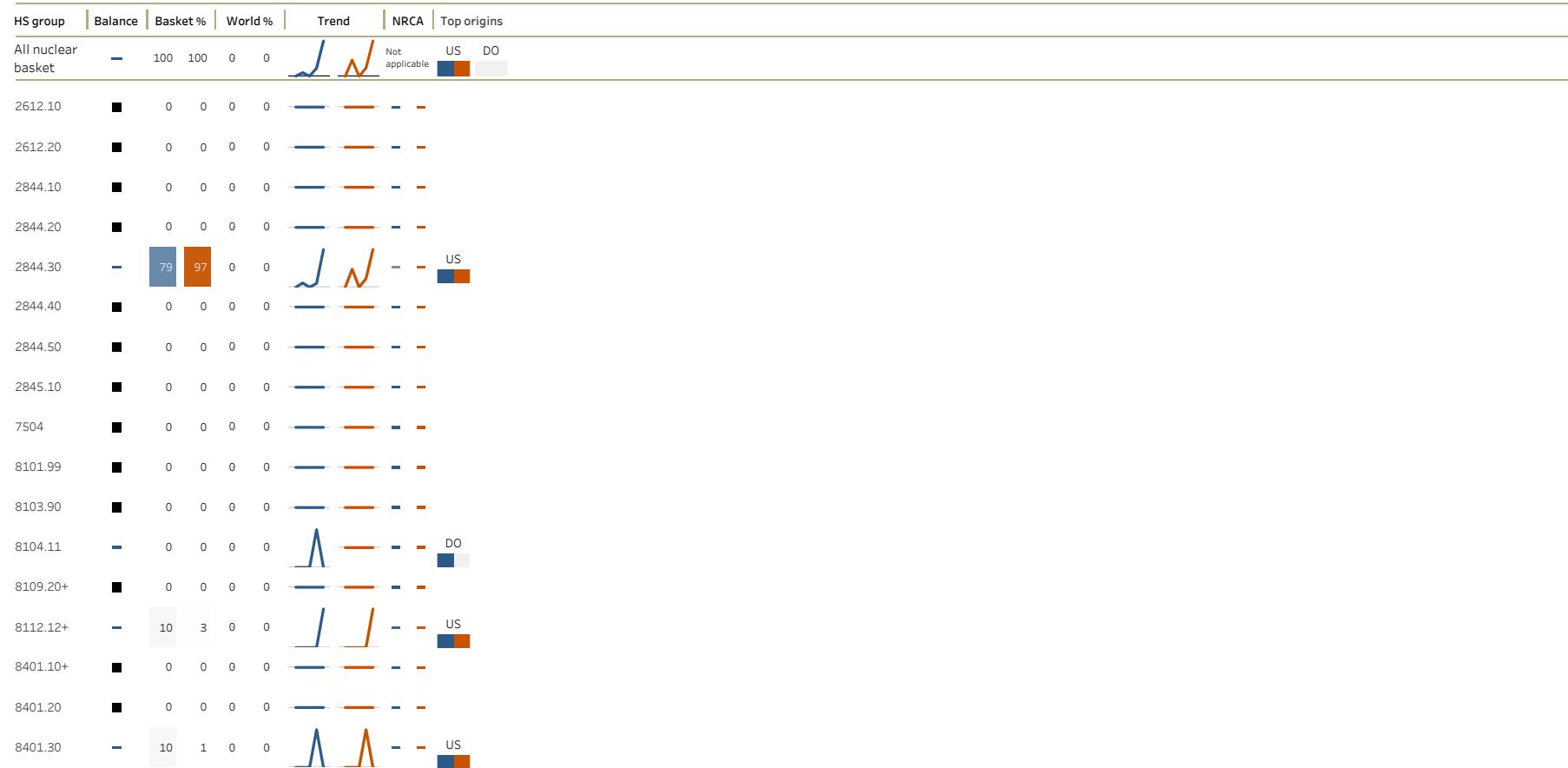


# Haiti

## Import

Years 2016-2020 BACI records: 6

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion





## Honduras

### Export

Years 2016-2020 BACI records: 6

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion

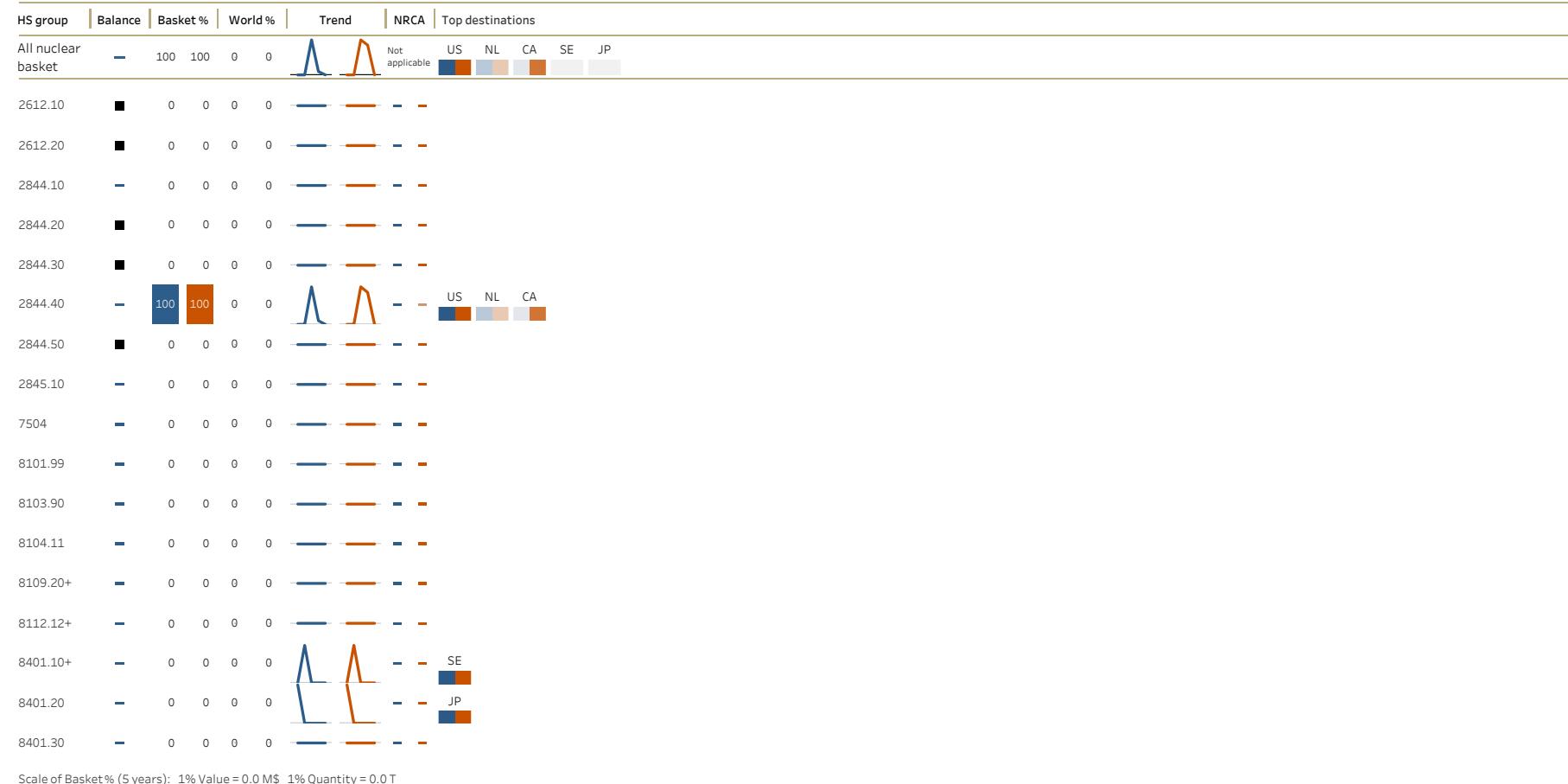


Figure 88: Honduras

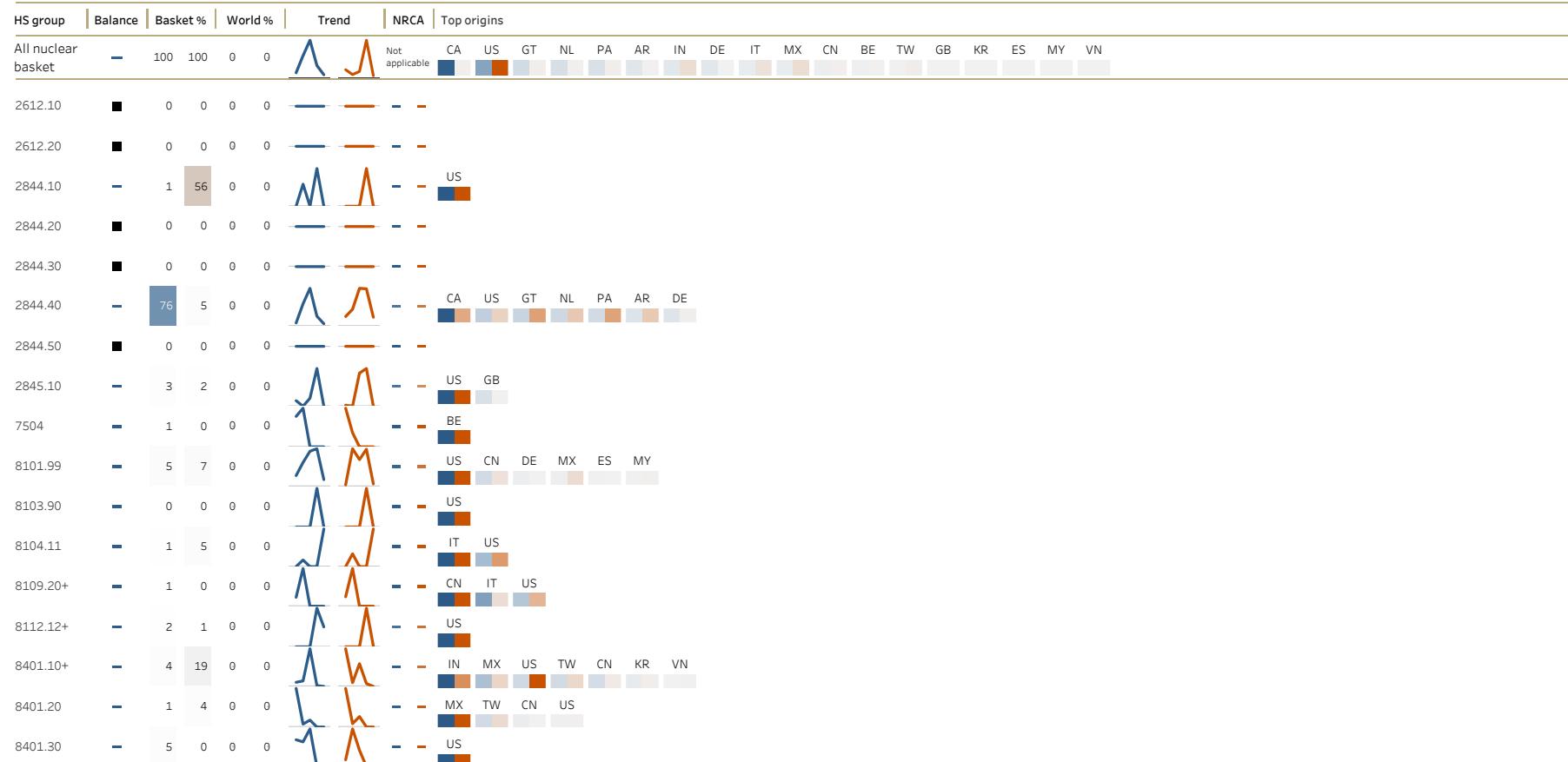


# Honduras

## Import

Years 2016-2020 BACI records: 71

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.3 T

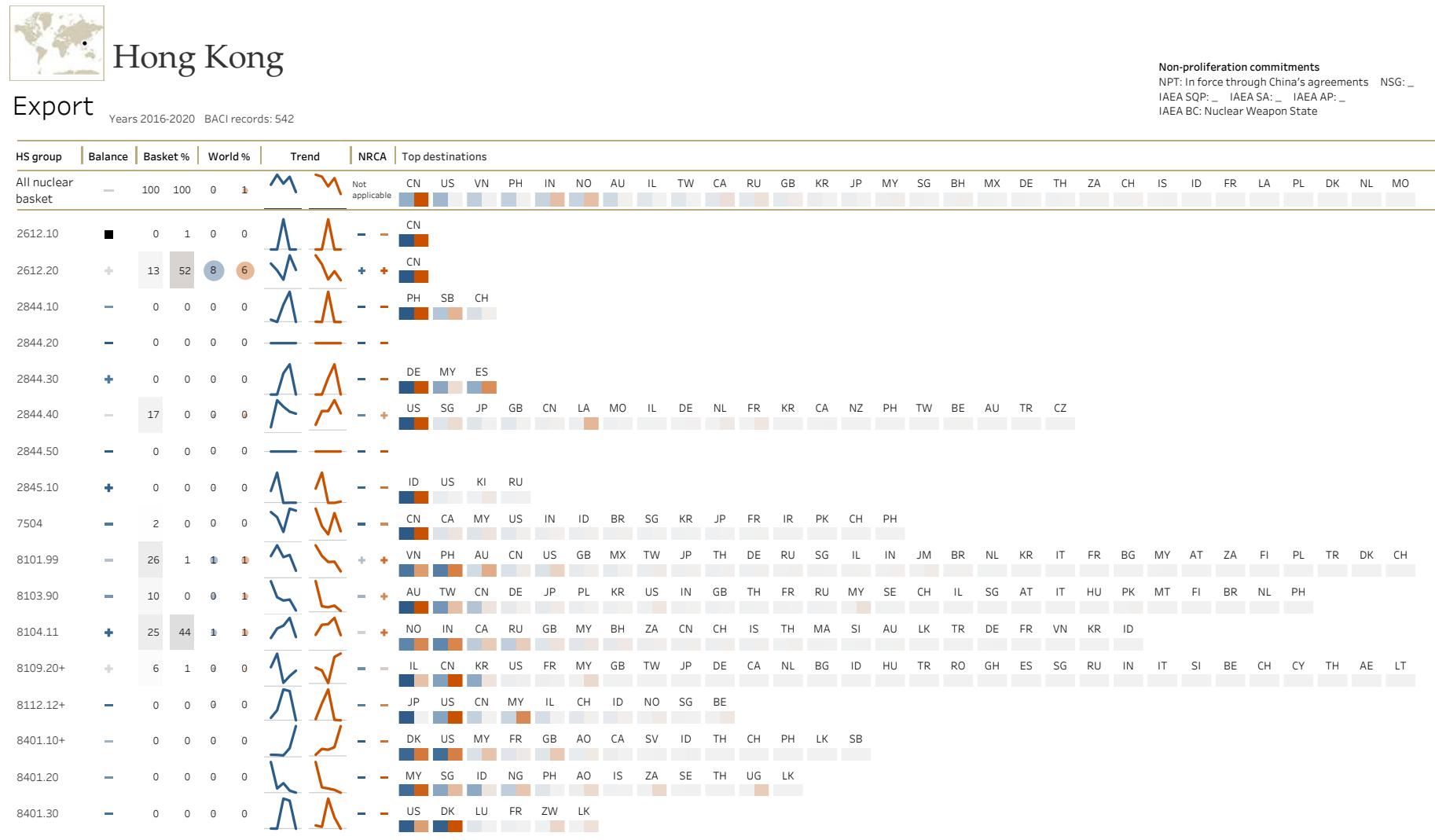


Figure 89: Hong Kong



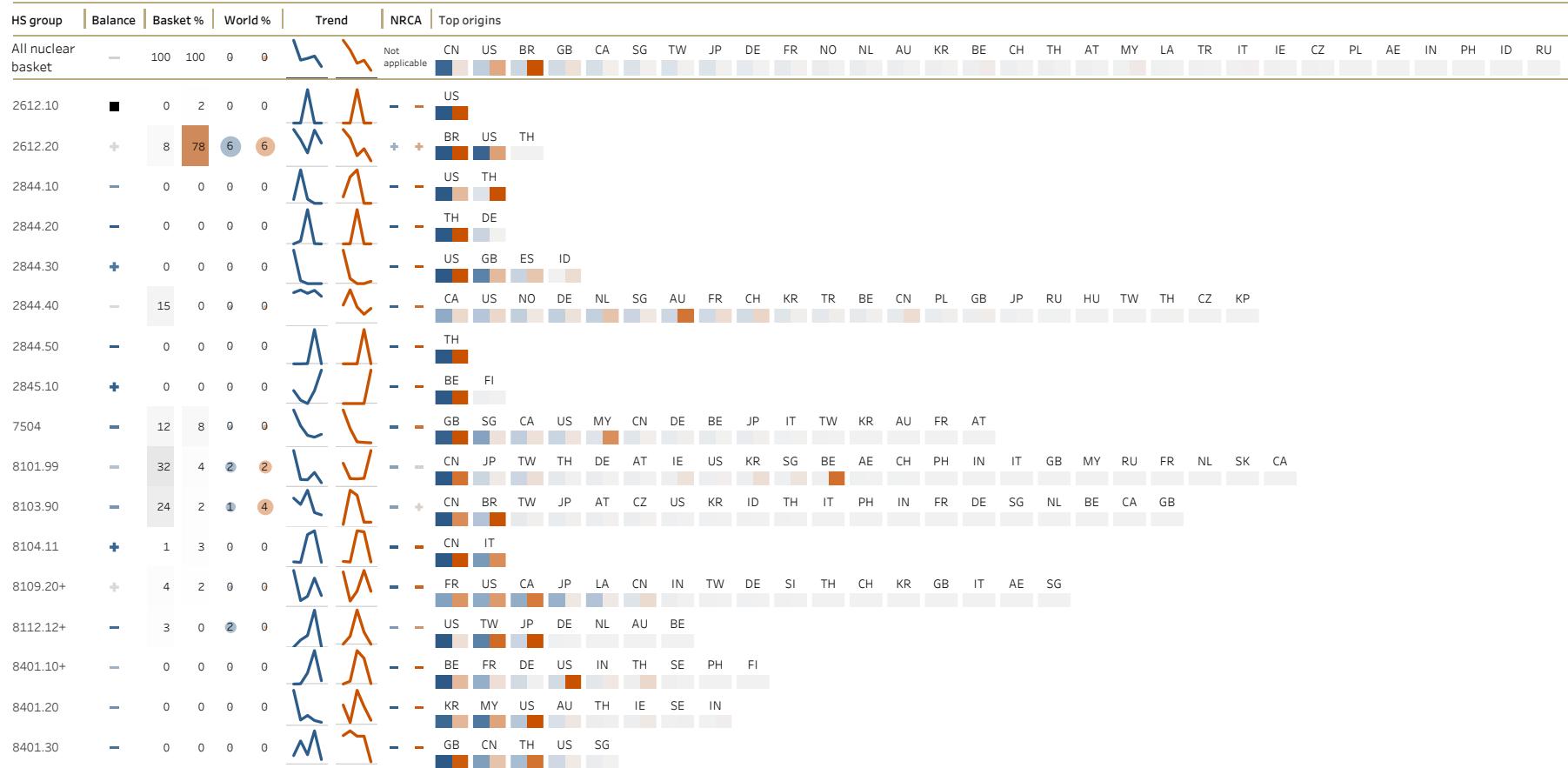
# Hong Kong

## Import

Years 2016-2020 BACI records: 416

### Non-proliferation commitments

NPT: In force through China's agreements NSG: —  
IAEA SQP: — IAEA SA: — IAEA AP: —  
IAEA BC: Nuclear Weapon State



Scale of Basket% (5 years): 1% Value = 1.1 M\$ 1% Quantity = 121.6 T



## Hungary

### Export

Years 2016-2020 BACI records: 758

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion

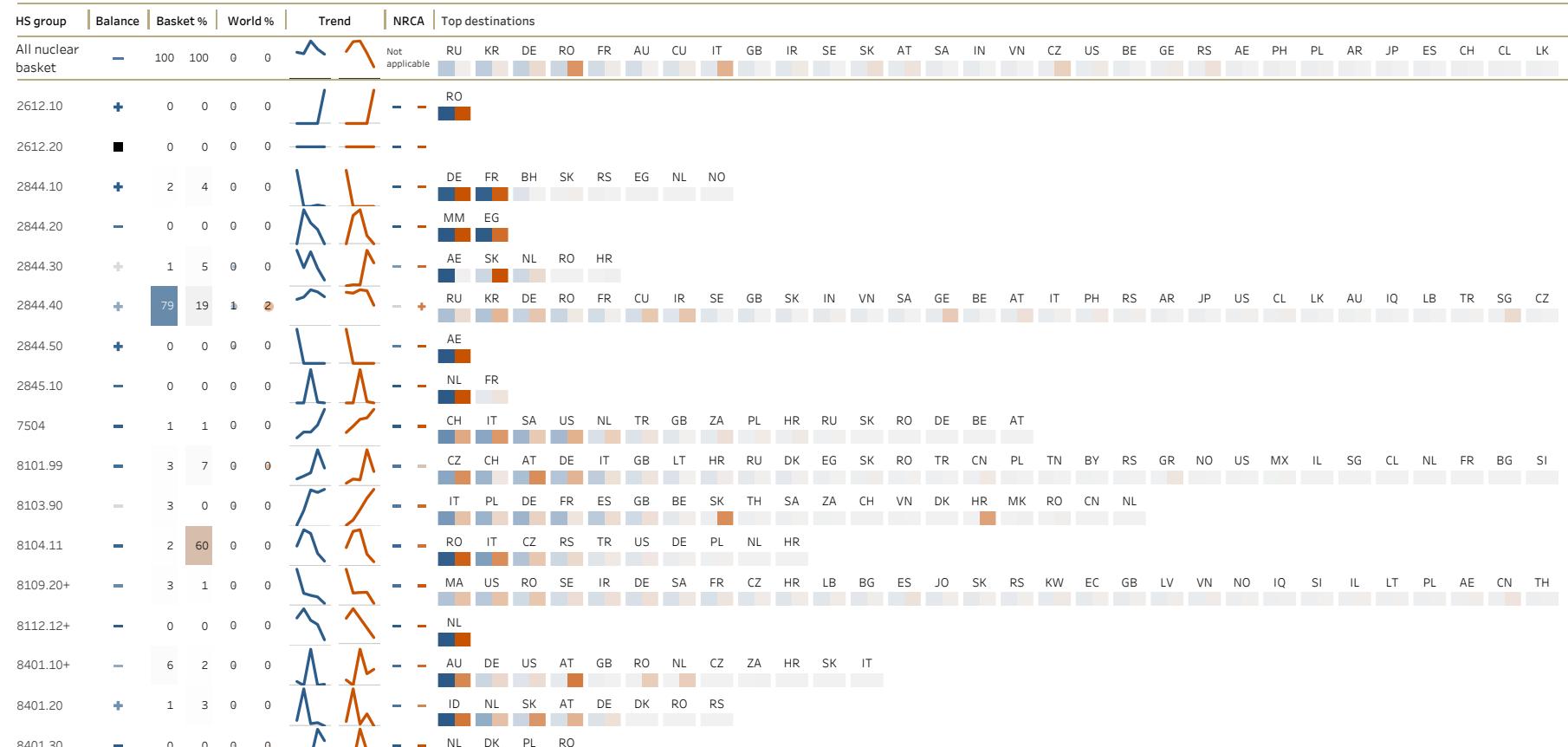


Figure 90: Hungary

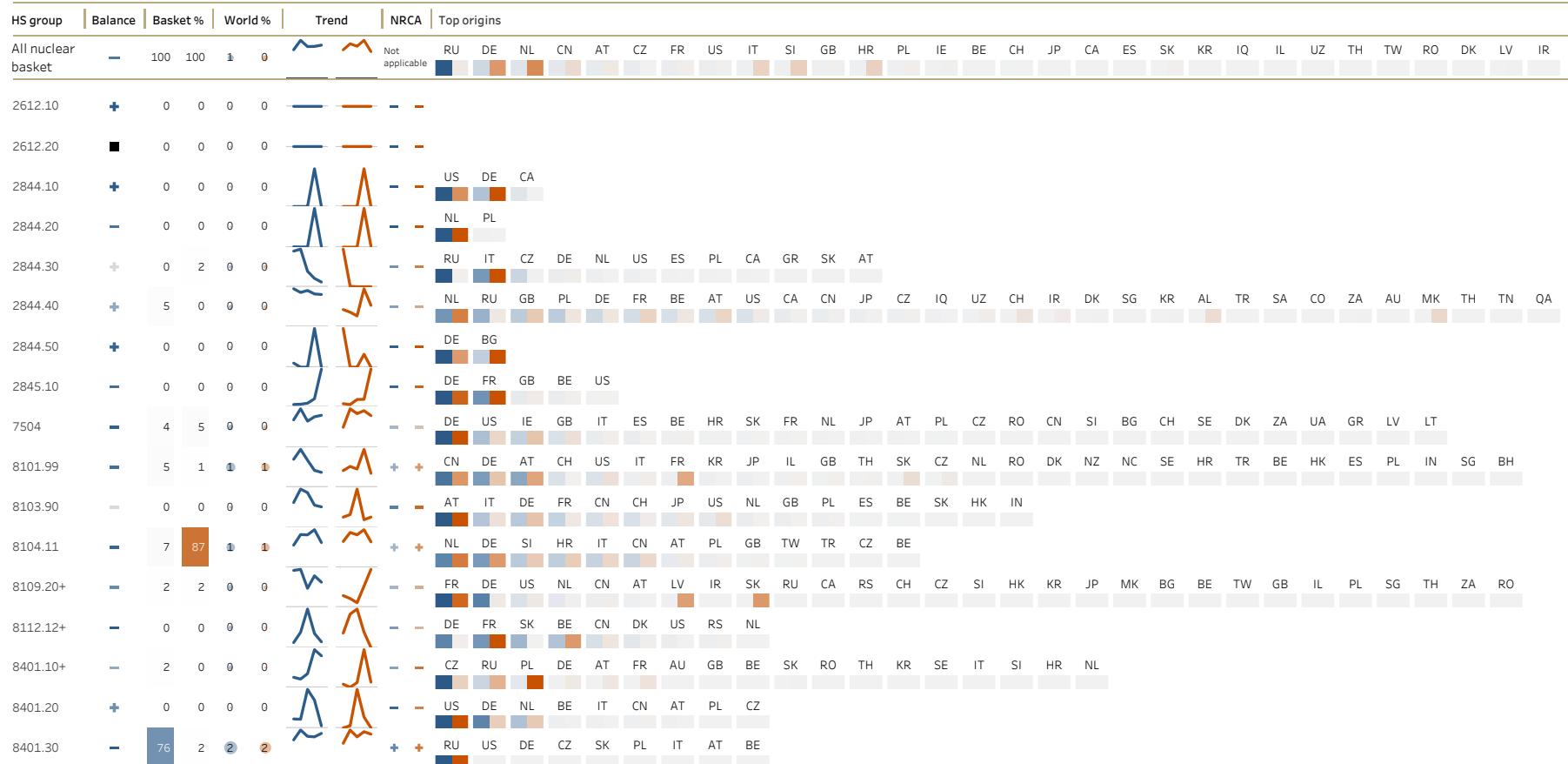


# Hungary

## Import

Years 2016-2020 BACI records: 654

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 5.0 M\$ 1% Quantity = 149.5 T

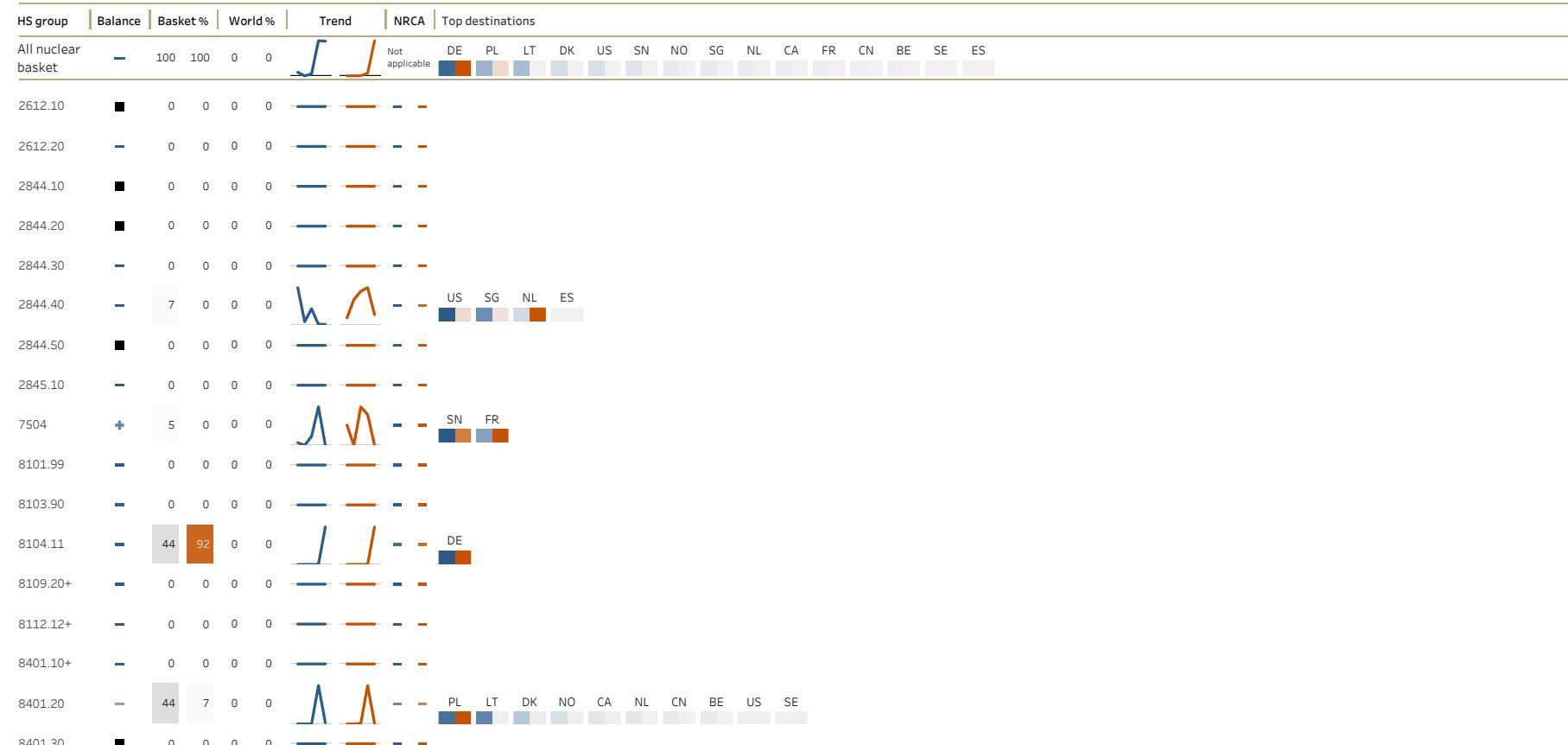


## Iceland

### Export

Years 2016-2020 BACI records: 27

NPT: Party NSG: Member  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
force  
IAEA BC: Broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.5 T

Figure 91: Iceland

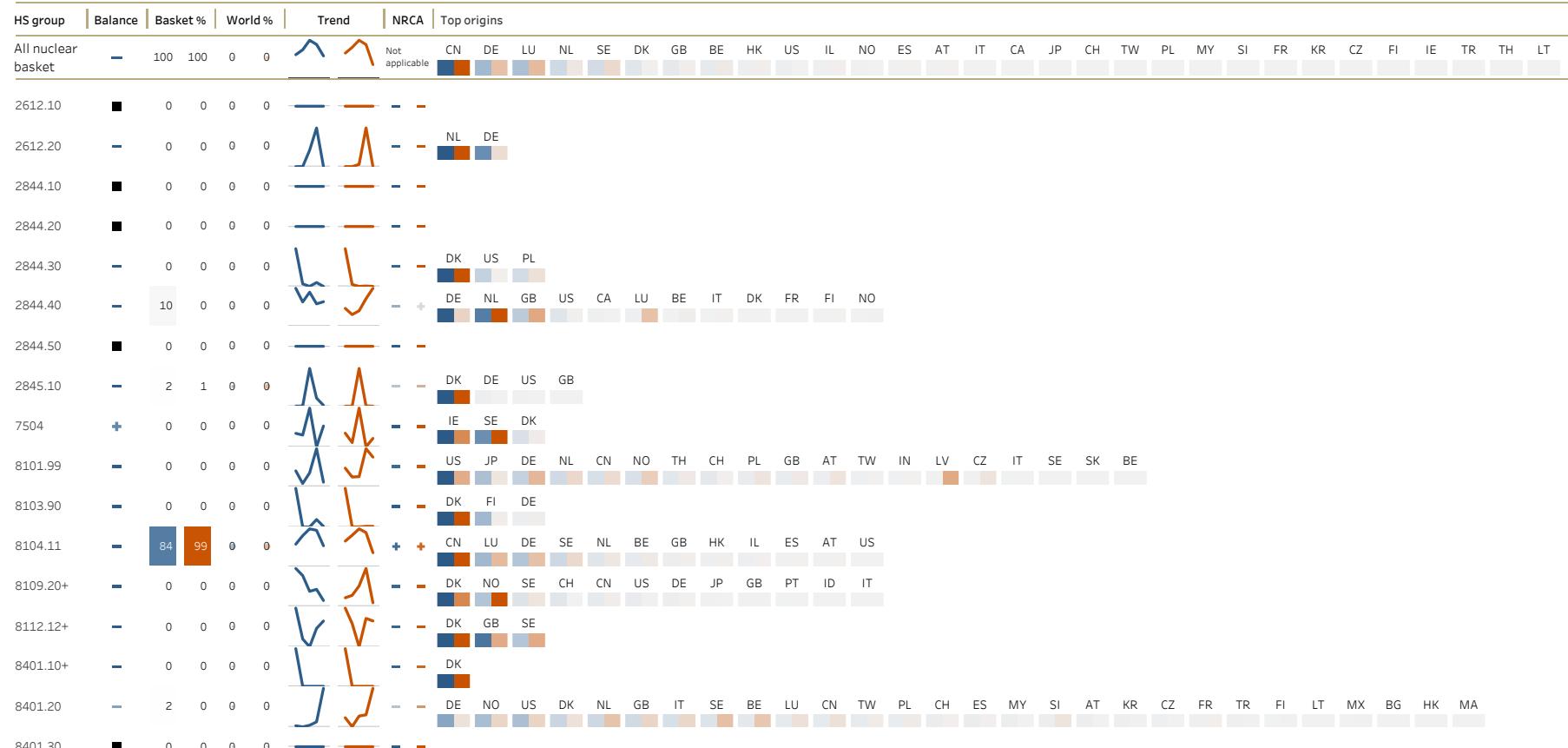


# Iceland

## Import

Years 2016-2020 BACI records: 226

NPT: Party NSG: Member  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In force  
IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.2 M\$ 1% Quantity = 58.1 T

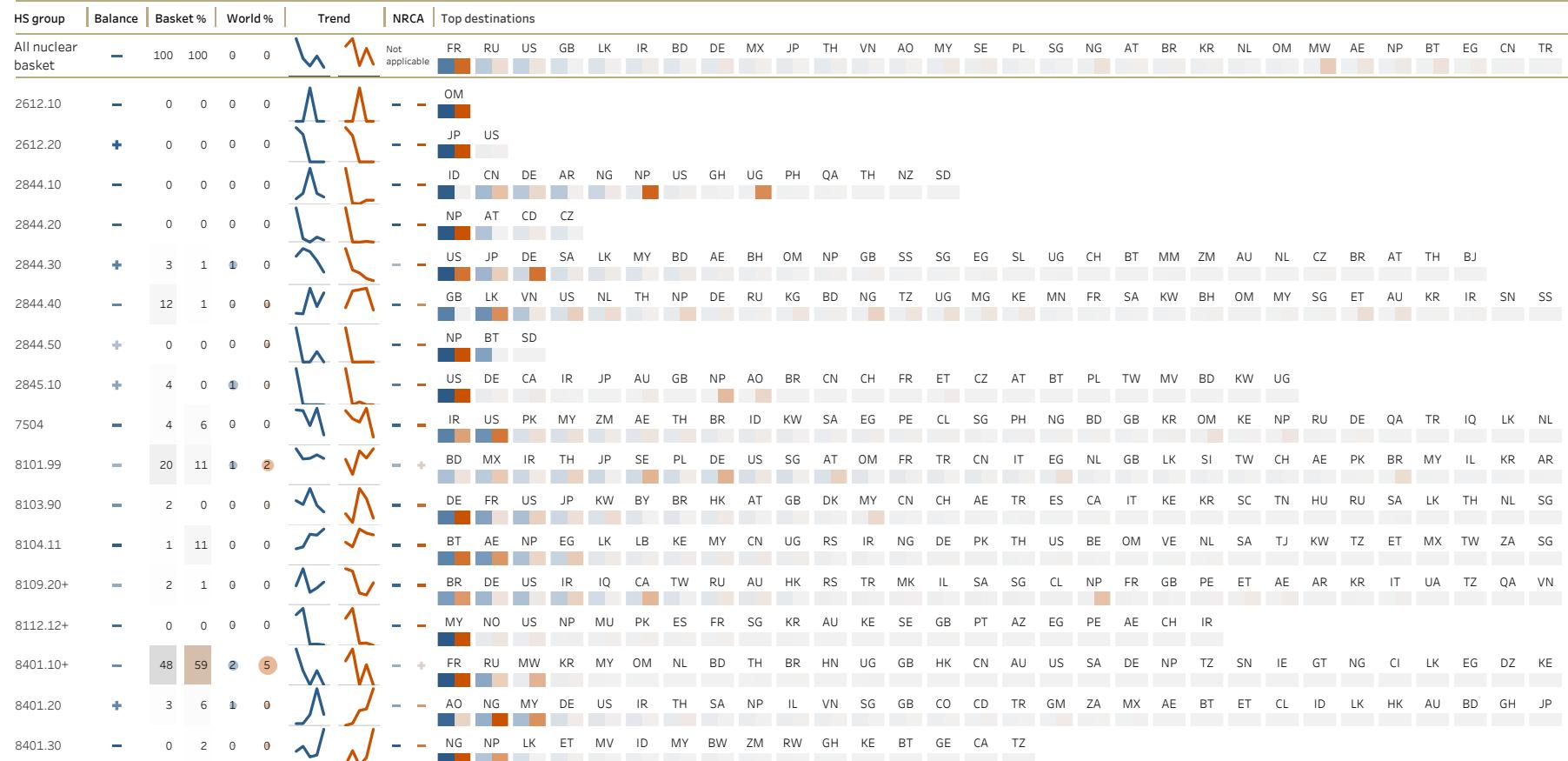


## India

### Export

Years 2016-2020 BACI records: 1,180

**Non-proliferation commitments**  
 NPT: - NSG: -  
 IAEA SQP: - IAEA SA: In force IAEA AP: In force  
 IAEA BC: INFIRC/66/Rev.2



Scale of Basket% (5 years): 1% Value = 1.0 M\$ 1% Quantity = 42.4 T

Figure 92: India



India

## Import

Years 2016-2020 BACI records: 723

### Non-proliferation commitments

NPT: NSG:

NPT: \_ NSG: \_  
IAEA SQP: \_ IAEA SA: In force IAEA AP: In force  
IAEA BC: INF CIRC/66/Rev.2

This treemap visualization displays the composition of various HS groups across different countries. The categories are color-coded: blue for All nuclear basket, grey for 2612.10, light orange for 2612.20, light blue for 2844.10, dark blue for 2844.20, medium blue for 2844.30, light grey for 2844.40, dark orange for 2844.50, light orange for 2845.10, dark blue for 7504, light orange for 8101.99, dark blue for 8103.90, light orange for 8104.11, light blue for 8109.20+, dark blue for 8112.12+, light blue for 8401.10+, light orange for 8401.20, and light blue for 8401.30. The size of each segment represents its relative contribution to the total.

Scale of Basket% (5 years): 1% Value = 26.1 M\$ 1% Quantity = 1,234.7 T



## Indonesia

### Export

Years 2016-2020 BACI records: 156

**Non-proliferation commitments**  
 NPT: Party NSG:—  
 IAEA SQP:— IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

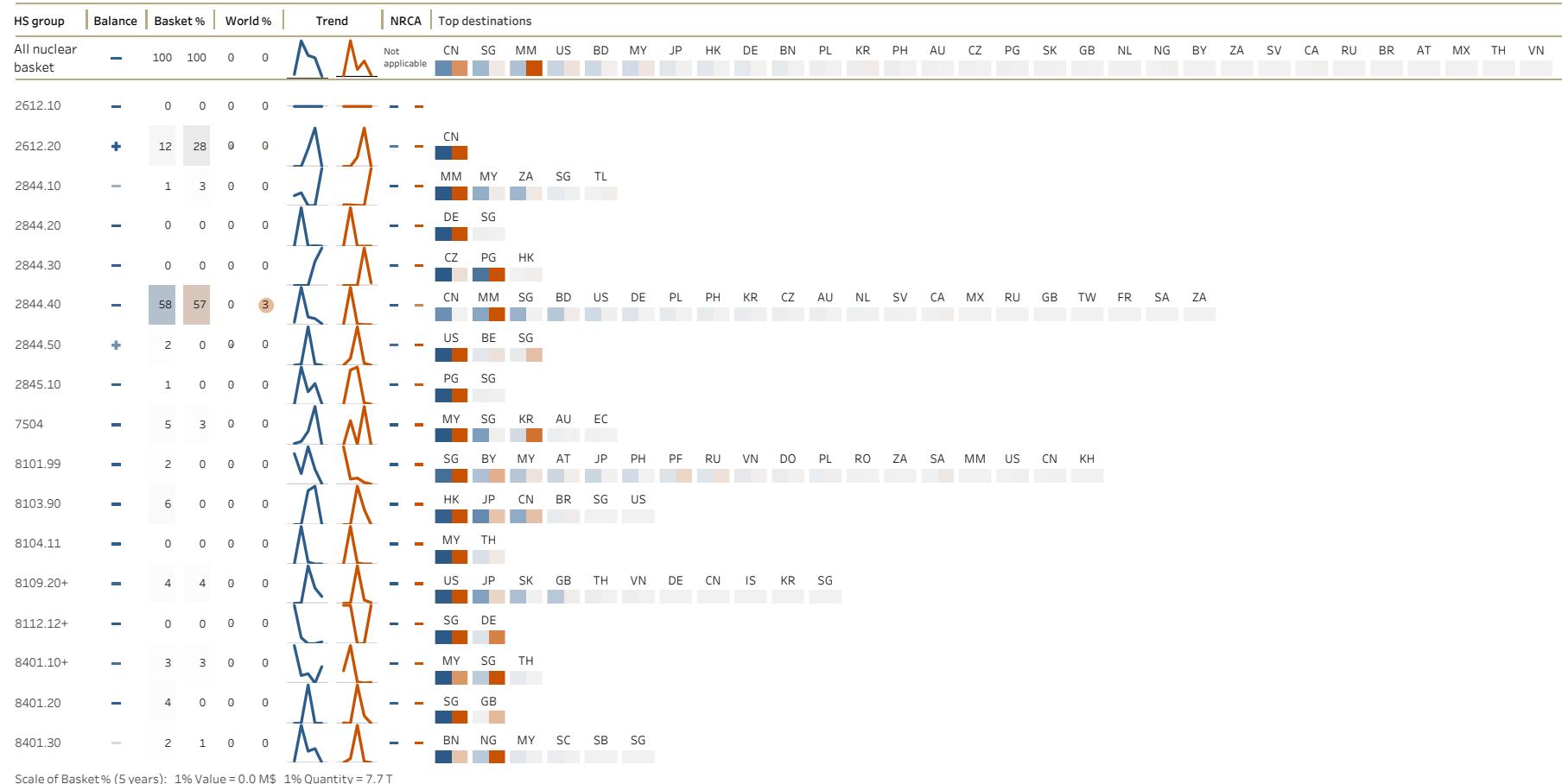


Figure 93: Indonesia

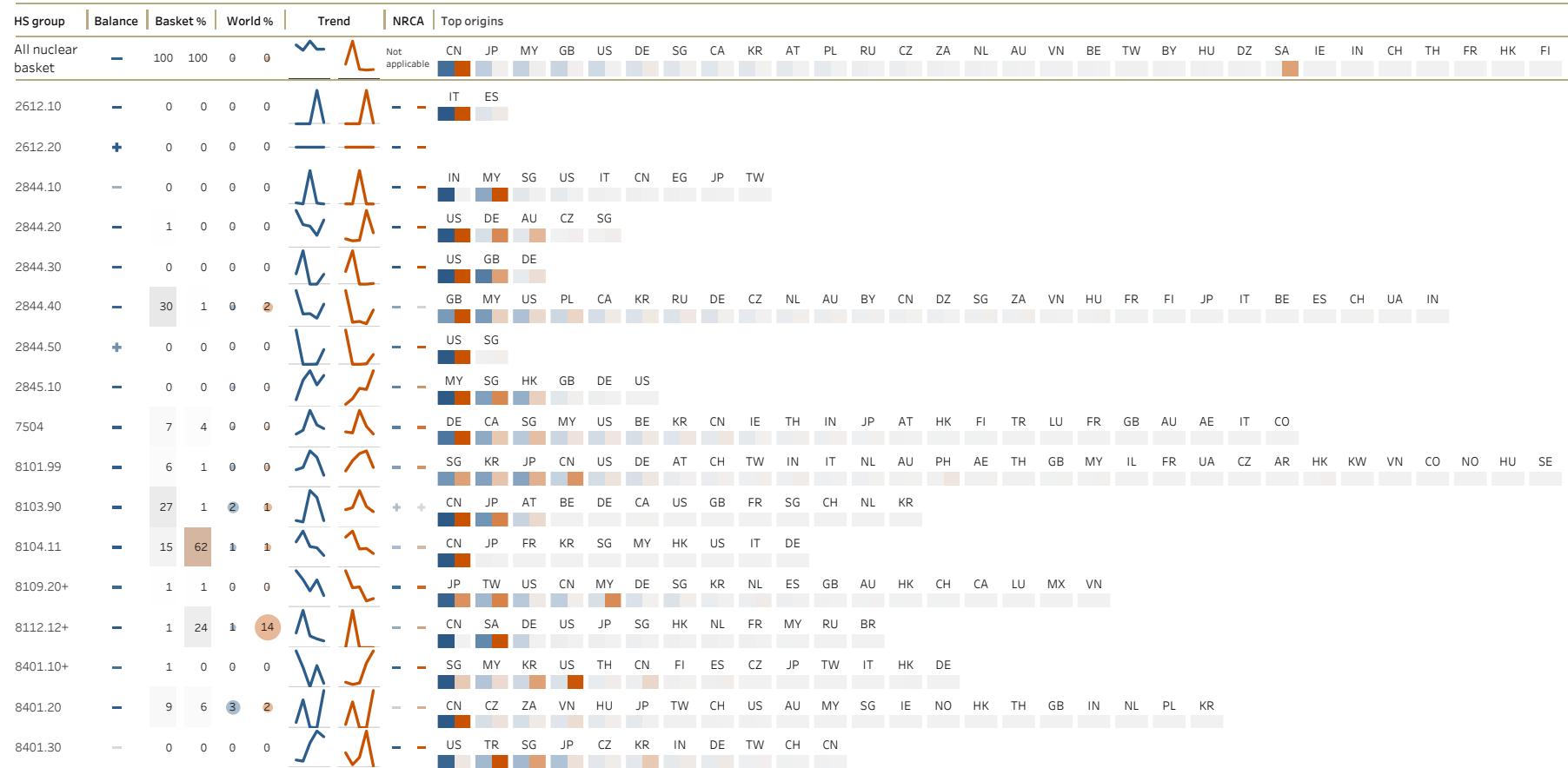


# Indonesia

## Import

Years 2016-2020 BACI records: 578

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 1.3 M\$ 1% Quantity = 142.3 T



## Iran

### Export

Years 2016-2020 BACI records: 50

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: Signed  
 IAEA BC: No broader conclusion

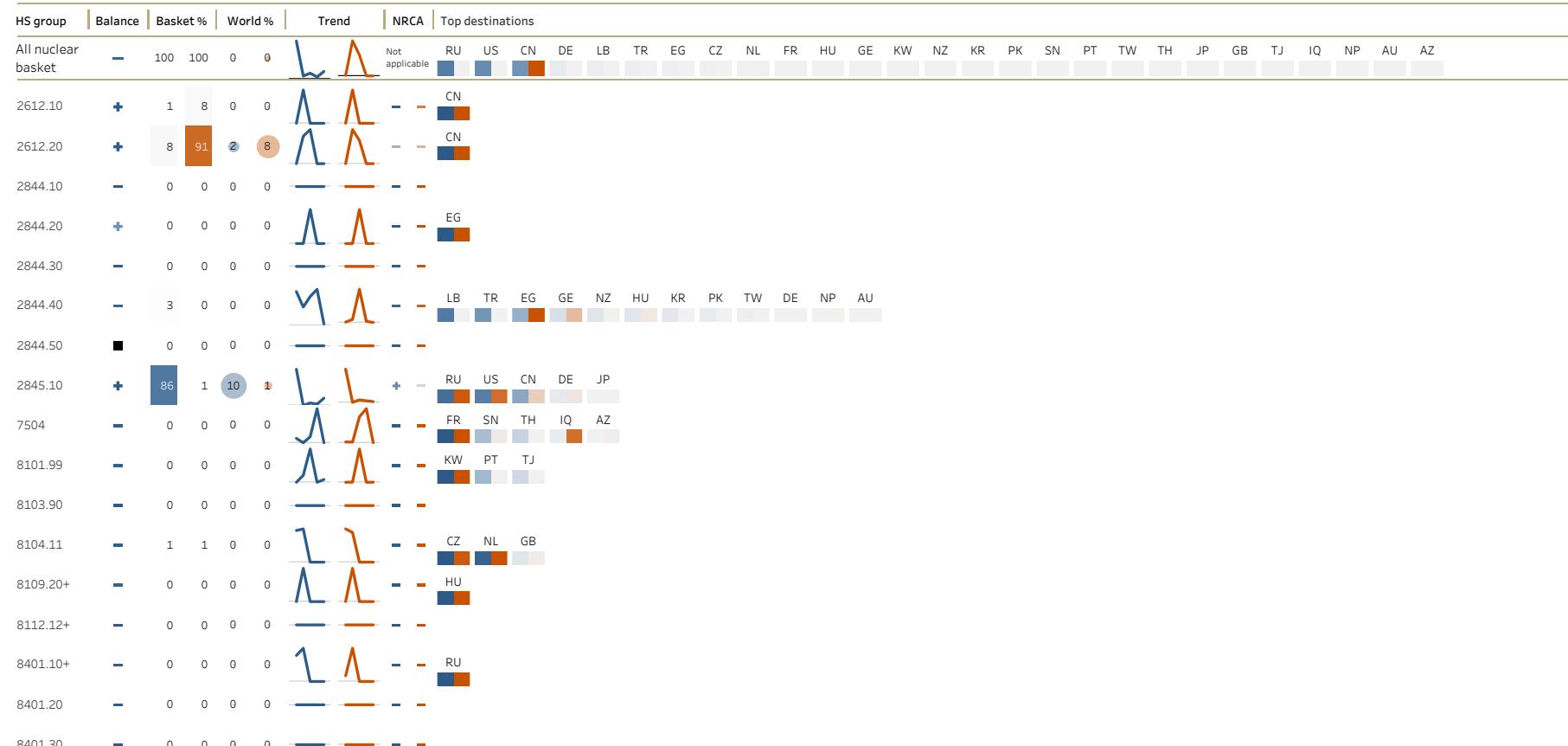


Figure 94: Iran

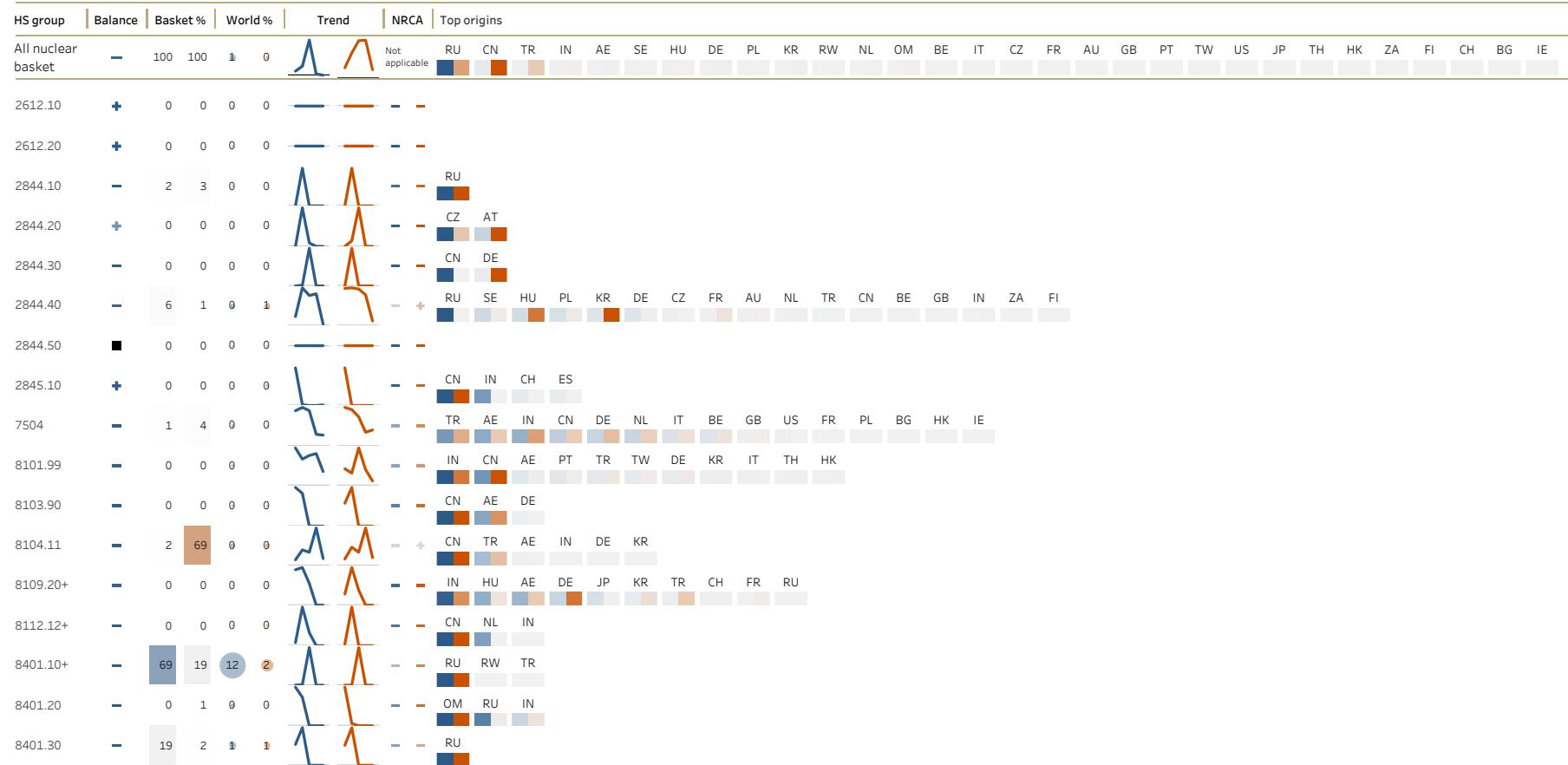


# Iran

## Import

Years 2016-2020 BACI records: 186

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: Signed  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 5.7 M\$ 1% Quantity = 58.0 T

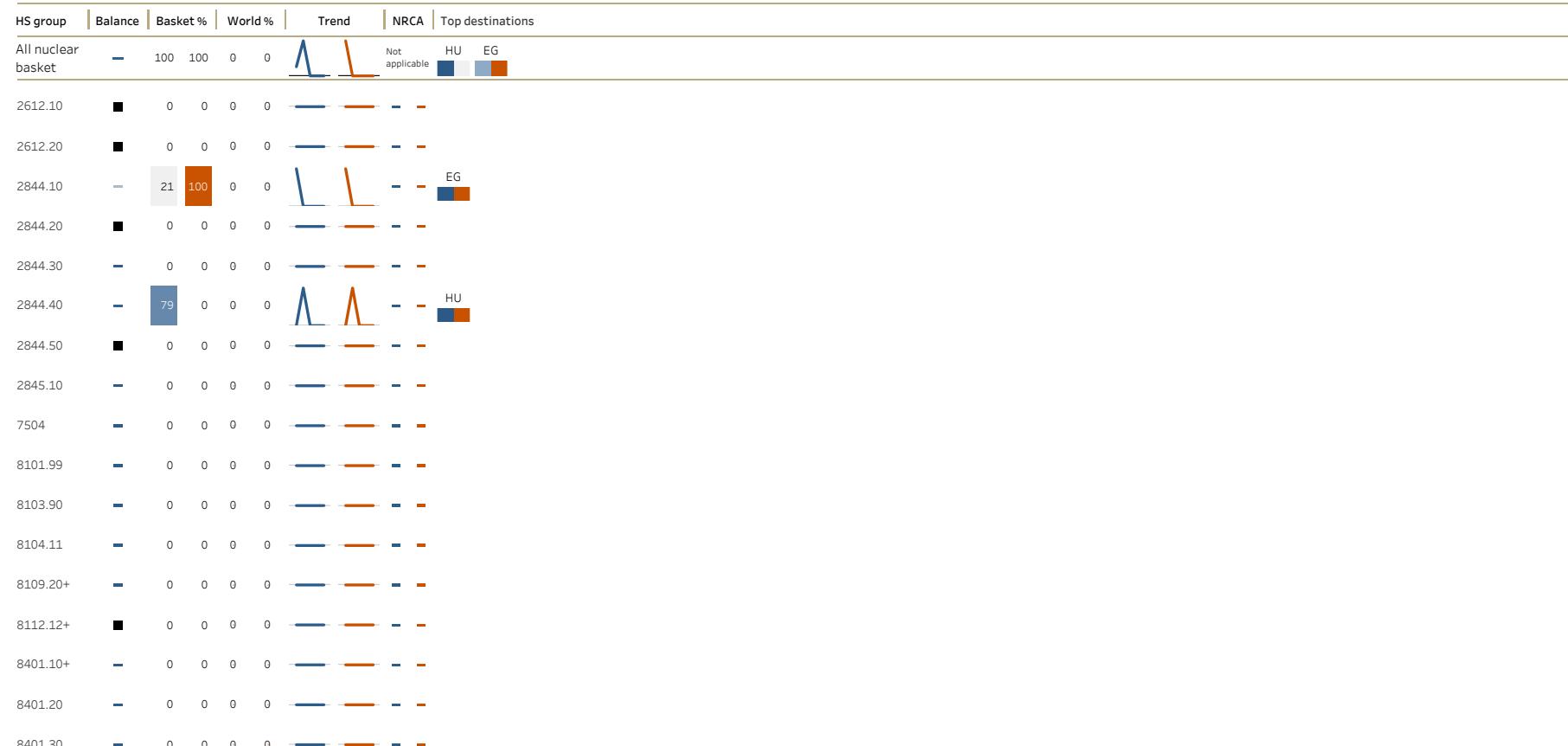


Iraq

Export

Years 2016-2020 BACI records: 2

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.5 T

Figure 95: Iraq

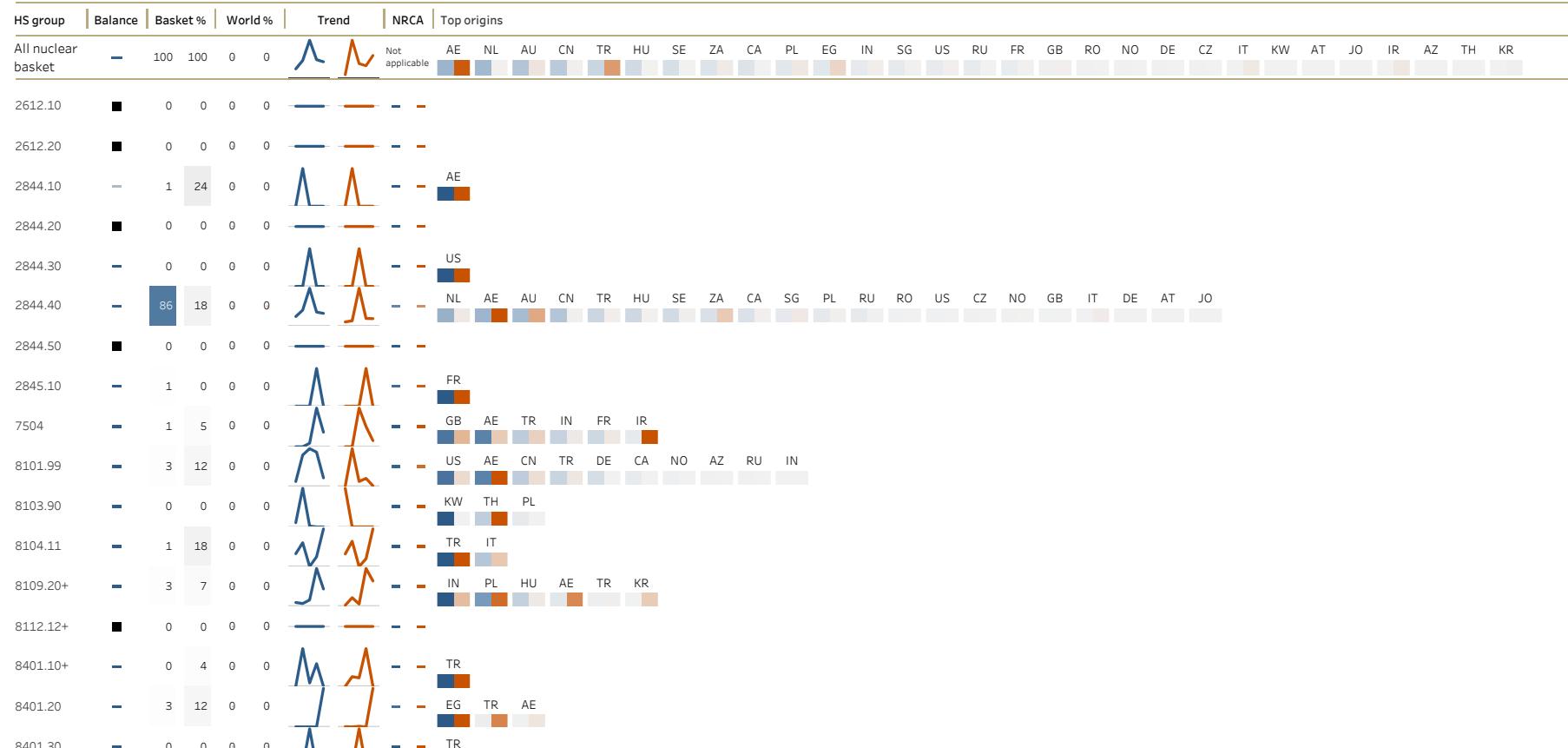


# Iraq

## Import

Years 2016-2020 BACI records: 118

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.1 M\$ 1% Quantity = 0.7 T



## Ireland

### Export

Years 2016-2020 BACI records: 452

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: In force IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

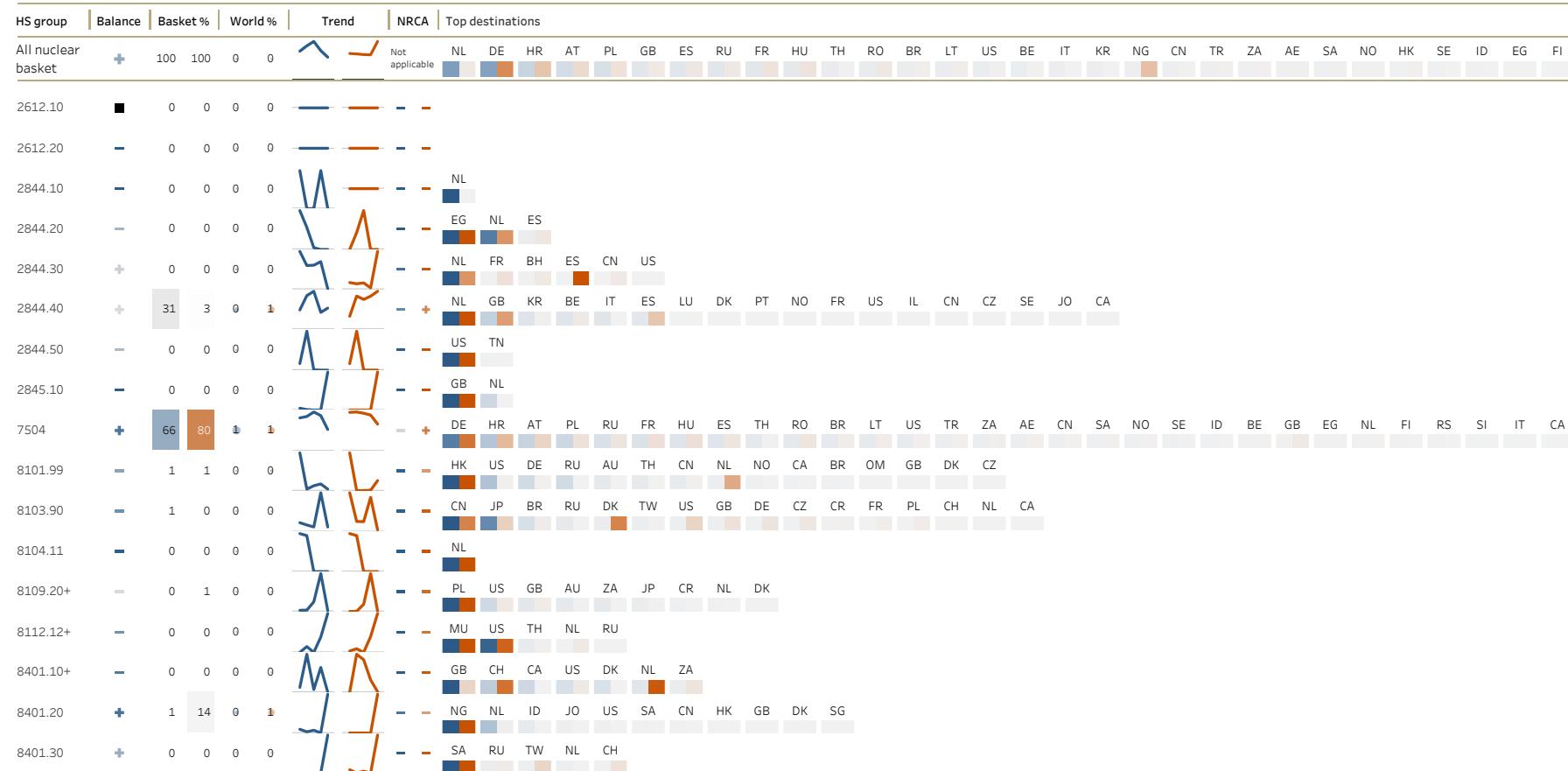


Figure 96: Ireland

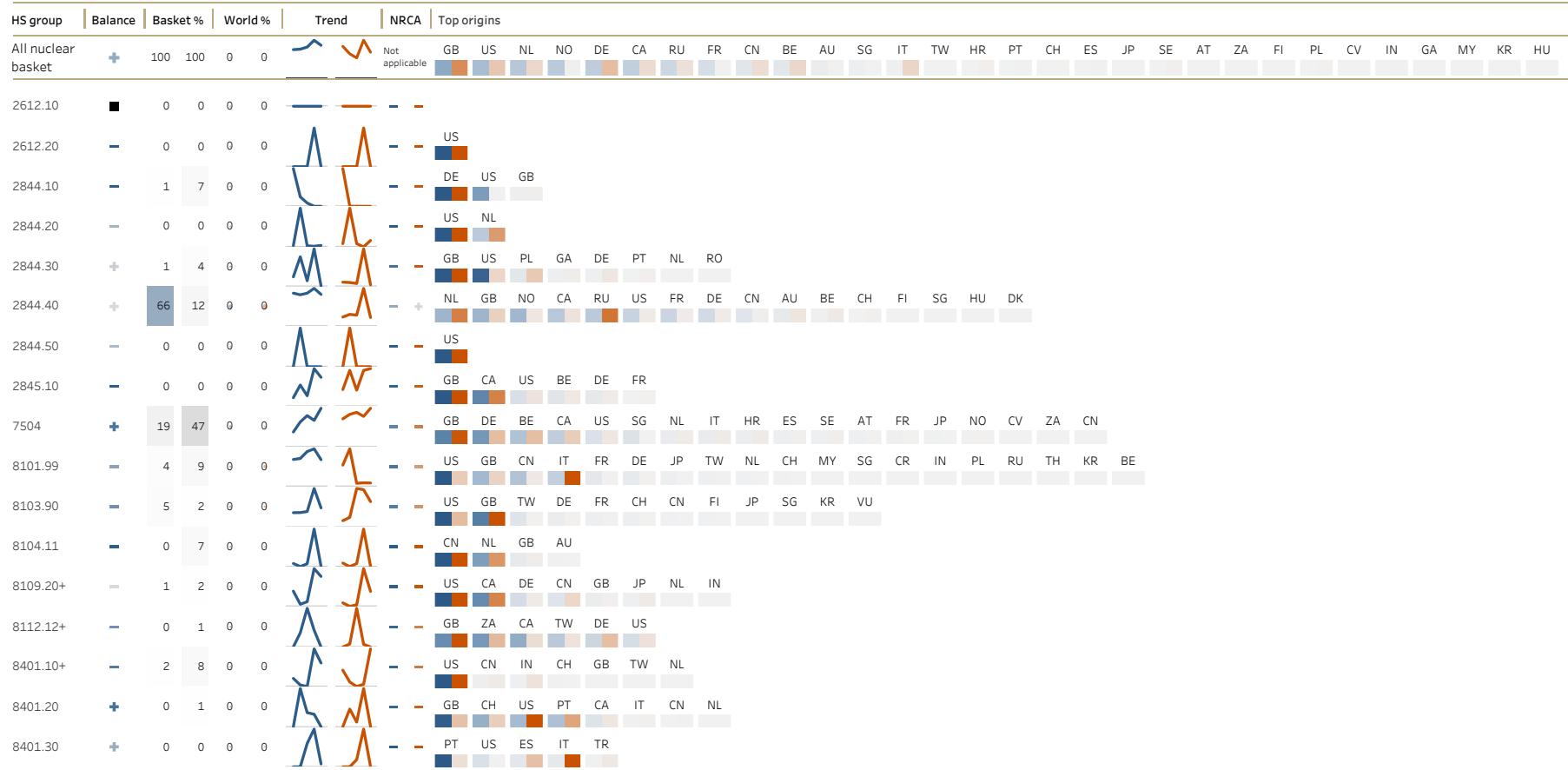


# Ireland

## Import

Years 2016-2020 BACI records: 354

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.3 M\$ 1% Quantity = 4.0 T

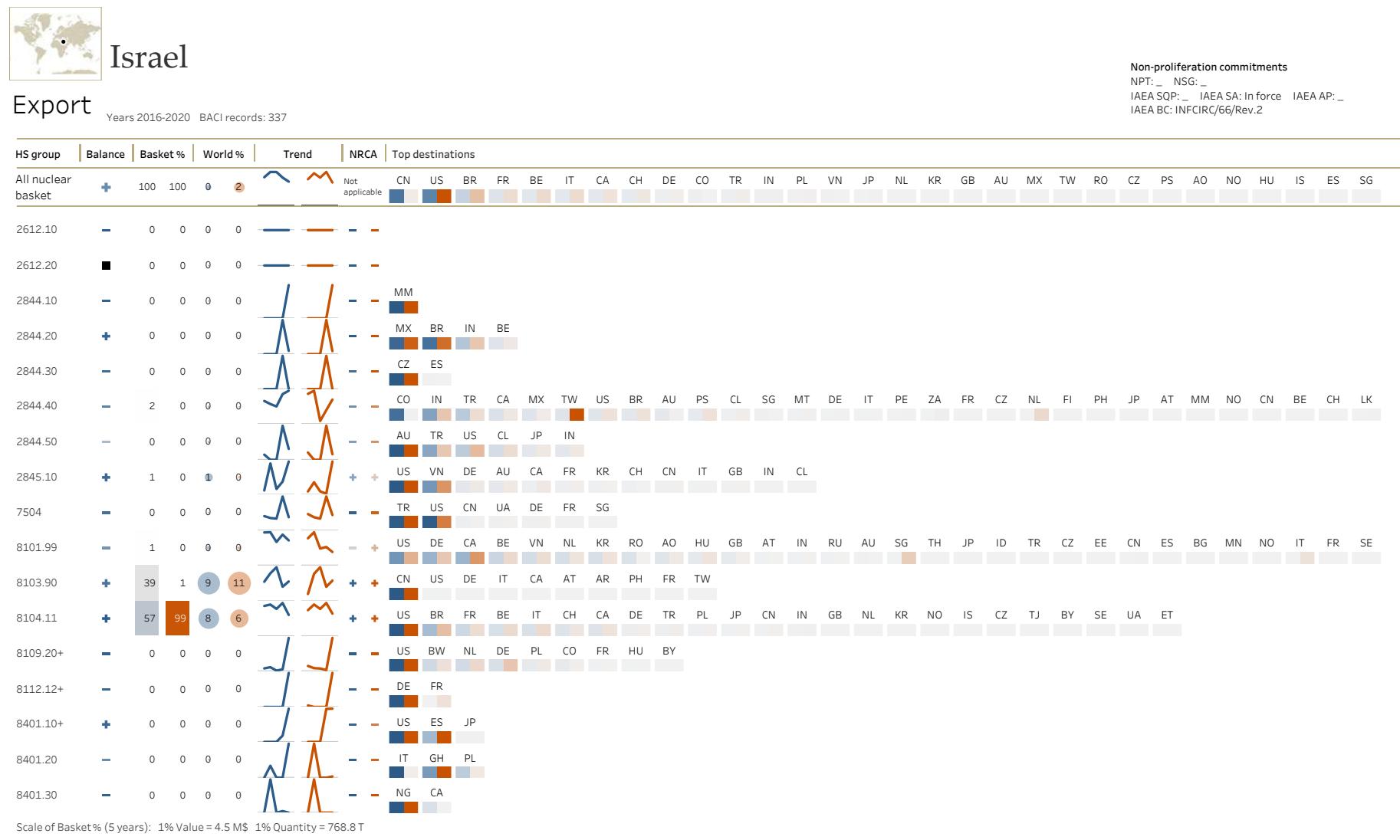


Figure 97: Israel

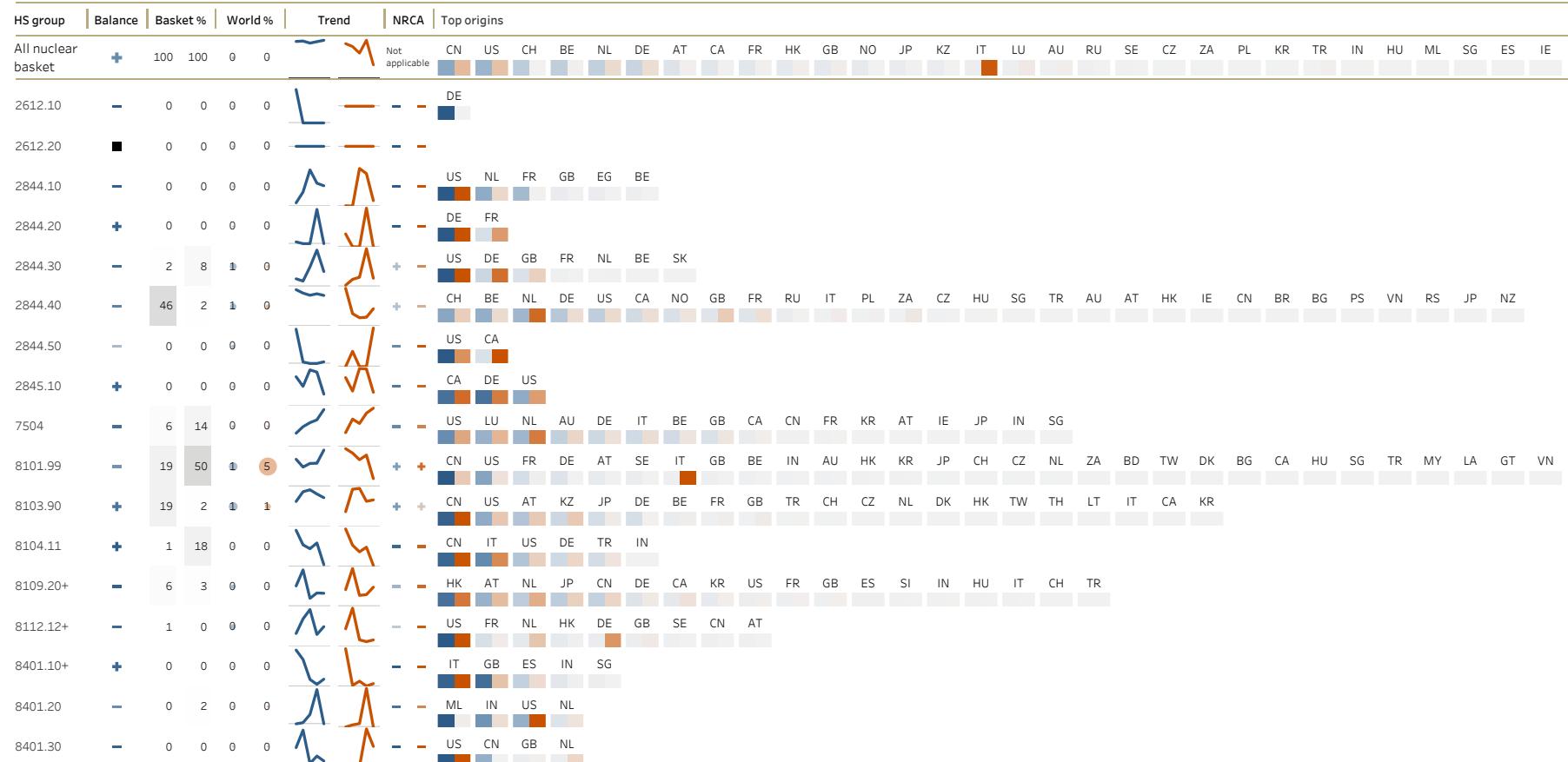


# Israel

## Import

Years 2016-2020 BACI records: 516

**Non-proliferation commitments**  
 NPT: — NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: —  
 IAEA BC: INFIRC/66/Rev.2



Scale of Basket% (5 years): 1% Value = 1.1 M\$ 1% Quantity = 19.7 T

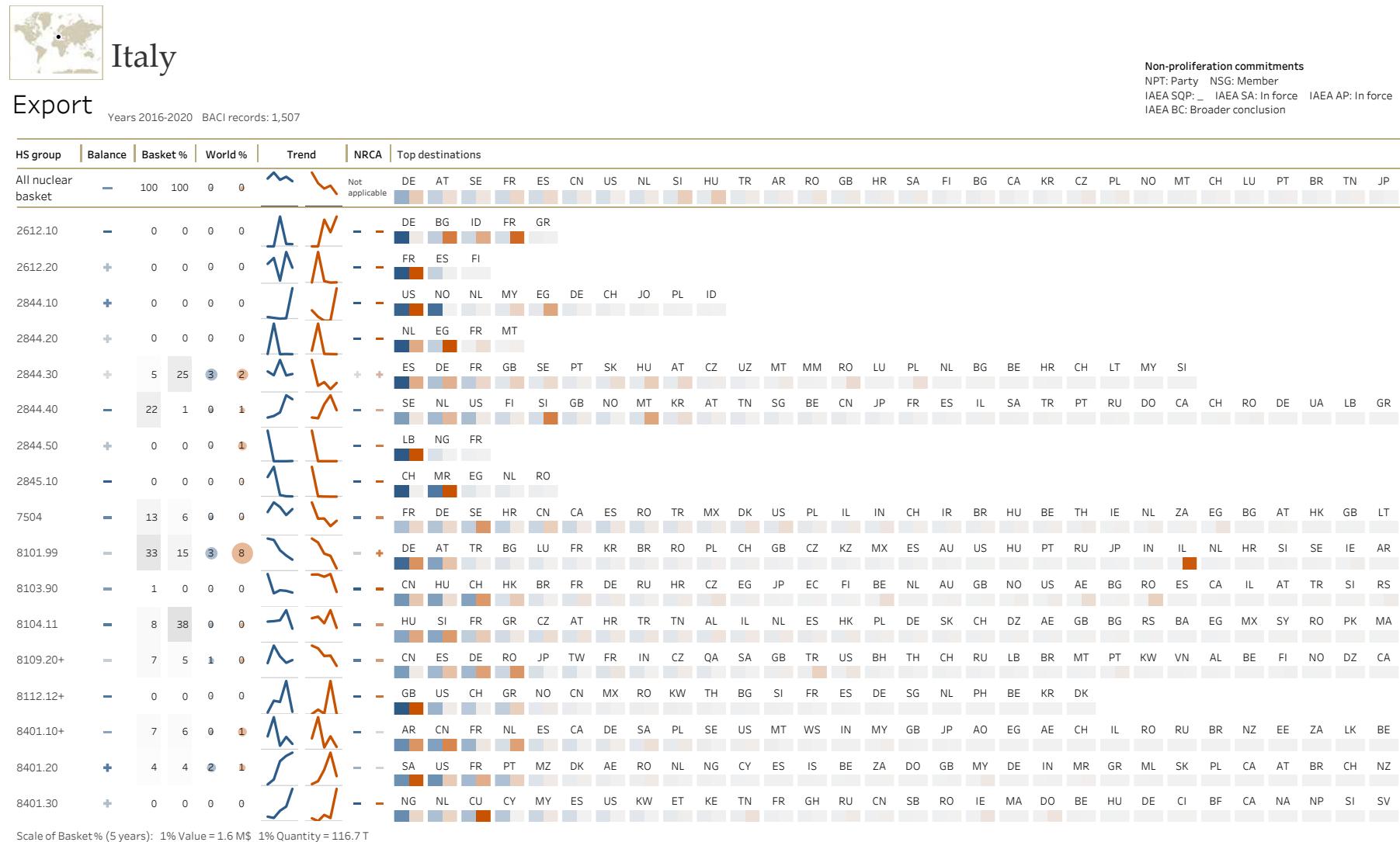


Figure 98: Italy

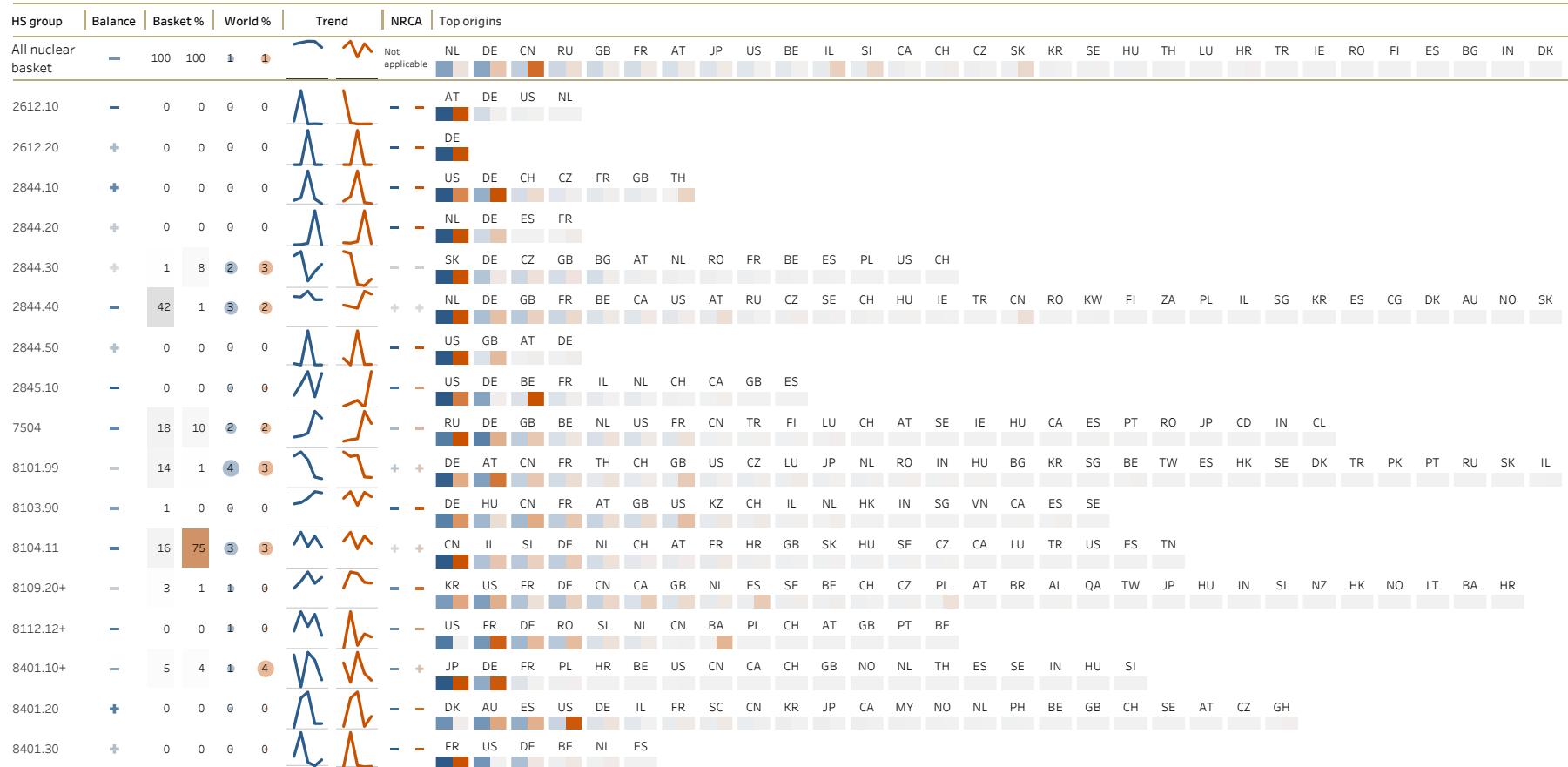


# Italy

## Import

Years 2016-2020 BACI records: 824

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 5.6 M\$ 1% Quantity = 494.2 T



## Jamaica

### Export

Years 2016-2020 BACI records: 5

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Figure 99: Jamaica

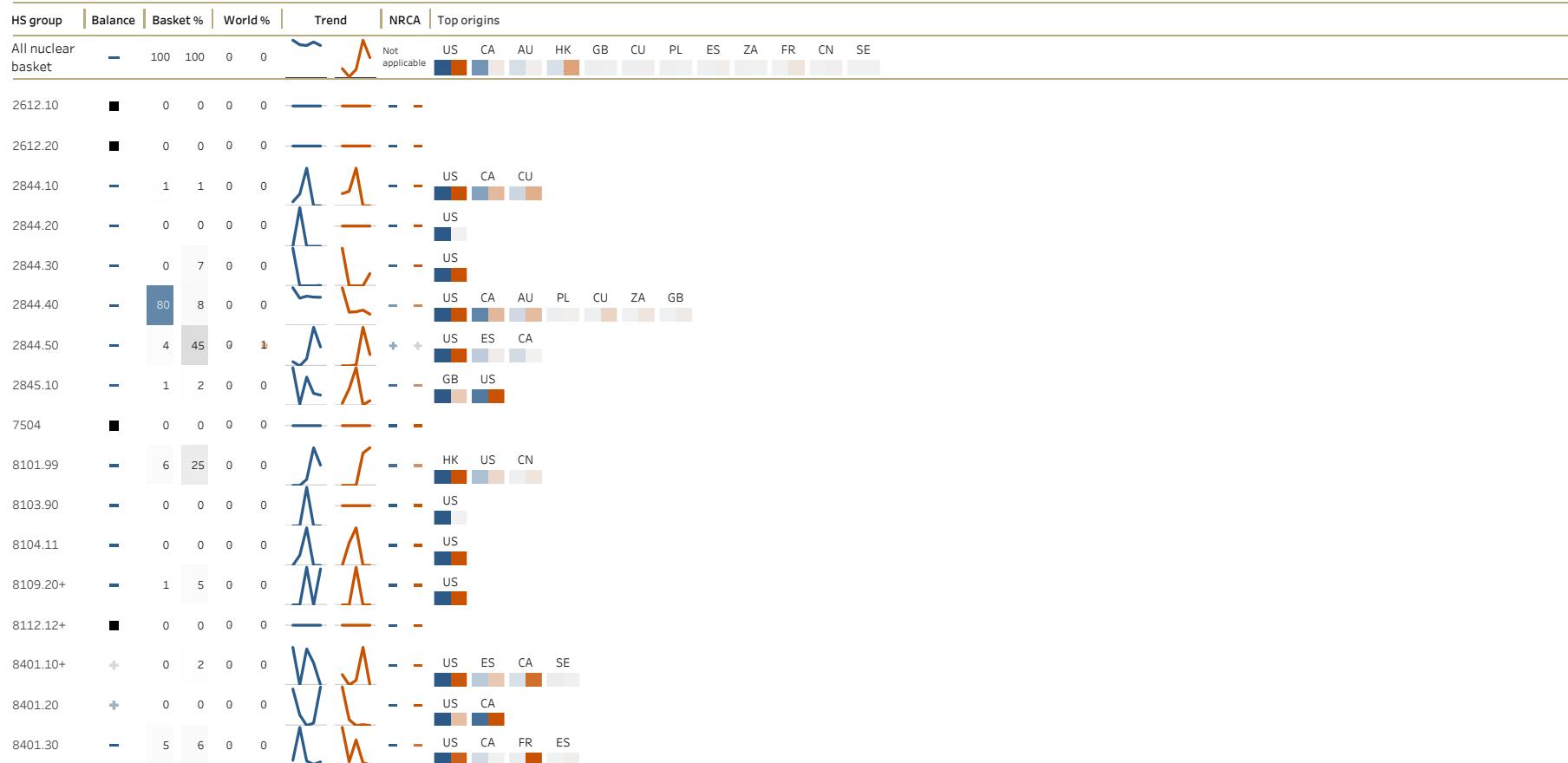


# Jamaica

## Import

Years 2016-2020 BACI records: 67

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.2 T

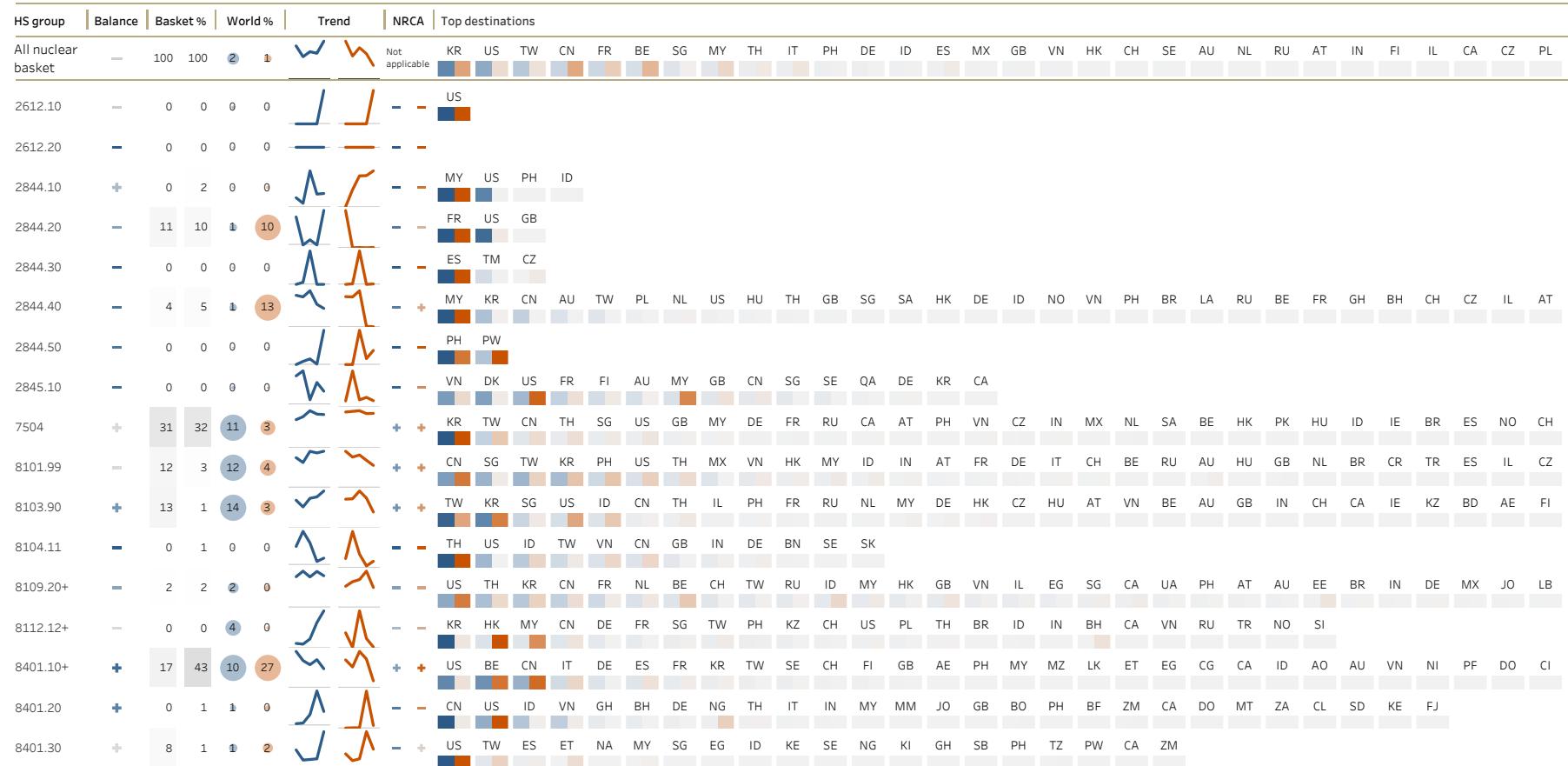


# Japan

## Export

Years 2016-2020 BACI records: 1,270

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: In force IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 19.5 M\$ 1% Quantity = 302.5 T

Figure 100: Japan

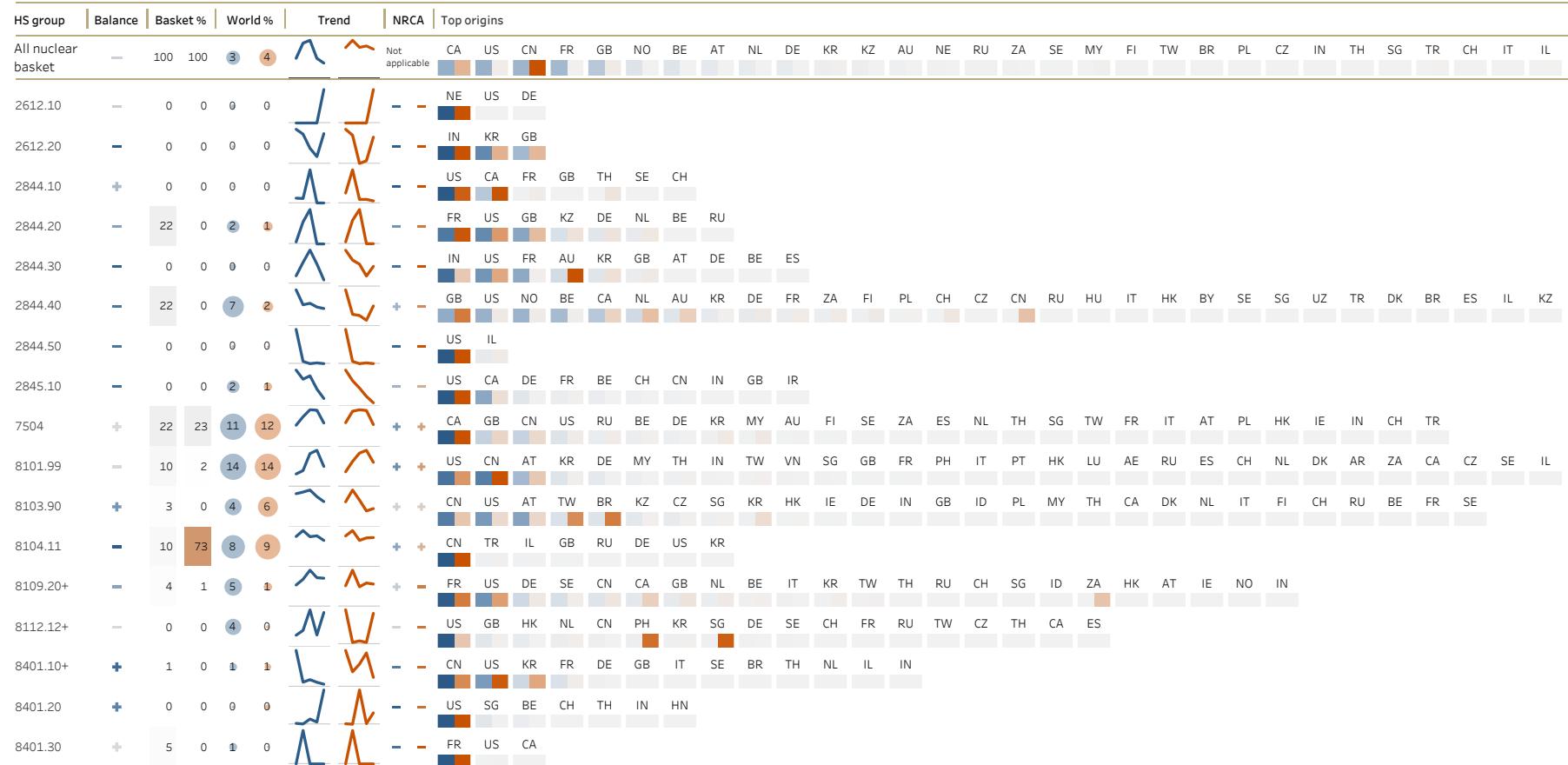


# Japan

## Import

Years 2016-2020 BACI records: 838

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 26.5 M\$ 1% Quantity = 1,541.3 T



## Jordan

### Export

Years 2016-2020 BACI records: 26

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

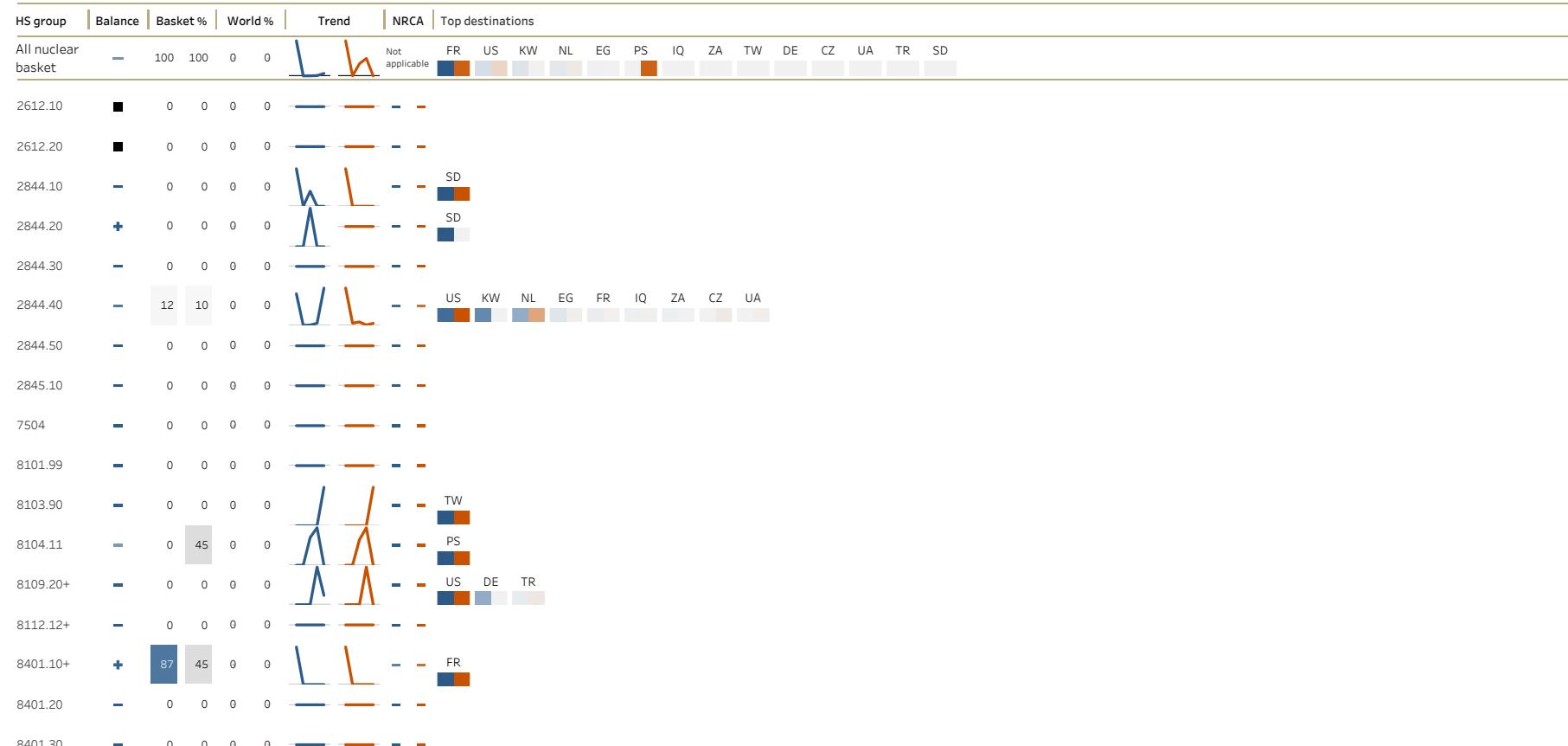


Figure 10r: Jordan

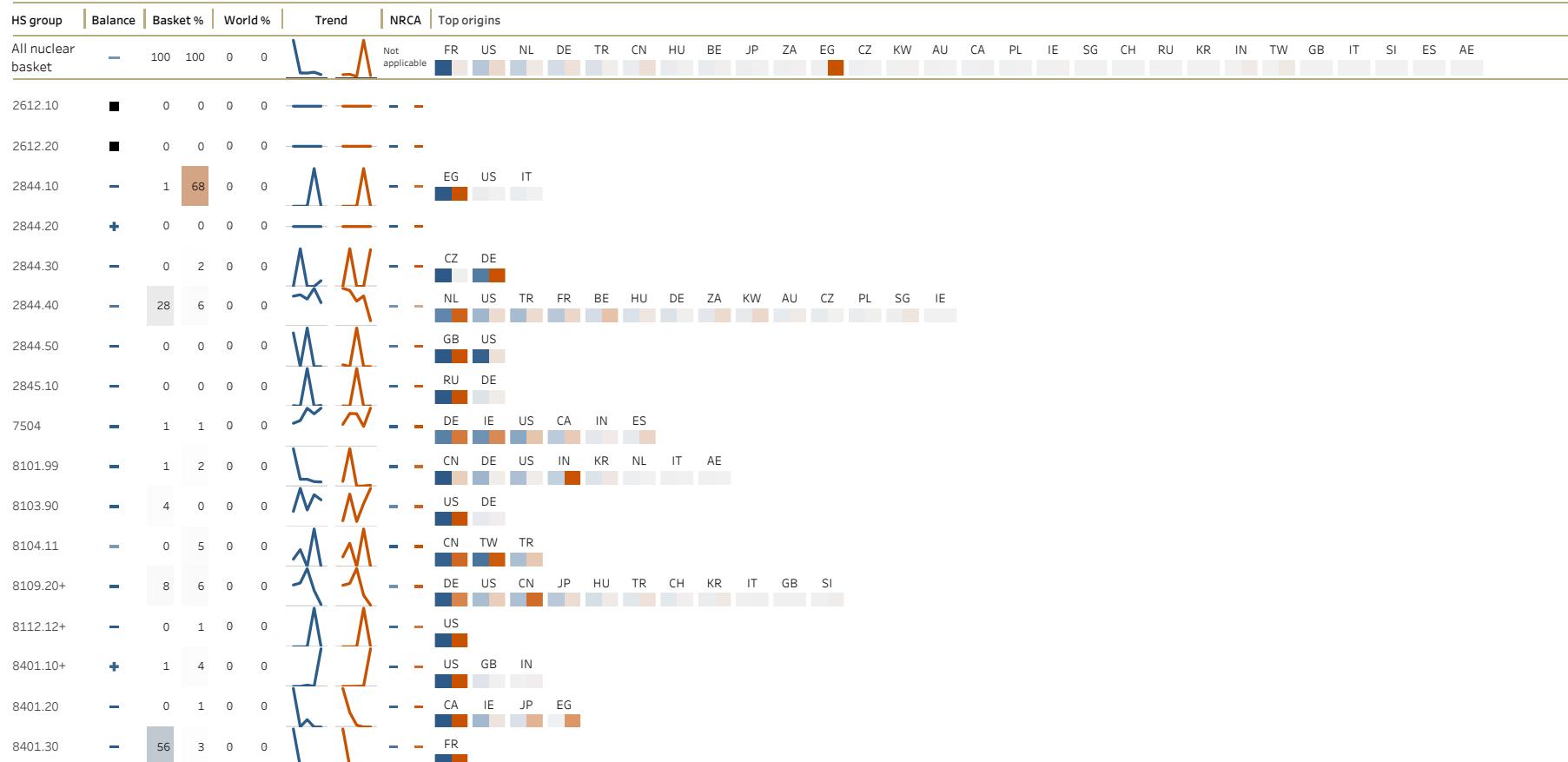


# Jordan

## Import

Years 2016-2020 BACI records: 157

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.1 M\$ 1% Quantity = 1.8 T



## Kazakhstan

### Export

Years 2016-2020 BACI records: 241

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

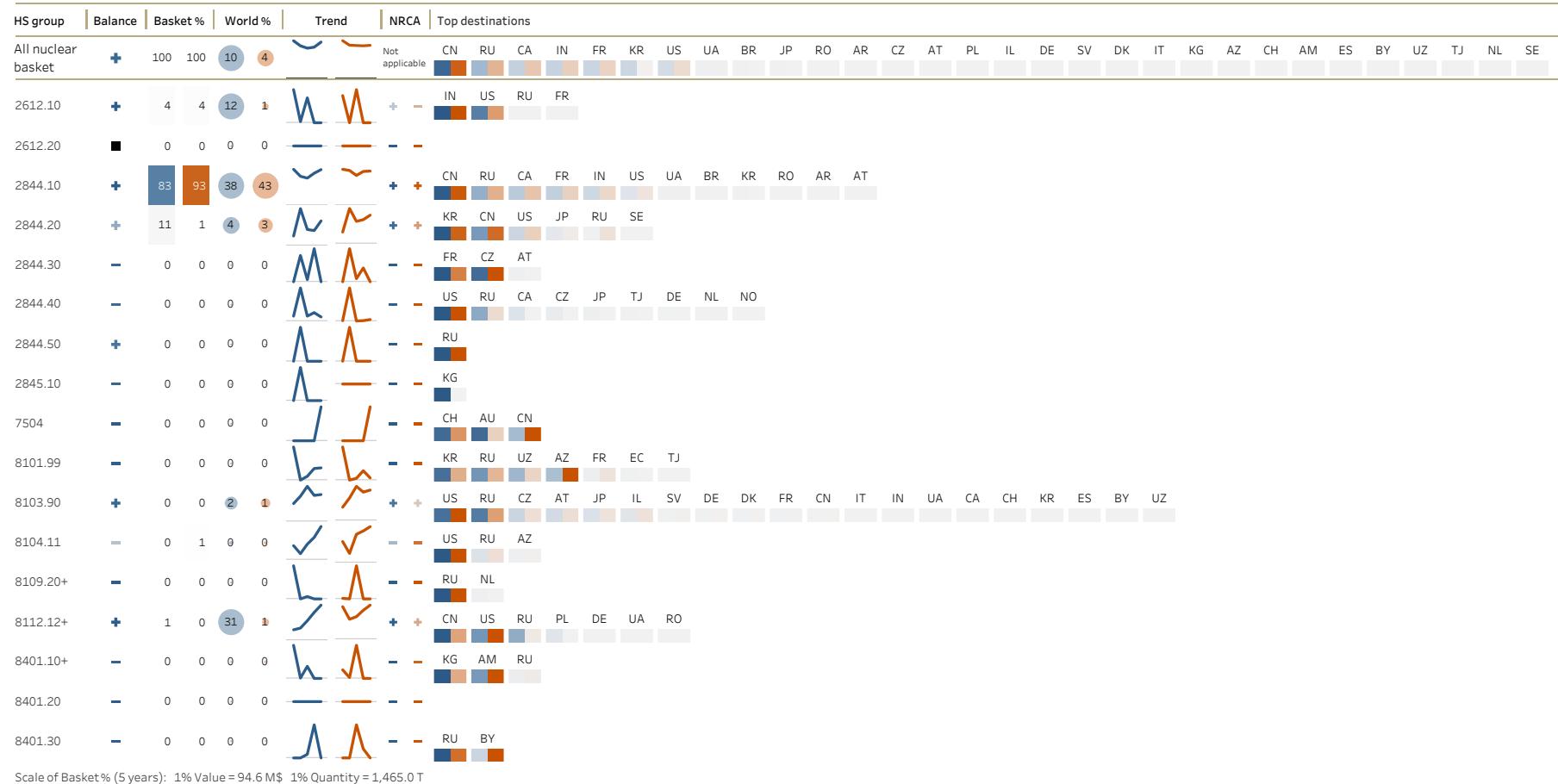


Figure 102: Kazakhstan

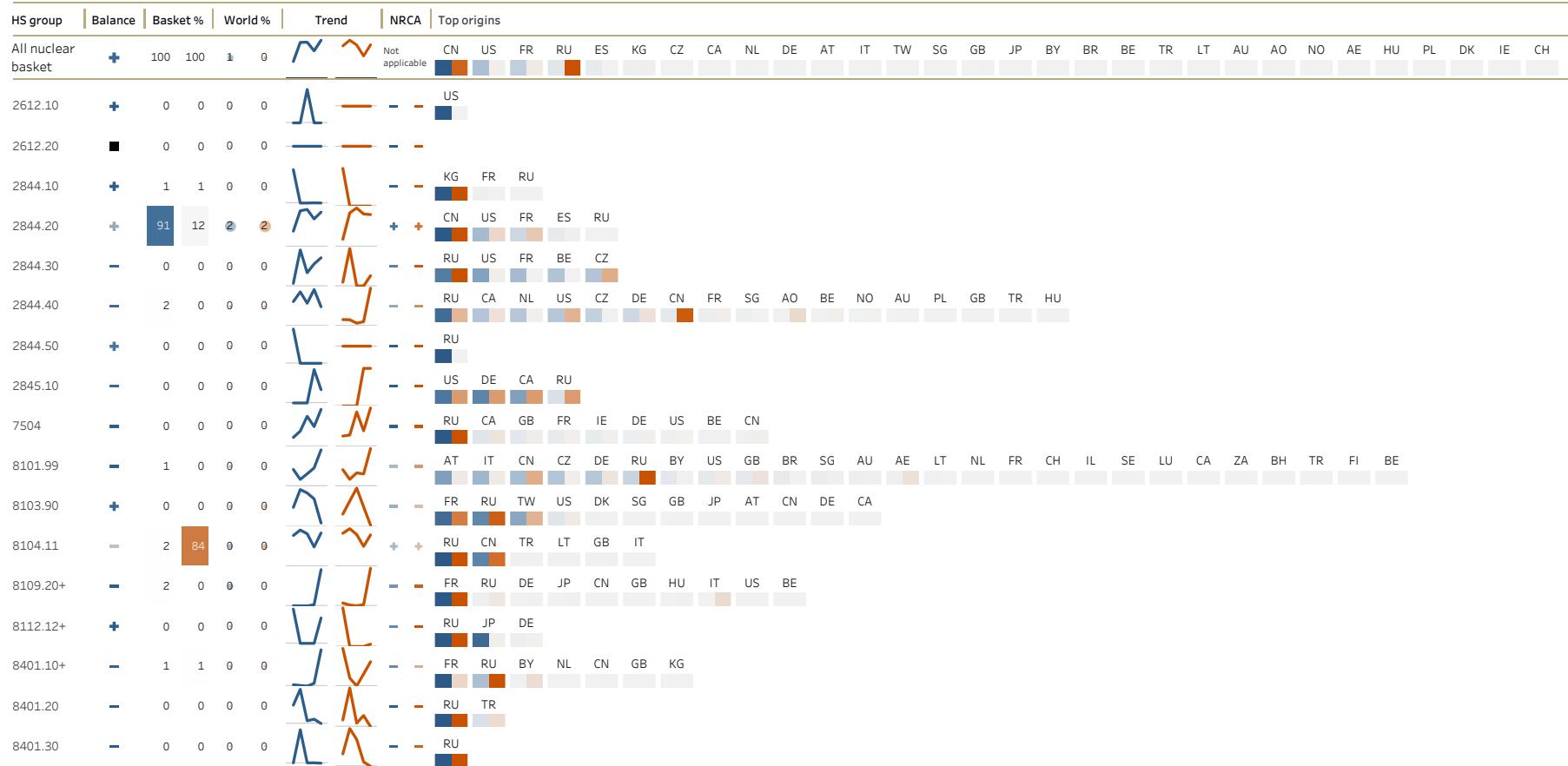


## Kazakhstan

### Import

Years 2016-2020 BACI records: 264

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 5.0 M\$ 1% Quantity = 50.3 T



Figure 103: Kenya

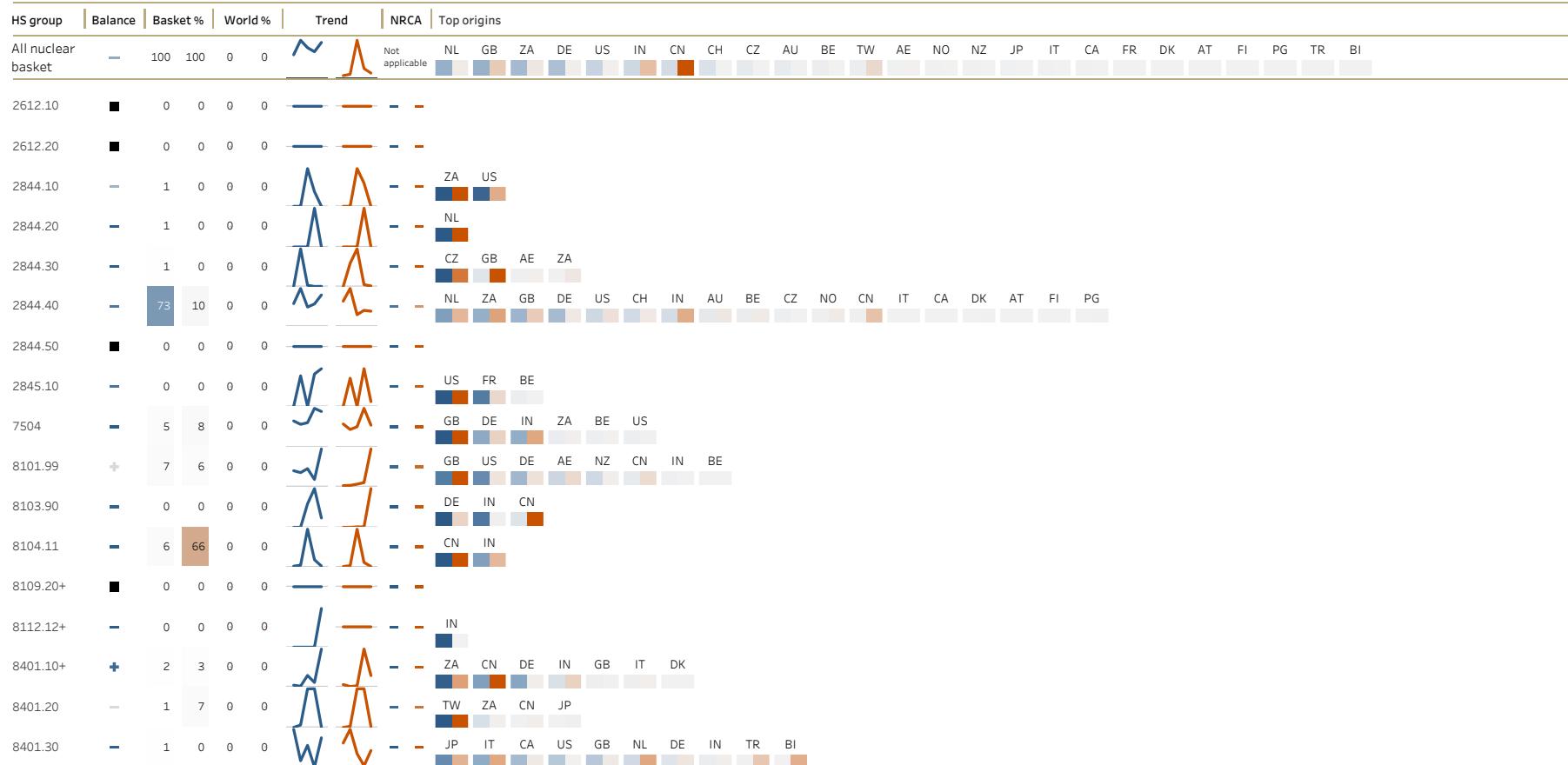


# Kenya

## Import

Years 2016-2020 BACI records: 144

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.7 T



## Kuwait

### Export

Years 2016-2020 BACI records: 69

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion

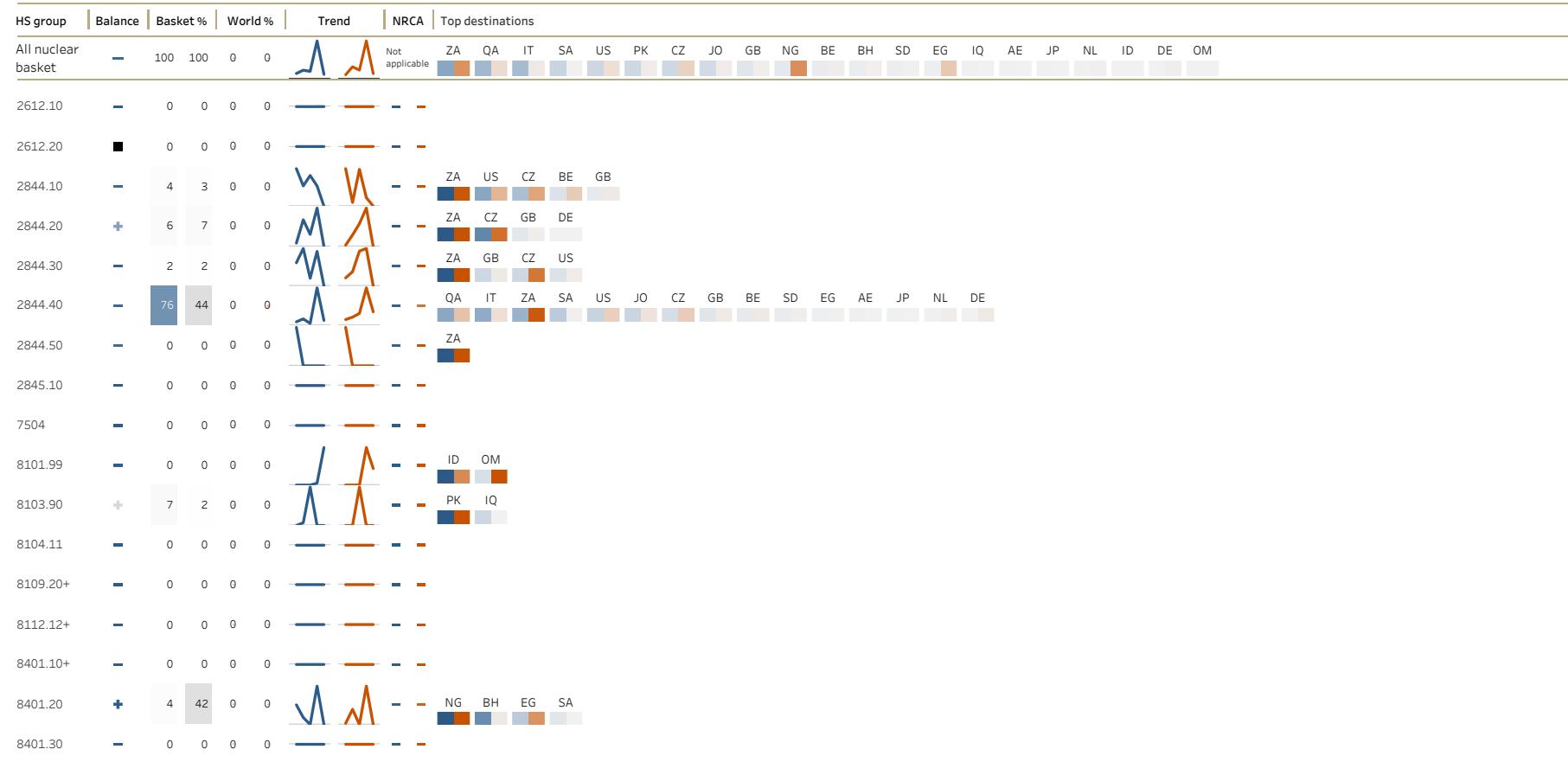


Figure 104: Kuwait

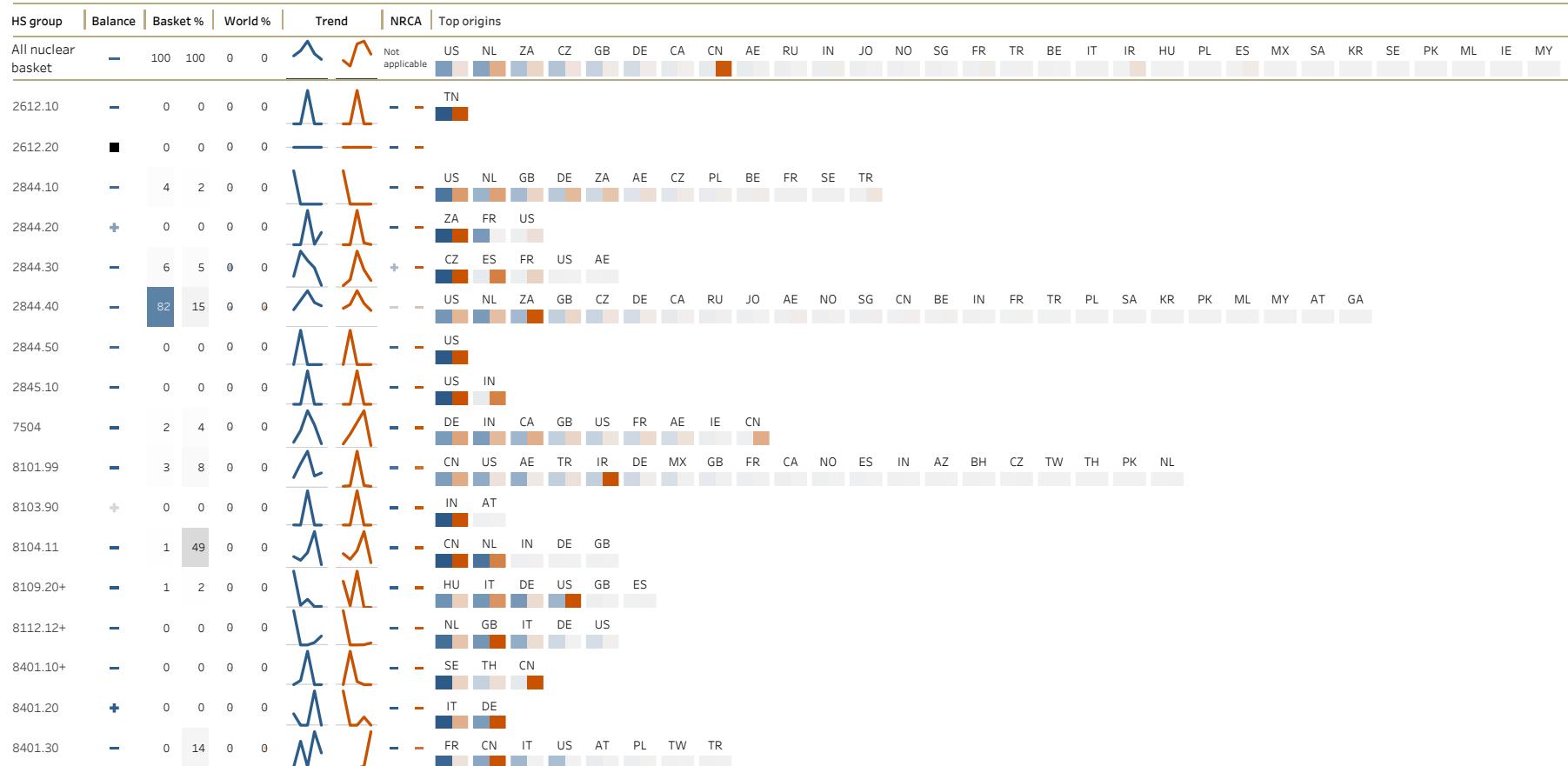


## Kuwait

### Import

Years 2016-2020 BACI records: 213

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.2 M\$ 1% Quantity = 1.9 T



## Kyrgyzstan

### Export

Years 2016-2020 BACI records: 3

NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Figure 105: Kyrgyzstan

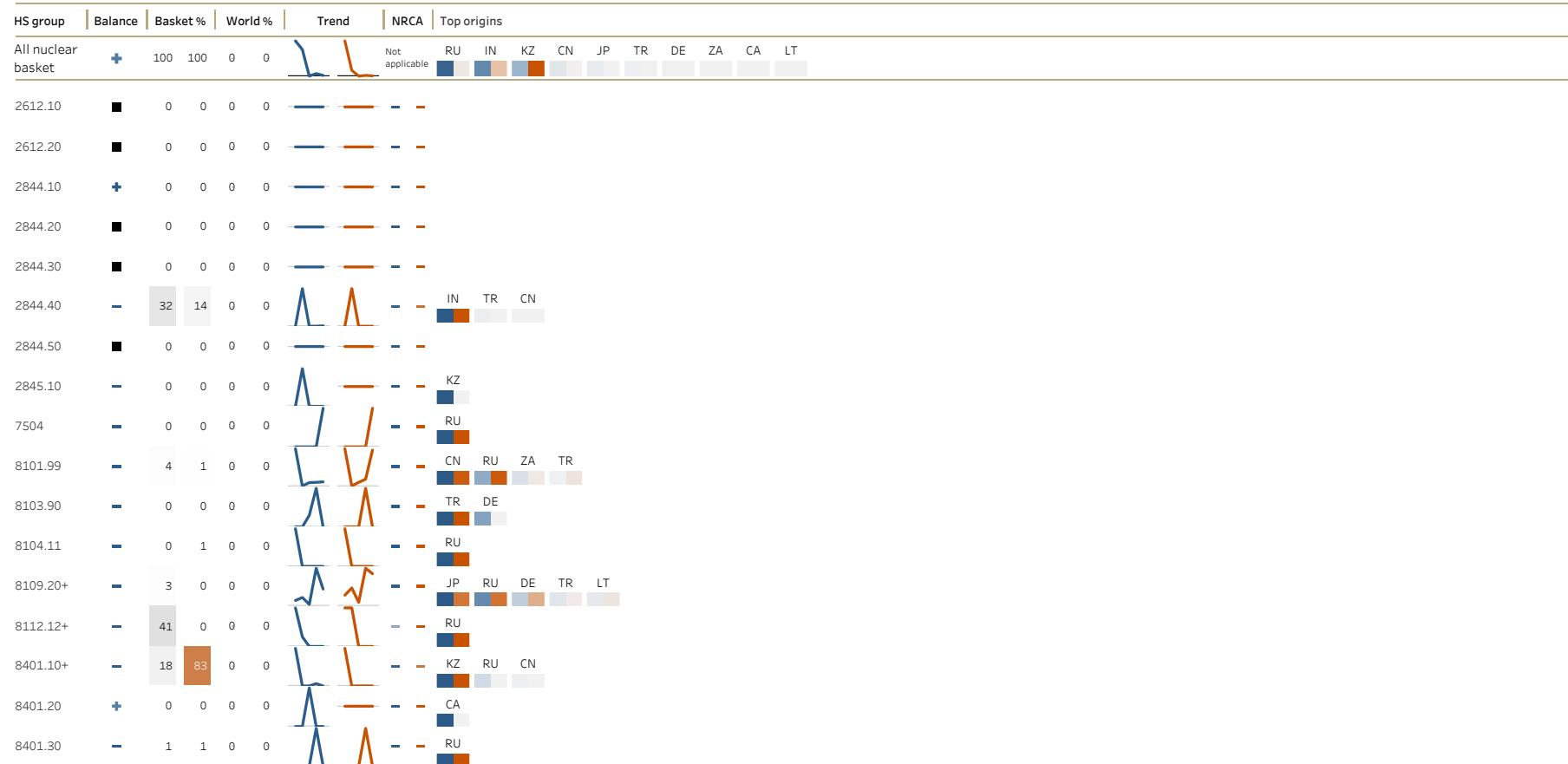


# Kyrgyzstan

## Import

Years 2016-2020 BACI records: 31

NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.1 T



## Lao People's Dem. Rep.

### Export

Years 2016-2020 BACI records: 36

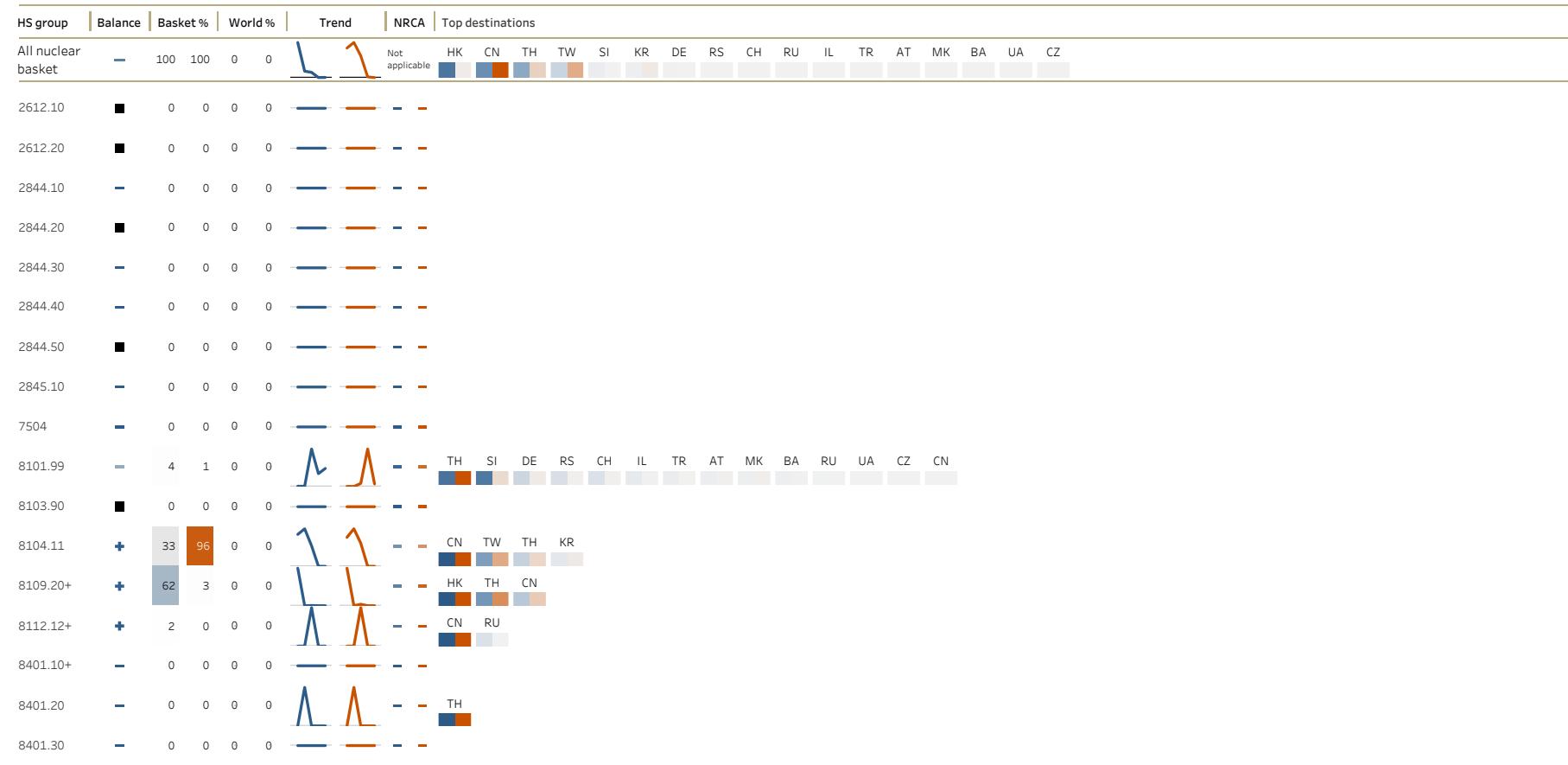


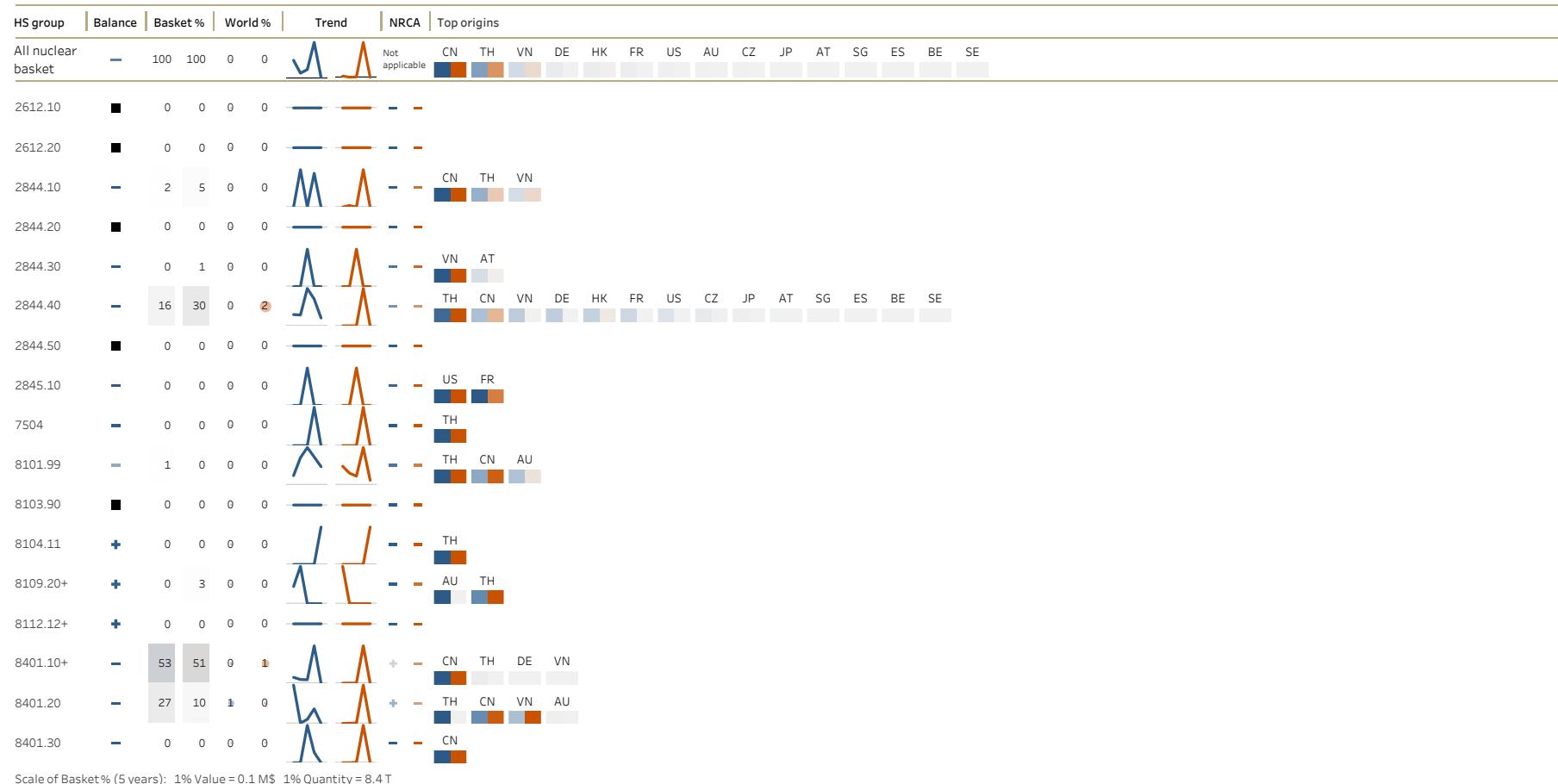
Figure 106: Lao Peoples Dem. Rep.



## Lao People's Dem. Rep.

### Import

Years 2016-2020 BACI records: 83





## Latvia

### Export

Years 2016-2020 BACI records: 111

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion

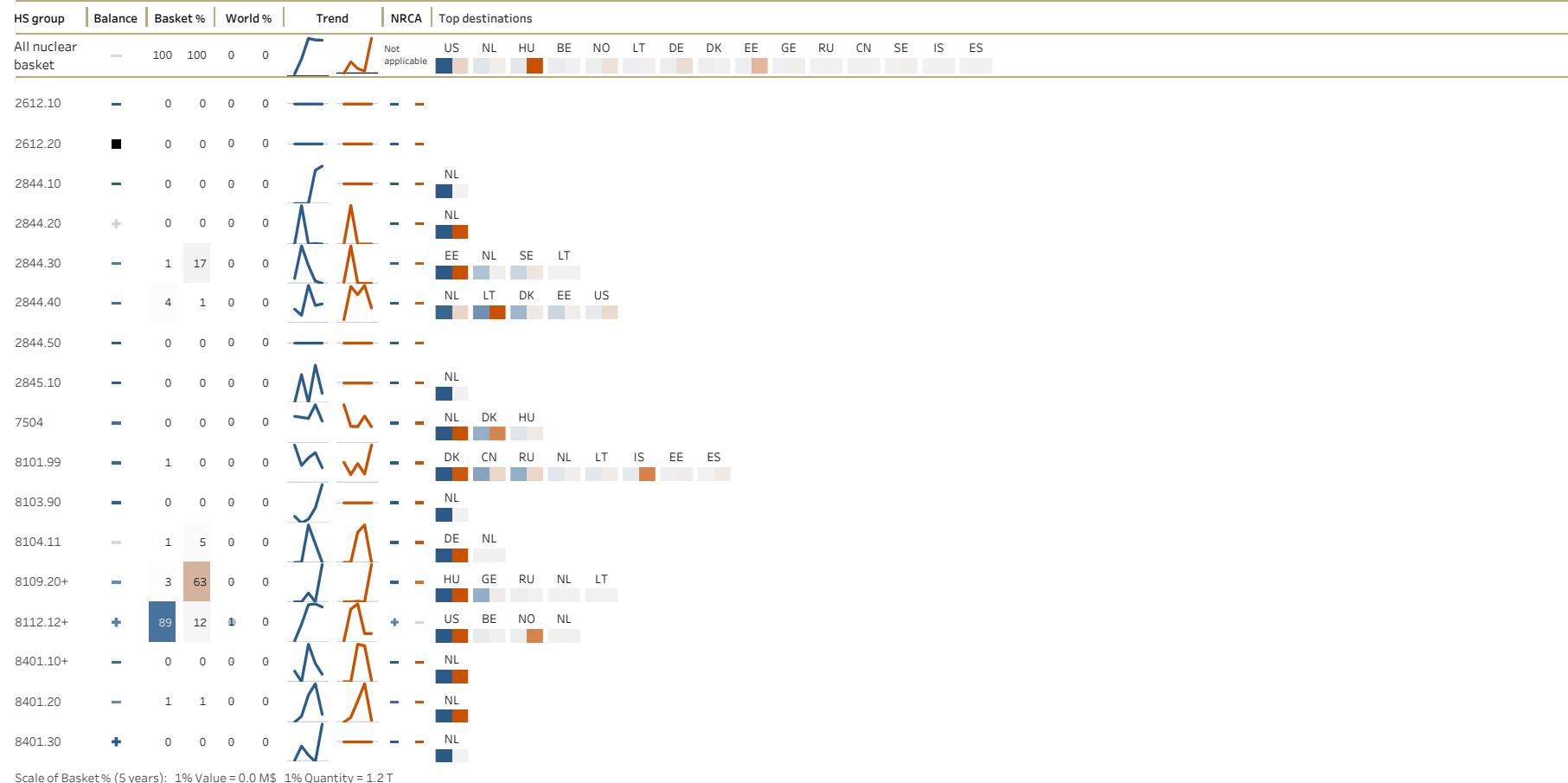


Figure 107. Latvia

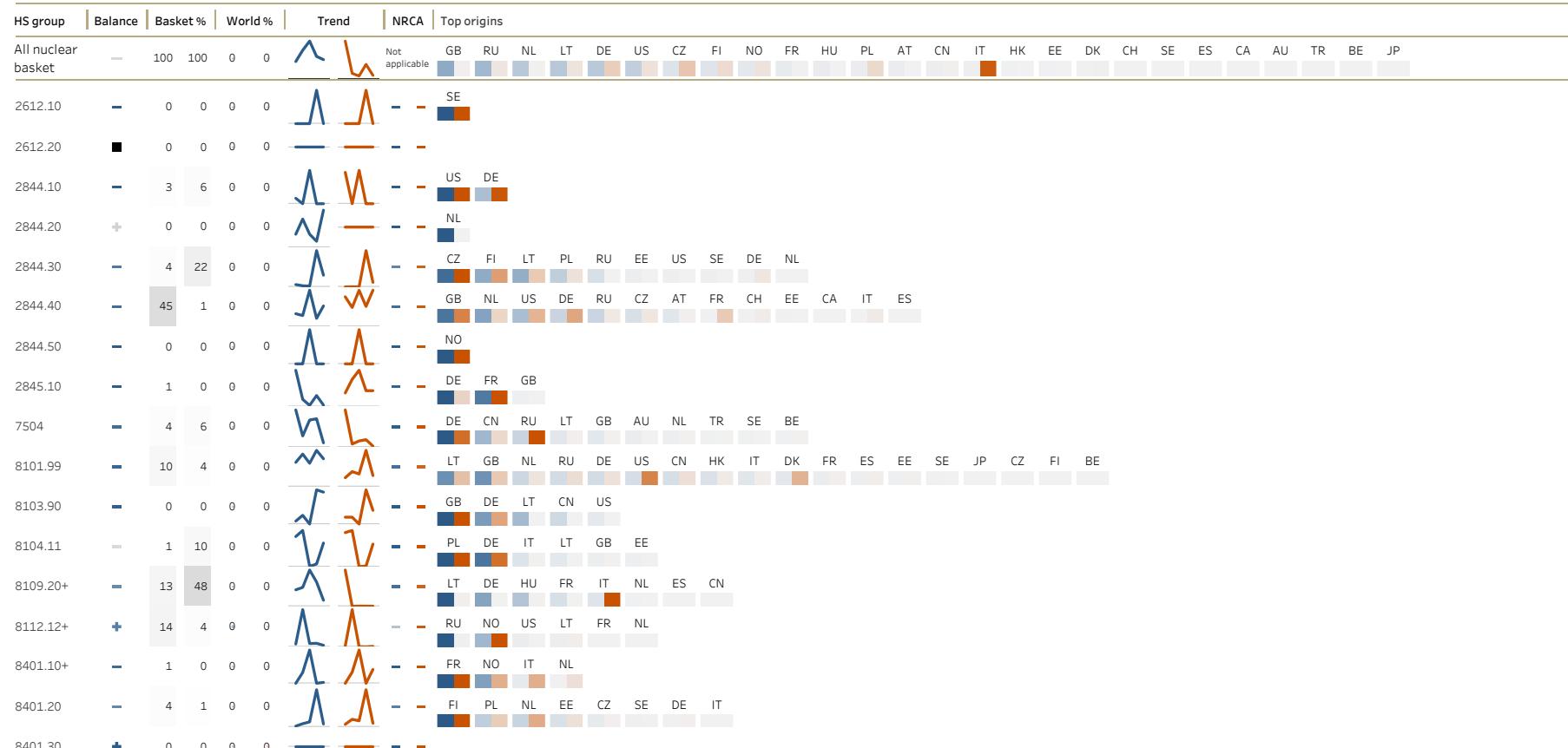


# Latvia

## Import

Years 2016-2020 BACI records: 227

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 1.1 T

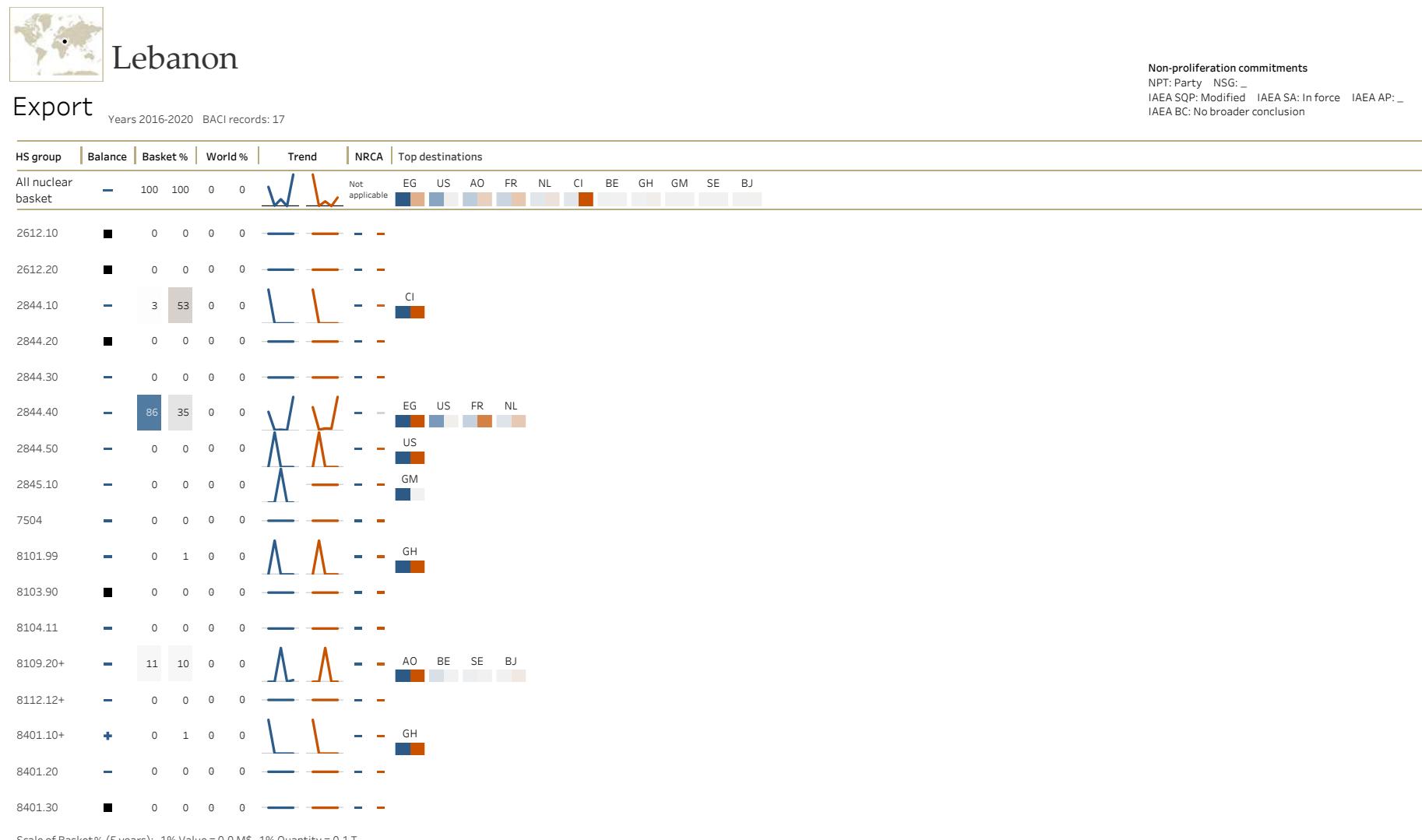


Figure 108: Lebanon

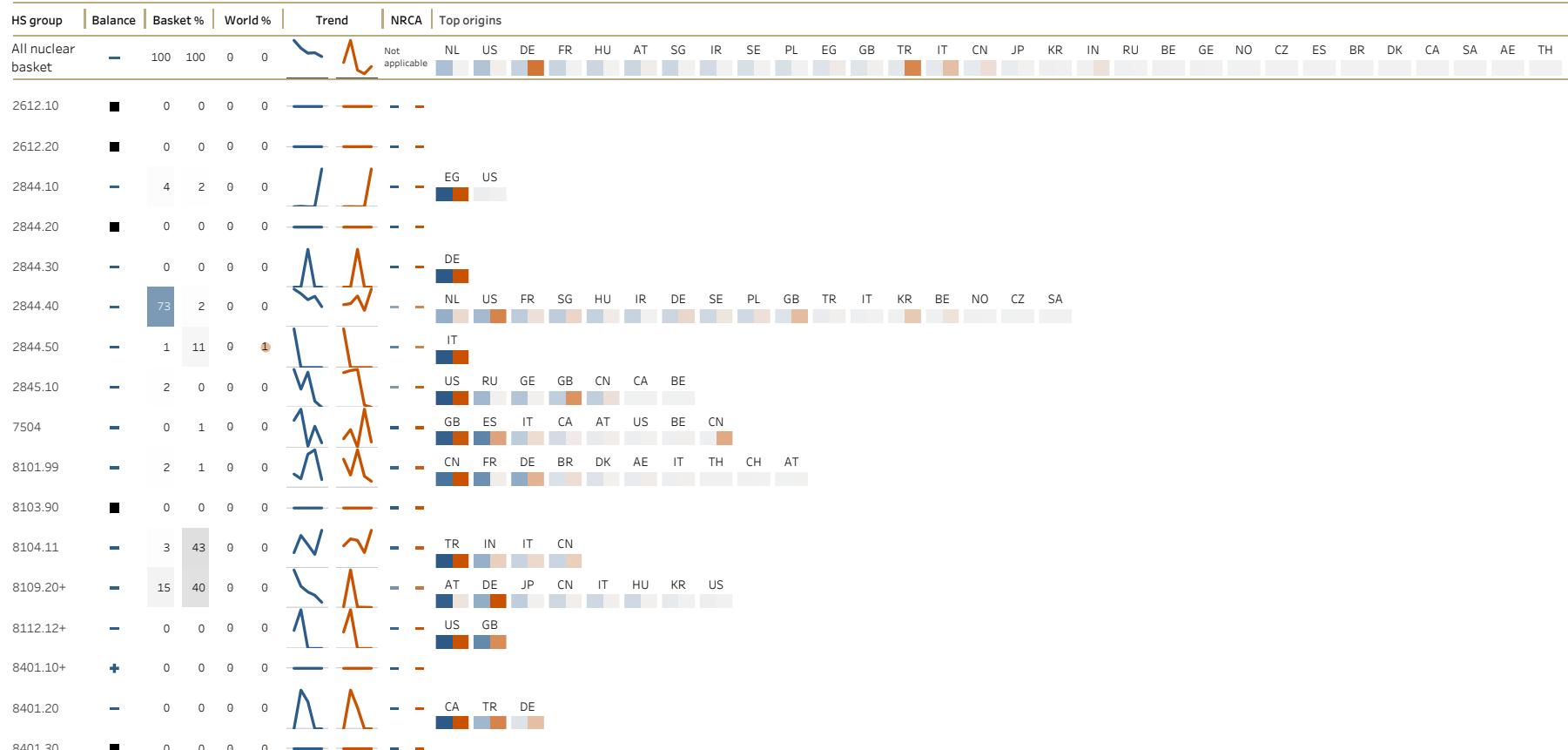


# Lebanon

## Import

Years 2016-2020 BACI records: 158

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.1 M\$ 1% Quantity = 1.7 T



## Lesotho

### Export

Years 2016-2020 BACI records: 1

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Figure 109: Lesotho

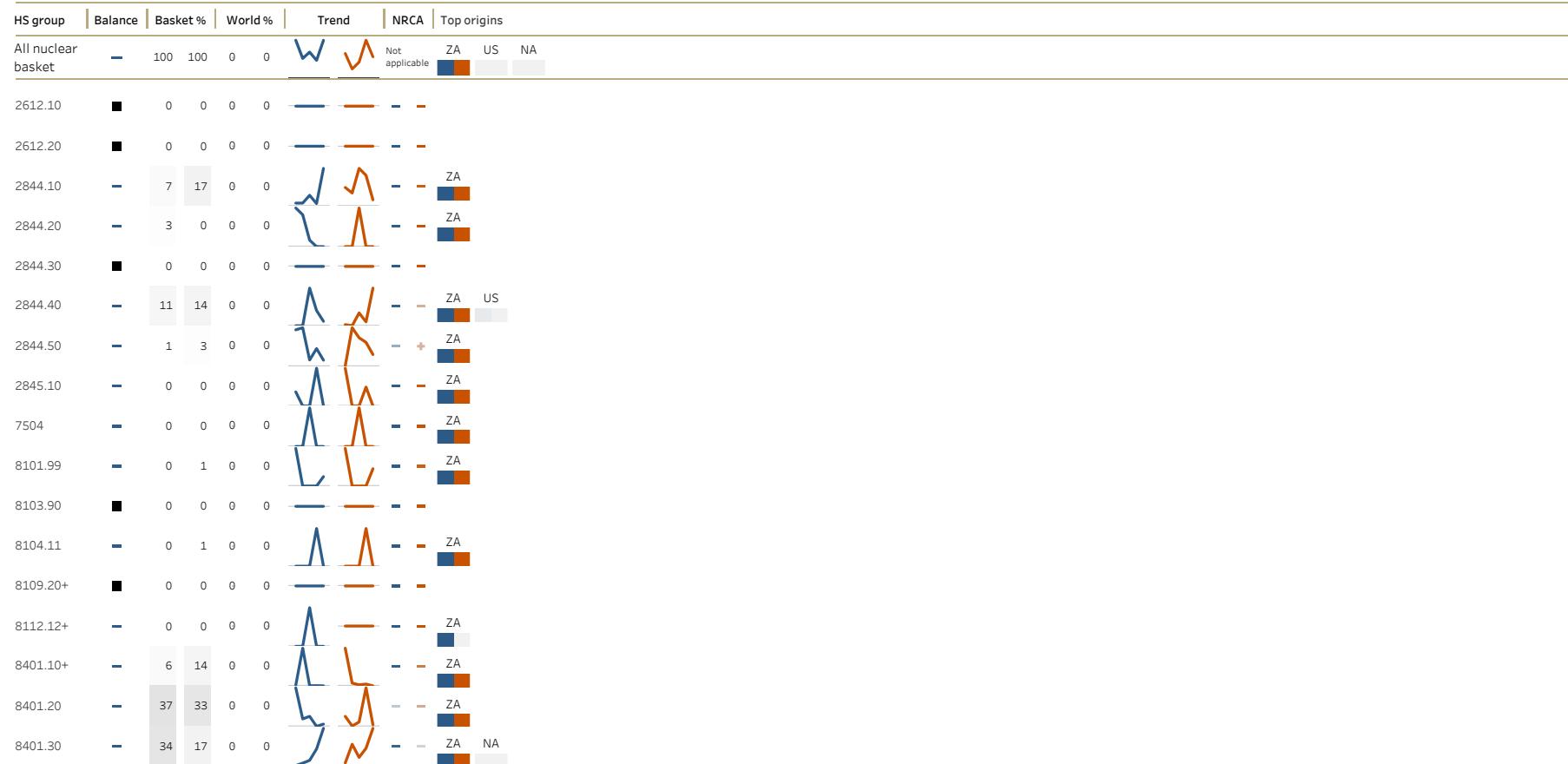


# Lesotho

## Import

Years 2016-2020 BACI records: 43

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



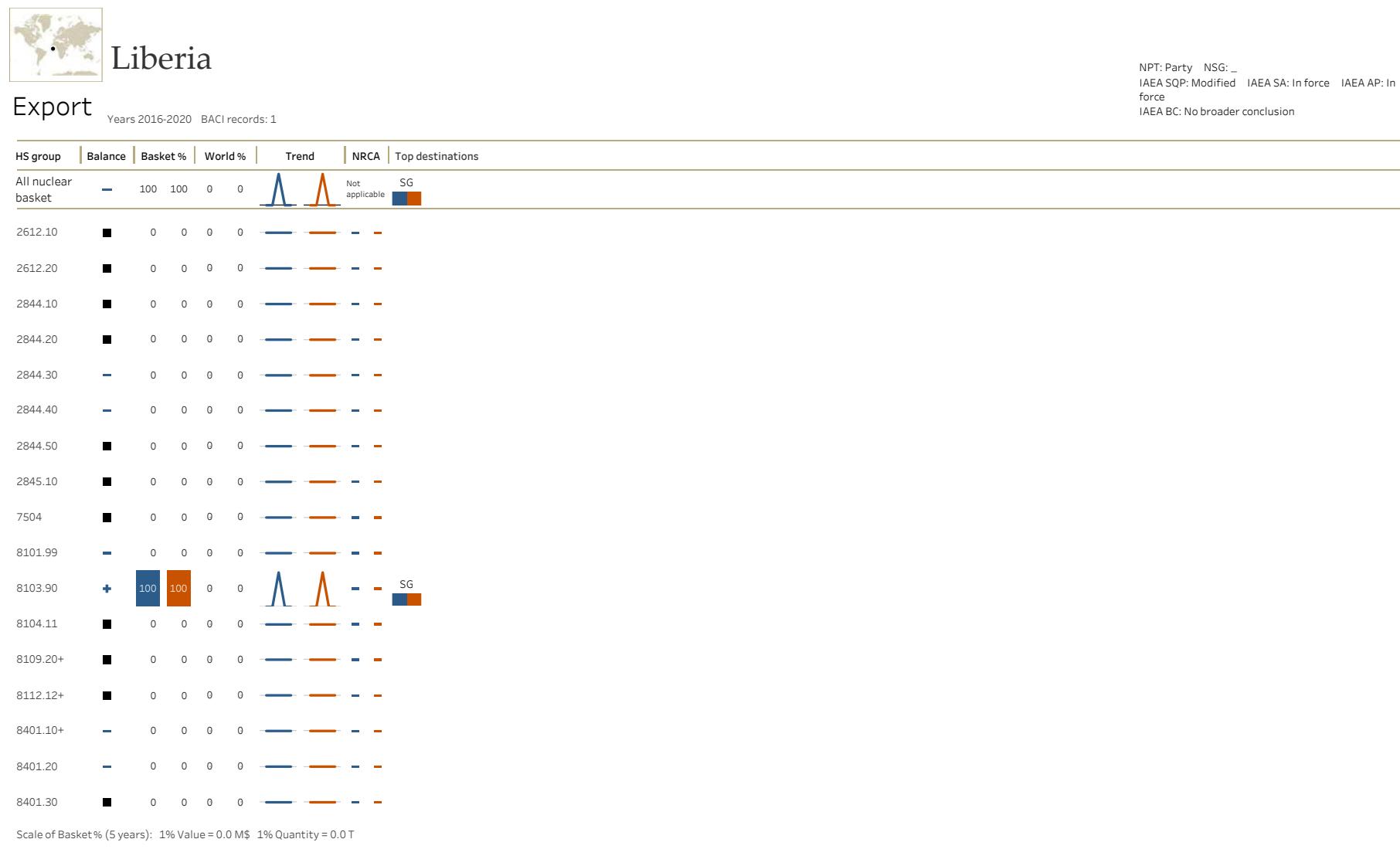


Figure 110: Liberia

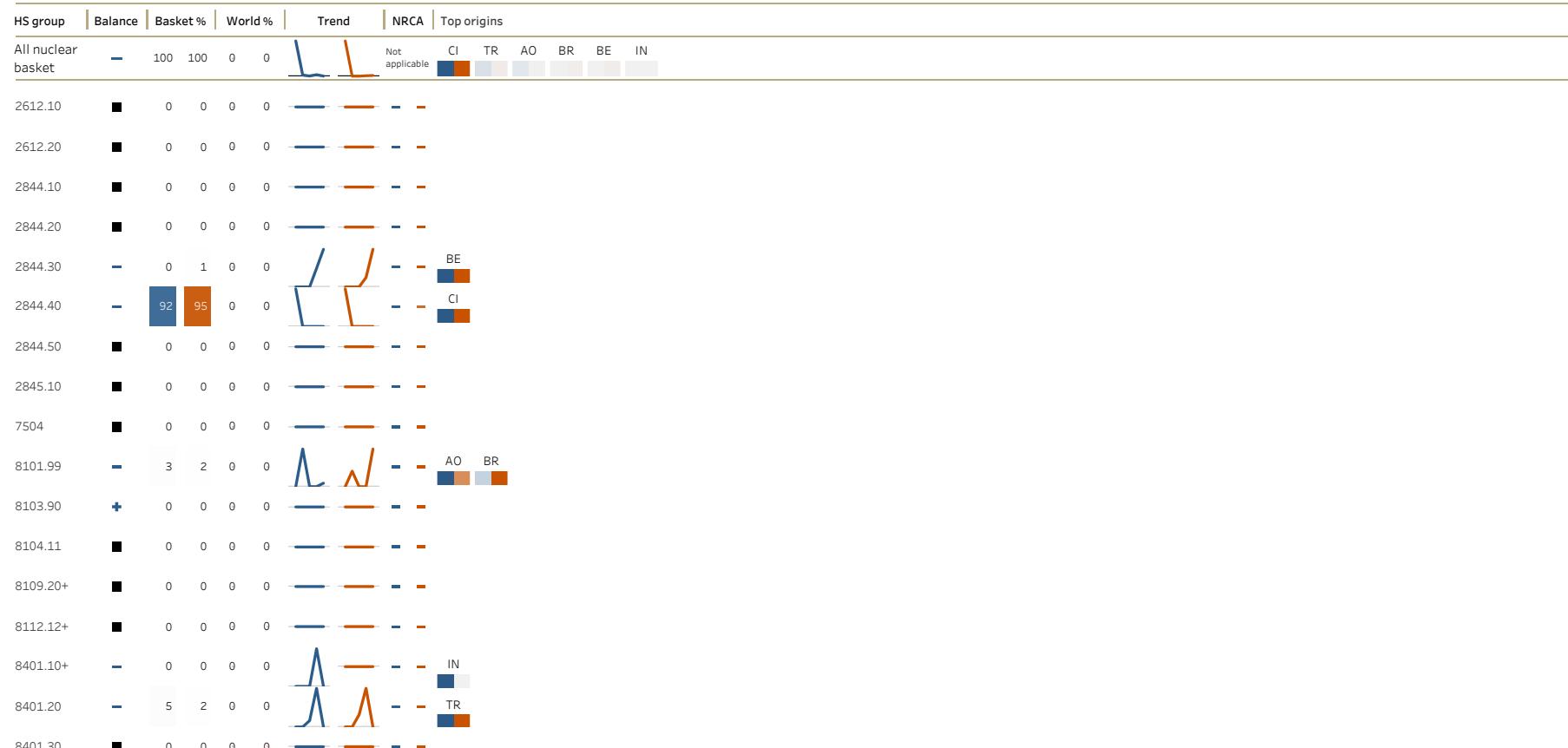


# Liberia

## Import

Years 2016-2020 BACI records: 8

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.0 T



Libya

Export

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

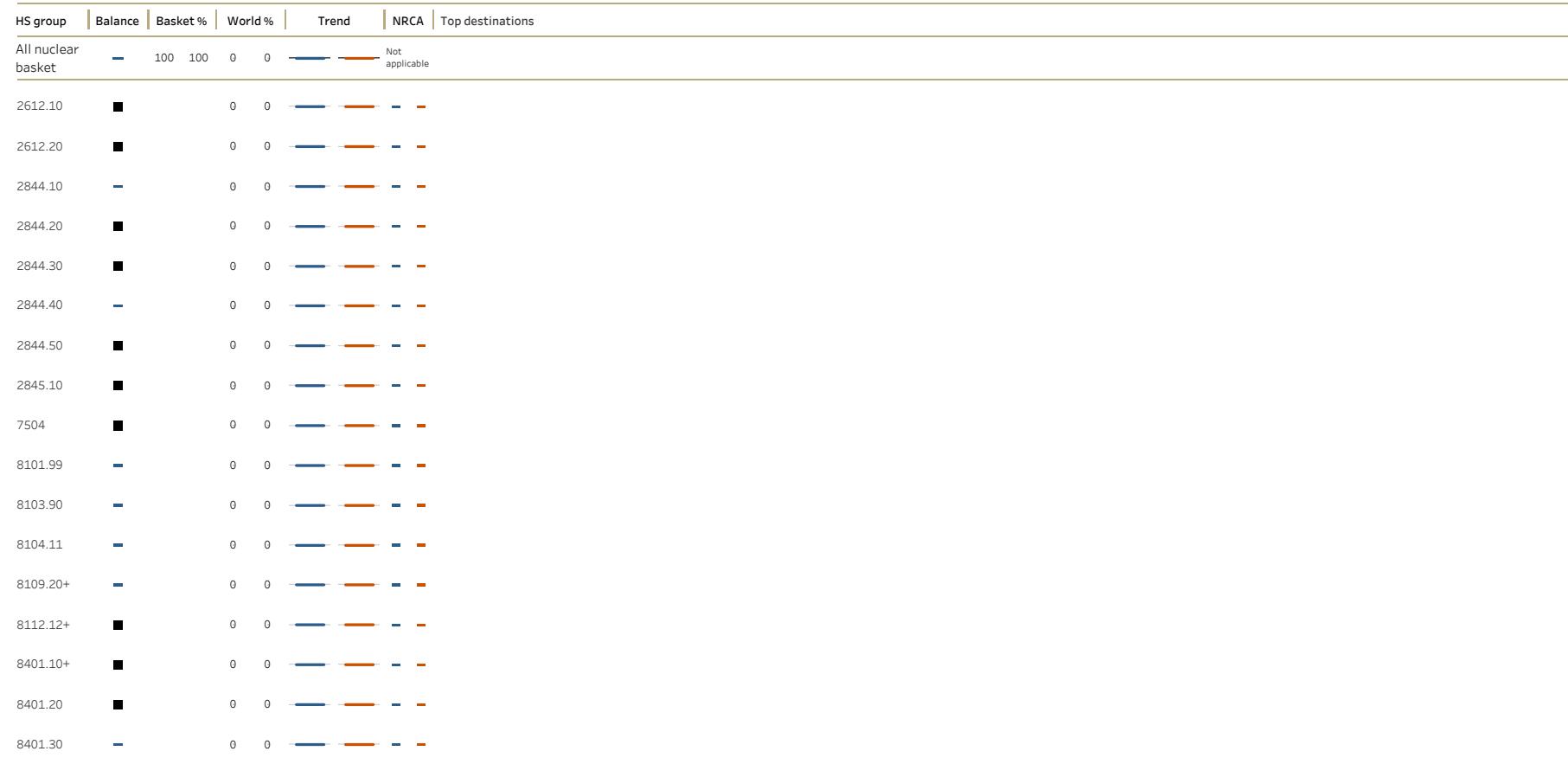


Figure 111: Libya

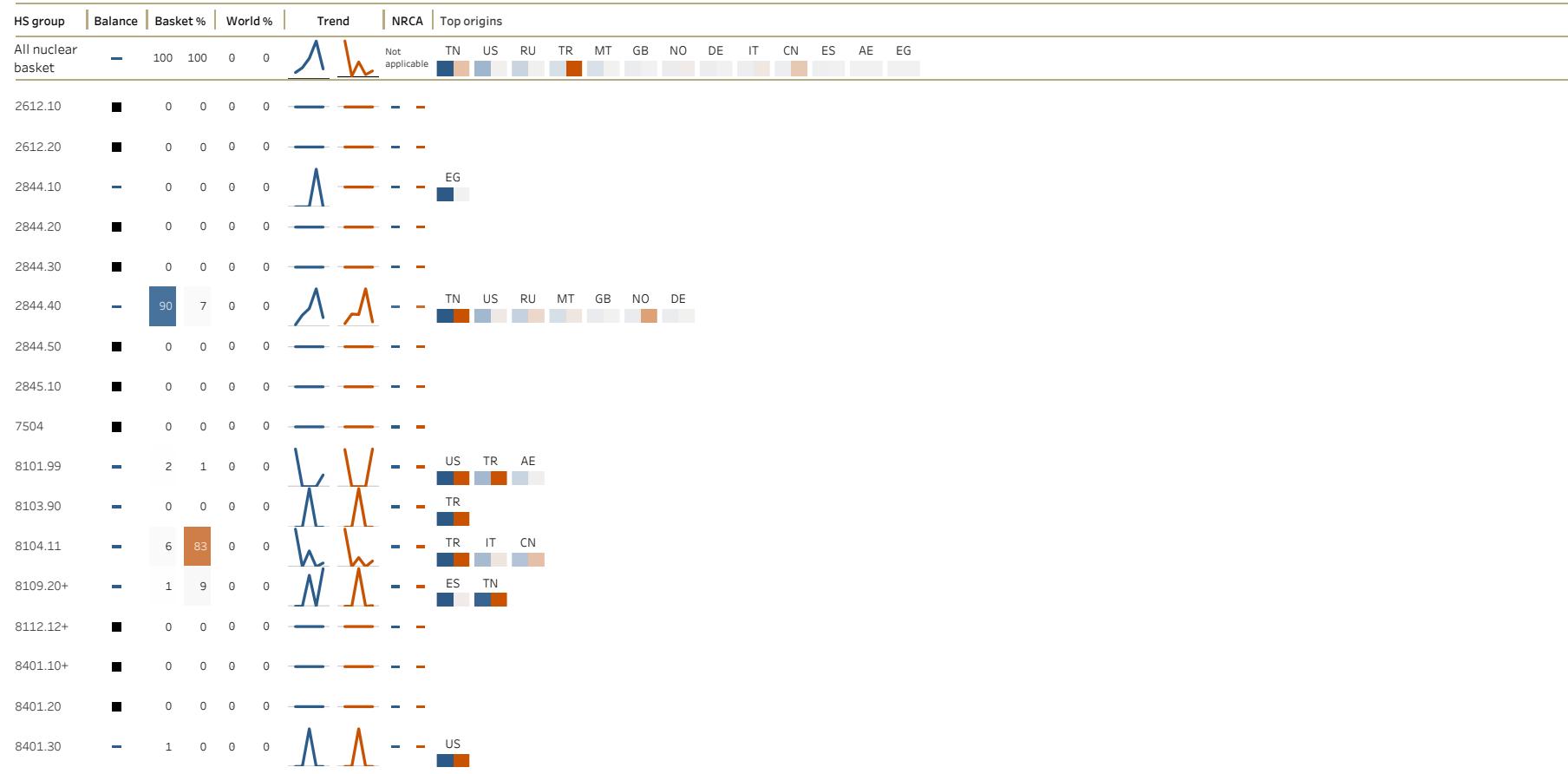


# Libya

## Import

Years 2016-2020 BACI records: 26

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.2 T



## Lithuania

### Export

Years 2016-2020 BACI records: 194

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion

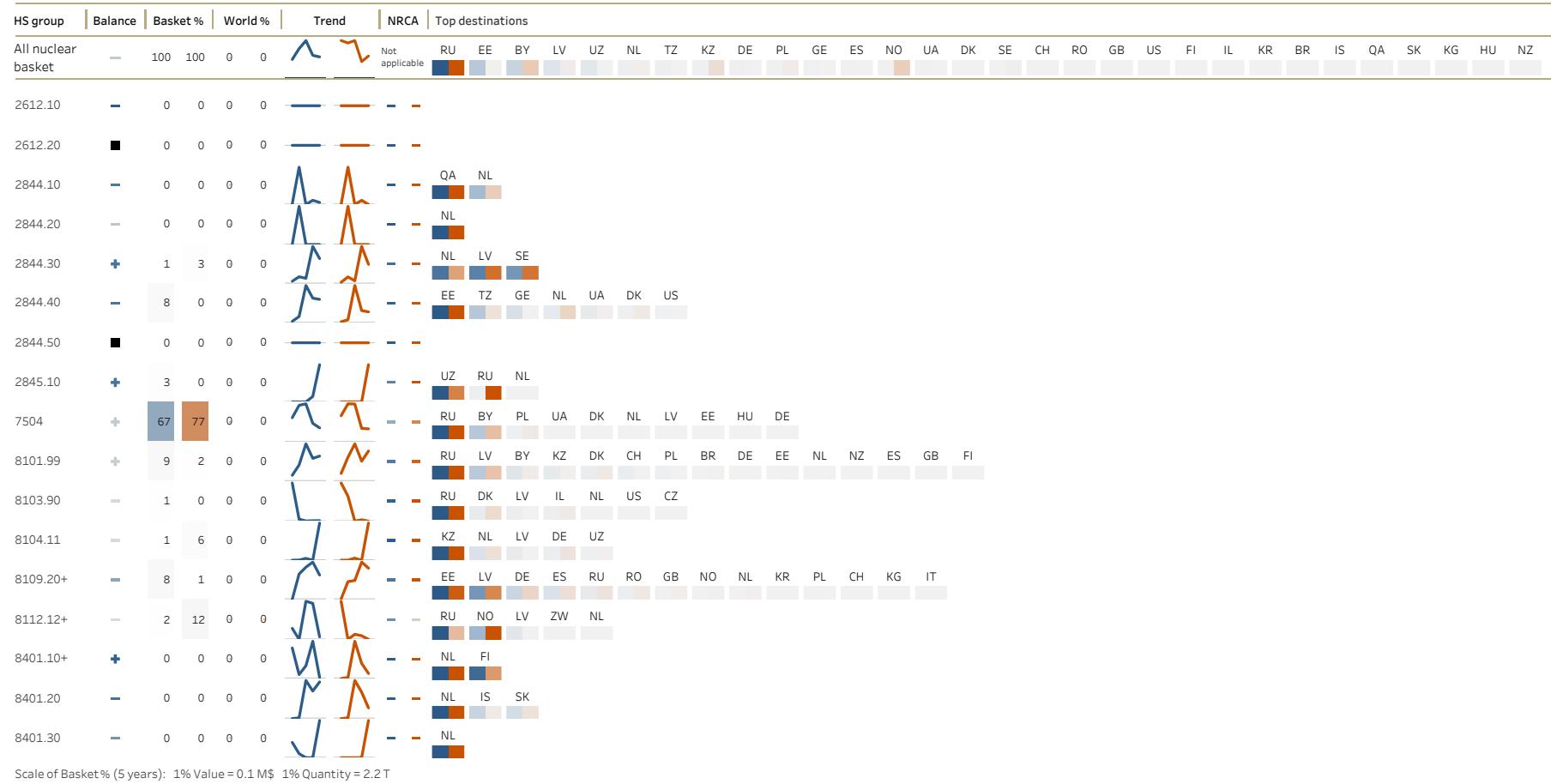


Figure 112: Lithuania

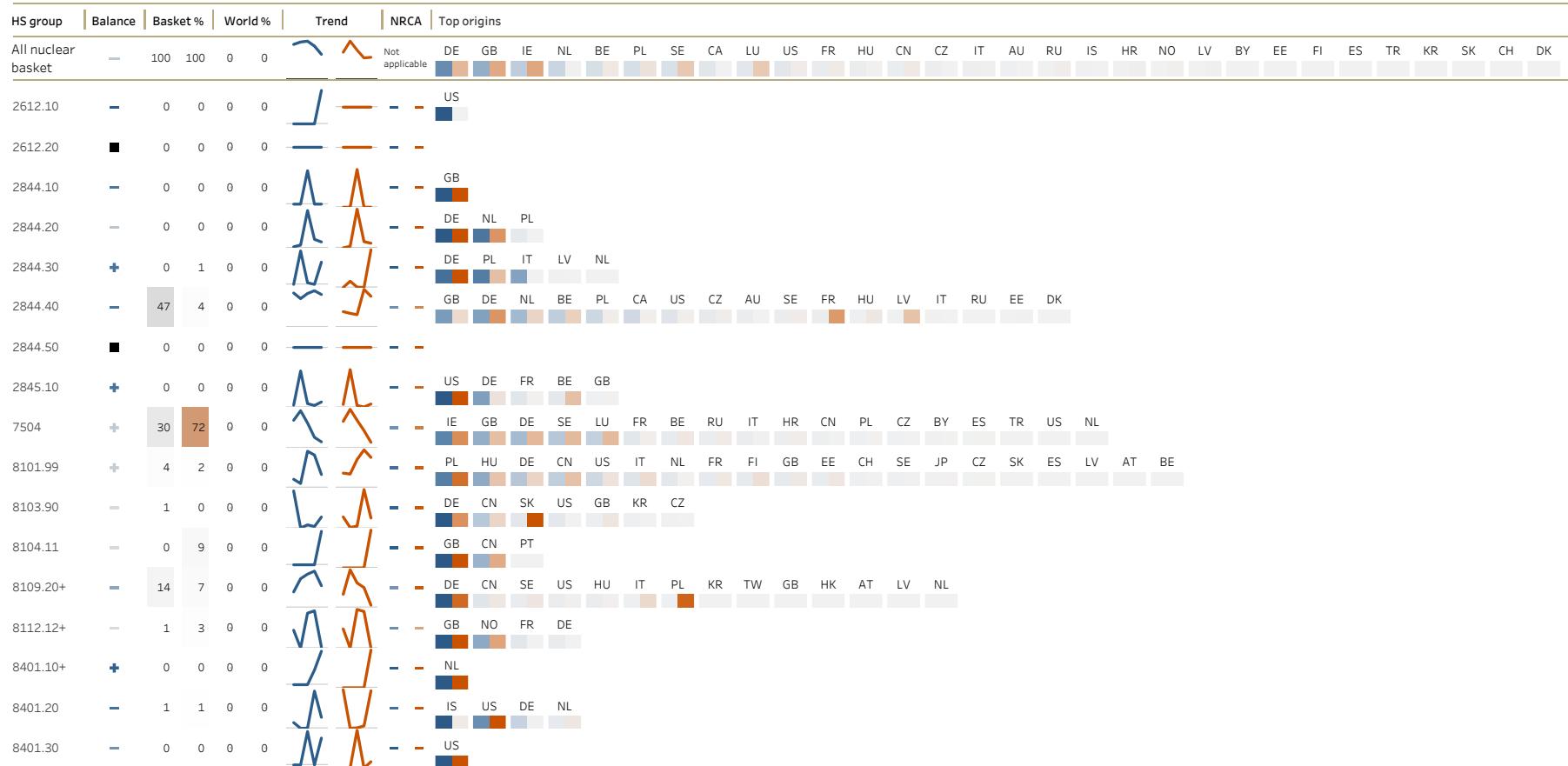


# Lithuania

## Import

Years 2016-2020 BACI records: 299

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.1 M\$ 1% Quantity = 1.6 T

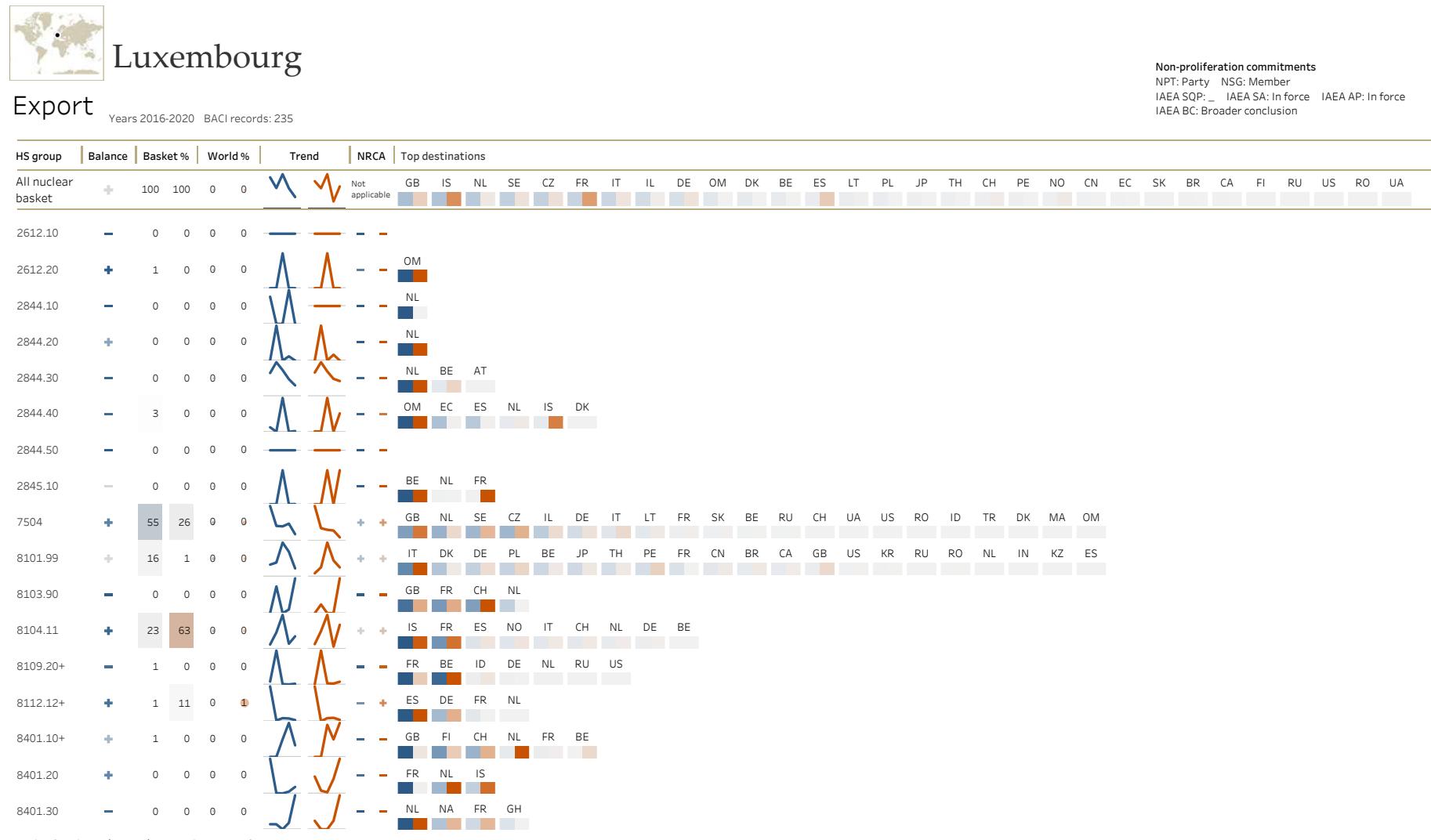


Figure 113: Luxembourg

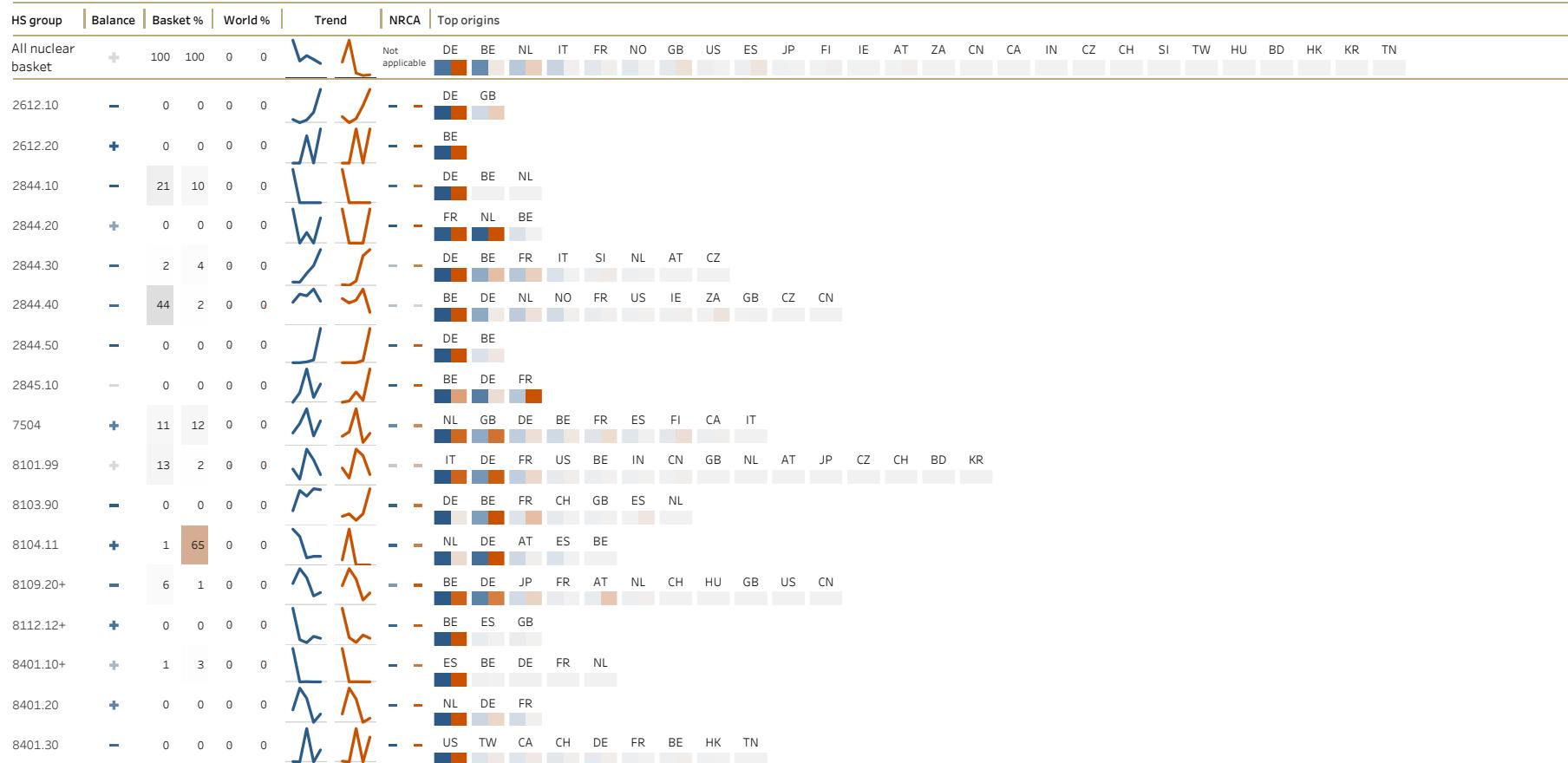


# Luxembourg

## Import

Years 2016-2020 BACI records: 272

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.2 M\$ 1% Quantity = 9.8 T



## Madagascar

### Export

Years 2016-2020 BACI records: 20

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion

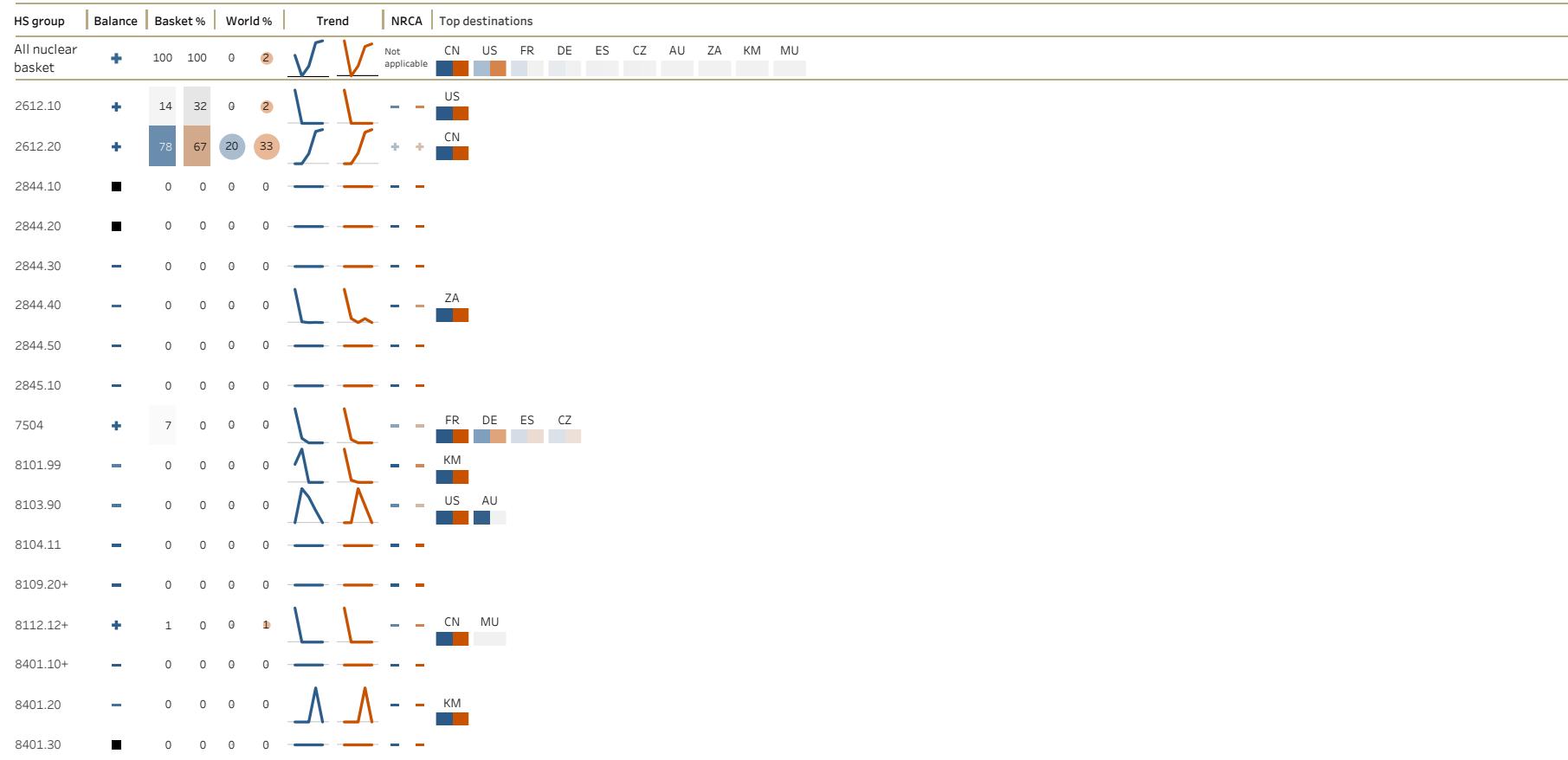


Figure 114: Madagascar

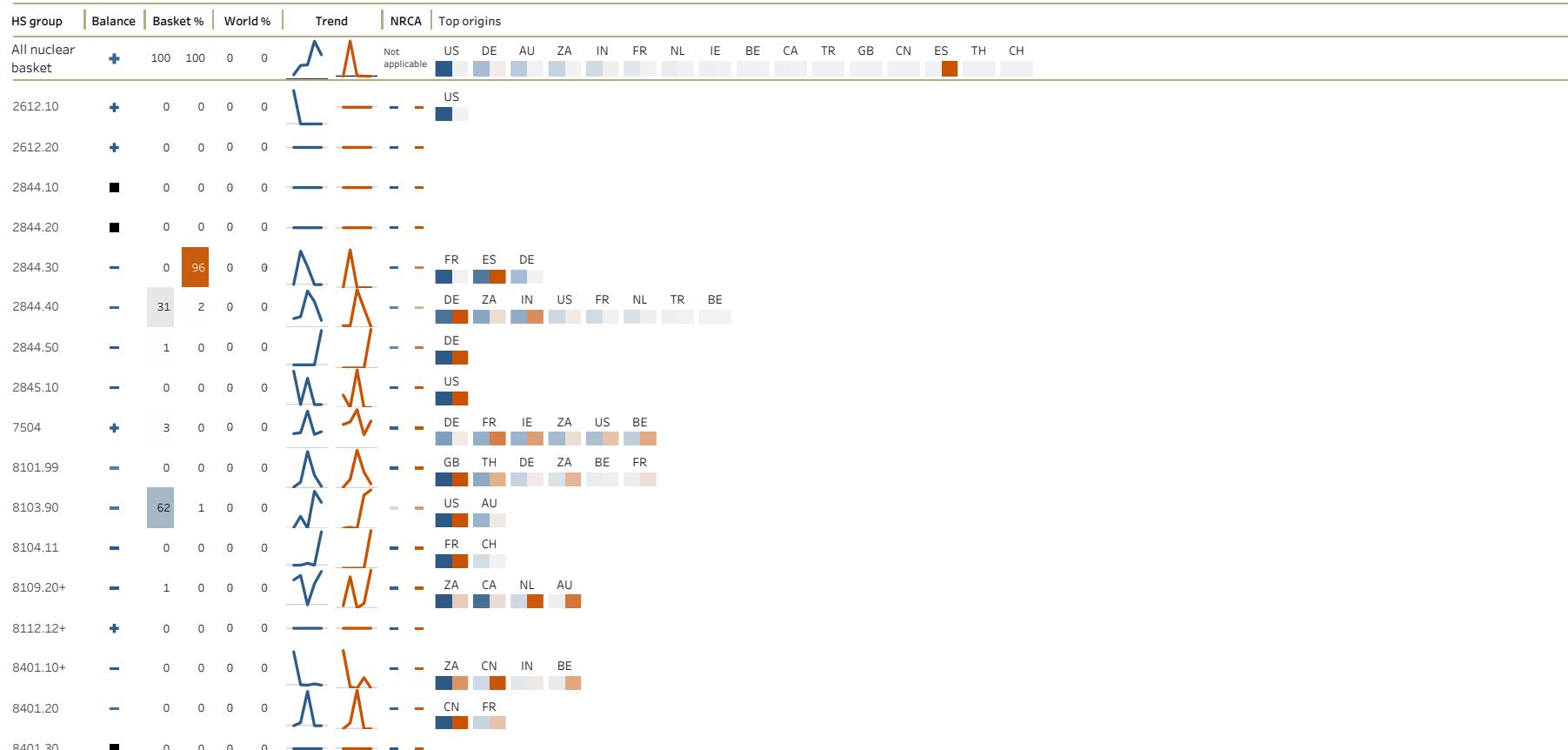


# Madagascar

## Import

Years 2016-2020 BACI records: 77

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 2.9 T



Figure 115: Malawi

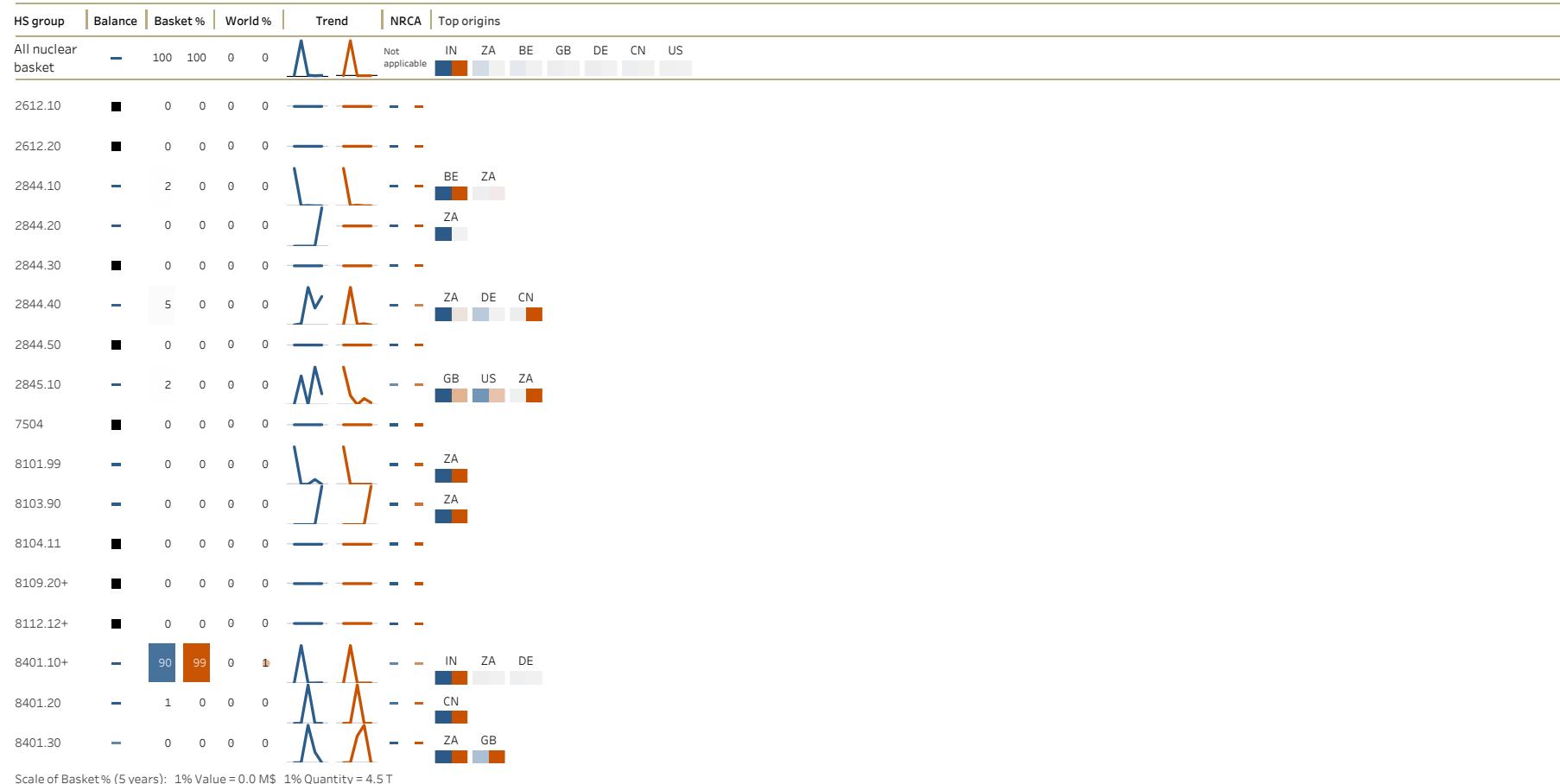


# Malawi

## Import

Years 2016-2020 BACI records: 25

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



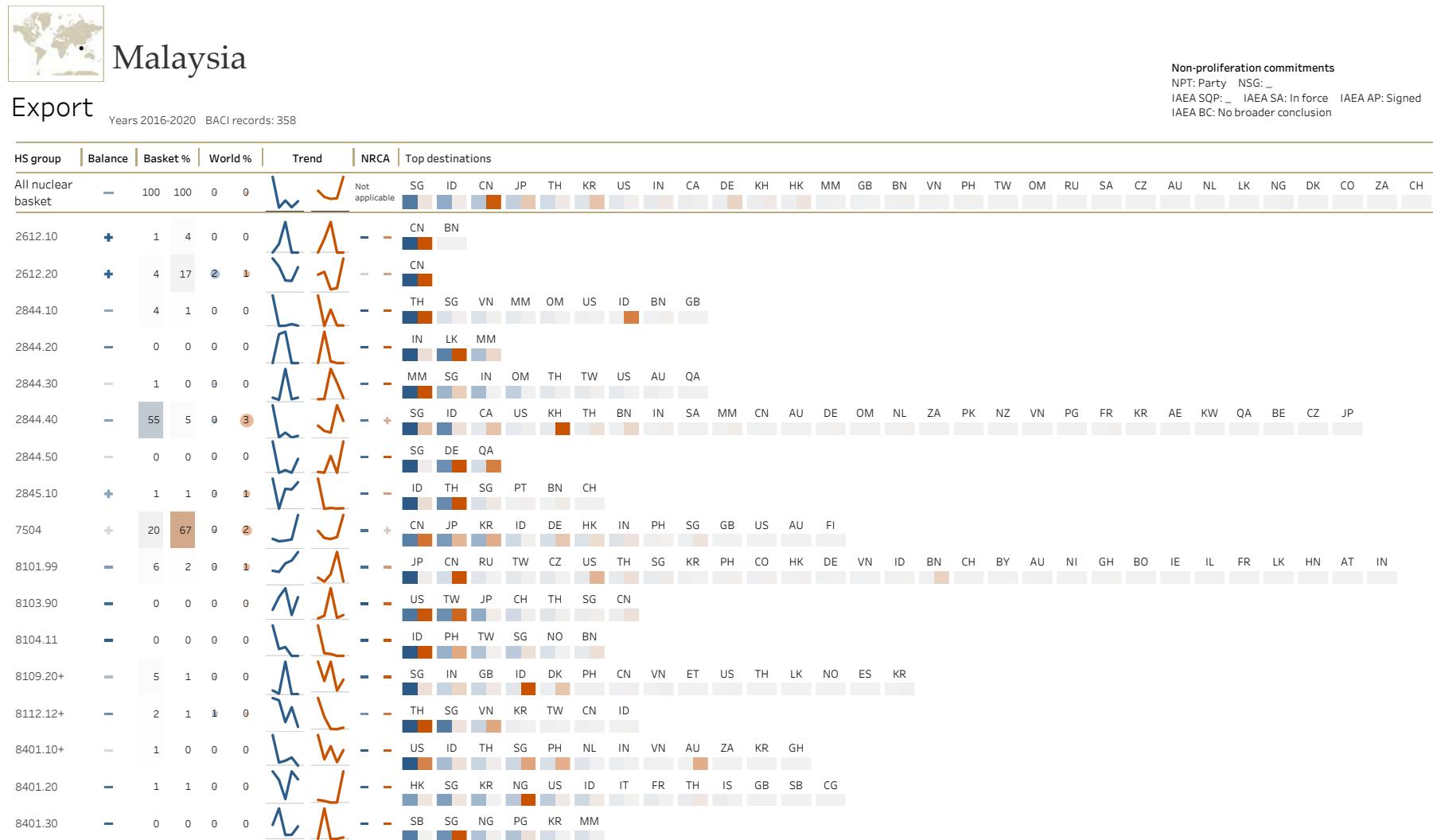


Figure 116: Malaysia

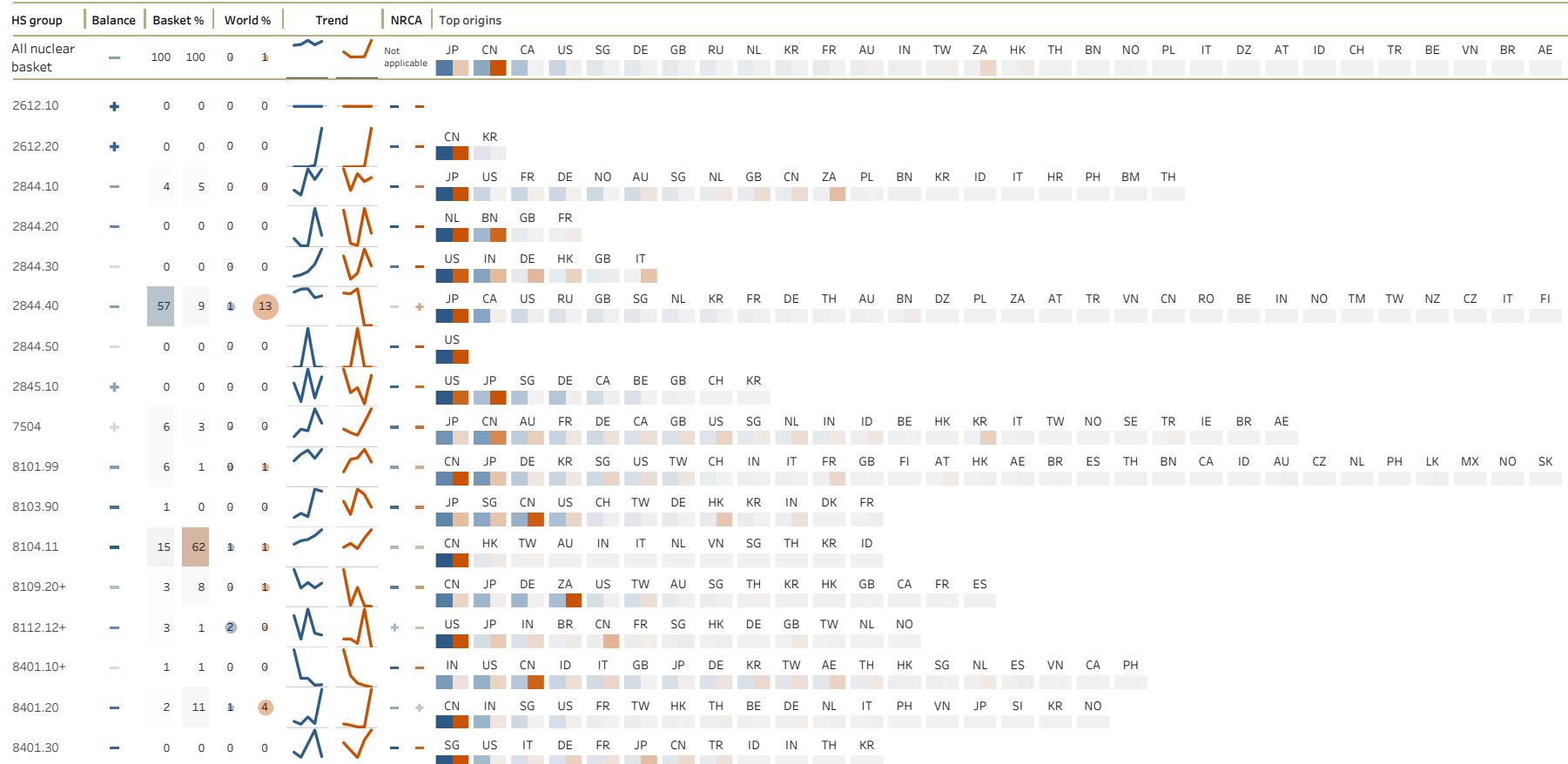


# Malaysia

## Import

Years 2016-2020 BACI records: 668

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: Signed  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 1.6 M\$ 1% Quantity = 187.3 T



## Maldives

### Export

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion

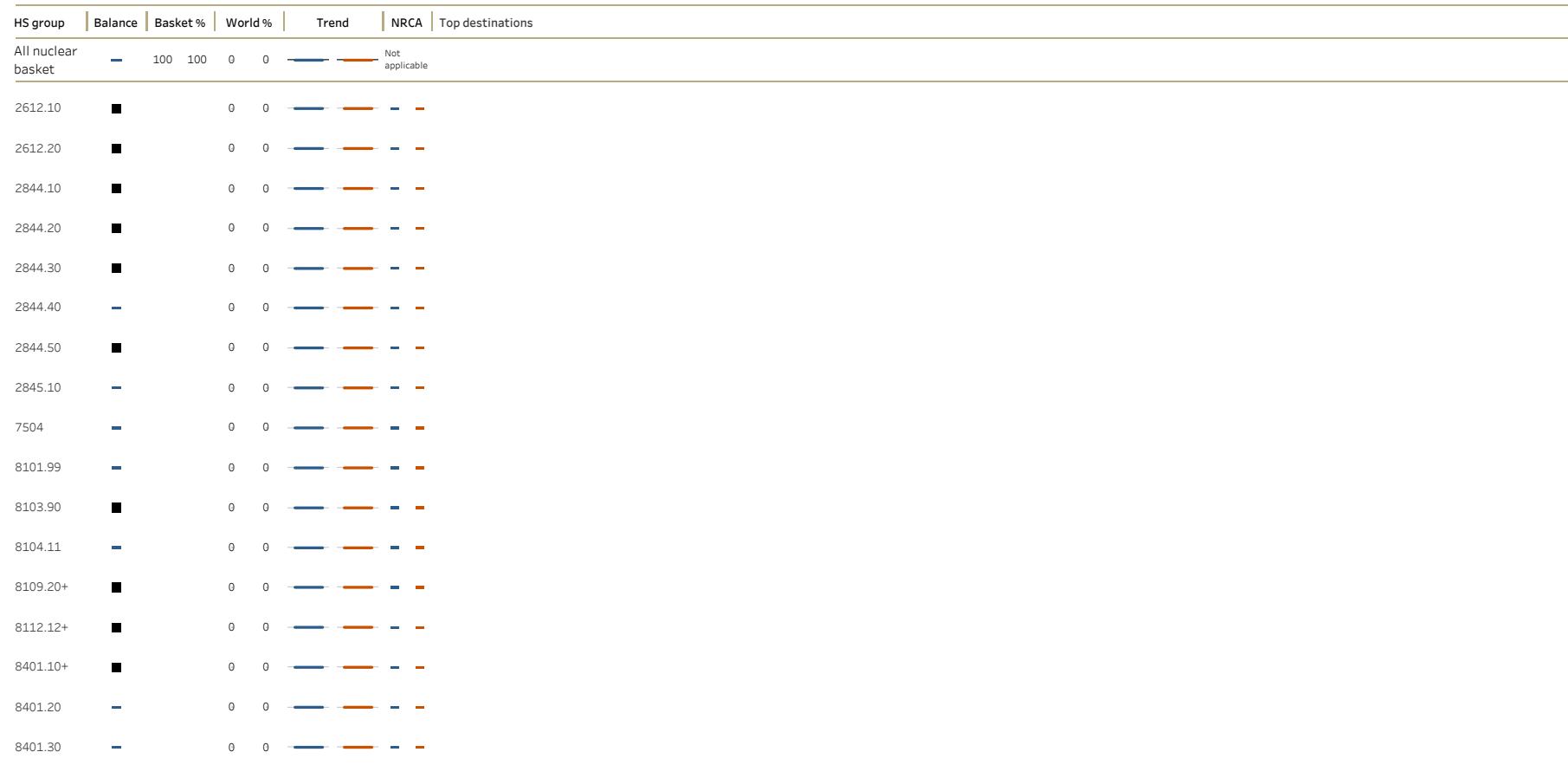


Figure 117: Maldives

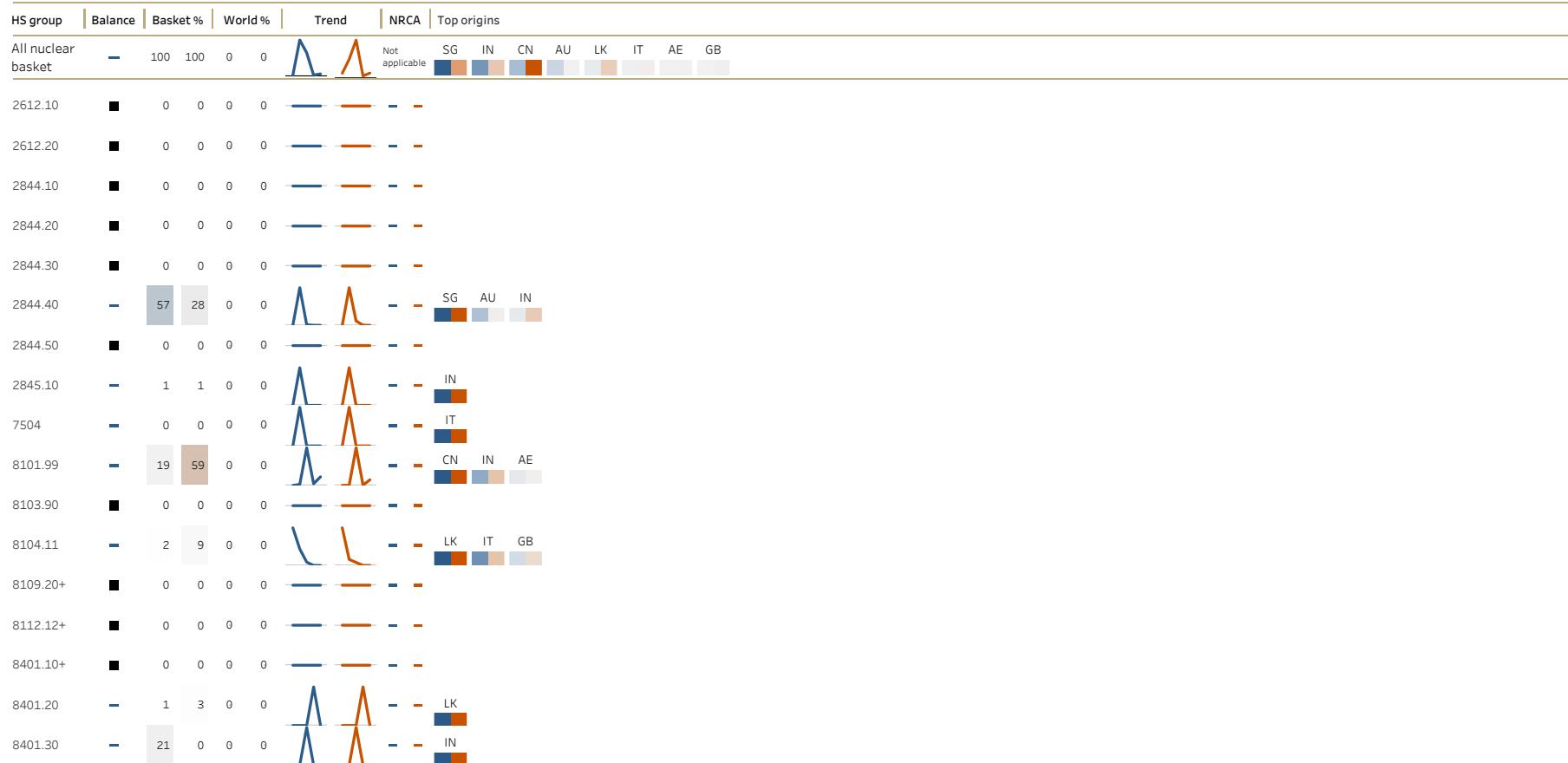


# Maldives

## Import

Years 2016-2020 BACI records: 19

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.0 T

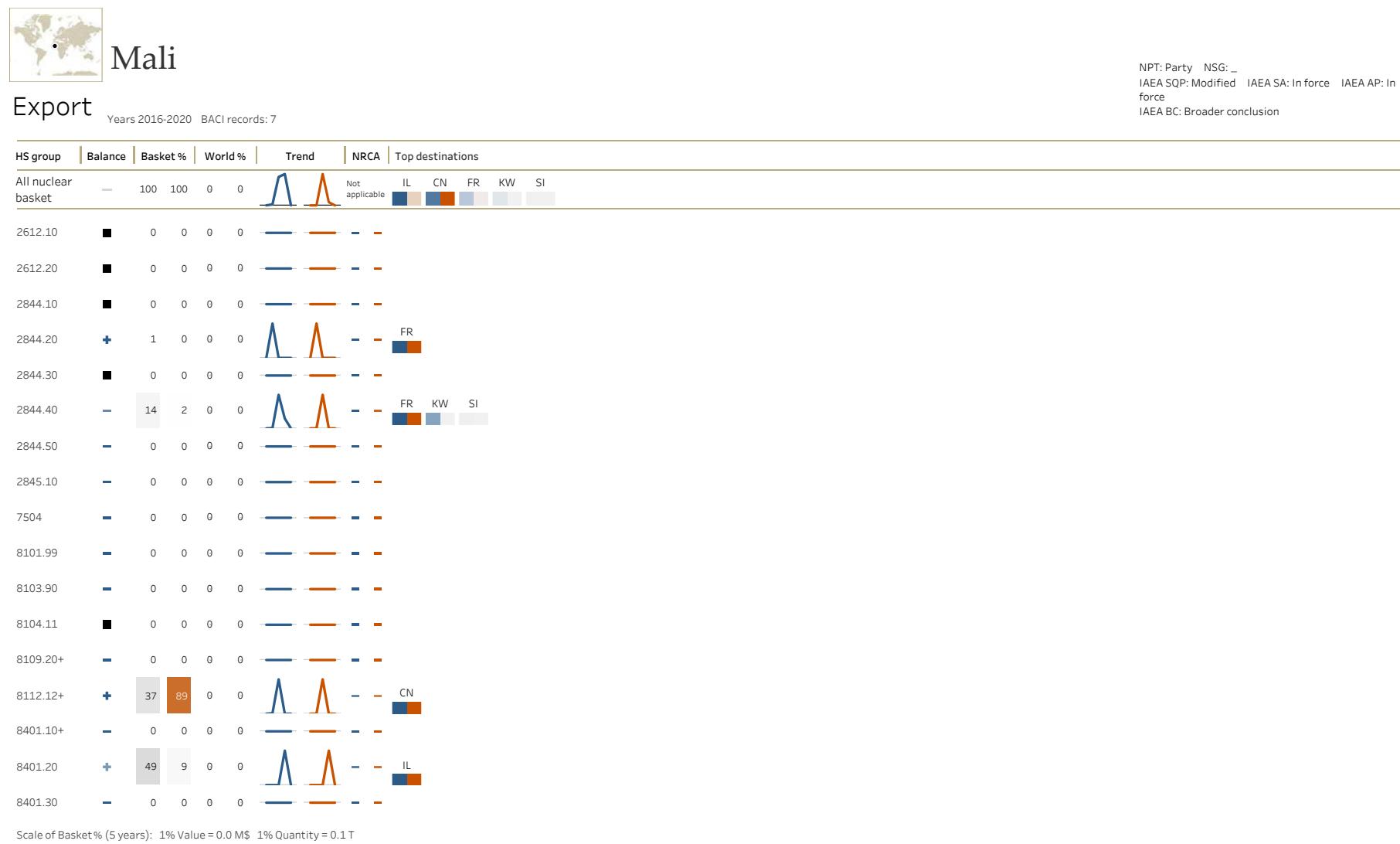


Figure 118: Mali

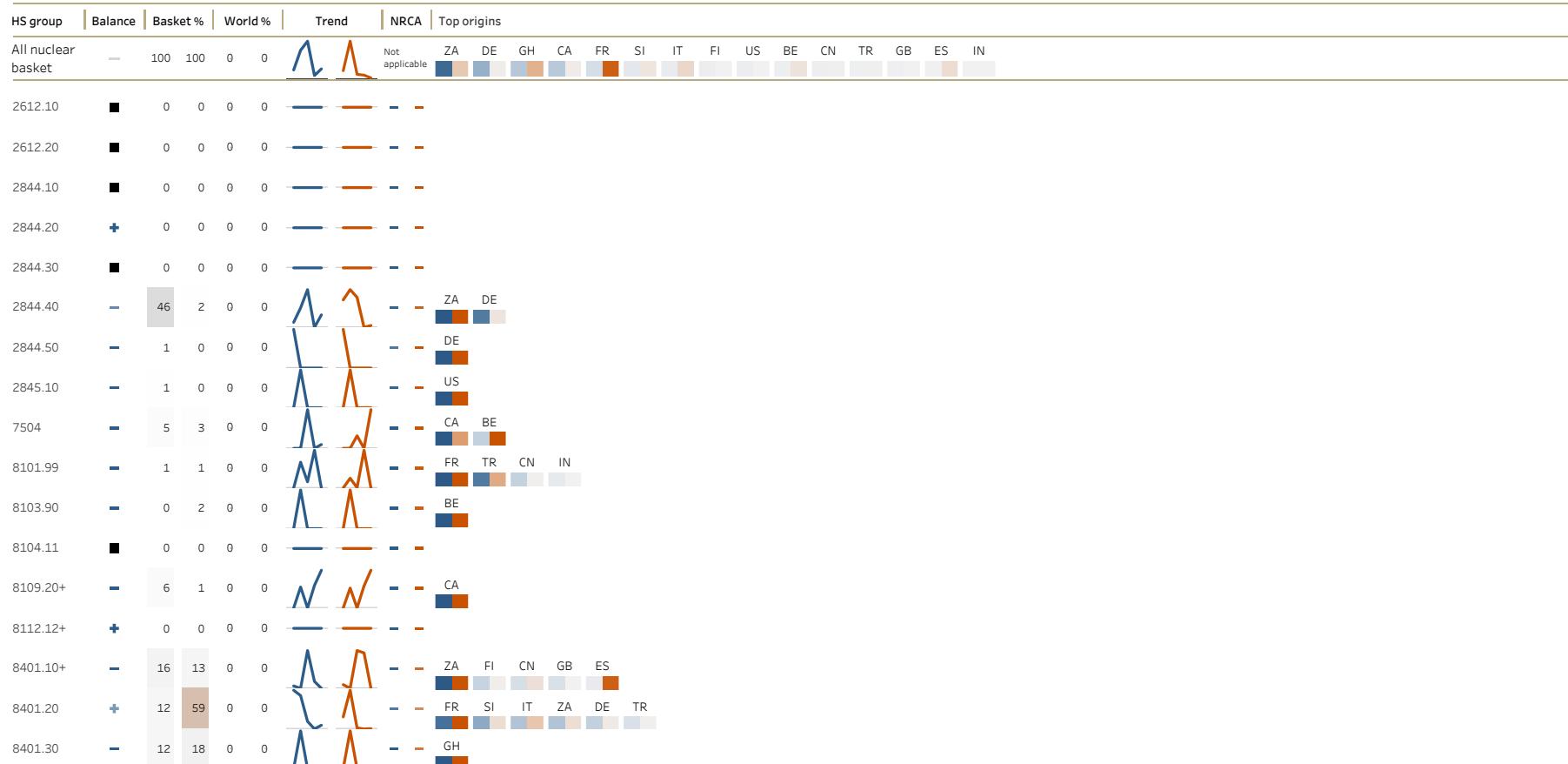


# Mali

## Import

Years 2016-2020 BACI records: 29

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.3 T



Figure 119: Malta

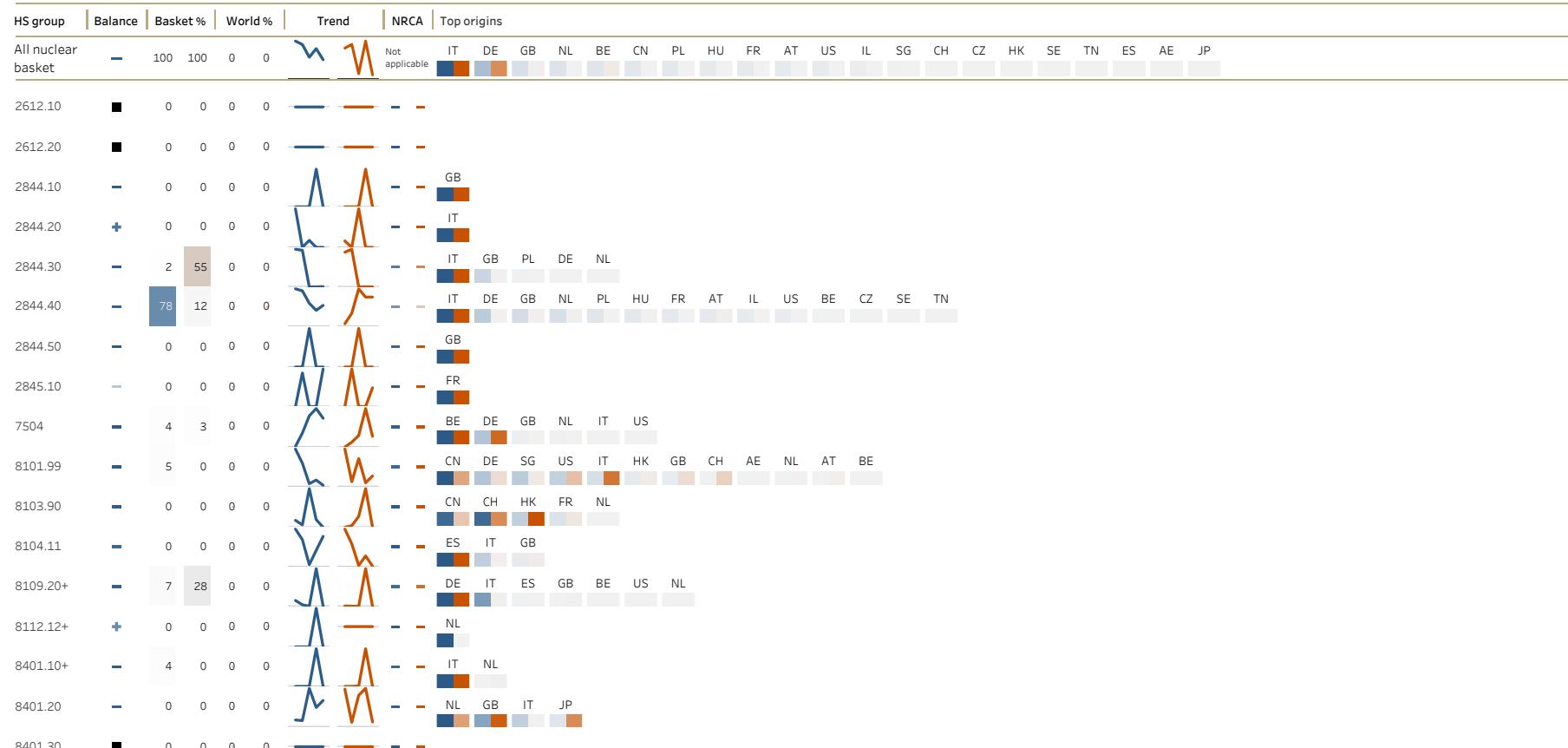


# Malta

## Import

Years 2016-2020 BACI records: 145

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 1.3 T



## Mauritania

### Export

Years 2016-2020 BACI records: 3

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion

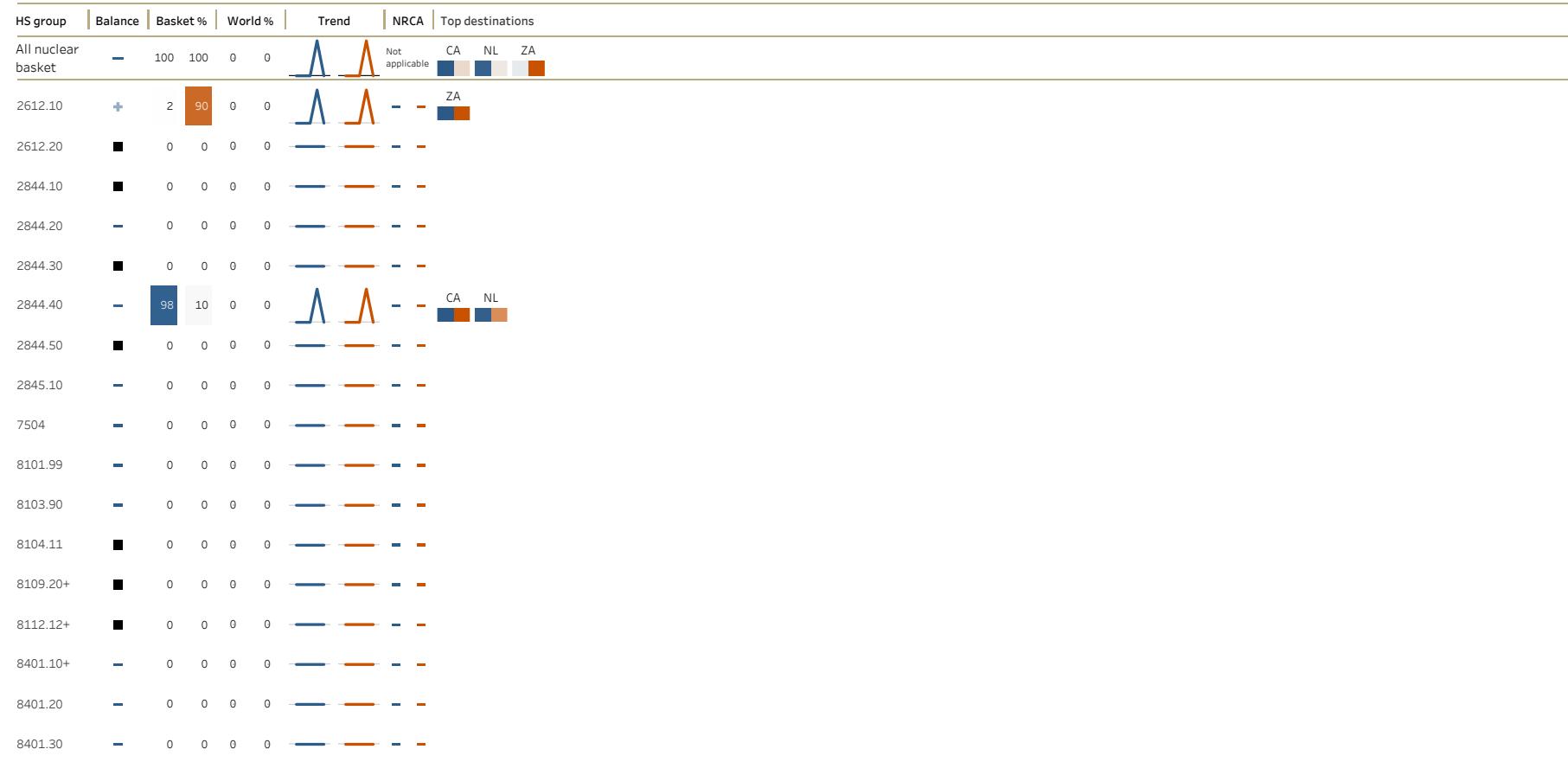


Figure 120: Mauritania

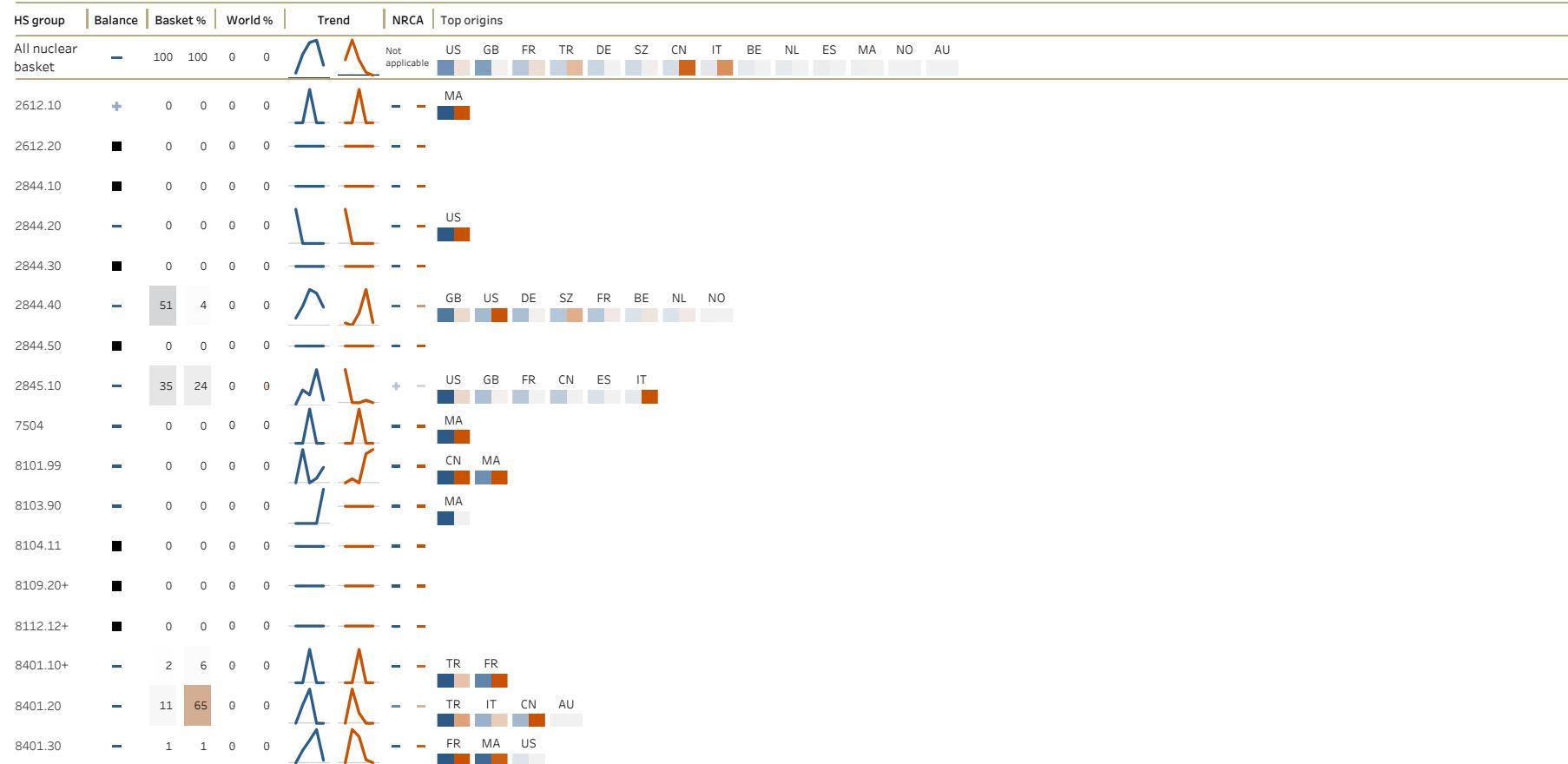


# Mauritania

## Import

Years 2016-2020 BACI records: 49

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



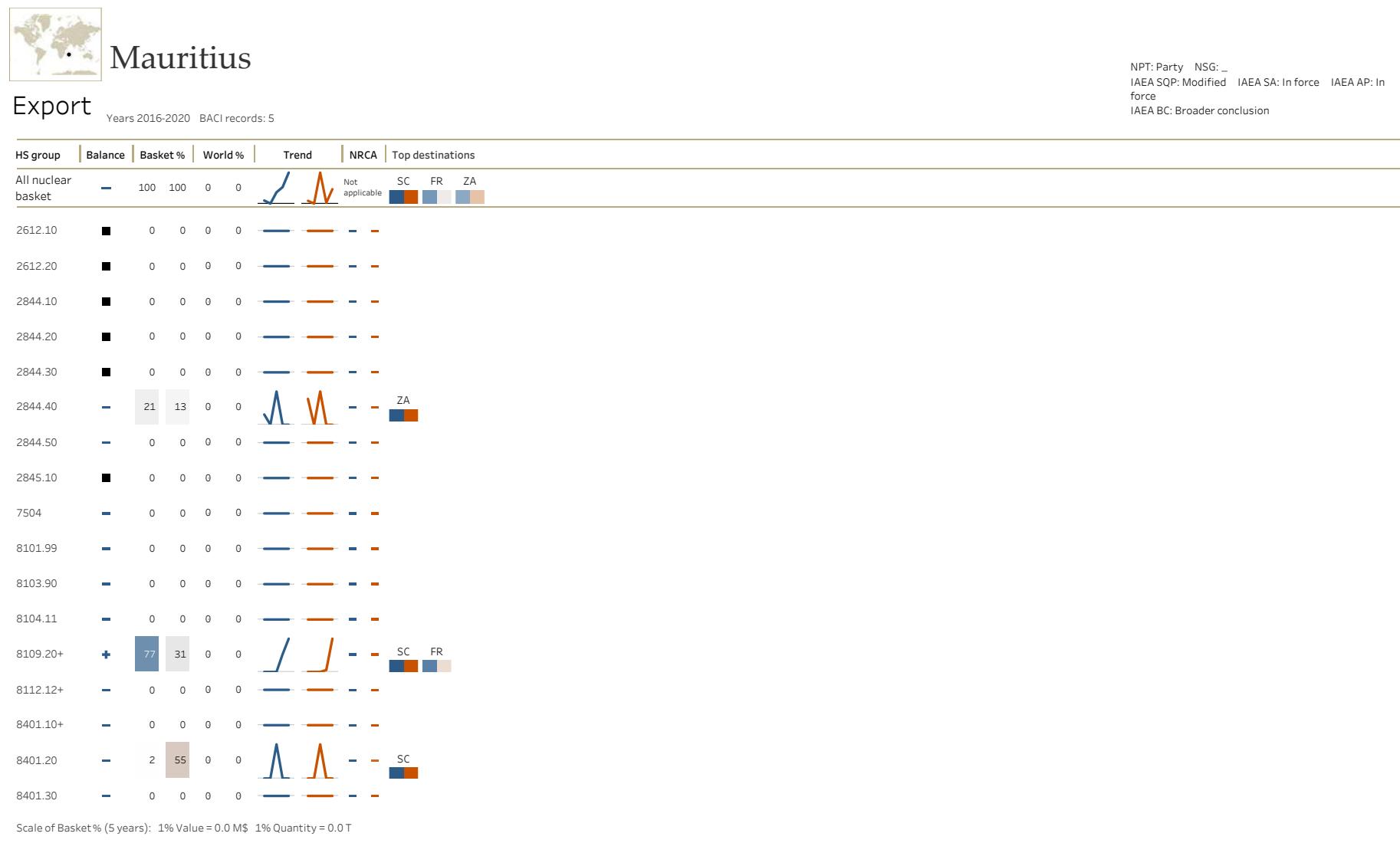


Figure 121: Mauritius

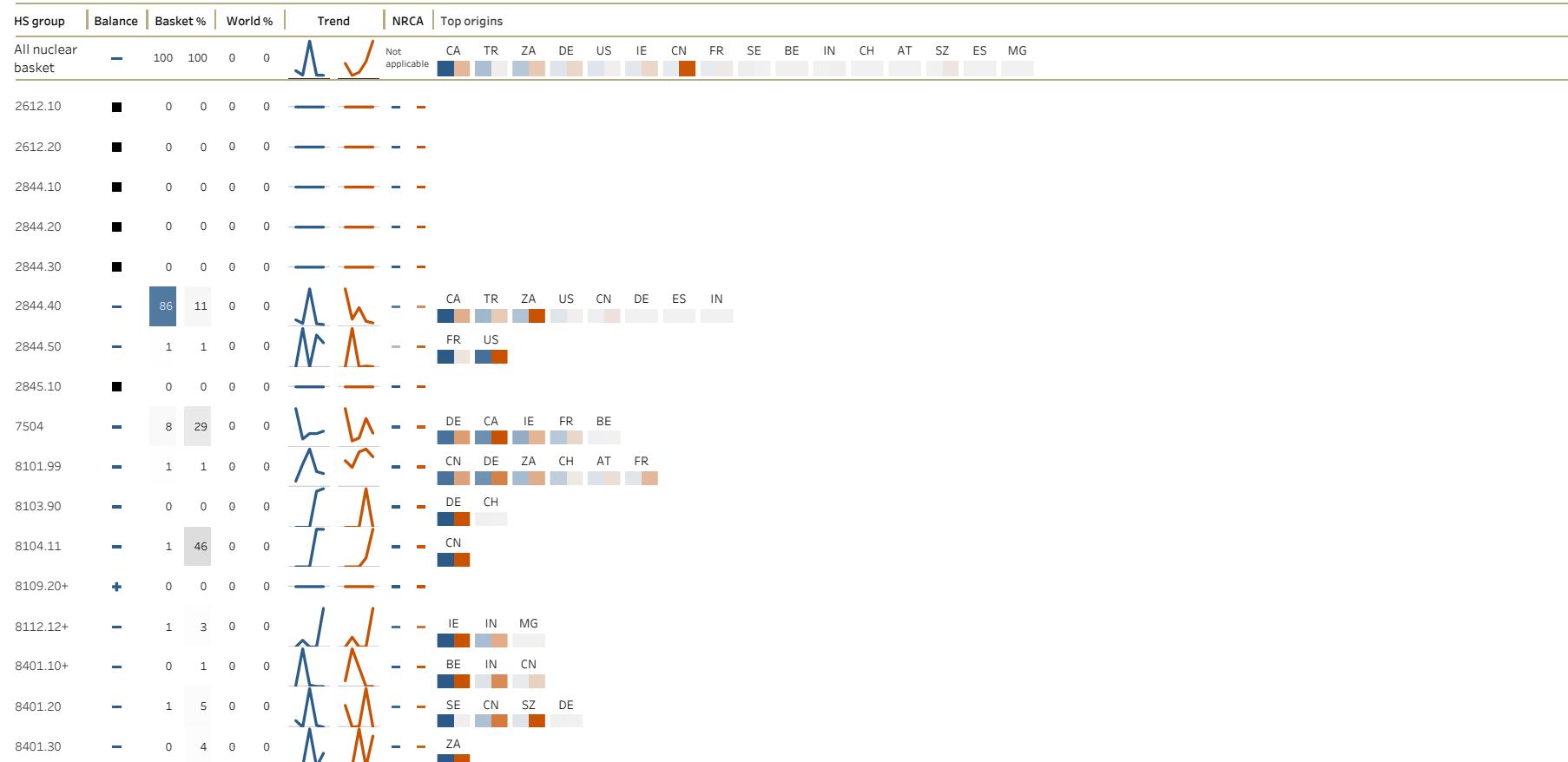


# Mauritius

## Import

Years 2016-2020 BACI records: 66

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.2 T

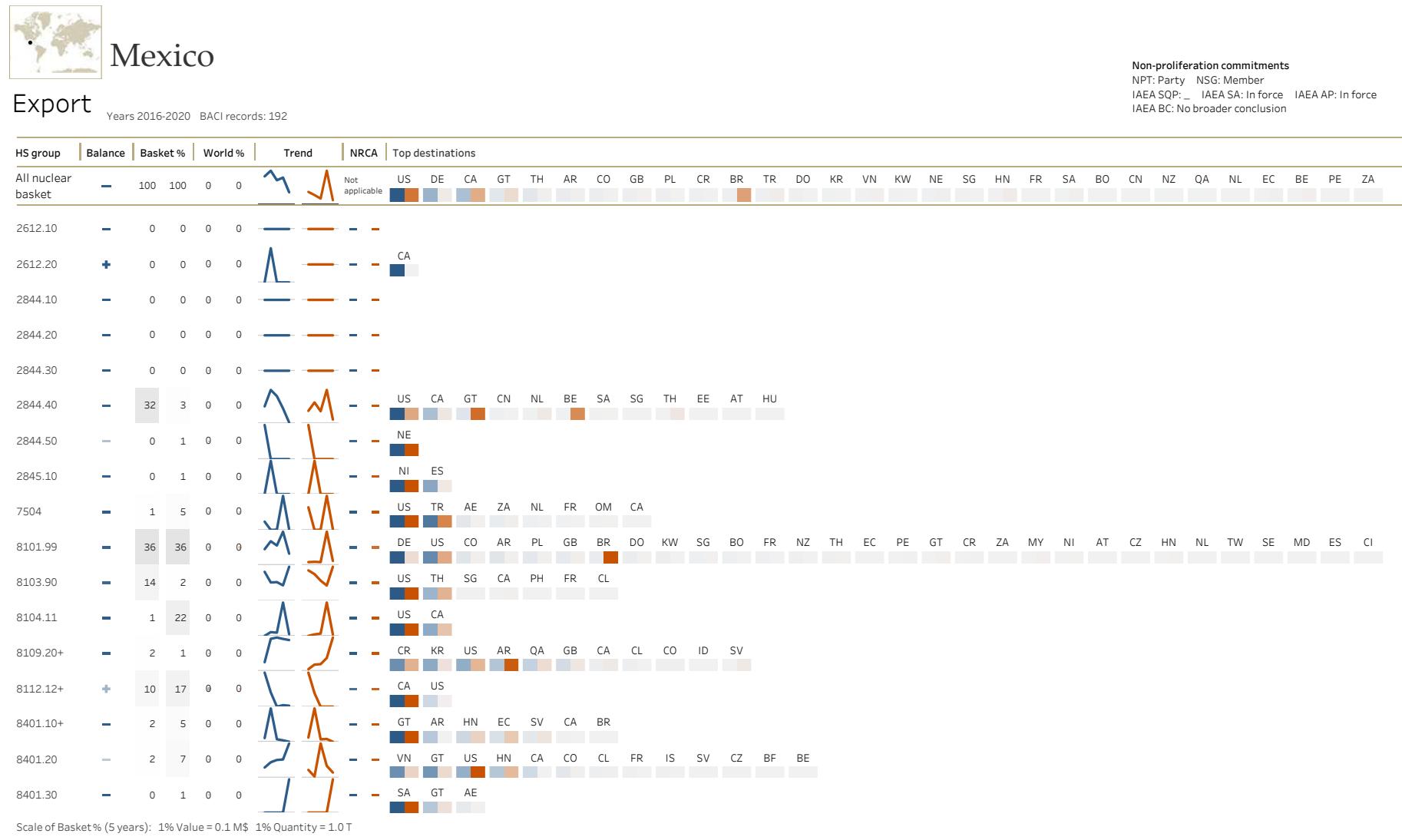


Figure 122: Mexico



## Mexico

## Import

Years 2016-2020 BACI records: 391

**Non-proliferation commitments**  
NPT: Party NSG: Member  
IAEA SQP: \_ IAEA SA: In force IAEA AP: In force  
IAEA BC: No broader conclusion

The figure displays a hierarchical breakdown of HS groups and their top origins. The categories are listed on the left, and each entry includes a numerical value, a color-coded bar chart, a trend indicator (blue line), and a legend for NRCA and top origins.

HS group	Balance	Basket %	World %	Trend	NRCA	Top origins
All nuclear basket	-	100	100	1 0	Not applicable	US CN CA BE FR JP DE NL GB IN KR IT PL AU TR AR HK IL AT CZ SE ZA HU BR ES CH RU RO FI TH
2612.10	-	0	0 0 0 0		GB	US CN
2612.20	+	0	0 0 0 0			
2844.10	-	0	0 0 0 0		US AR	US
2844.20	-	44	1 1 0 0		US IL	US
2844.30	-	0	0 0 0 0		US AR CZ	US AR CZ
2844.40	-	16	0 1 0 0		US CA BE NL GB DE FR PL CN IL SE HU AU CZ ZA RU RO BR TR FI ES TH IT SG CO ID AR	US CA BE NL GB DE FR PL CN IL SE HU AU CZ ZA RU RO BR TR FI ES TH IT SG CO ID AR
2844.50	-	0	0 0 0 0		US	US
2845.10	-	0	0 0 0 0		US NL	US NL
7504	-	5	10 0 0		US DE CA GB IT JP TR BE AU NL FR ZA AT ES IE PT BR CN	US DE CA GB IT JP TR BE AU NL FR ZA AT ES IE PT BR CN
8101.99	-	14	4 3 2		US CN FR JP IN KR DE IT AR HK AT CH CZ ES CA GB RU NL PT BR AE HU TH TW NO BE CO CR	US CN FR JP IN KR DE IT AR HK AT CH CZ ES CA GB RU NL PT BR AE HU TH TW NO BE CO CR
8103.90	-	3	0 1 0 0		US DE CN FR SE GB SV	US DE CN FR SE GB SV
8104.11	-	4	75 1 1		CN US NL IT PL ES IN	CN US NL IT PL ES IN
8109.20+	-	1	1 0 0 0		US DE BE CN JP BR CA KR IT TW CH	US DE BE CN JP BR CA KR IT TW CH
8112.12+	+	0	0 0 0 0		CN US DE IT CA FR KR	CN US DE IT CA FR KR
8401.10+	-	5	7 1 2		US FR ES CA	US FR ES CA
8401.20	-	0	1 0 0 0		US IN CA NL KR	US IN CA NL KR
8401.30	-	7	0 0 0 0		US CA	US CA

Scale of Basket % (5 years): 1% Value = 4.9 M\$ 1% Quantity = 110.8 T



## Mongolia

### Export

Years 2016-2020 BACI records: 4

NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion

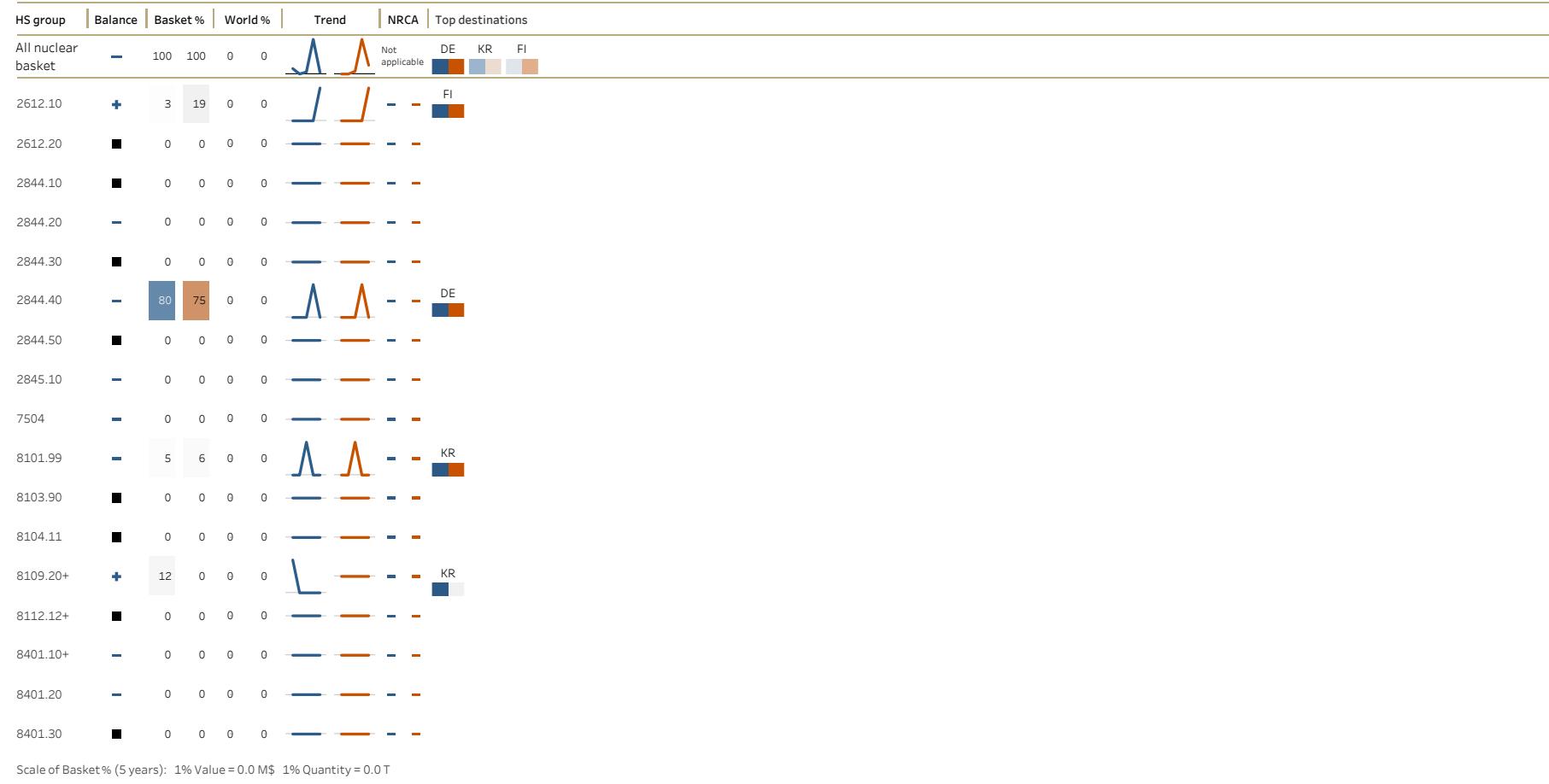


Figure 123: Mongolia

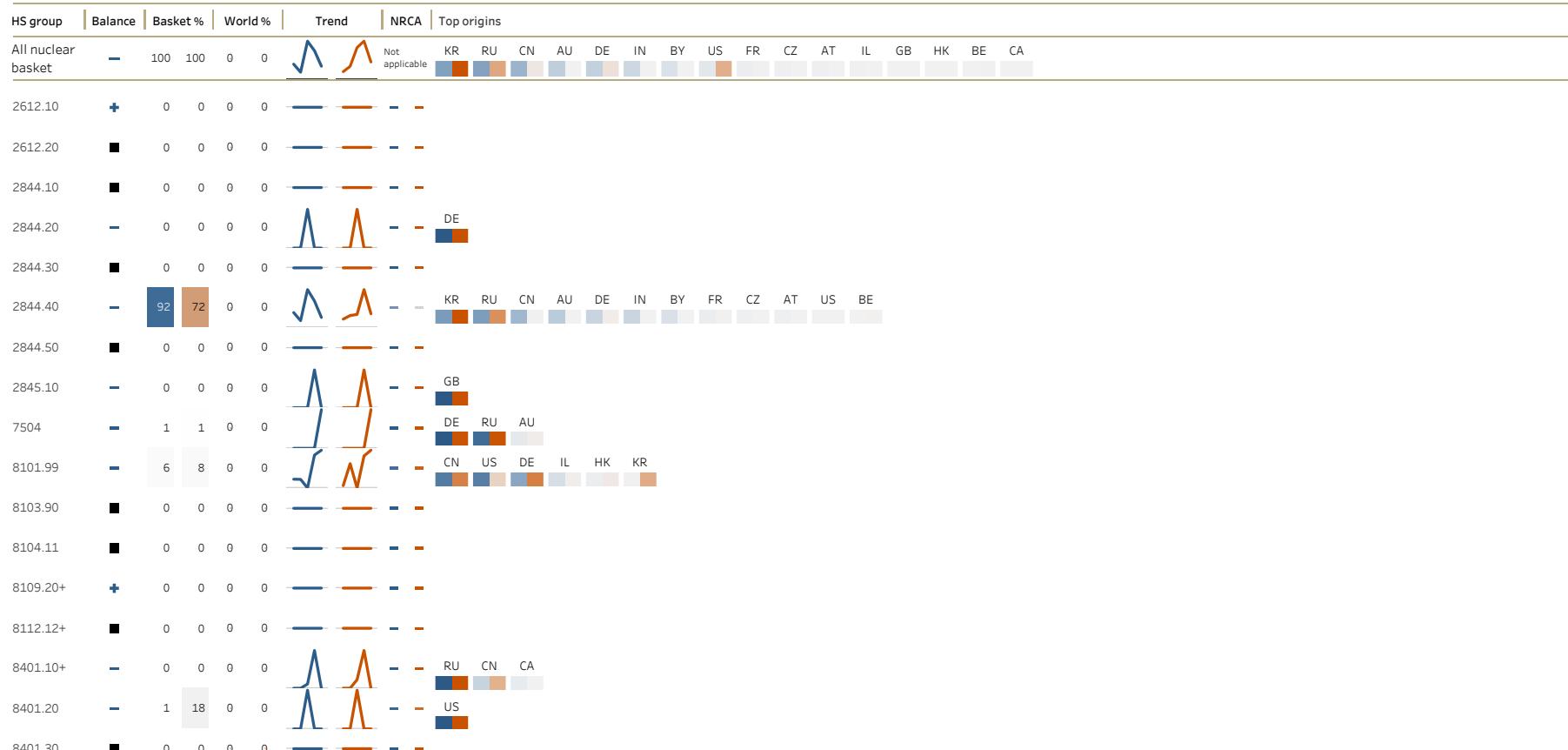


# Mongolia

## Import

Years 2016-2020 BACI records: 43

NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.1 T

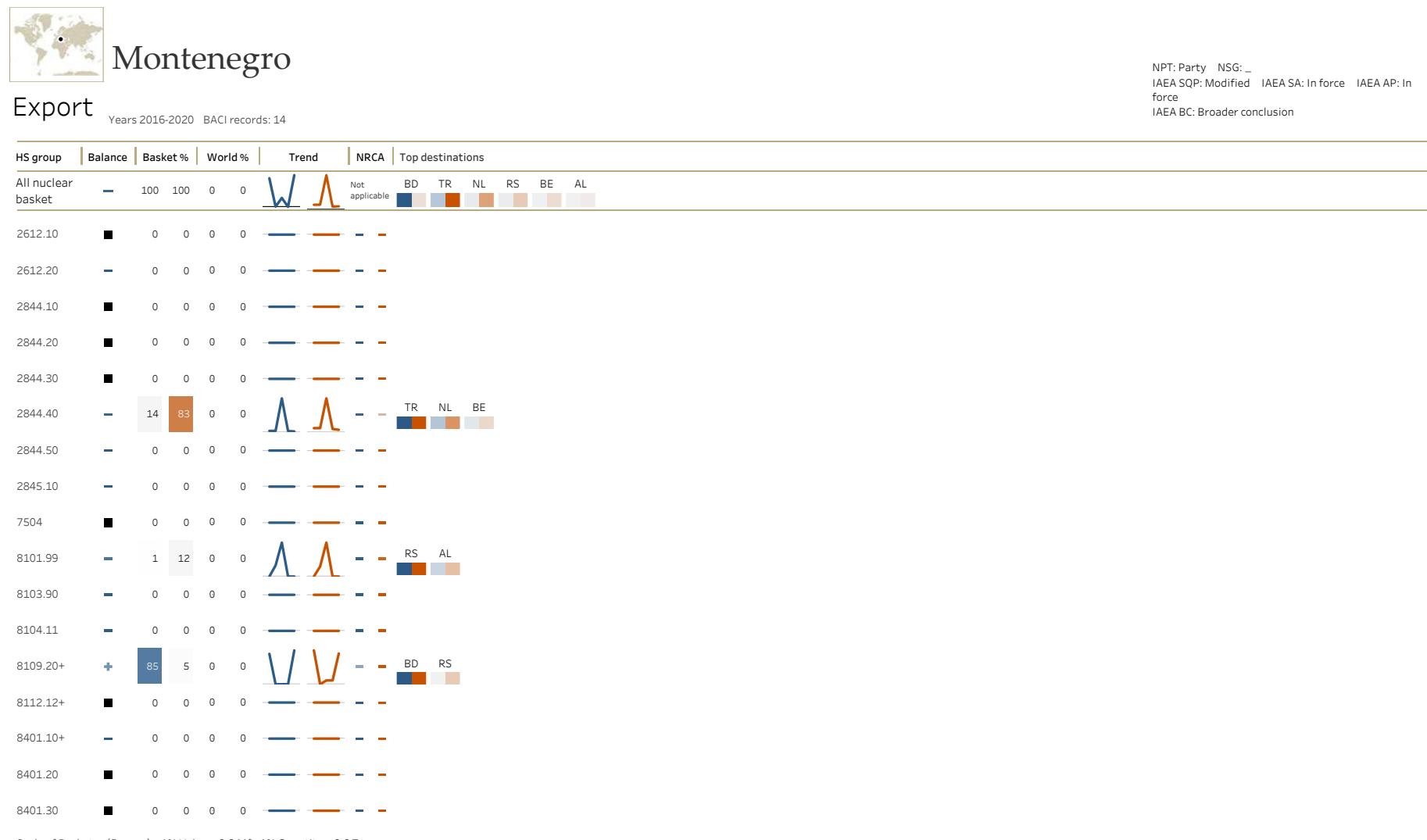


Figure 124: Montenegro

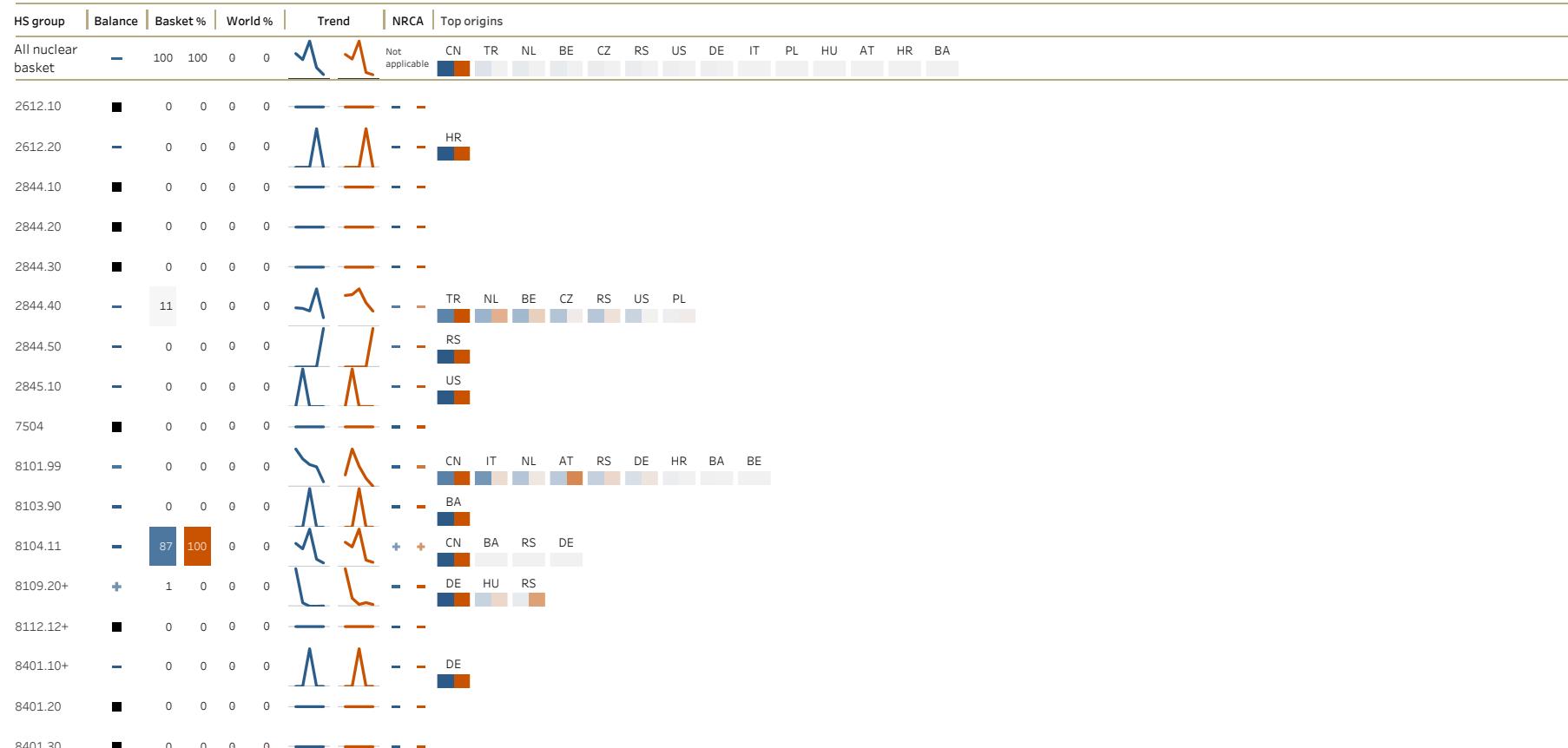


# Montenegro

## Import

Years 2016-2020 BACI records: 70

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 10.5 T



## Morocco

### Export

Years 2016-2020 BACI records: 42

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion

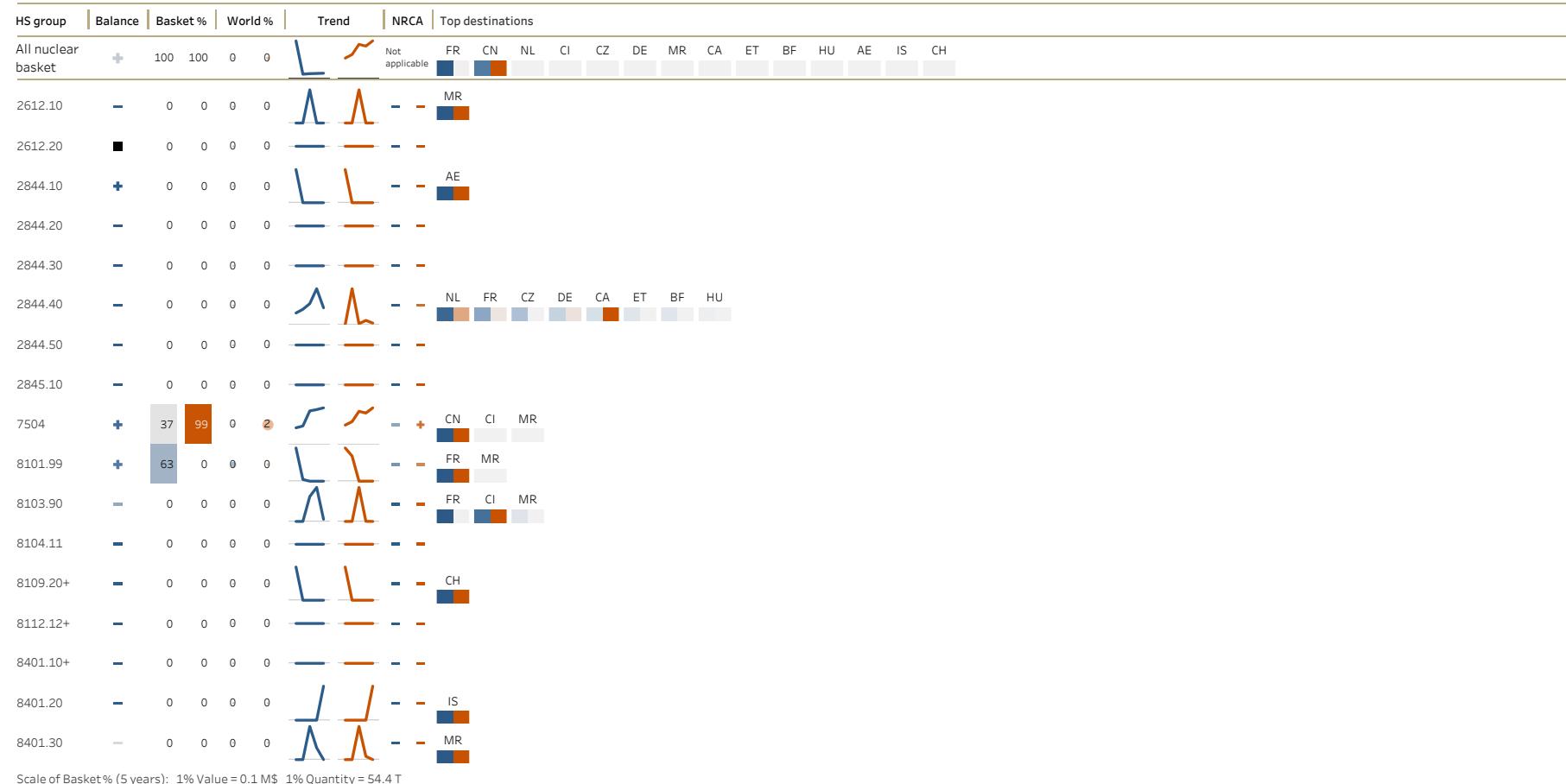


Figure 125: Morocco

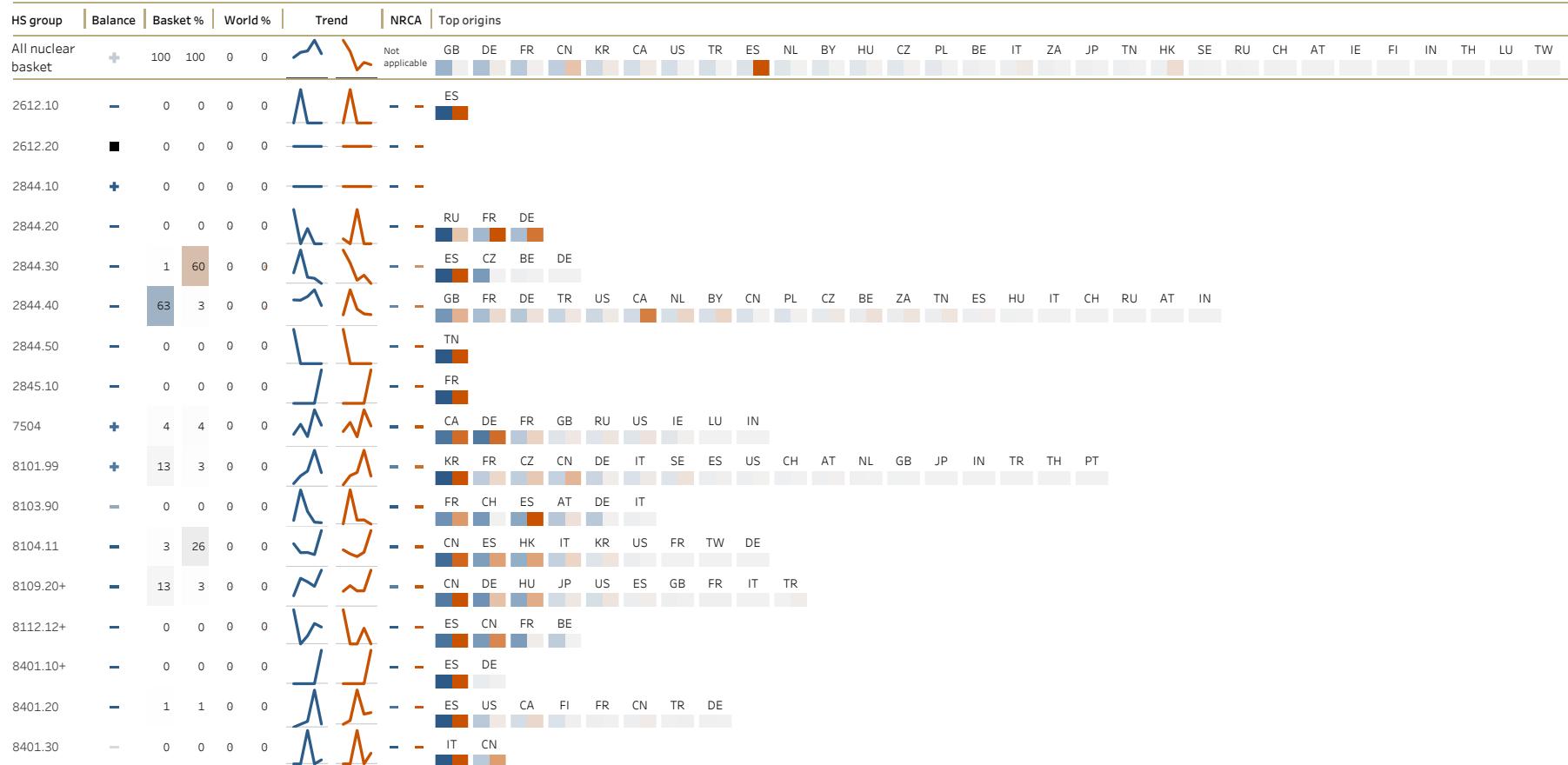


## Morocco

### Import

Years 2016-2020 BACI records: 264

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion





## Mozambique

### Export

Years 2016-2020 BACI records: 8

NPT: Party NSG: –  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
force  
IAEA BC: No broader conclusion

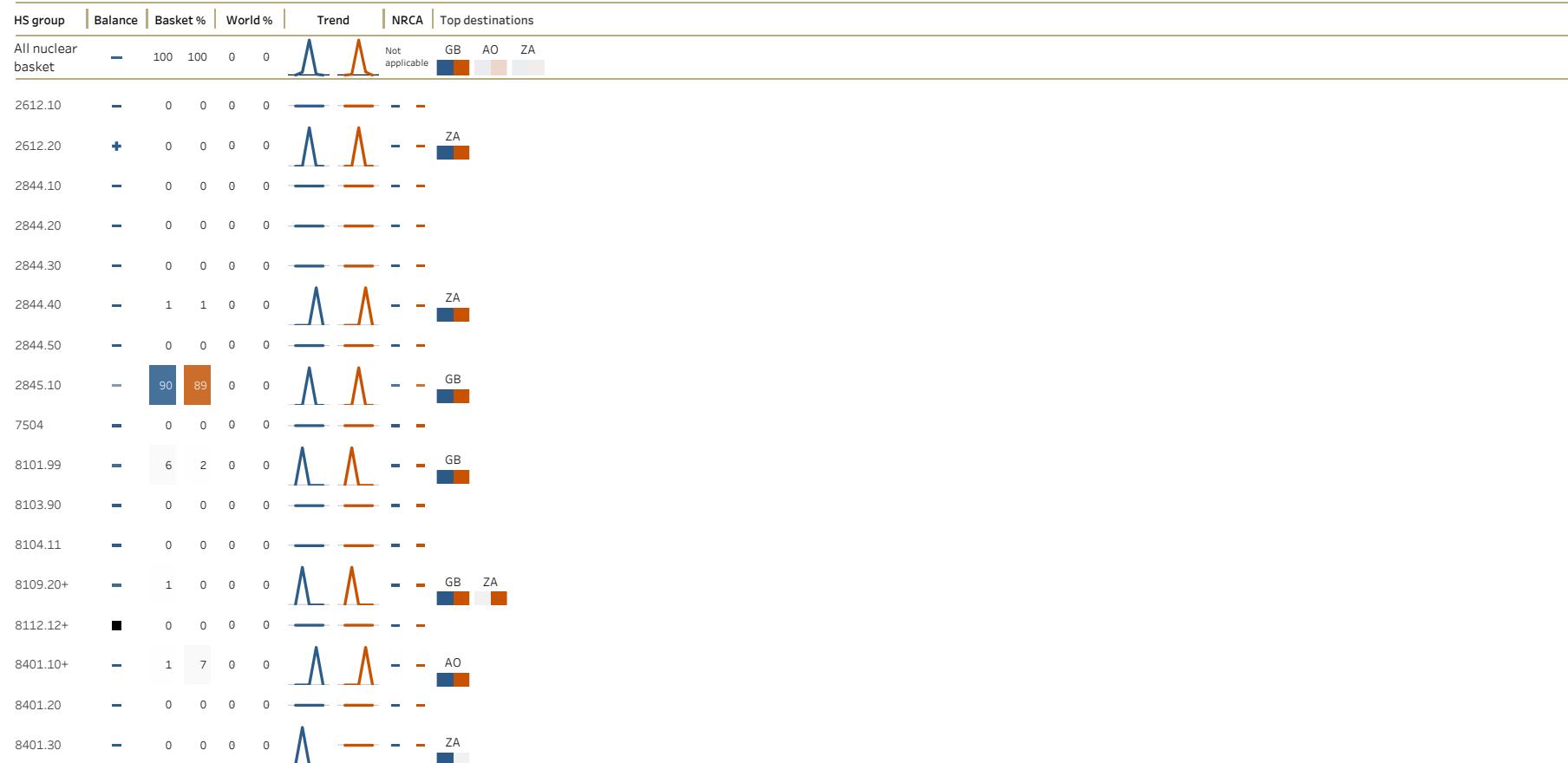


Figure 126: Mozambique

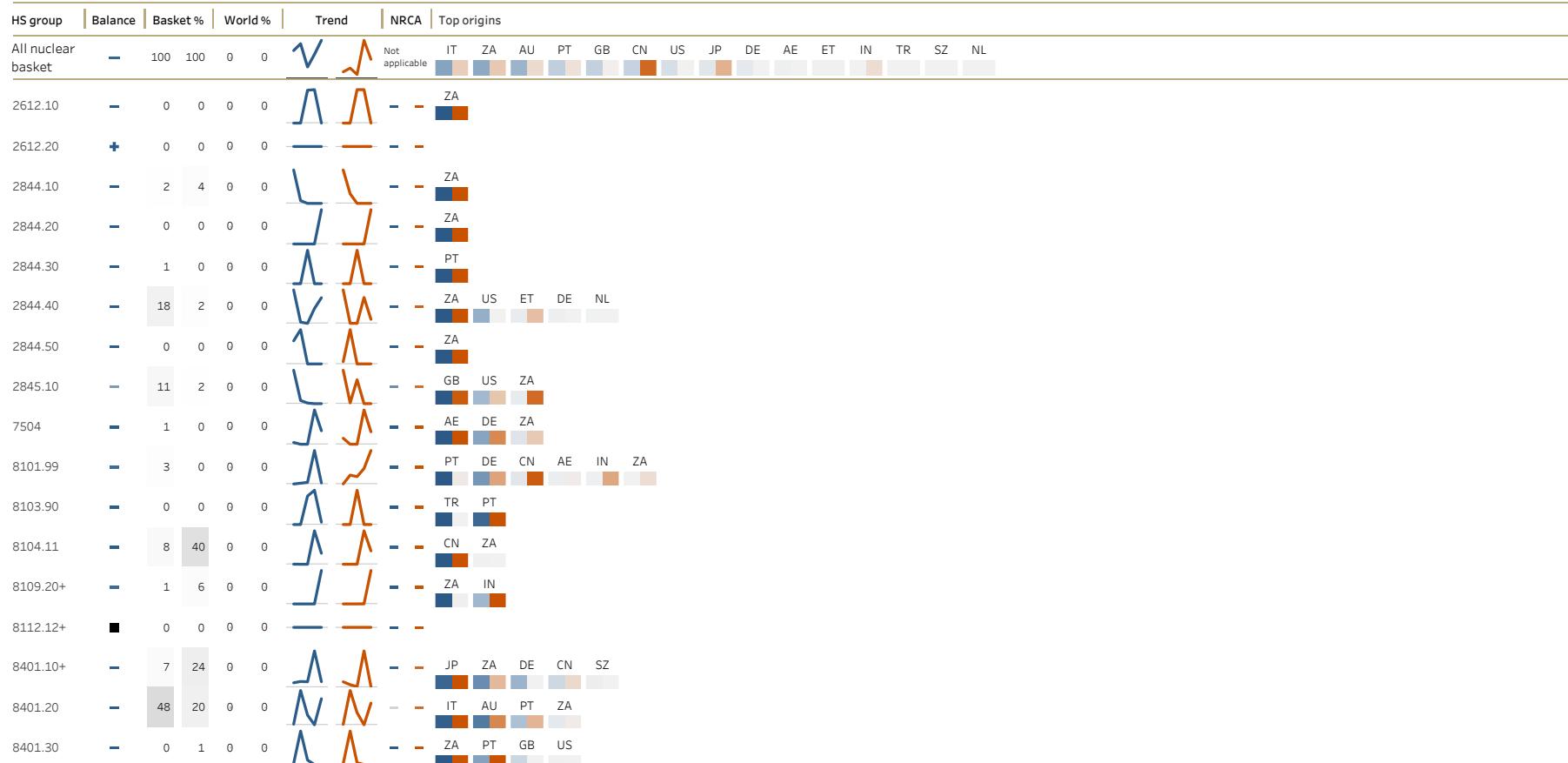


## Mozambique

### Import

Years 2016-2020 BACI records: 74

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.9 T



## Myanmar

### Export

Years 2016-2020 BACI records: 9

NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP:  
 Signed  
 IAEA BC: No broader conclusion

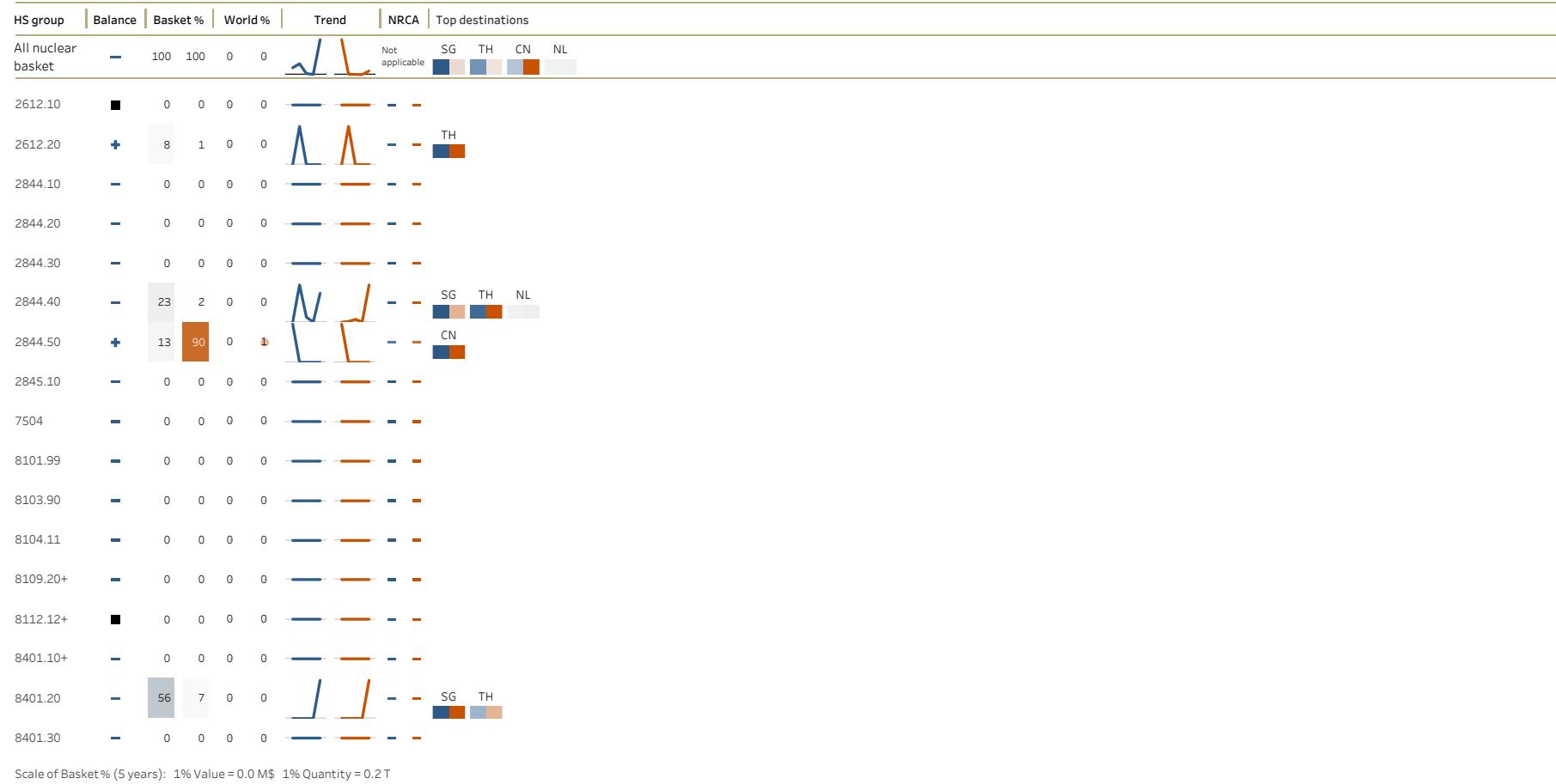


Figure 127: Myanmar

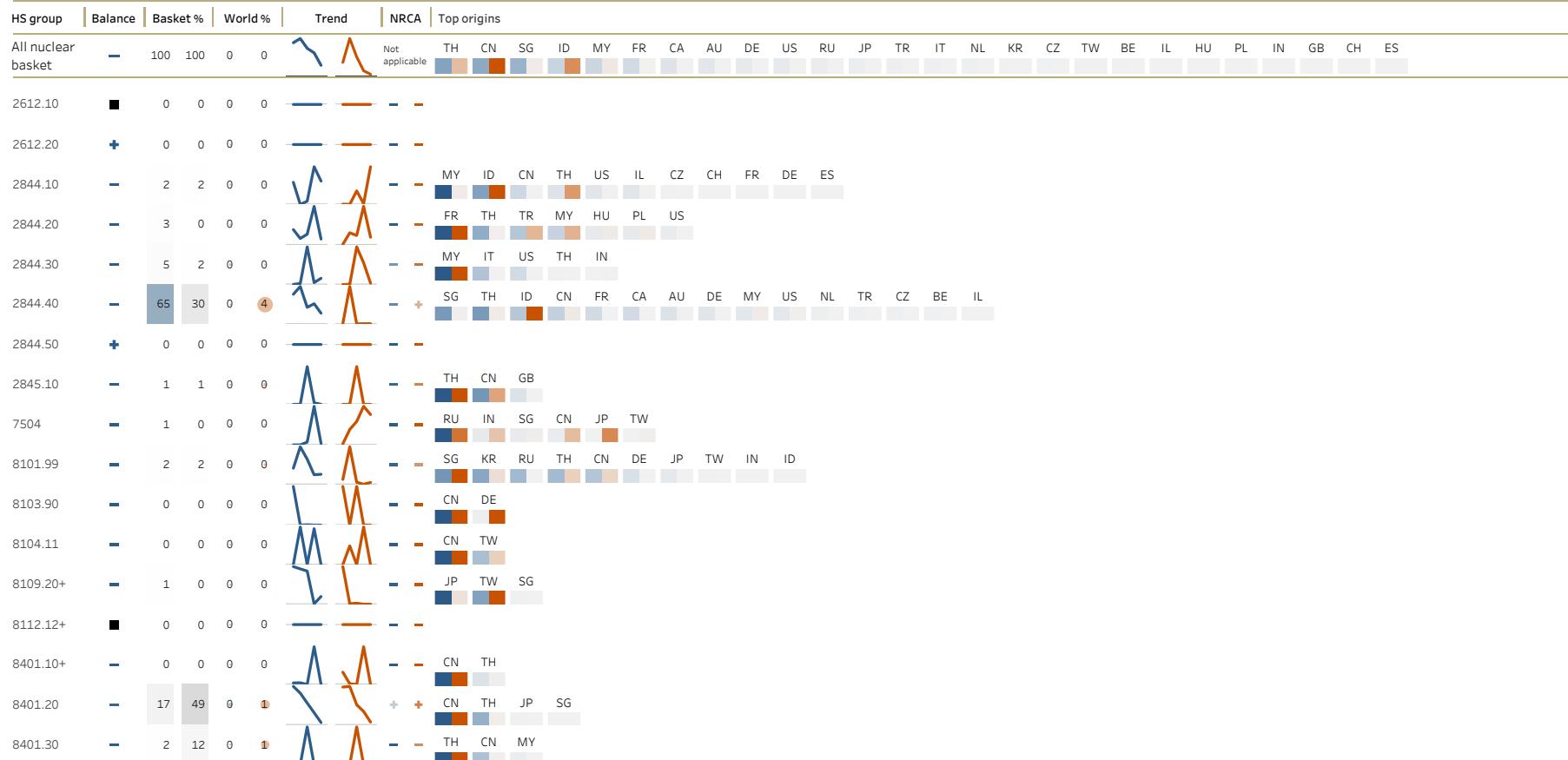


# Myanmar

## Import

Years 2016-2020 BACI records: 159

NPT: Party NSG: –  
IAEA SQP: Original IAEA SA: In force IAEA AP:  
Signed  
IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.1 M\$ 1% Quantity = 14.6 T



## Namibia

### Export

Years 2016-2020 BACI records: 98

NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion

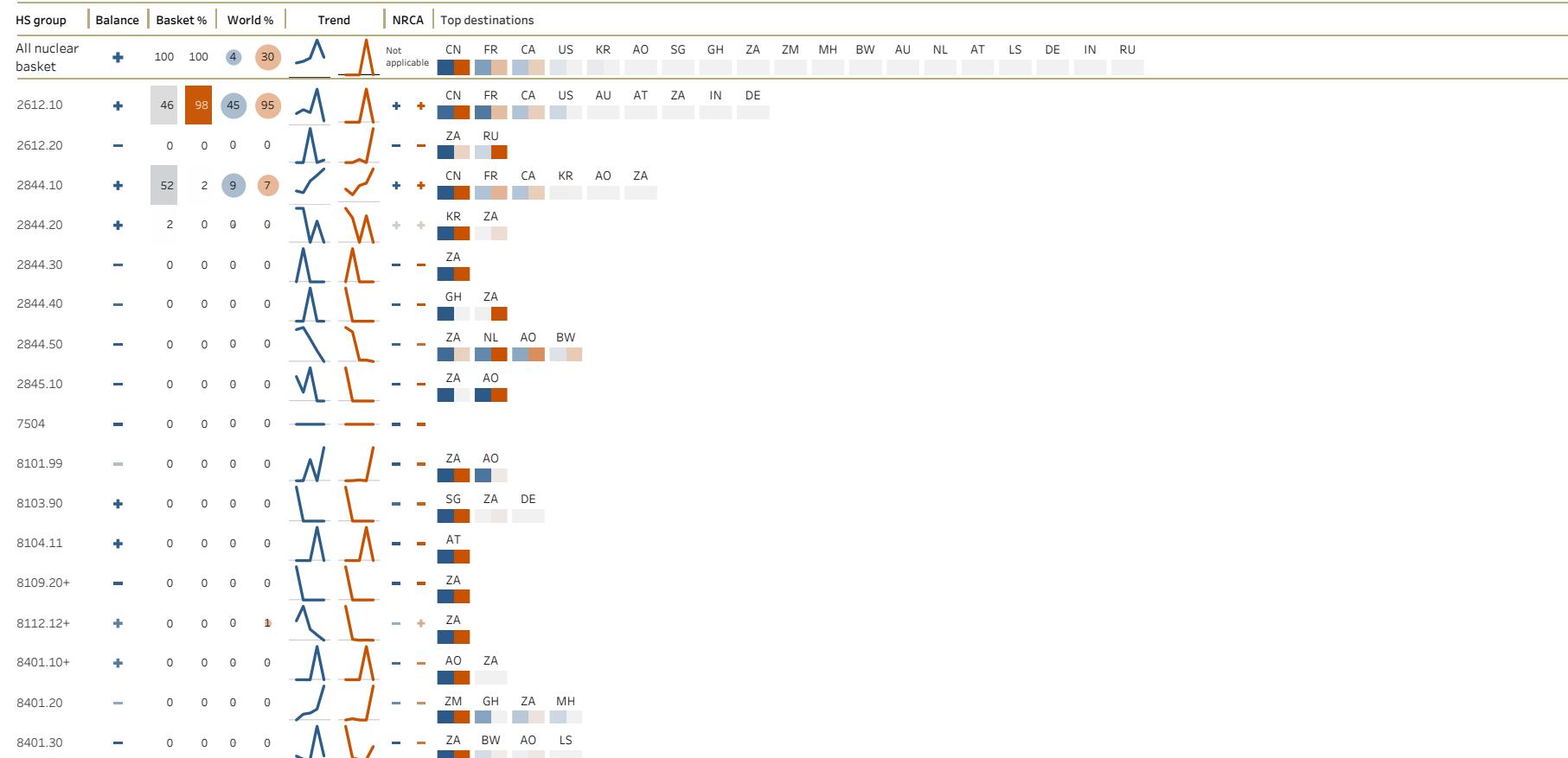


Figure 128: Namibia

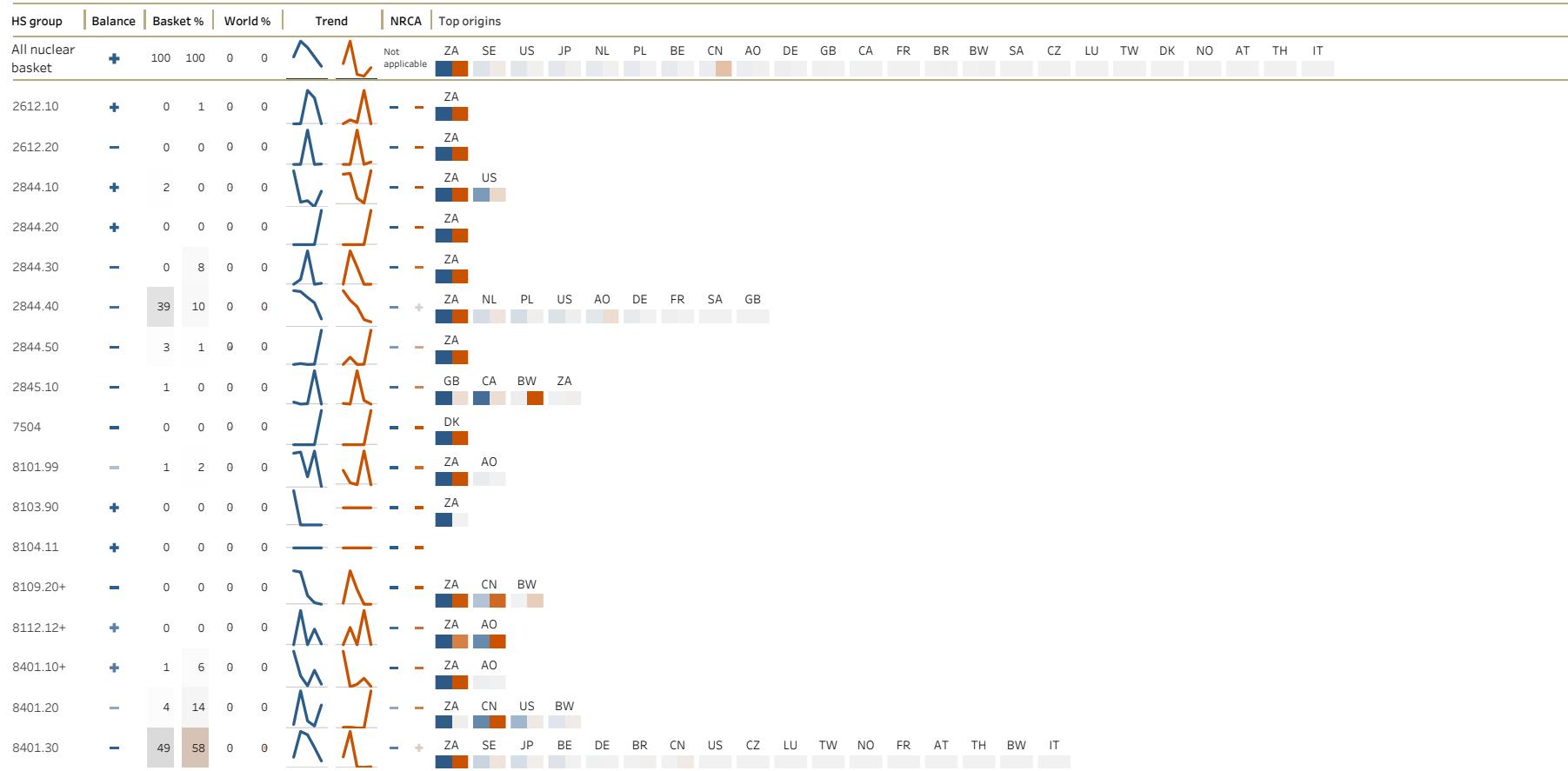


# Namibia

## Import

Years 2016-2020 BACI records: 123

NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.8 T



## Nepal

### Export

Years 2016-2020 BACI records: 14

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion

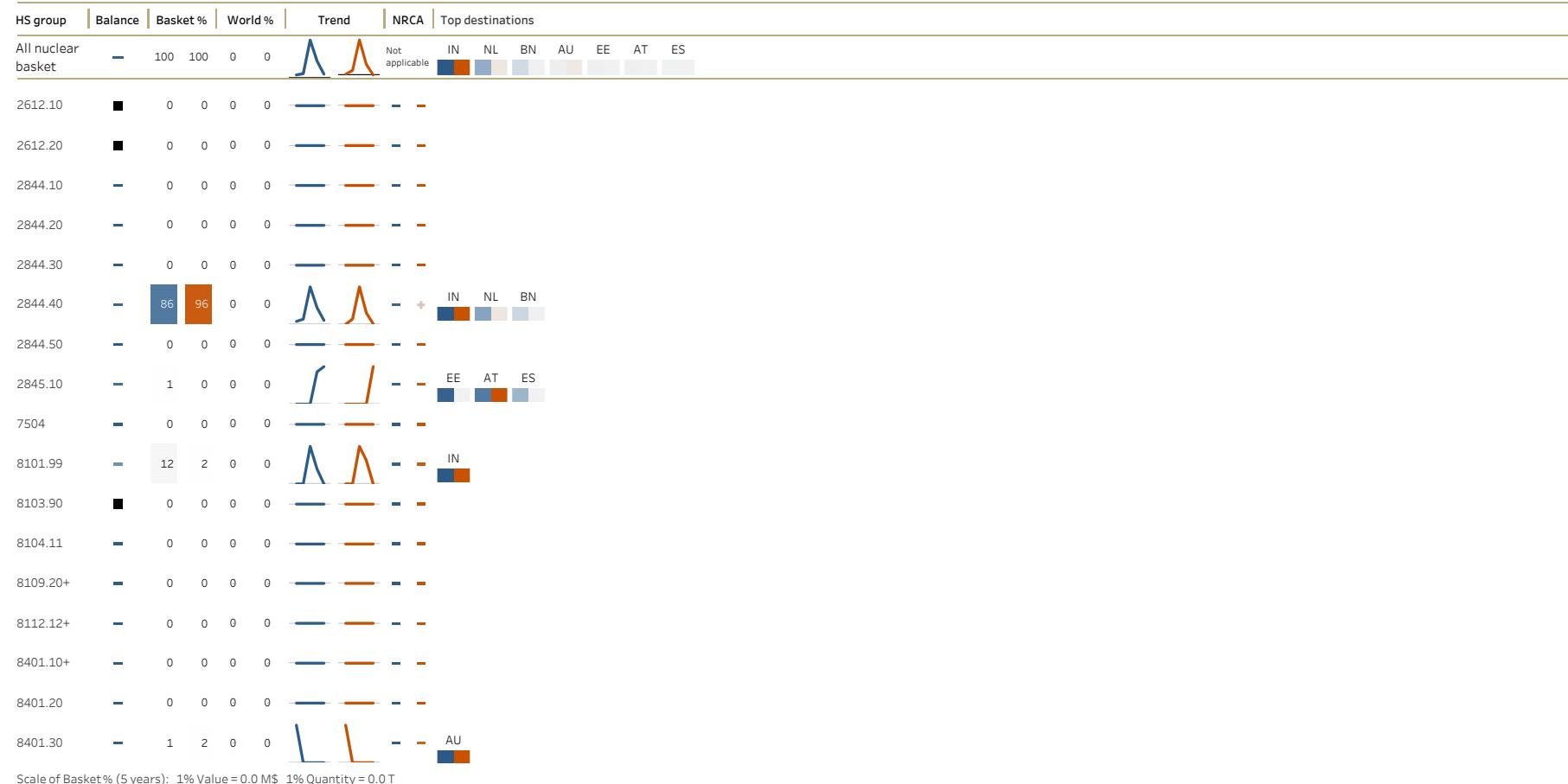


Figure 129: Nepal

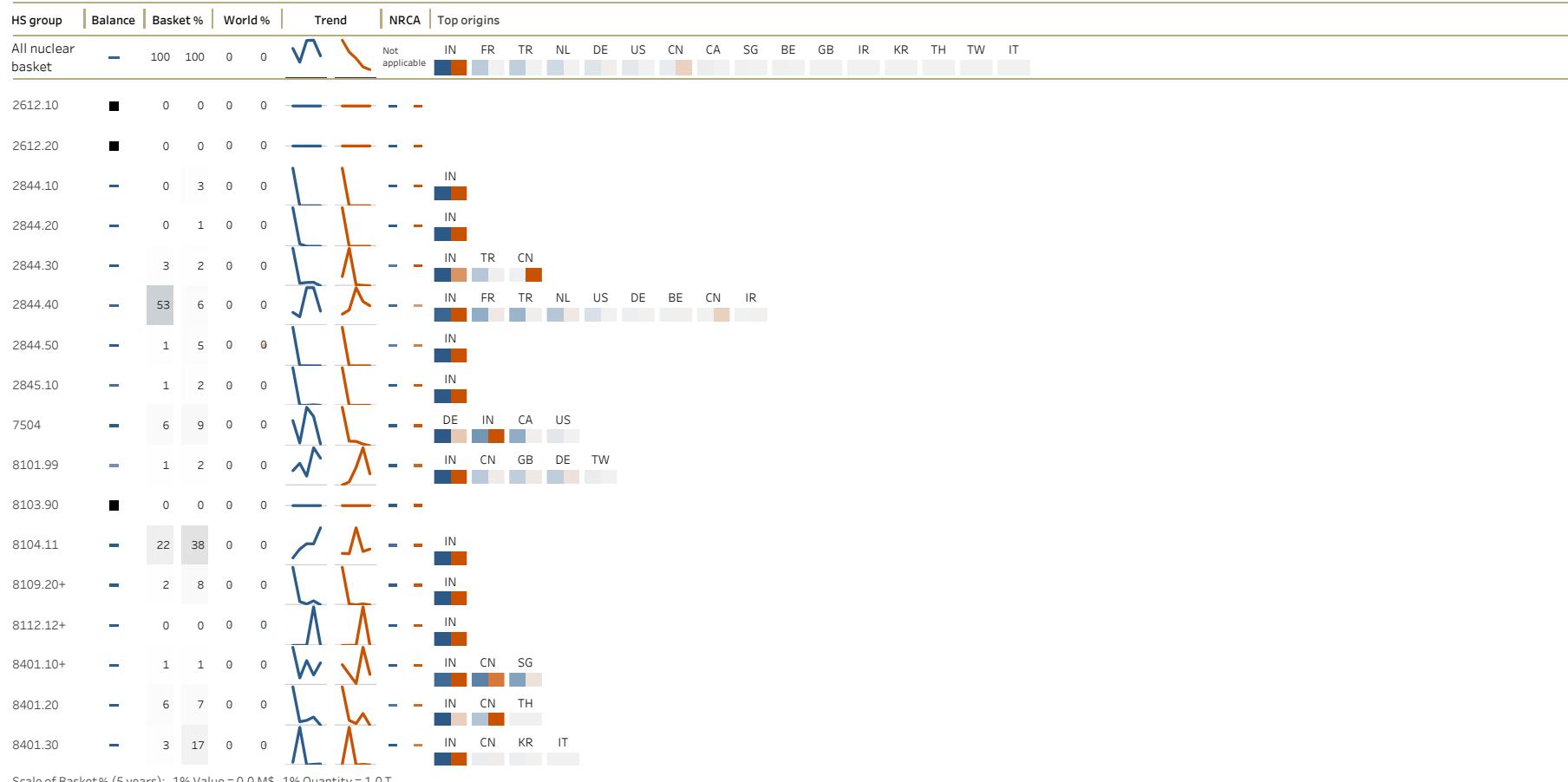


# Nepal

## Import

Years 2016-2020 BACI records: 113

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: Original IAEA SA: In force IAEA AP: —  
 IAEA BC: No broader conclusion



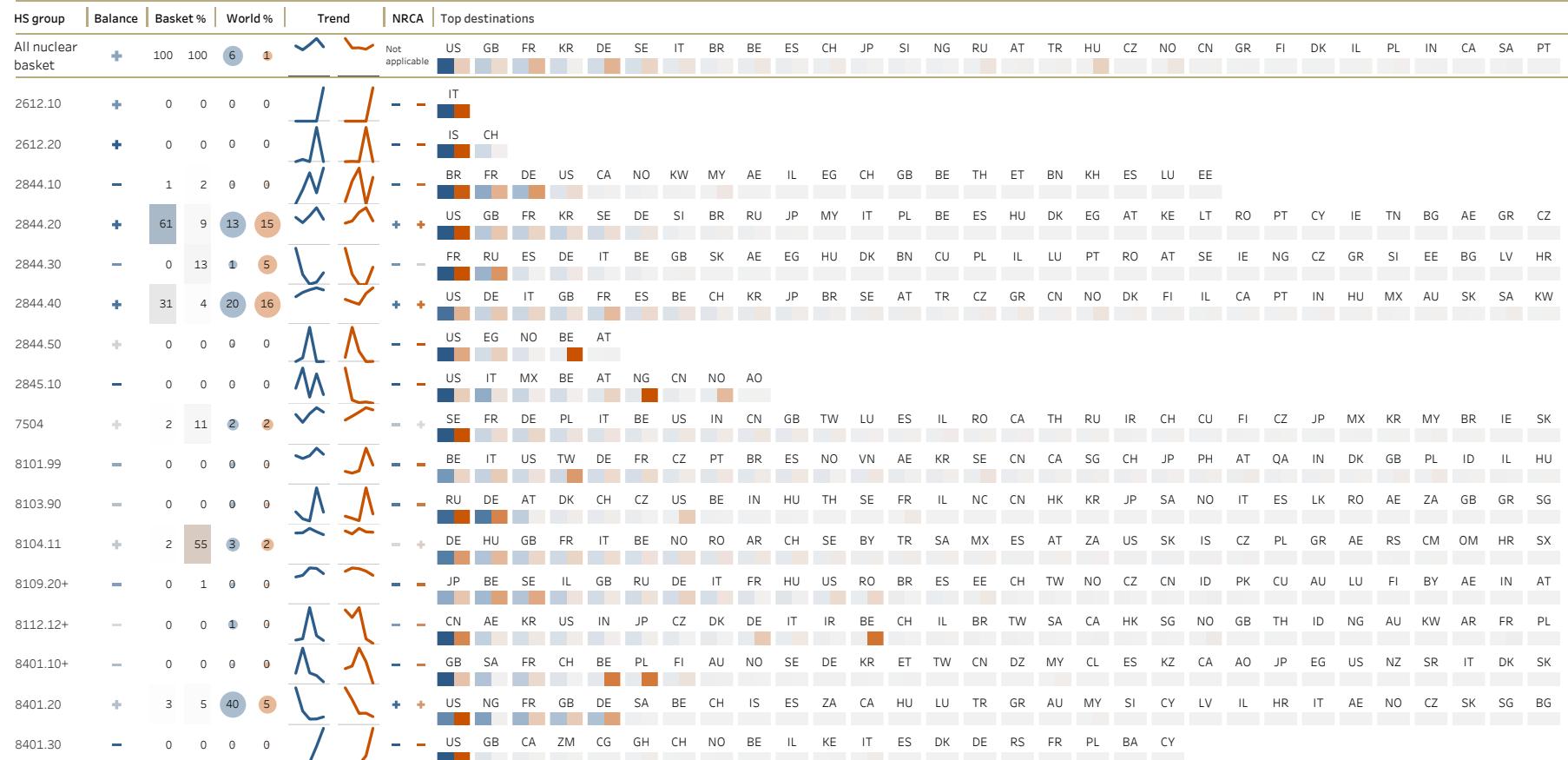


## Netherlands

### Export

Years 2016-2020 BACI records: 2,145

NPT: Party NSG: Member  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
force  
IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 55.1 M\$ 1% Quantity = 511.1 T

Figure 130: Netherlands

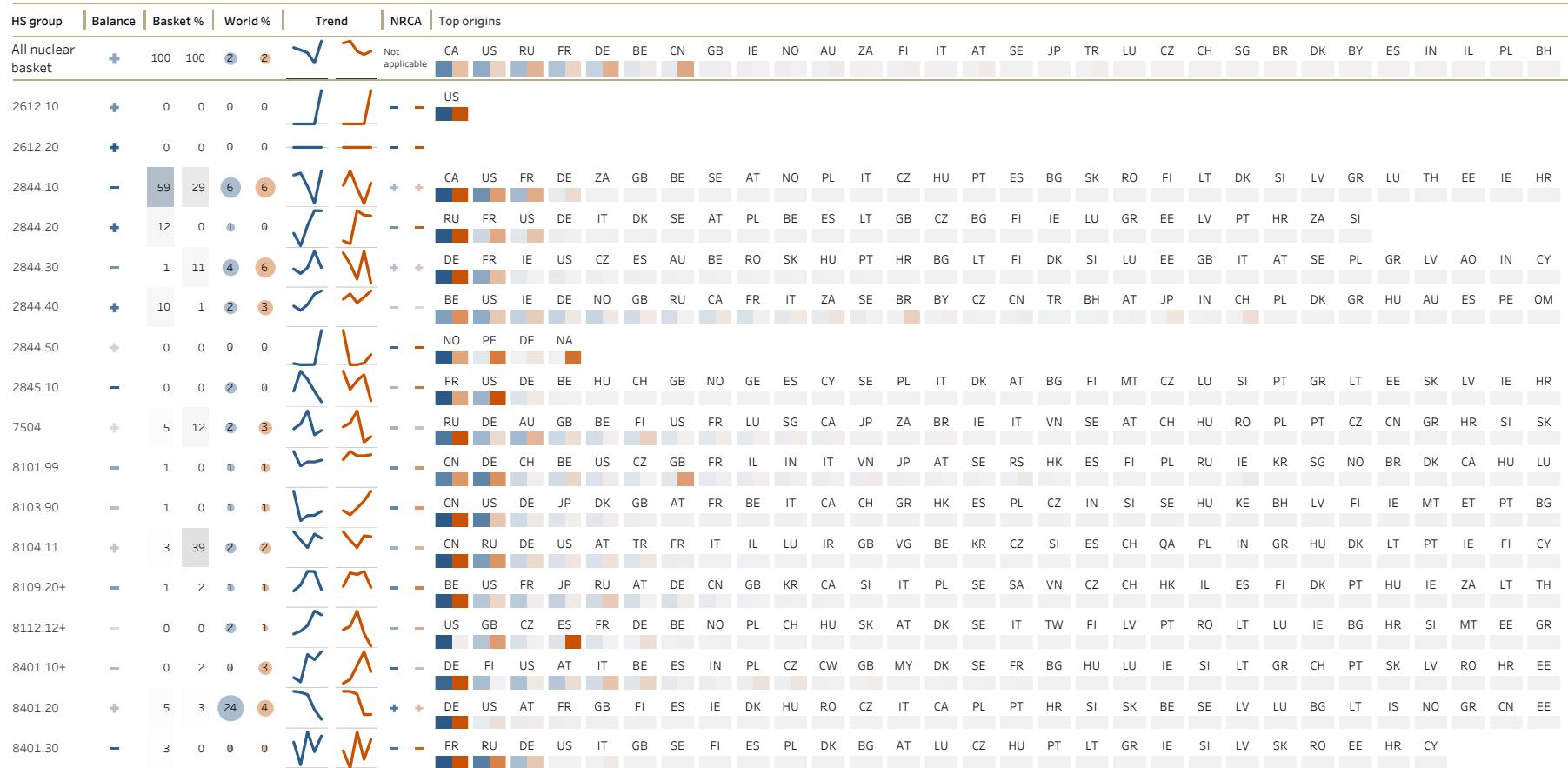


# Netherlands

## Import

Years 2016-2020 BACI records: 2,253

NPT: Party NSG: Member  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
force  
IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 21.8 M\$ 1% Quantity = 653.1 T



## New Zealand

### Export

Years 2016-2020 BACI records: 73

NPT: Party NSG: Member  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
force  
IAEA BC: Broader conclusion

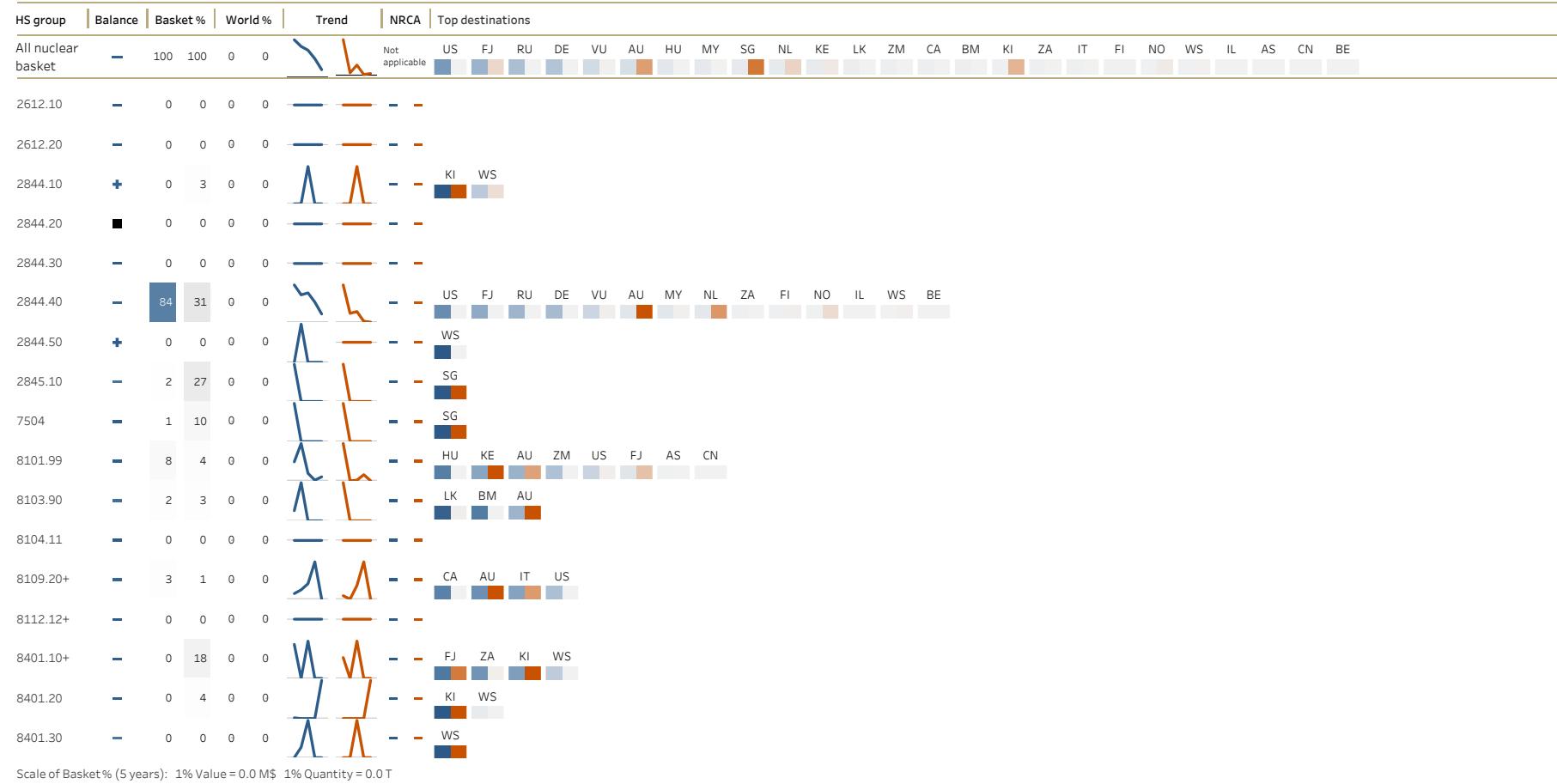


Figure 131: New Zealand

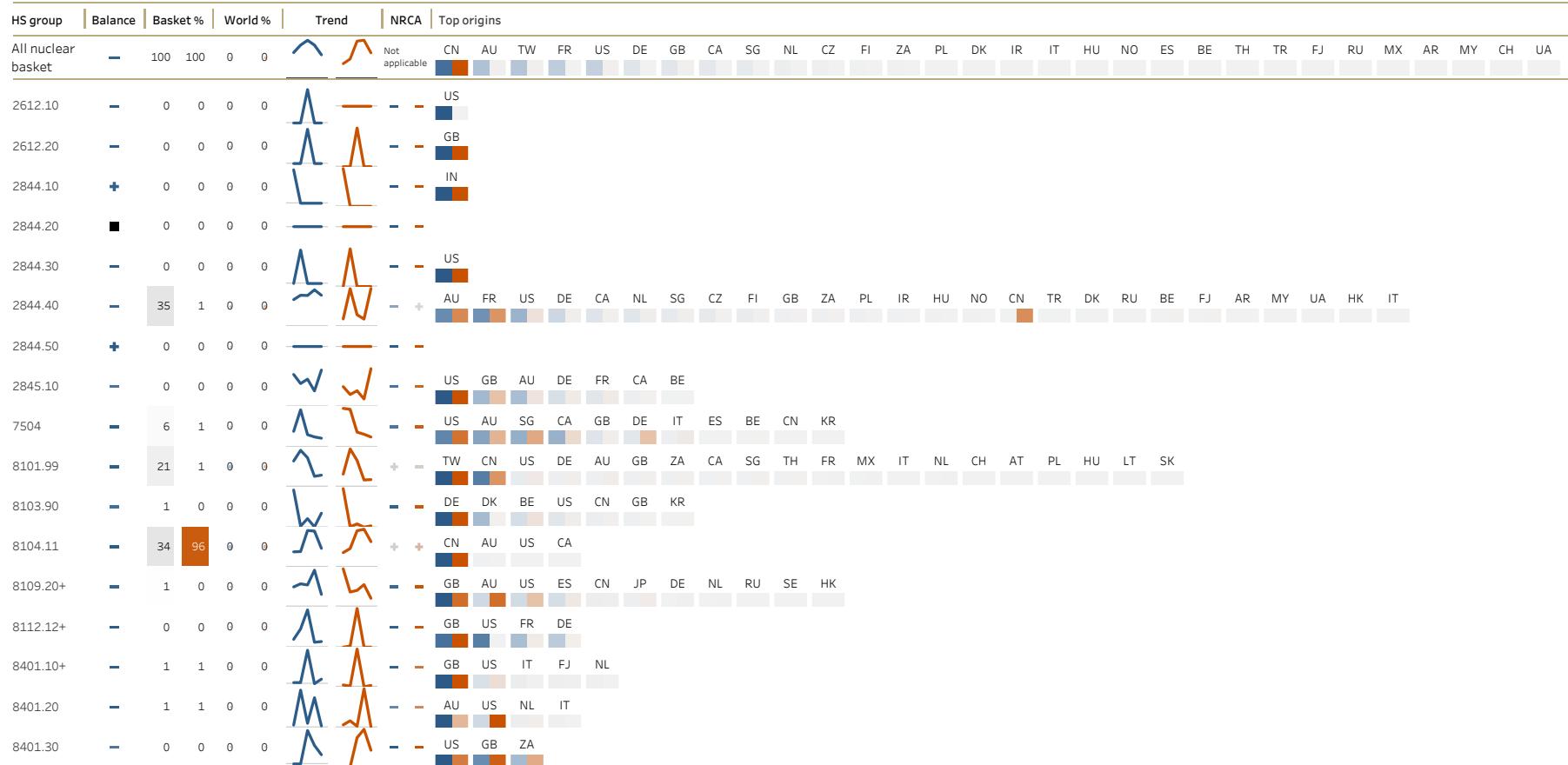


## New Zealand

### Import

Years 2016-2020 BACI records: 292

NPT: Party NSG: Member  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In force  
IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.3 M\$ 1% Quantity = 35.6 T

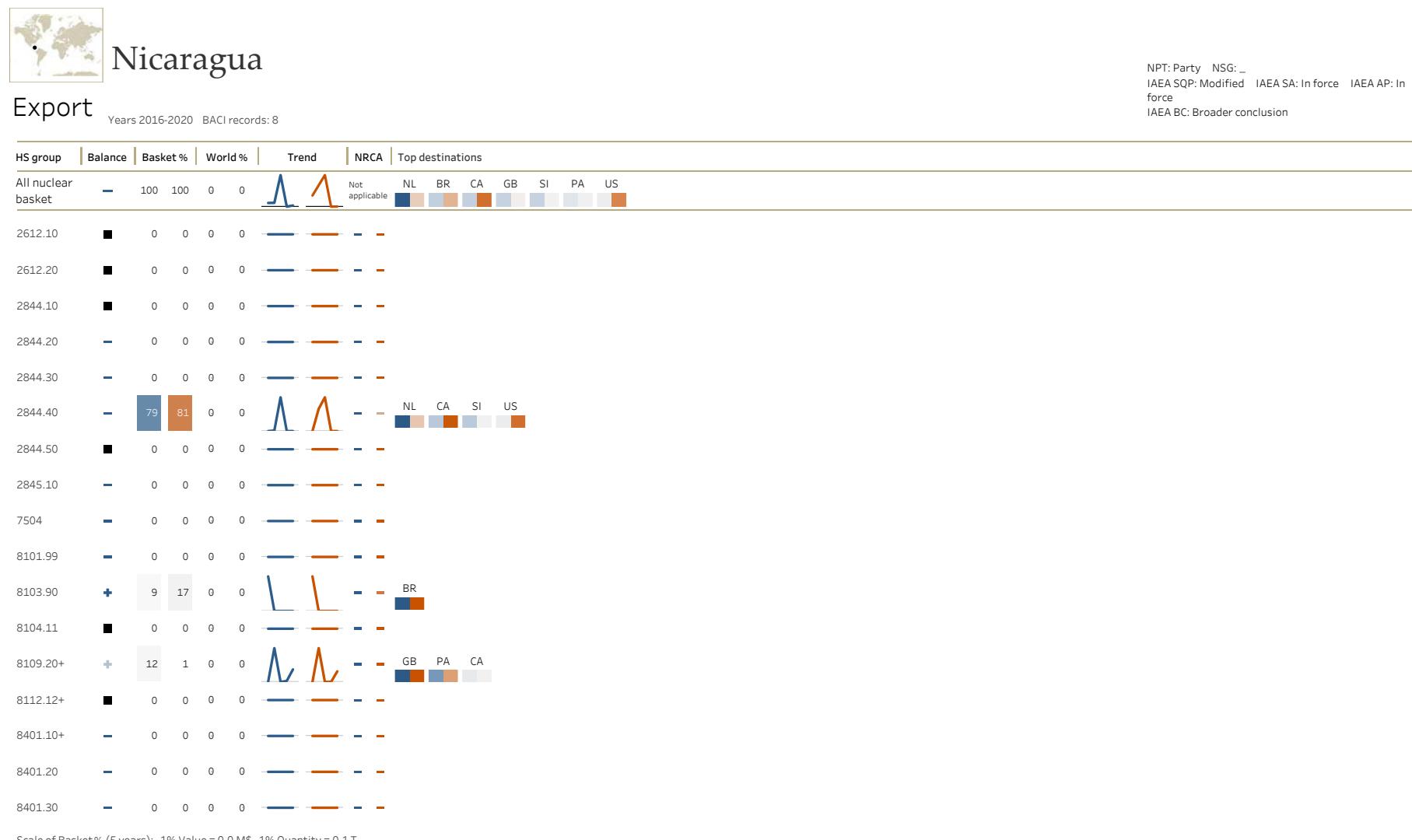


Figure 132: Nicaragua

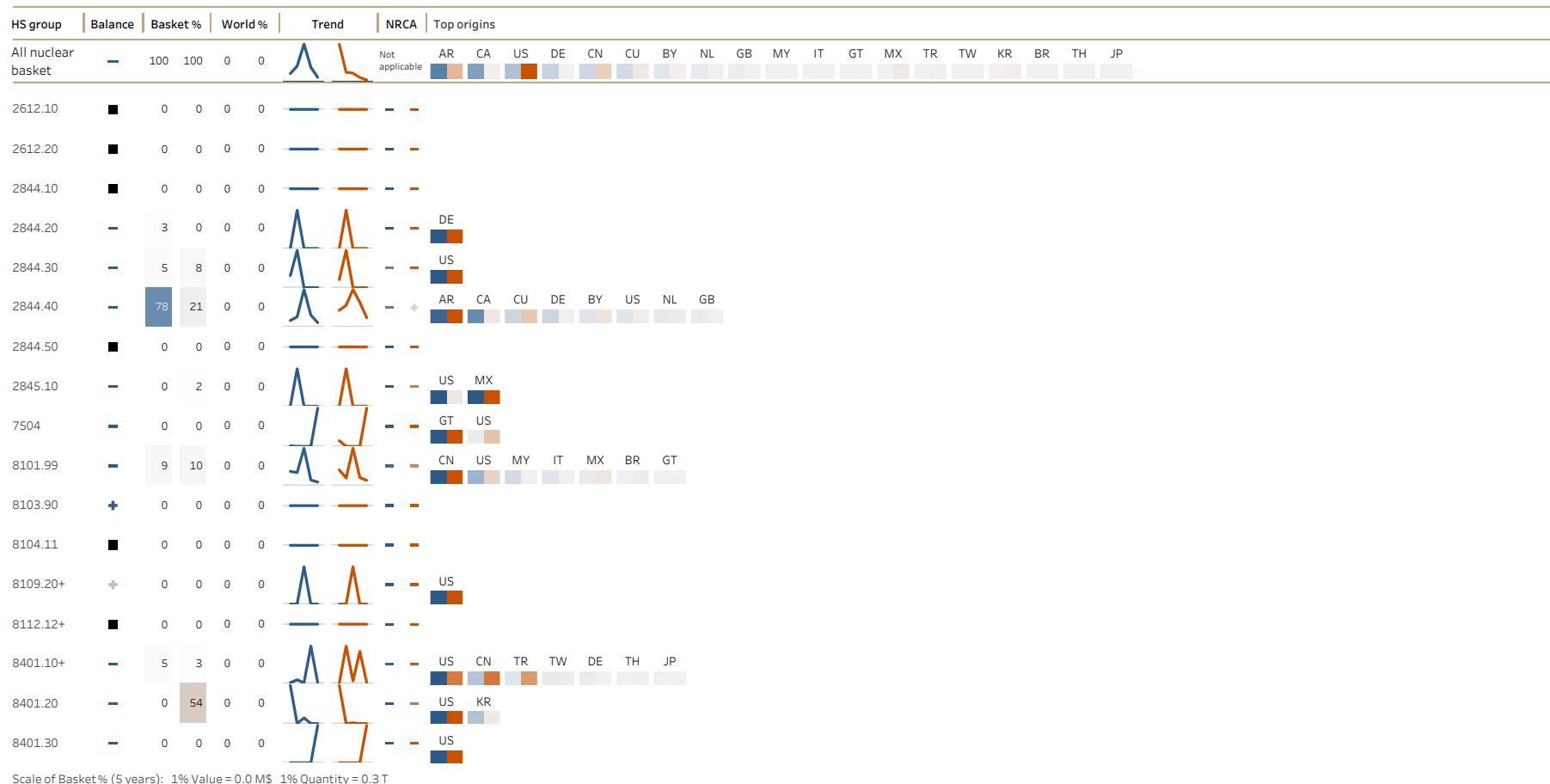


# Nicaragua

## Import

Years 2016-2020 BACI records: 57

NPT: Party NSG: \_\_\_\_\_  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
force  
IAEA BC: Broader conclusion





# Niger

## Export

Years 2016-2020 BACI records: 35

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion

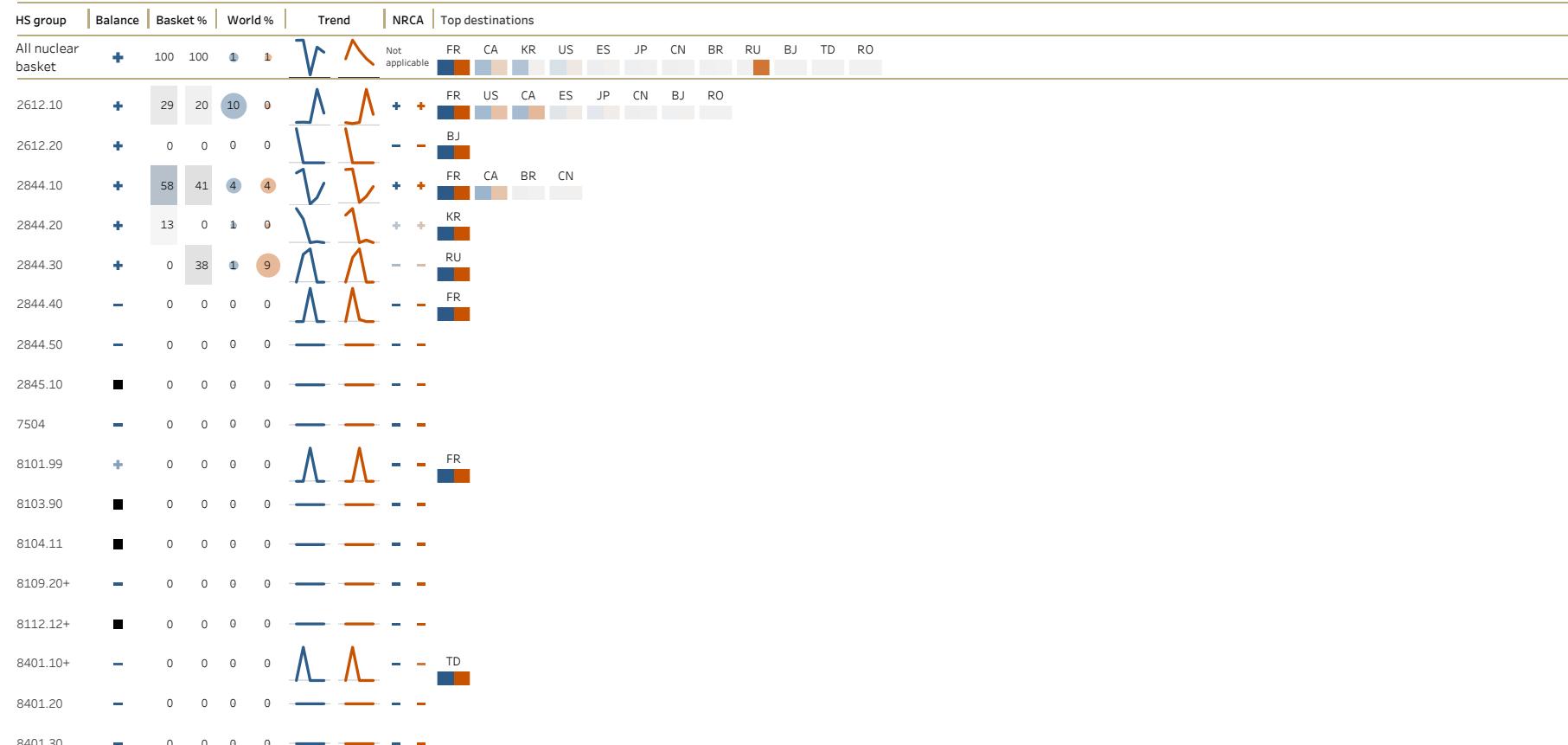


Figure 133: Niger

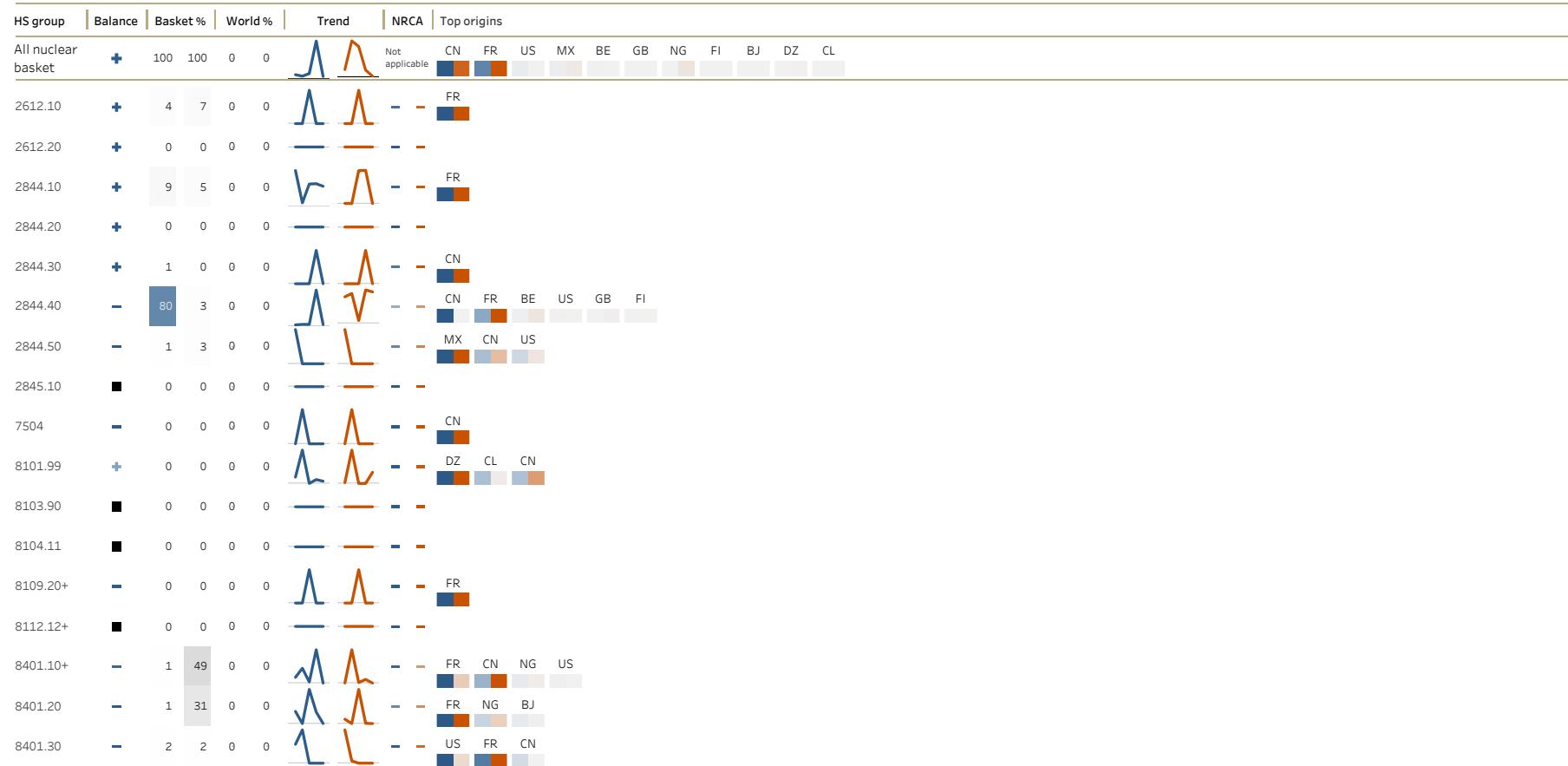


# Niger

## Import

Years 2016-2020 BACI records: 43

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.2 T



## Nigeria

### Export

Years 2016-2020 BACI records: 34

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

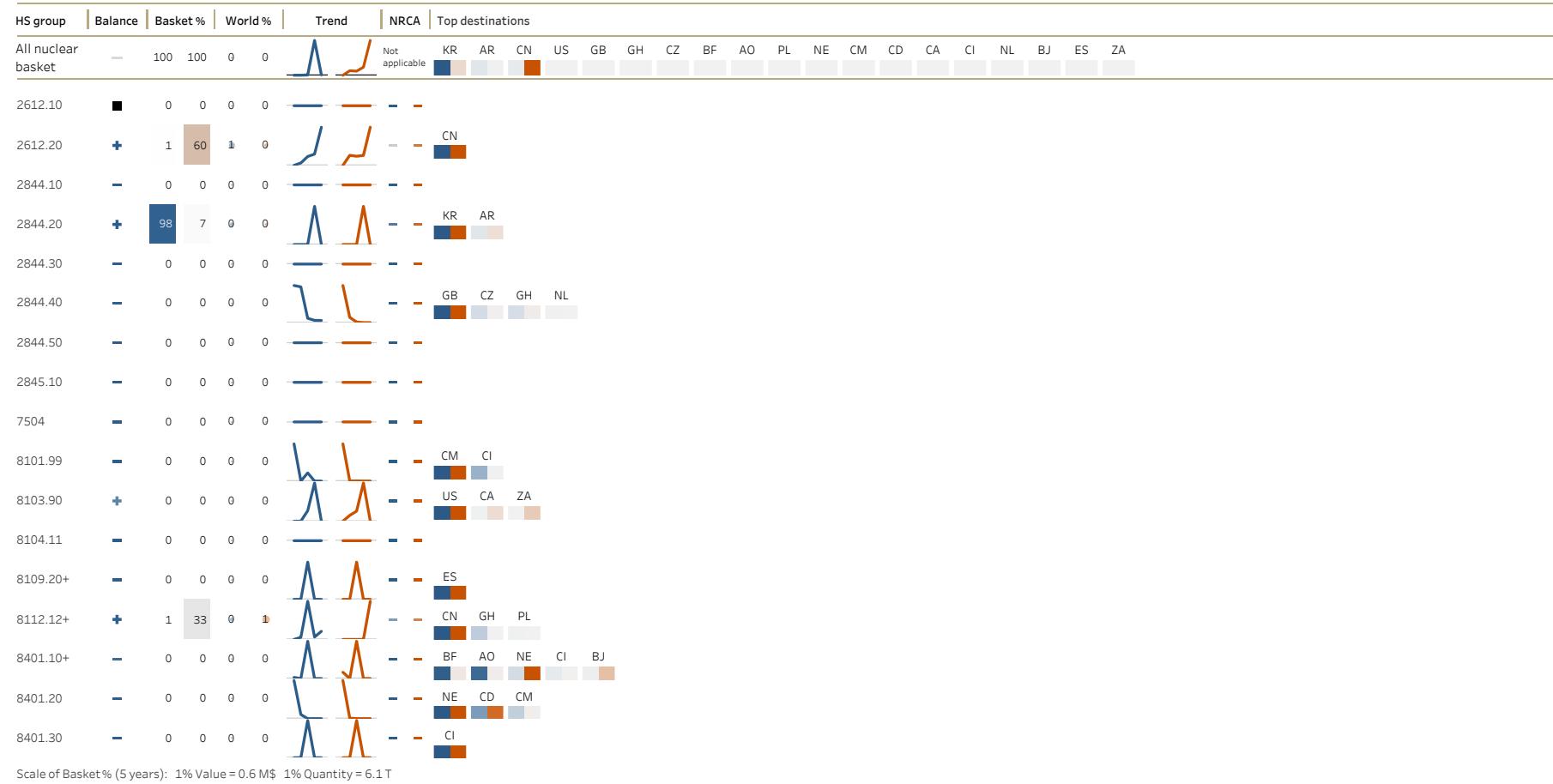


Figure 134: Nigeria

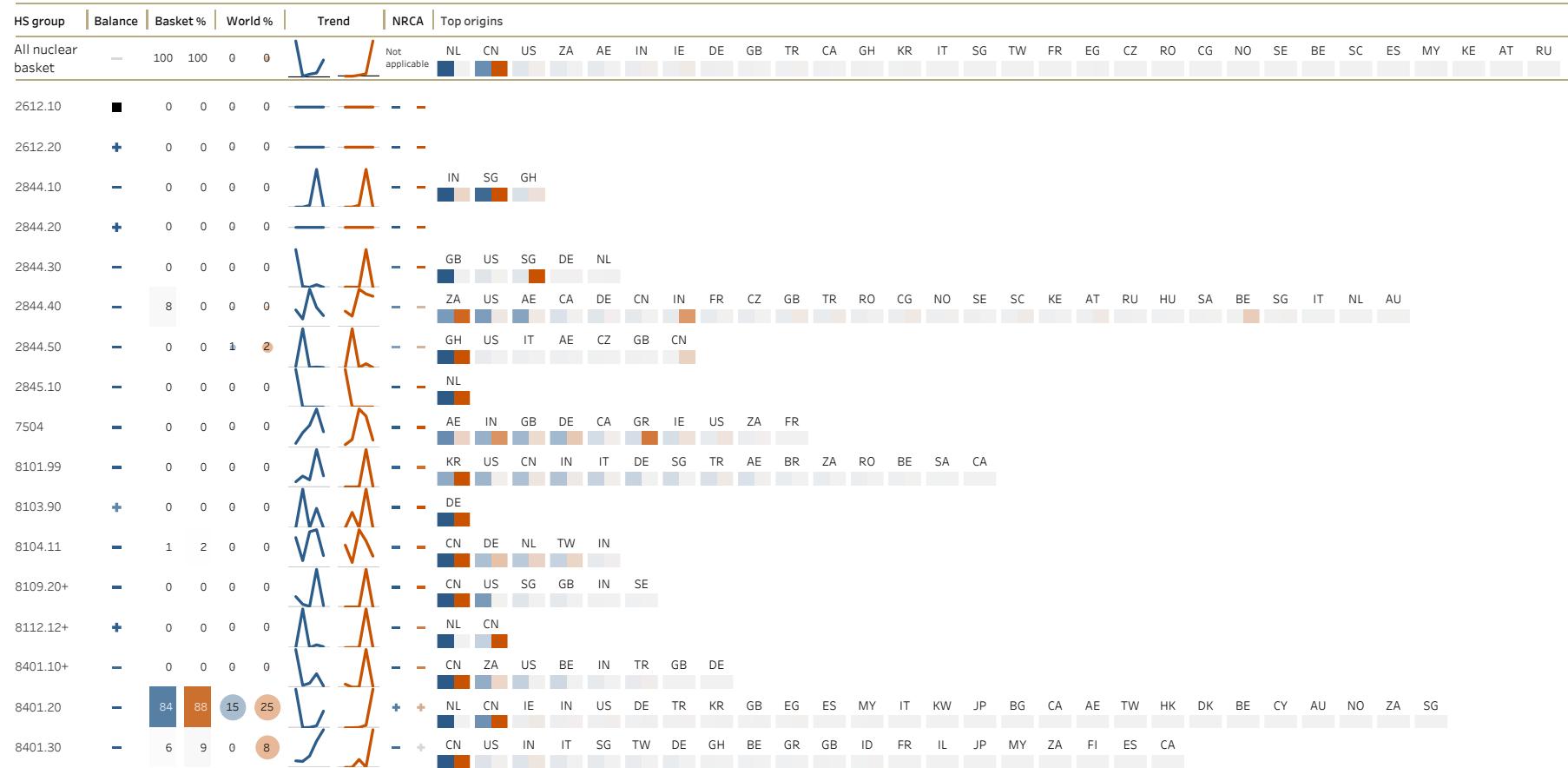


# Nigeria

## Import

Years 2016-2020 BACI records: 283

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.7 M\$ 1% Quantity = 160.4 T



Figure 135: Norway

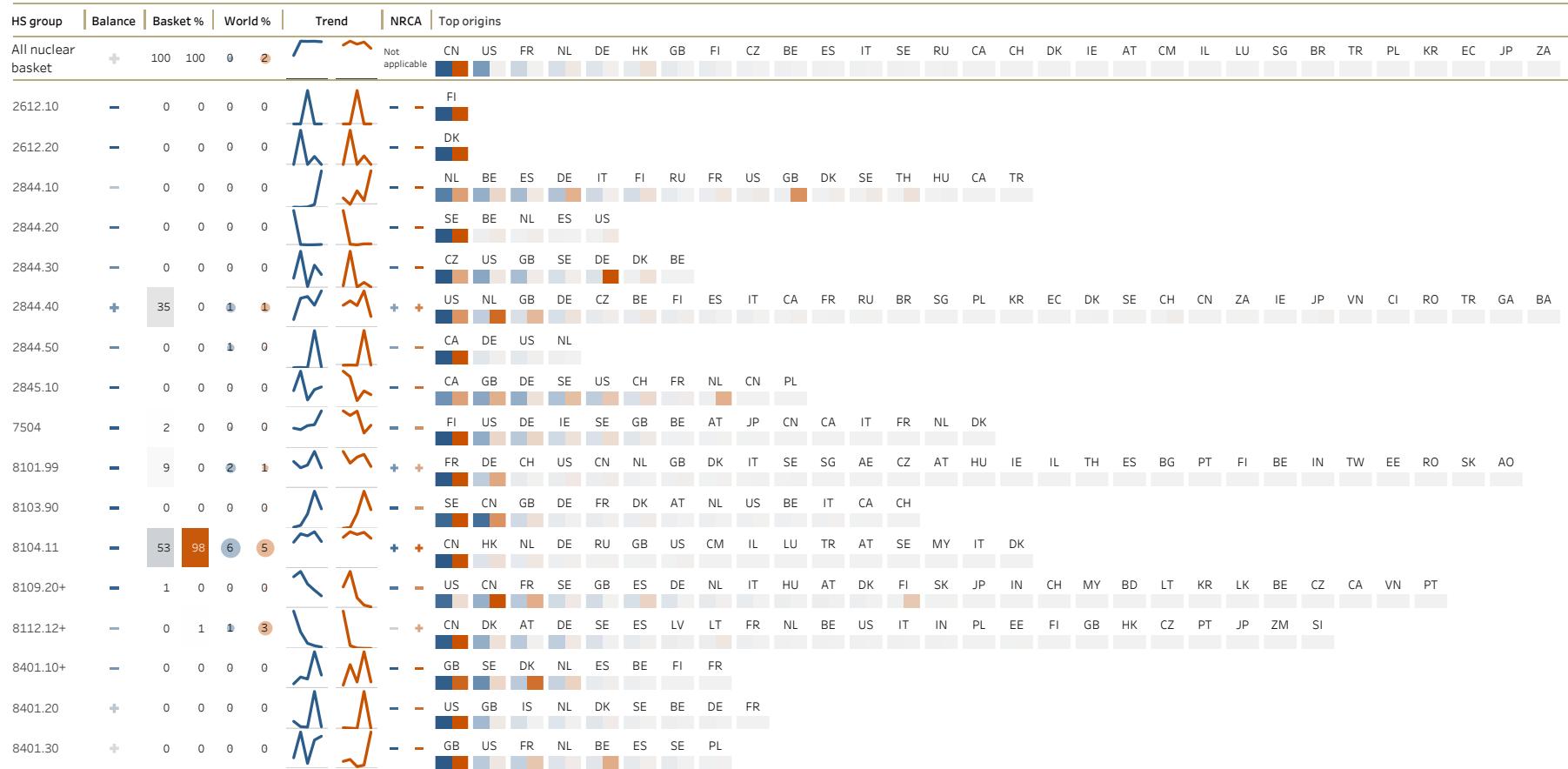


# Norway

## Import

Years 2016-2020 BACI records: 624

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 3.4 M\$ 1% Quantity = 592.5 T



## Oman

### Export

Years 2016-2020 BACI records: 44

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion

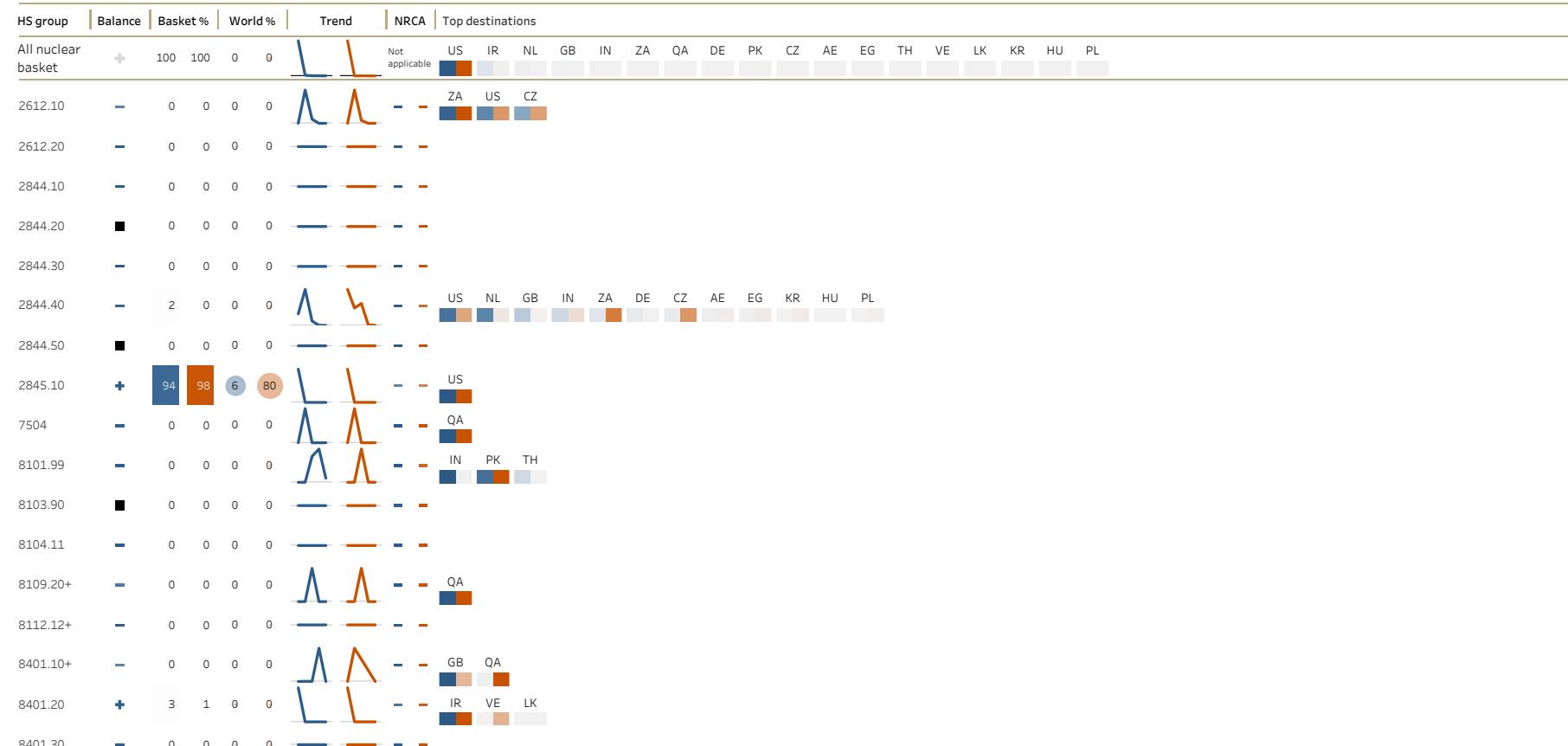


Figure 136: Oman

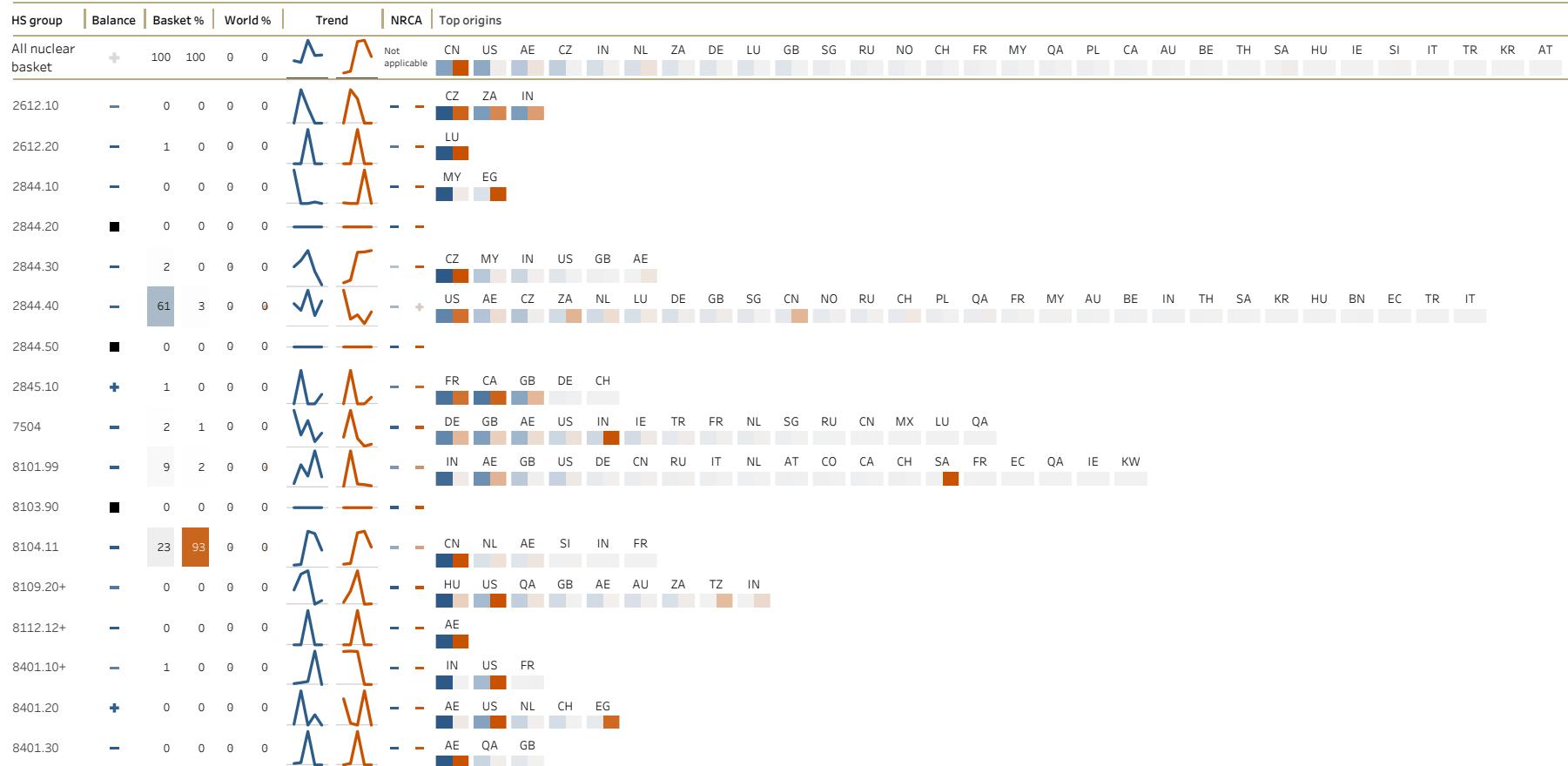


## Oman

### Import

Years 2016-2020 BACI records: 224

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.2 M\$ 1% Quantity = 16.3 T



## Pakistan

### Export

Years 2016-2020 BACI records: 34

**Non-proliferation commitments**  
 NPT: — NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: —  
 IAEA BC: INFIRC/66/Rev.2

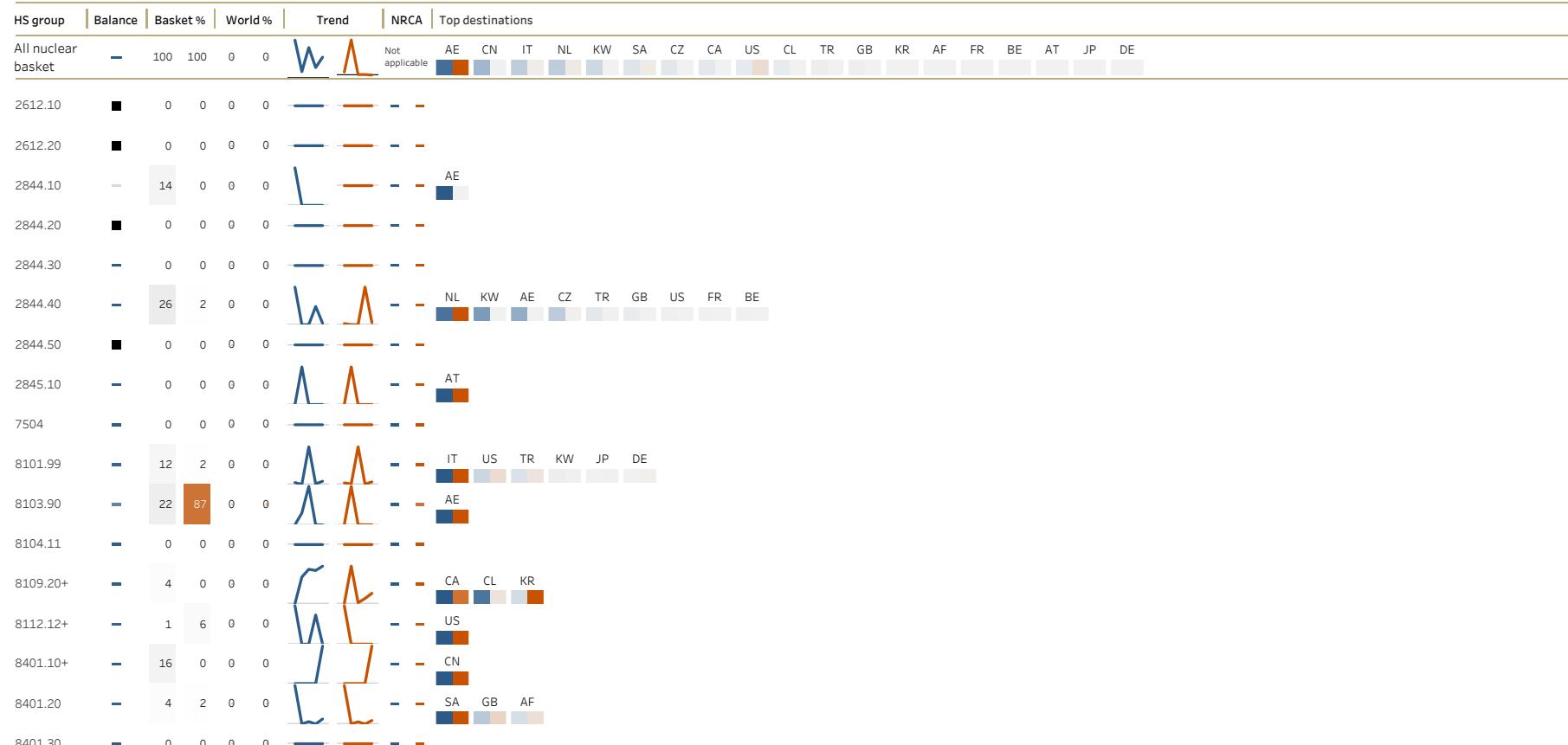


Figure 137. Pakistan



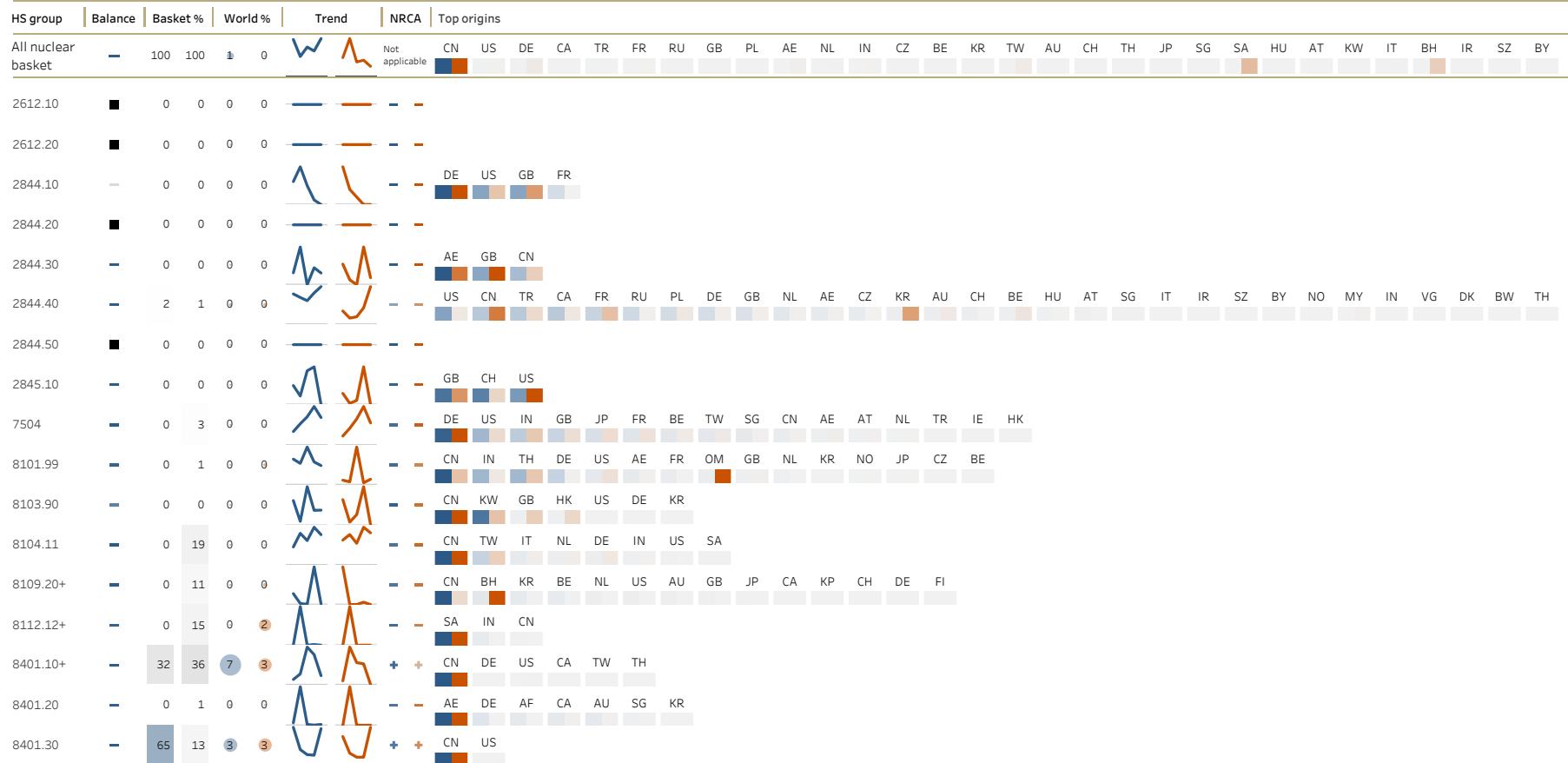
# Pakistan

## Import

Years 2016-2020 BACI records: 289

### Non-proliferation commitments

NPT: — NSG: —  
IAEA SQP: — IAEA SA: In force IAEA AP: —  
IAEA BC: INFIRC/66/Rev.2



Scale of Basket% (5 years): 1% Value = 6.6 M\$ 1% Quantity = 34.3 T

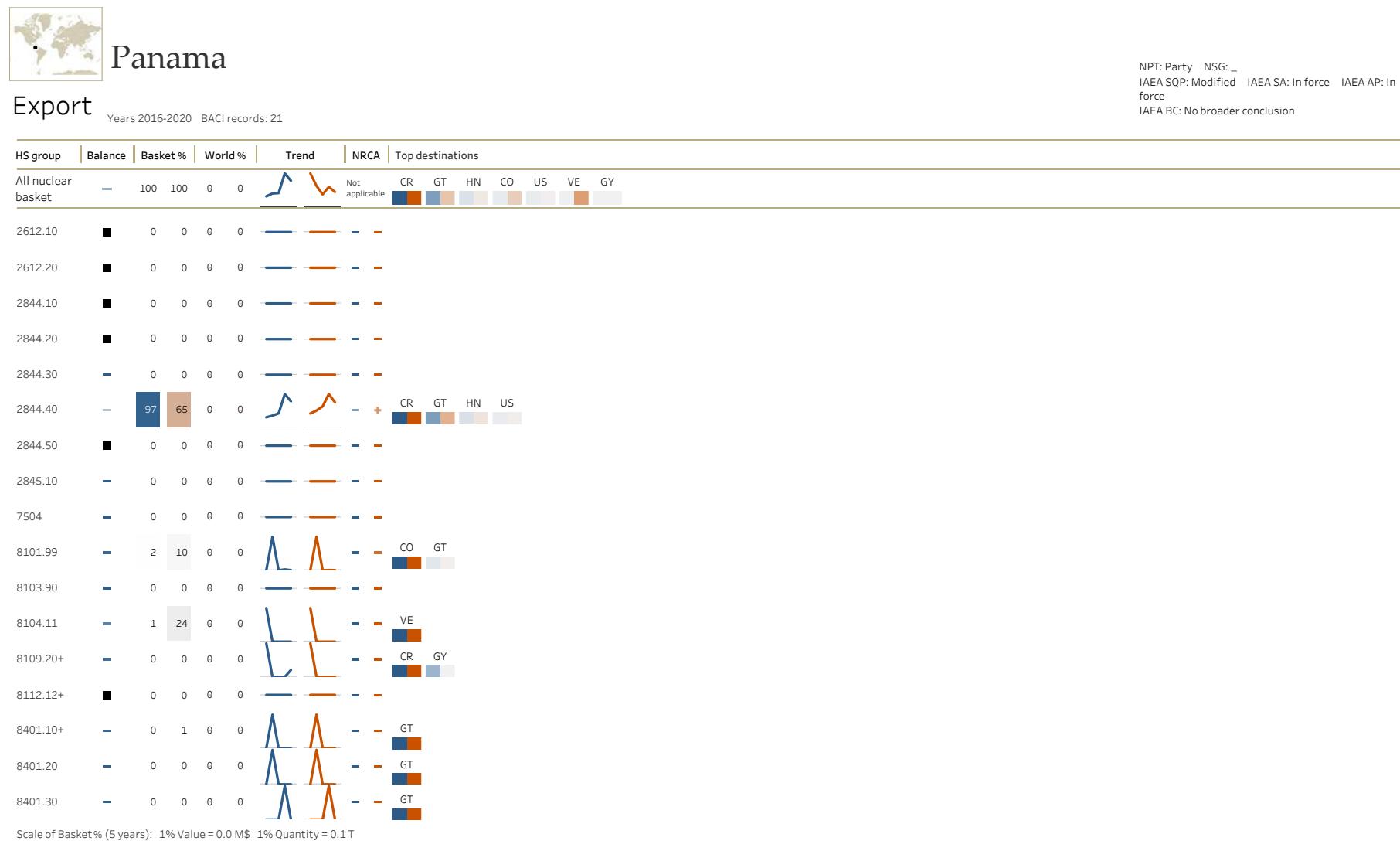


Figure 138: Panama

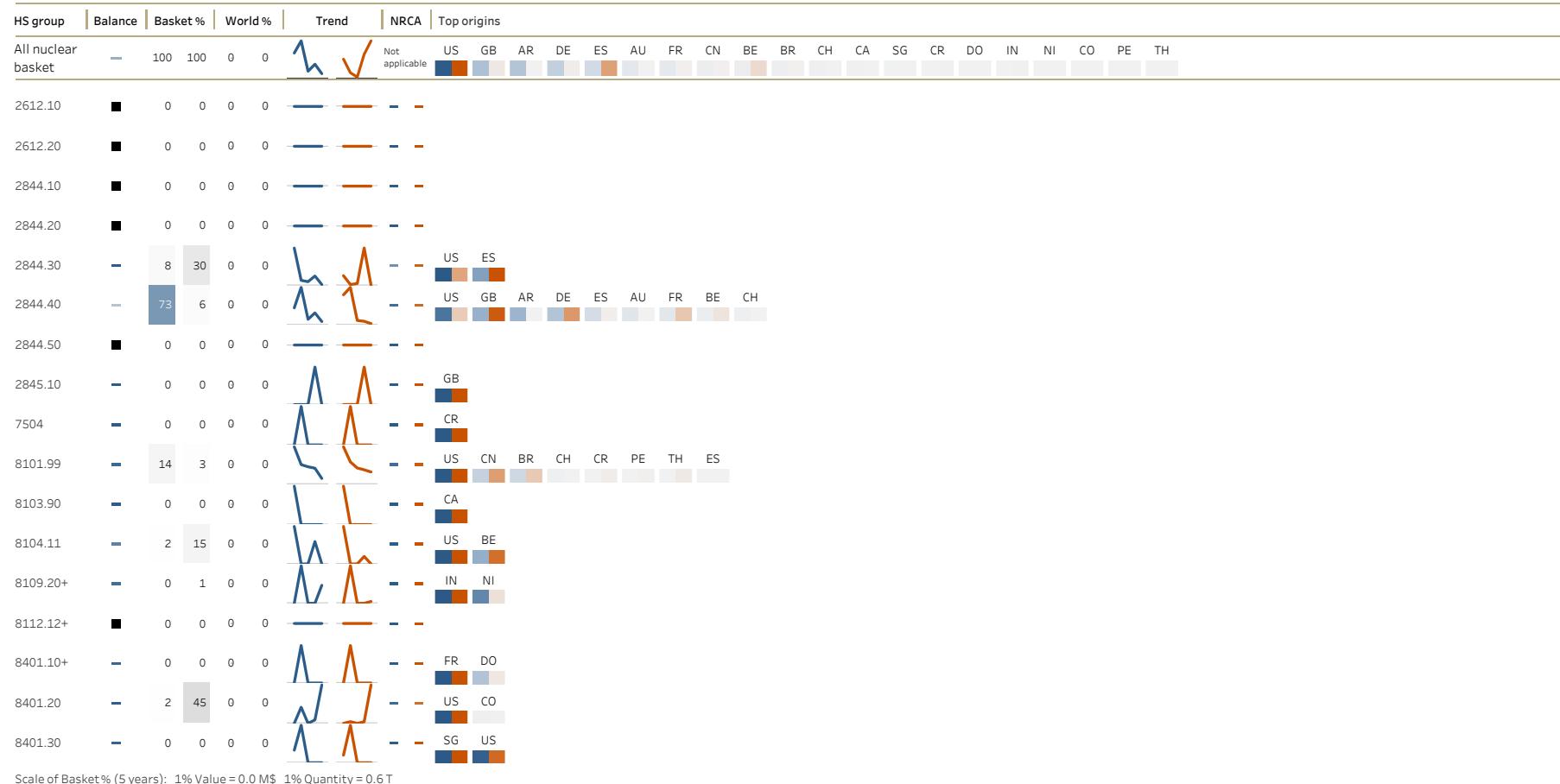


# Panama

## Import

Years 2016-2020 BACI records: 67

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



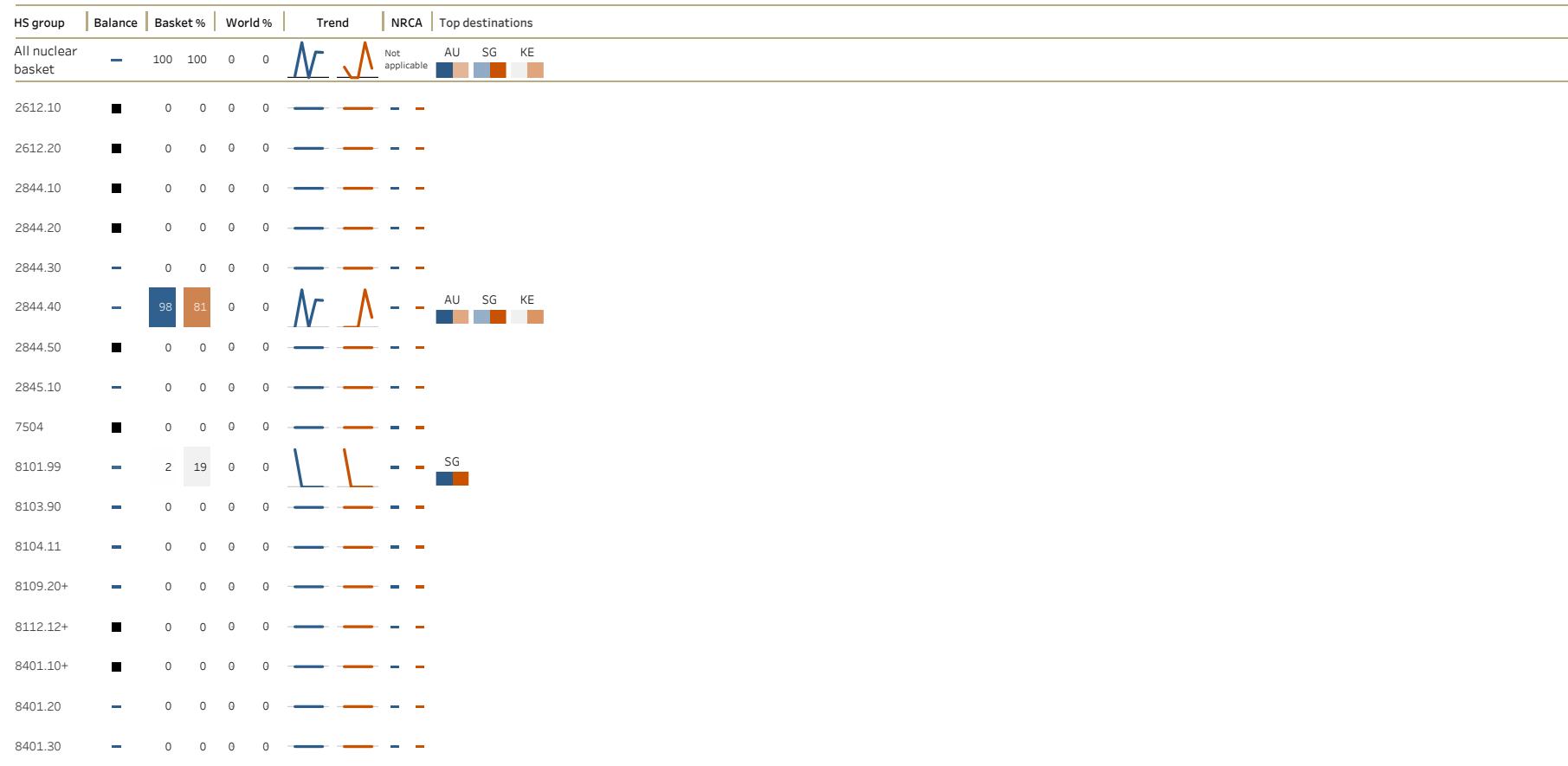


## Papua New Guinea

### Export

Years 2016-2020 BACI records: 6

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.0 T

Figure 139: Papua New Guinea

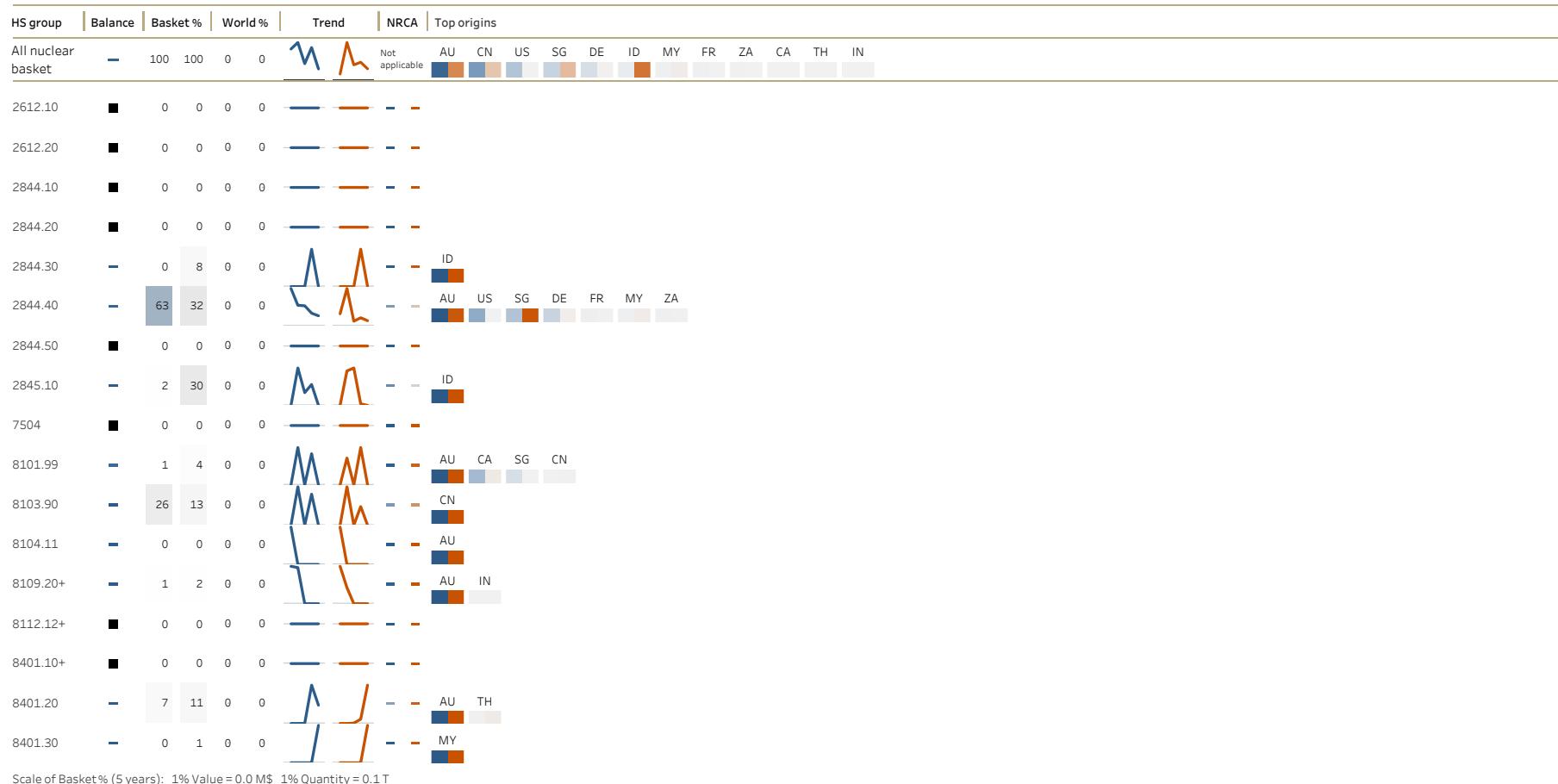


## Papua New Guinea

### Import

Years 2016-2020 BACI records: 40

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion



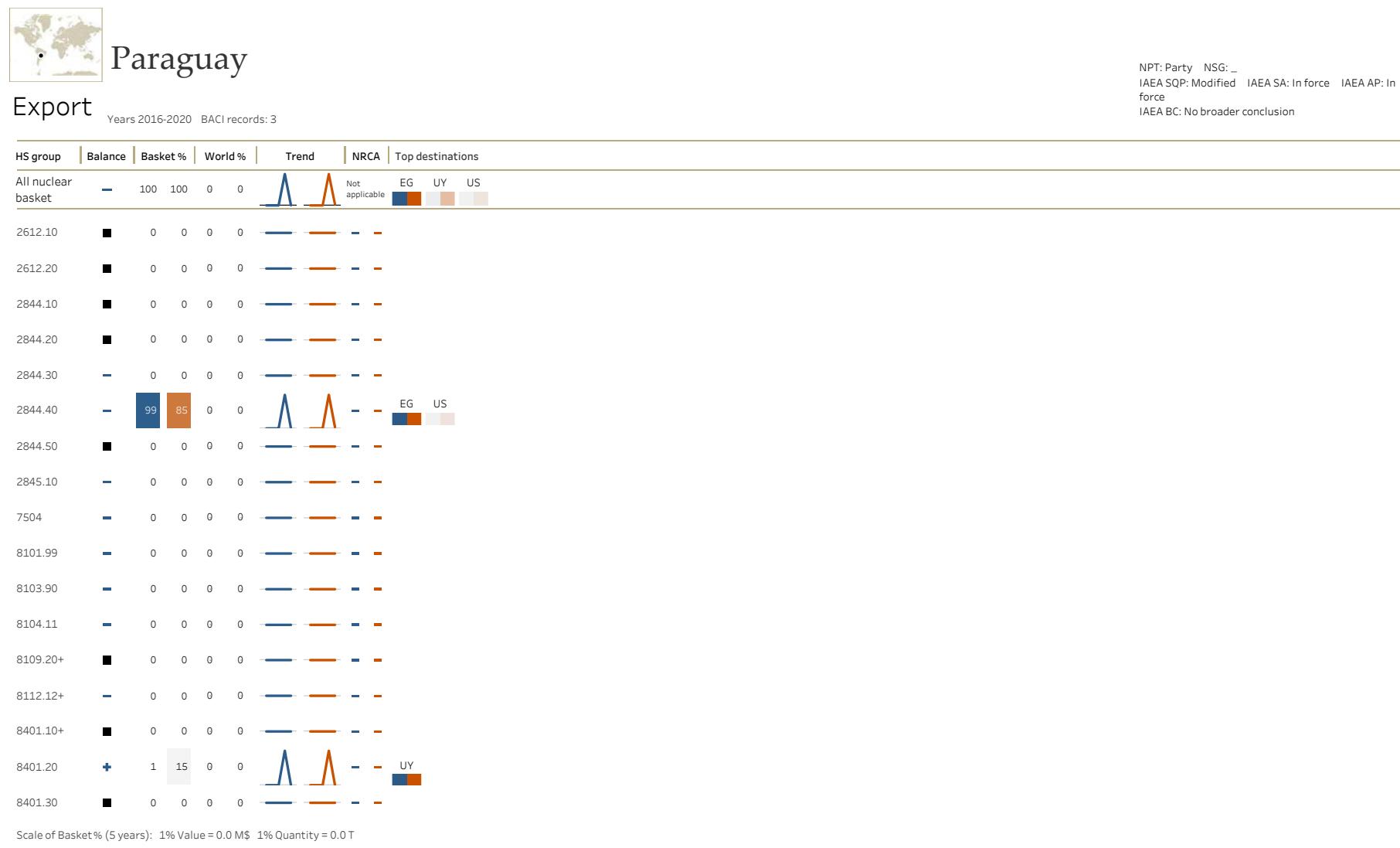


Figure 140: Paraguay

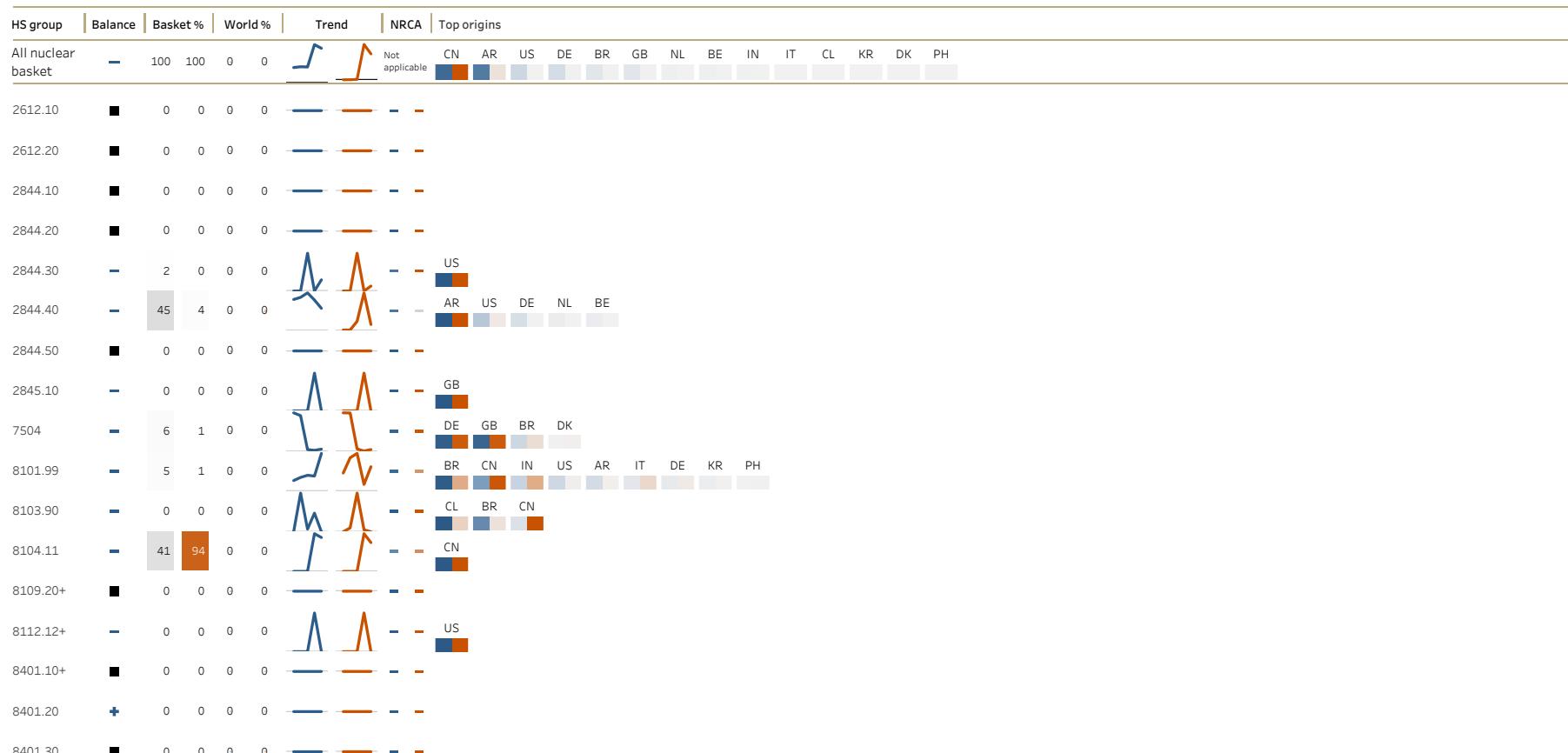


## Paraguay

## Import

Years 2016-2020 BACI records: 61

NPT: Party NSG: \_\_\_\_\_  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
force  
IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 3.3 T



# Peru

## Export

Years 2016-2020 BACI records: 35

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

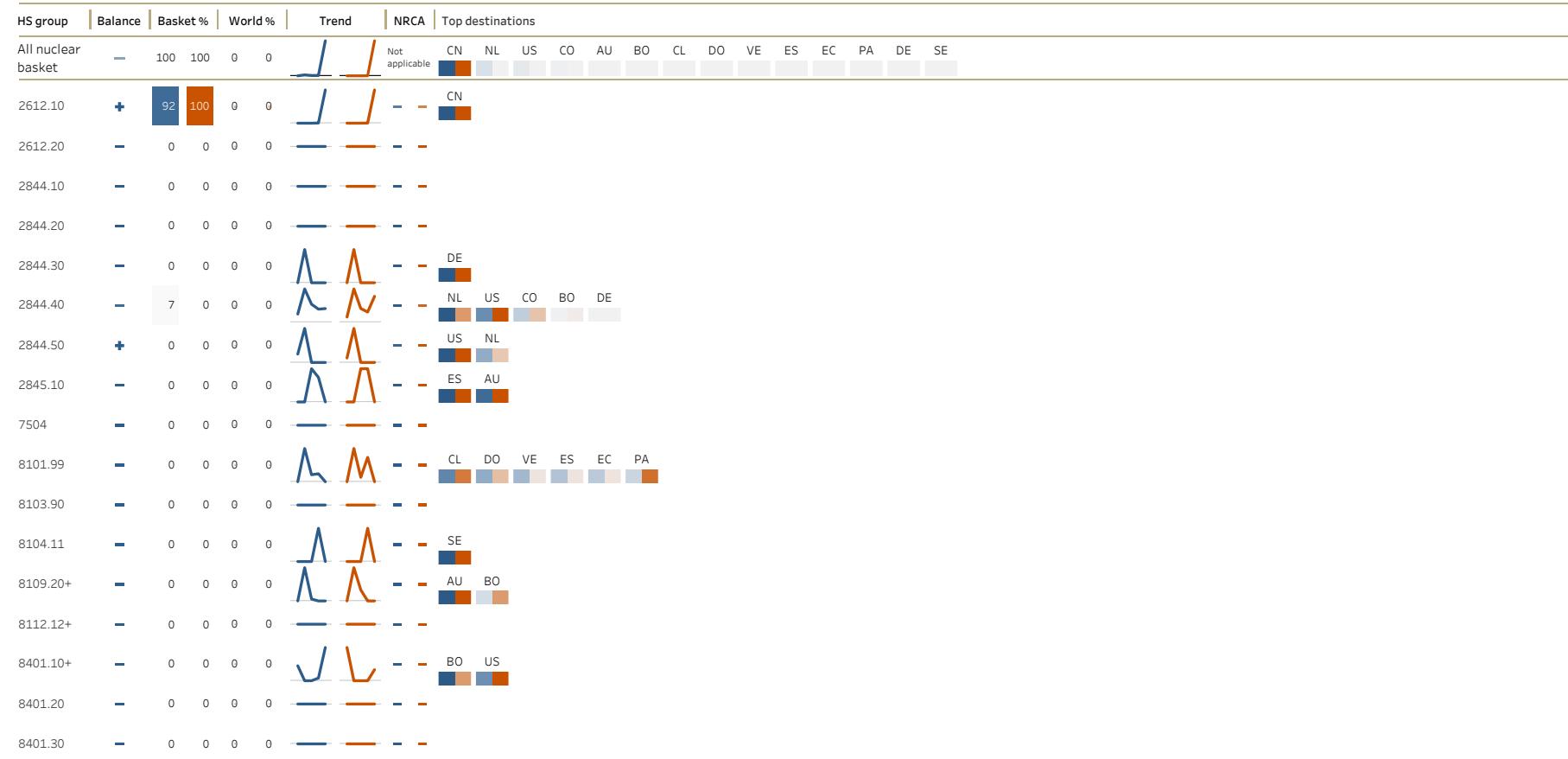


Figure 141: Peru

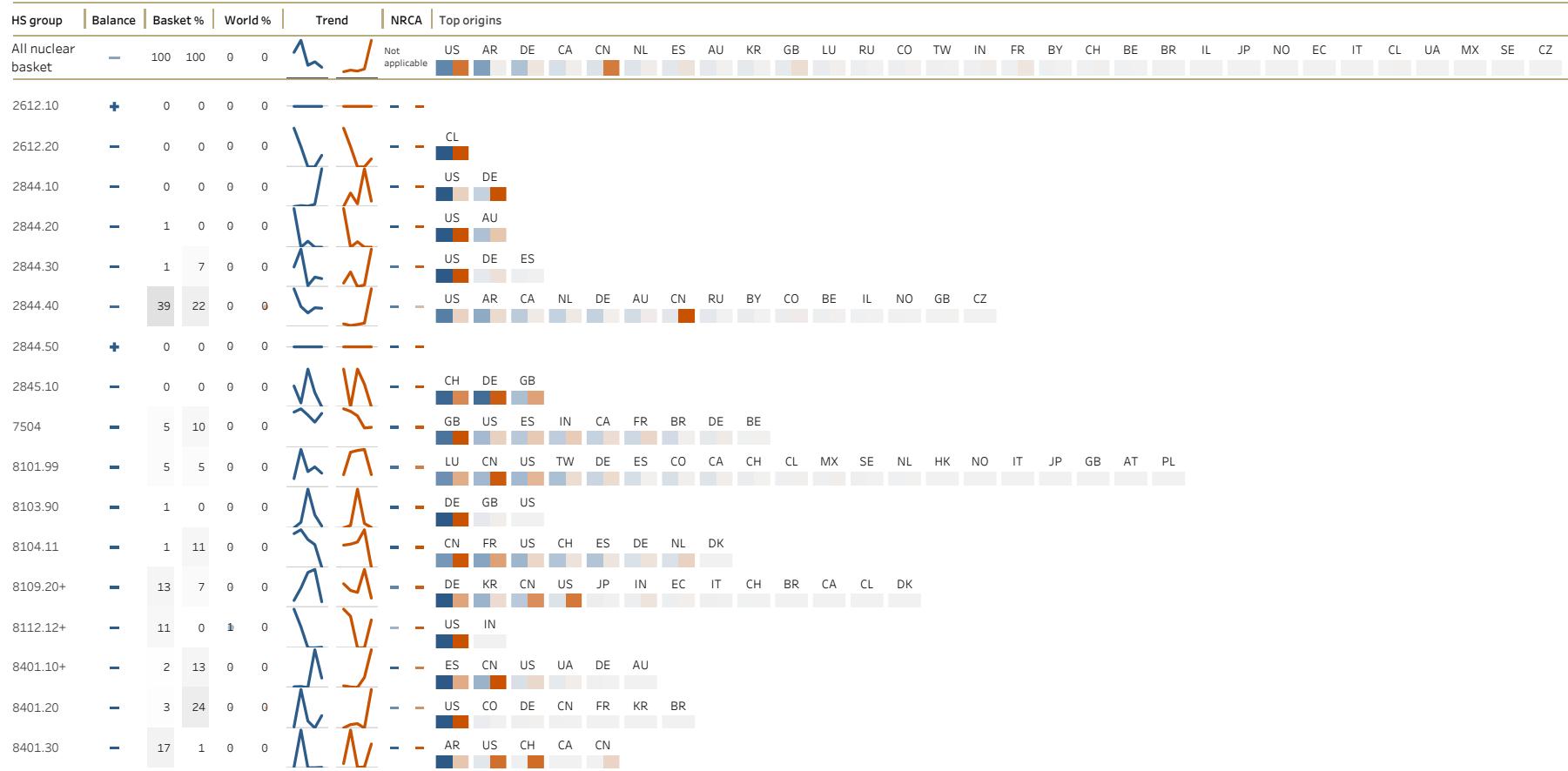


# Peru

## Import

Years 2016-2020 BACI records: 251

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion





# Philippines

## Export

Years 2016-2020 BACI records: 96

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

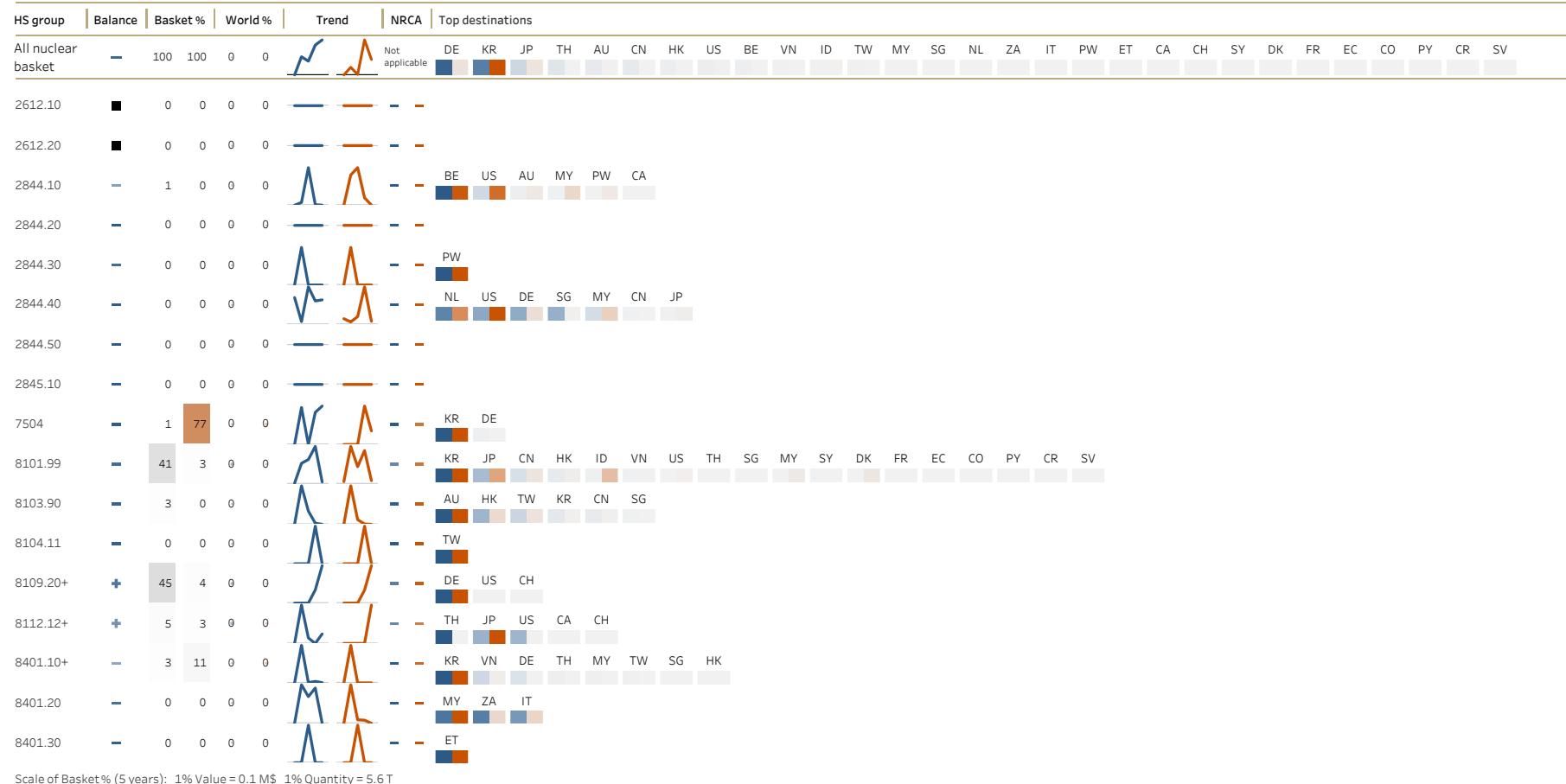


Figure 142: Philippines



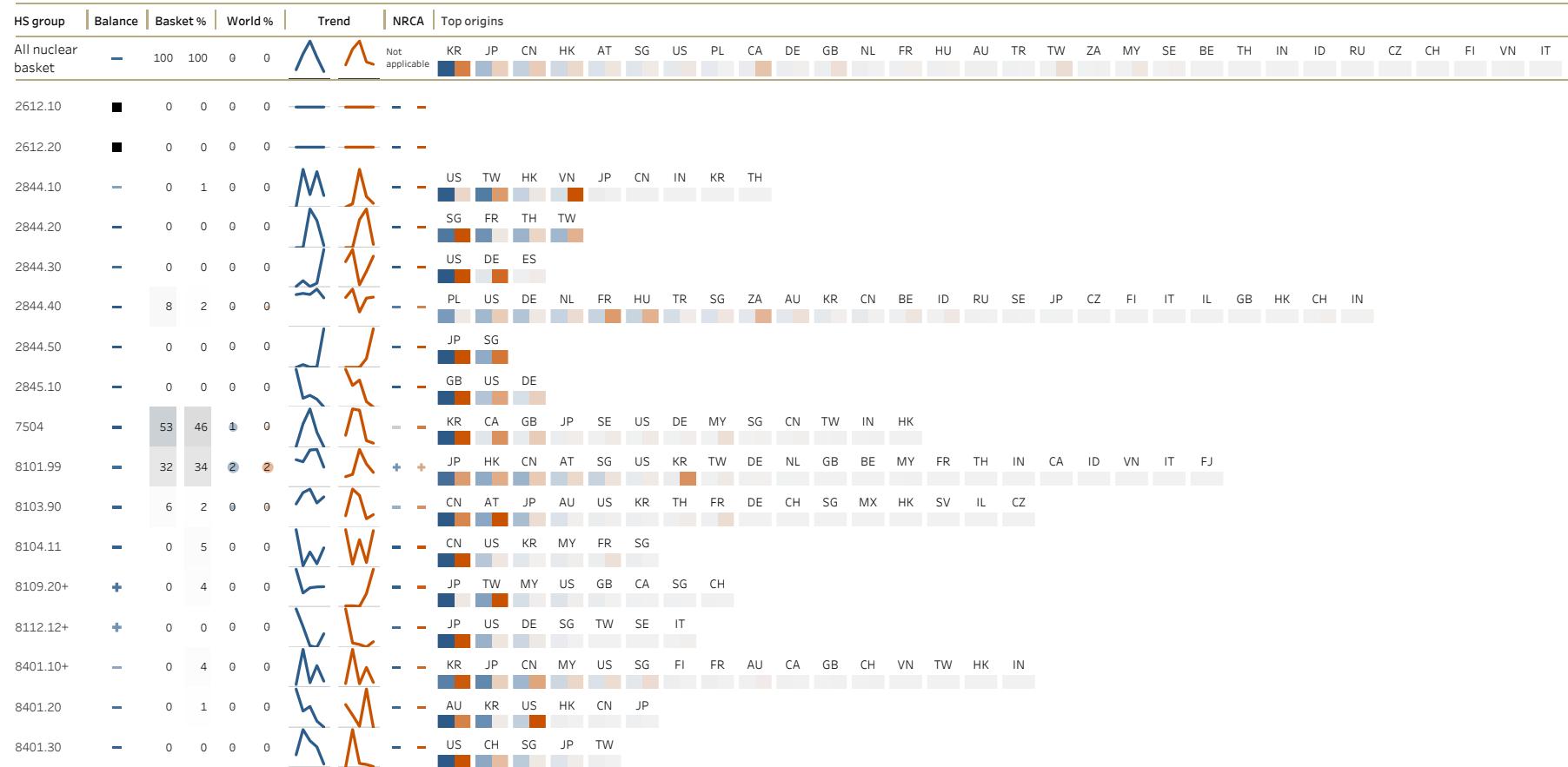
# Philippines

## Import

Years 2016-2020 BACI records: 383

### Non-proliferation commitments

NPT: Party NSG: –  
IAEA SQP: – IAEA SA: In force IAEA AP: In force  
IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 1.2 M\$ 1% Quantity = 11.5 T

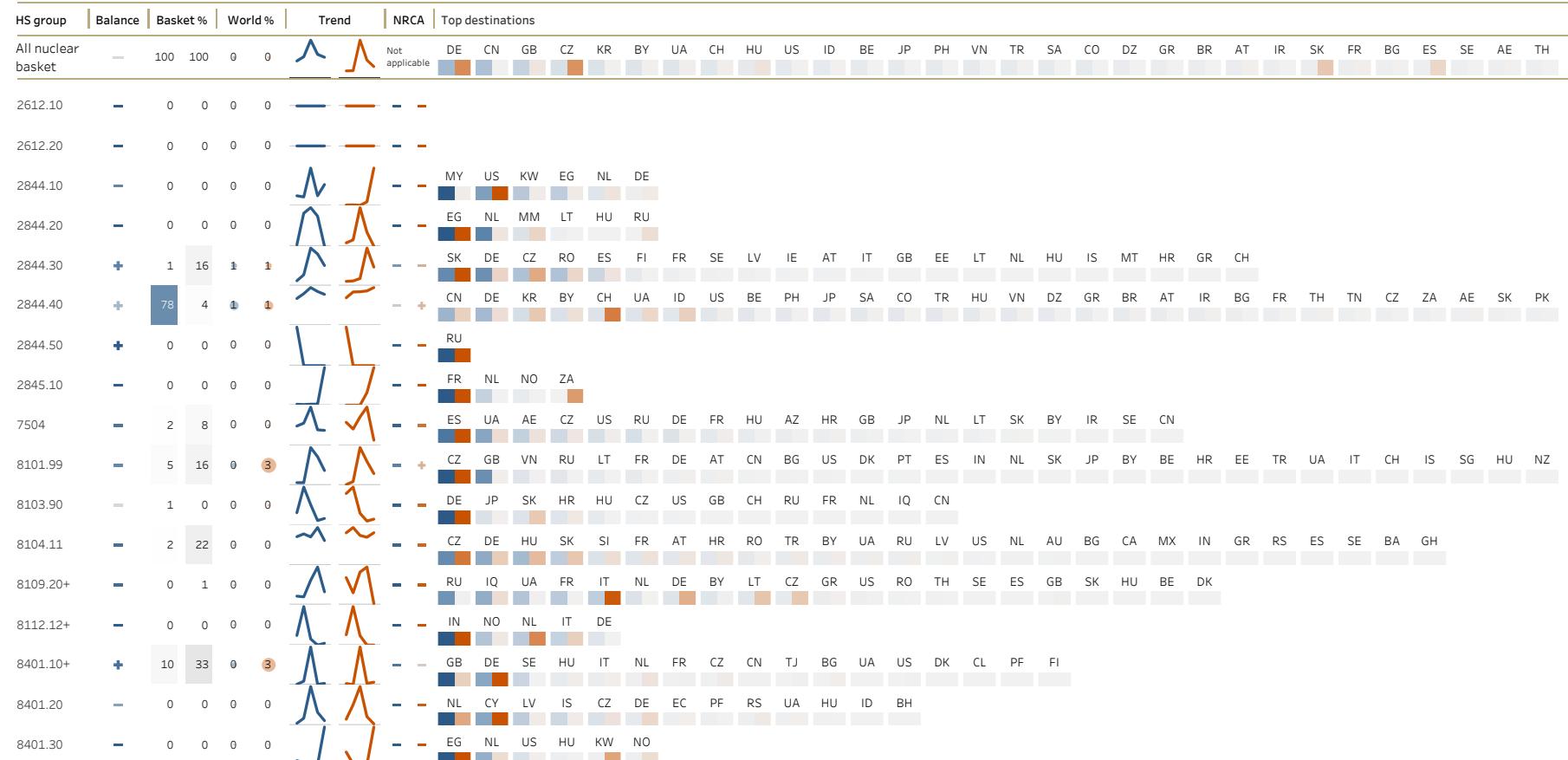


# Poland

## Export

Years 2016-2020 BACI records: 856

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 1.3 M\$ 1% Quantity = 42.2 T

Figure 143: Poland

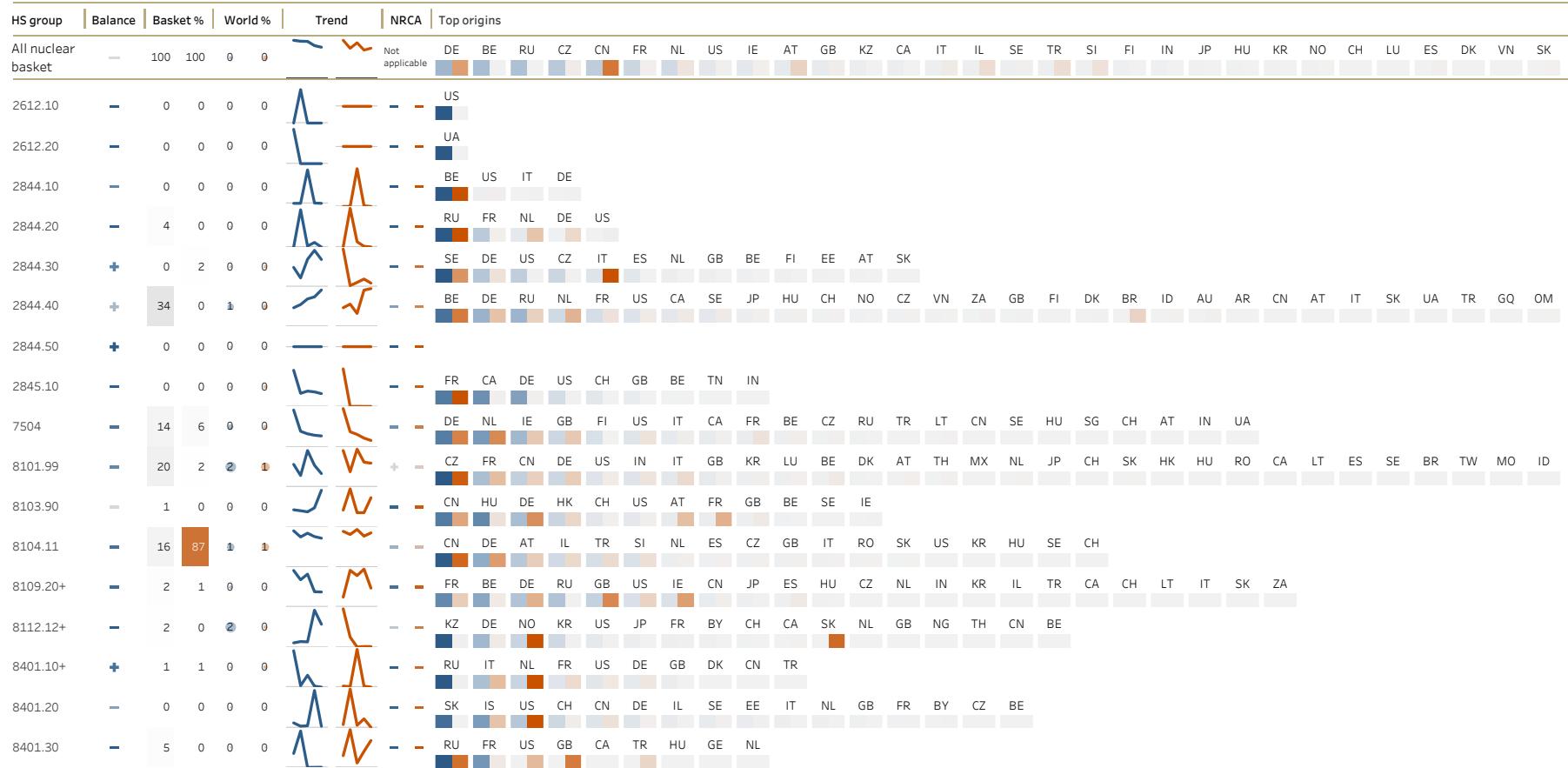


# Poland

## Import

Years 2016-2020 BACI records: 678

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 1.6 M\$ 1% Quantity = 114.4 T



Figure 144: Portugal

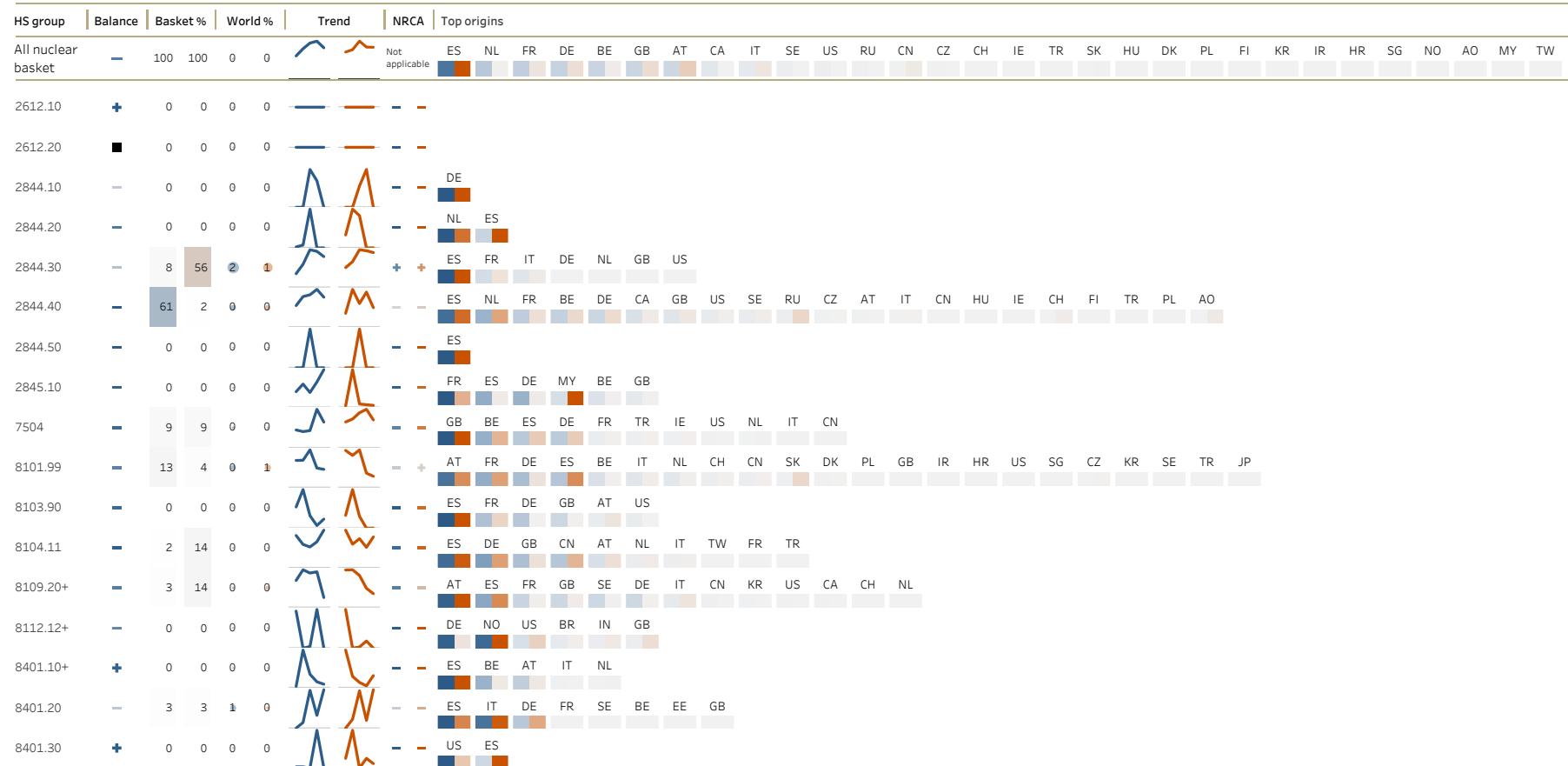


# Portugal

## Import

Years 2016-2020 BACI records: 420

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.7 M\$ 1% Quantity = 29.6 T



Figure 145: Qatar

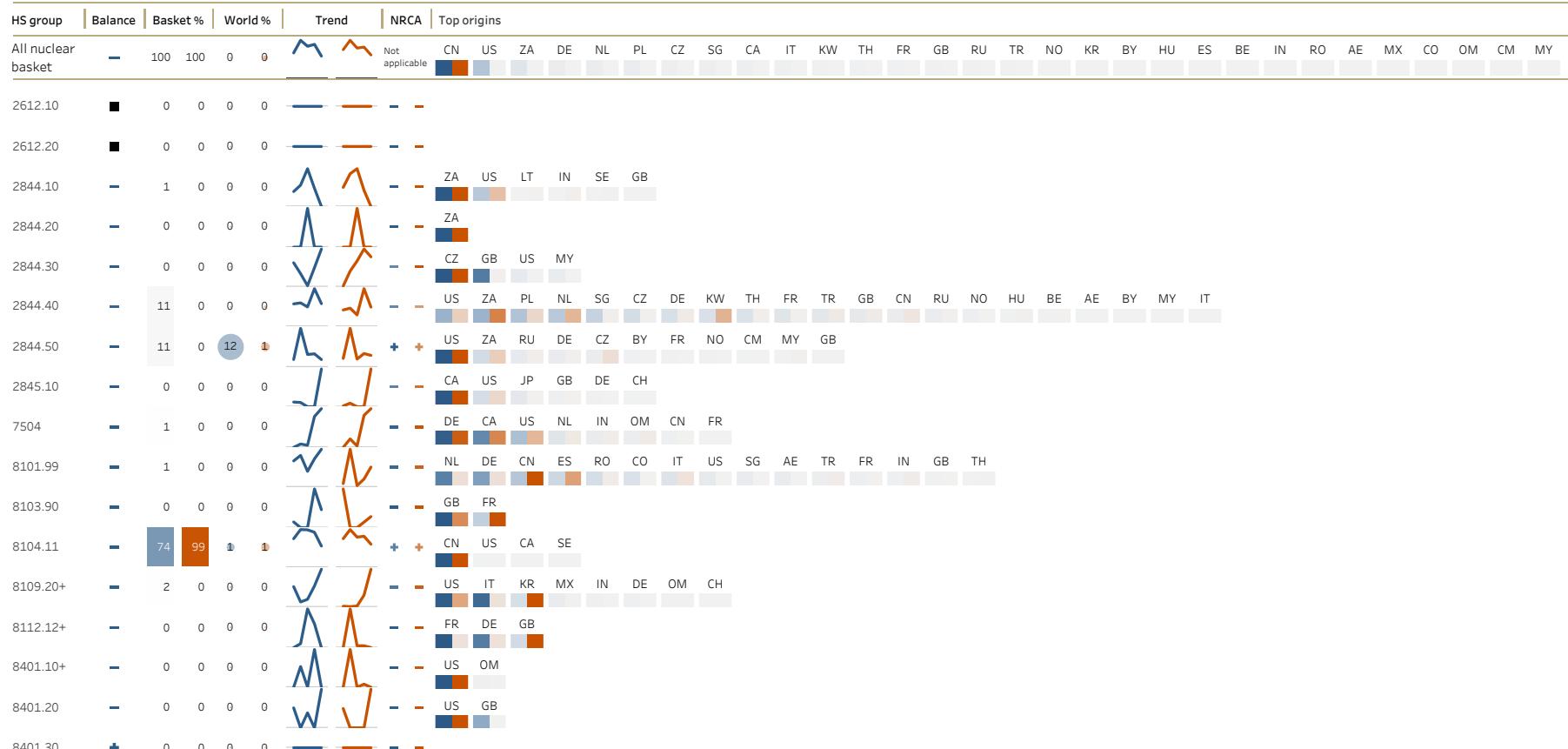


# Qatar

## Import

Years 2016-2020 BACI records: 200

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.4 M\$ 1% Quantity = 123.7 T

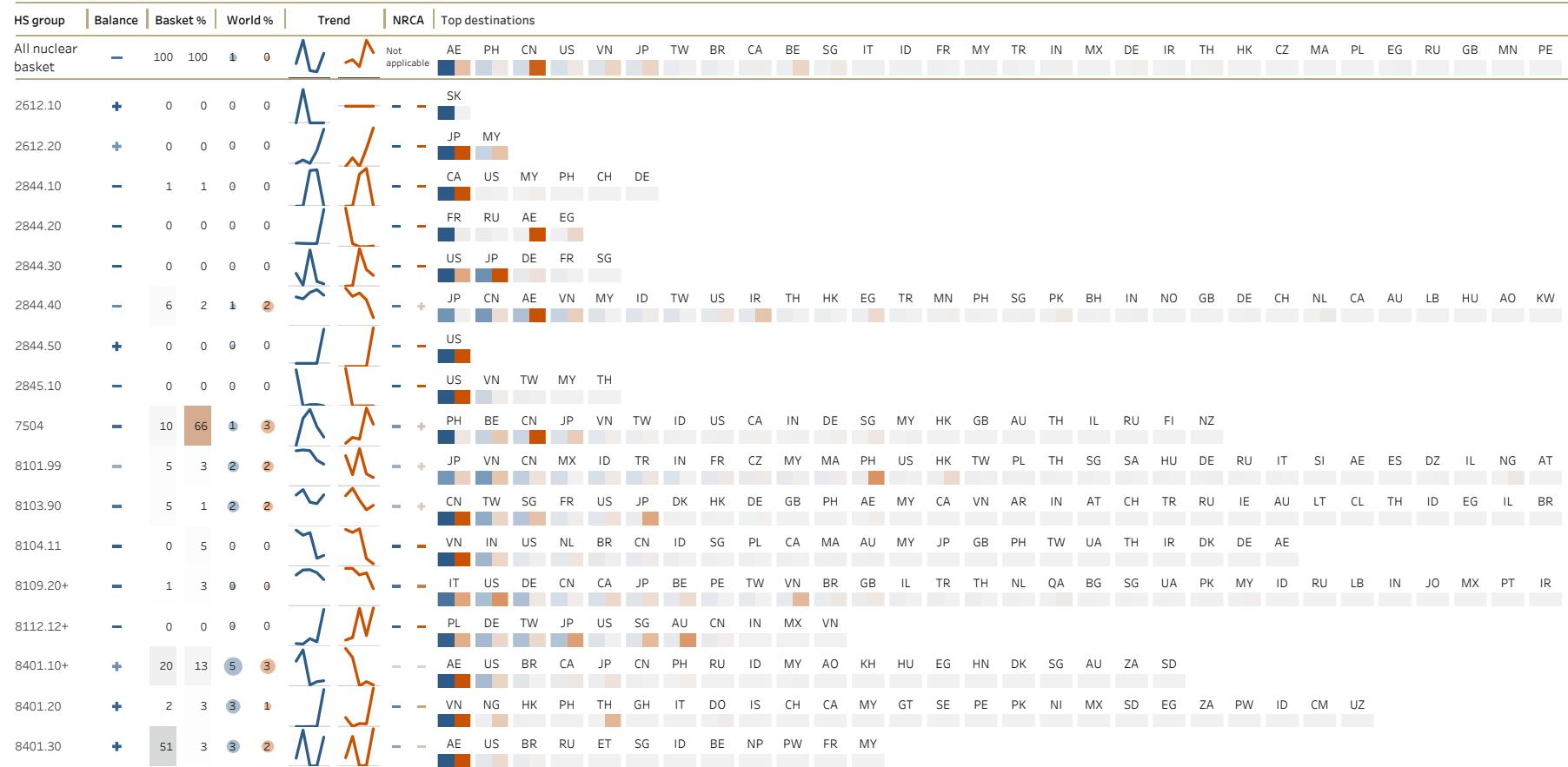


## Rep. of Korea

### Export

Years 2016-2020 BACI records: 887

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 7.9 M\$ 1% Quantity = 127.3 T

Figure 146: Rep. of Korea

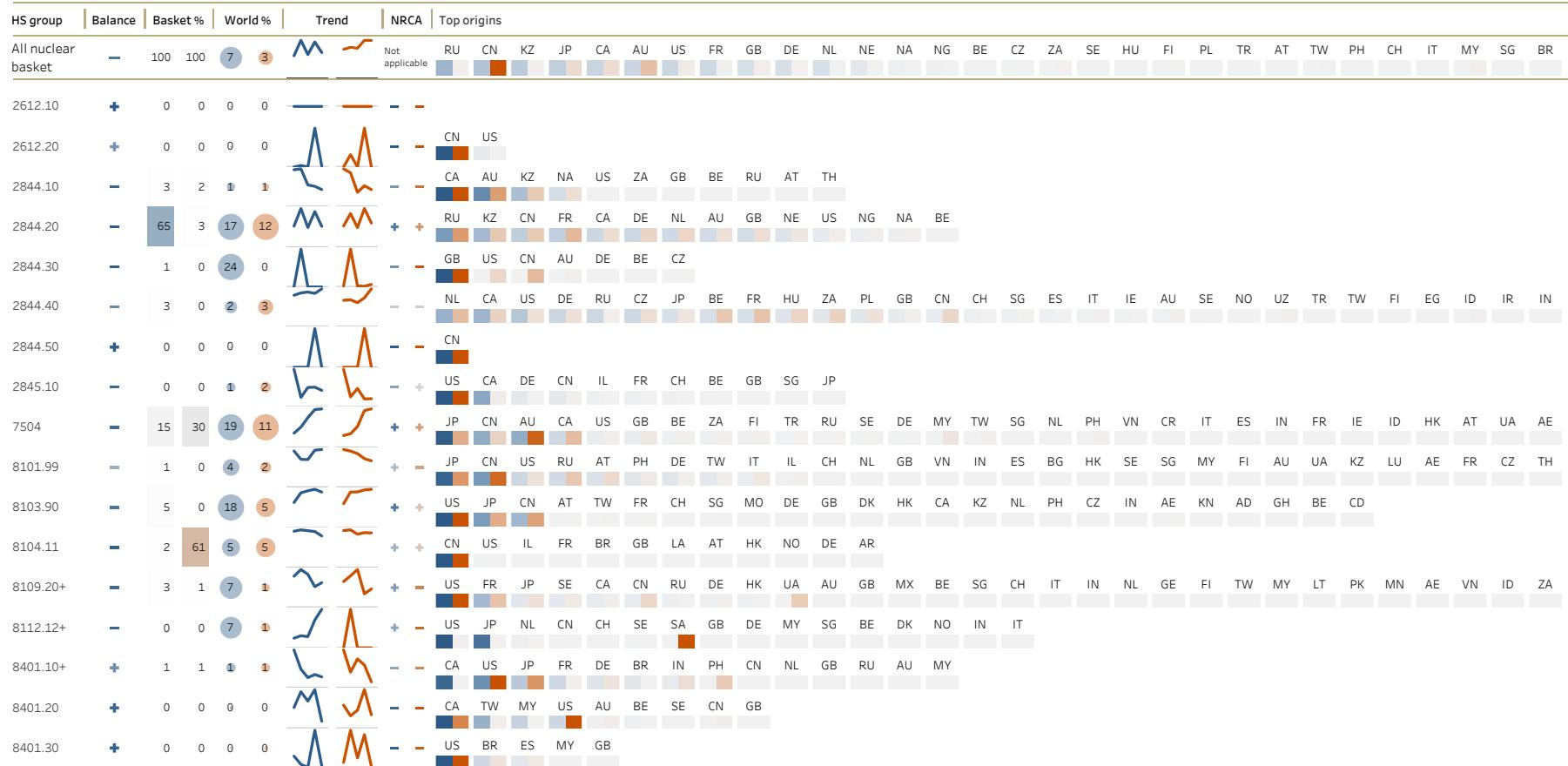


## Rep. of Korea

### Import

Years 2016-2020 BACI records: 916

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 66.3 M\$ 1% Quantity = 1,092.2 T



## Rep. of Moldova

### Export

Years 2016-2020 BACI records: 8

NPT: Party NSG: –  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
force  
IAEA BC: No broader conclusion



Figure 147: Rep. of Moldova

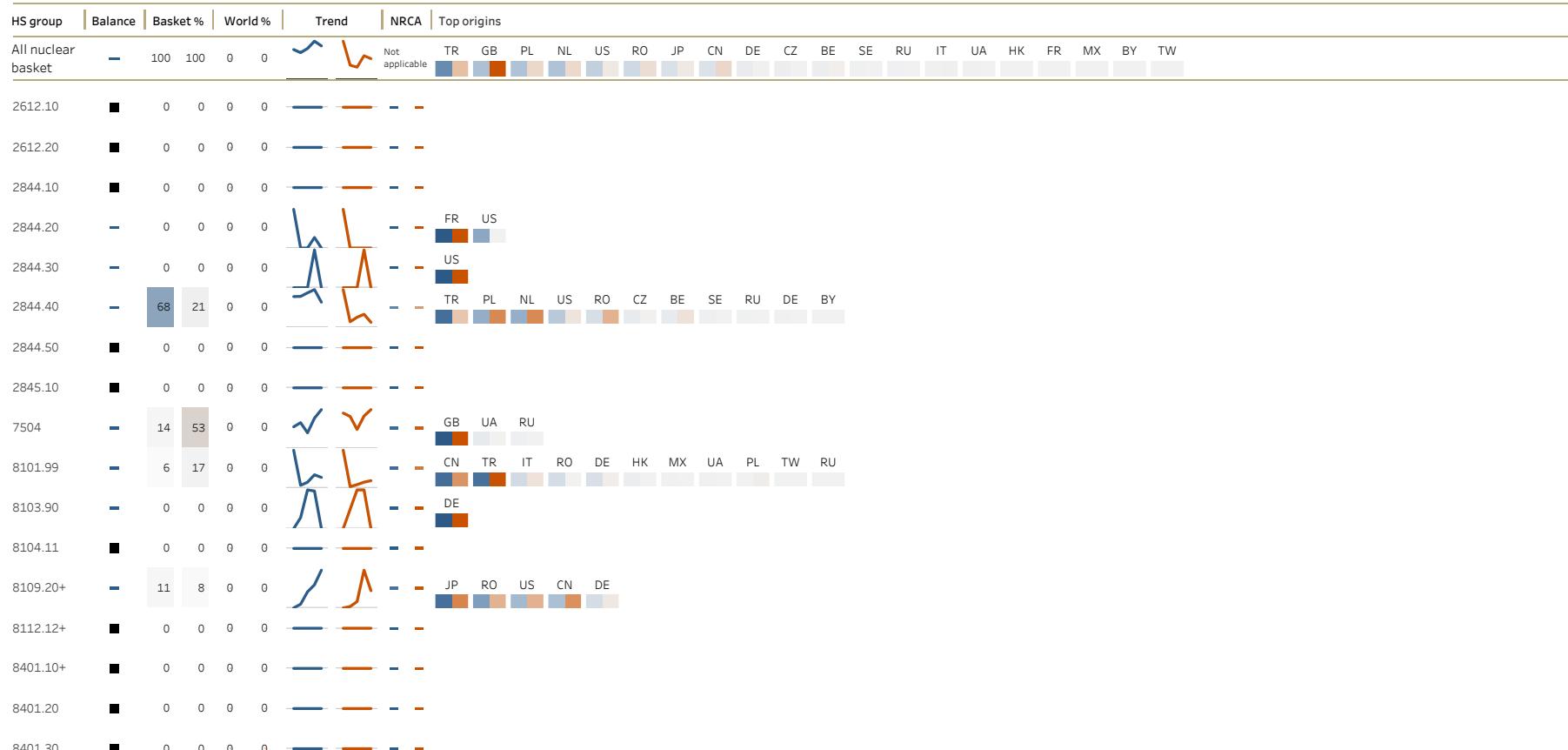


## Rep. of Moldova

### Import

Years 2016-2020 BACI records: 82

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.1 T

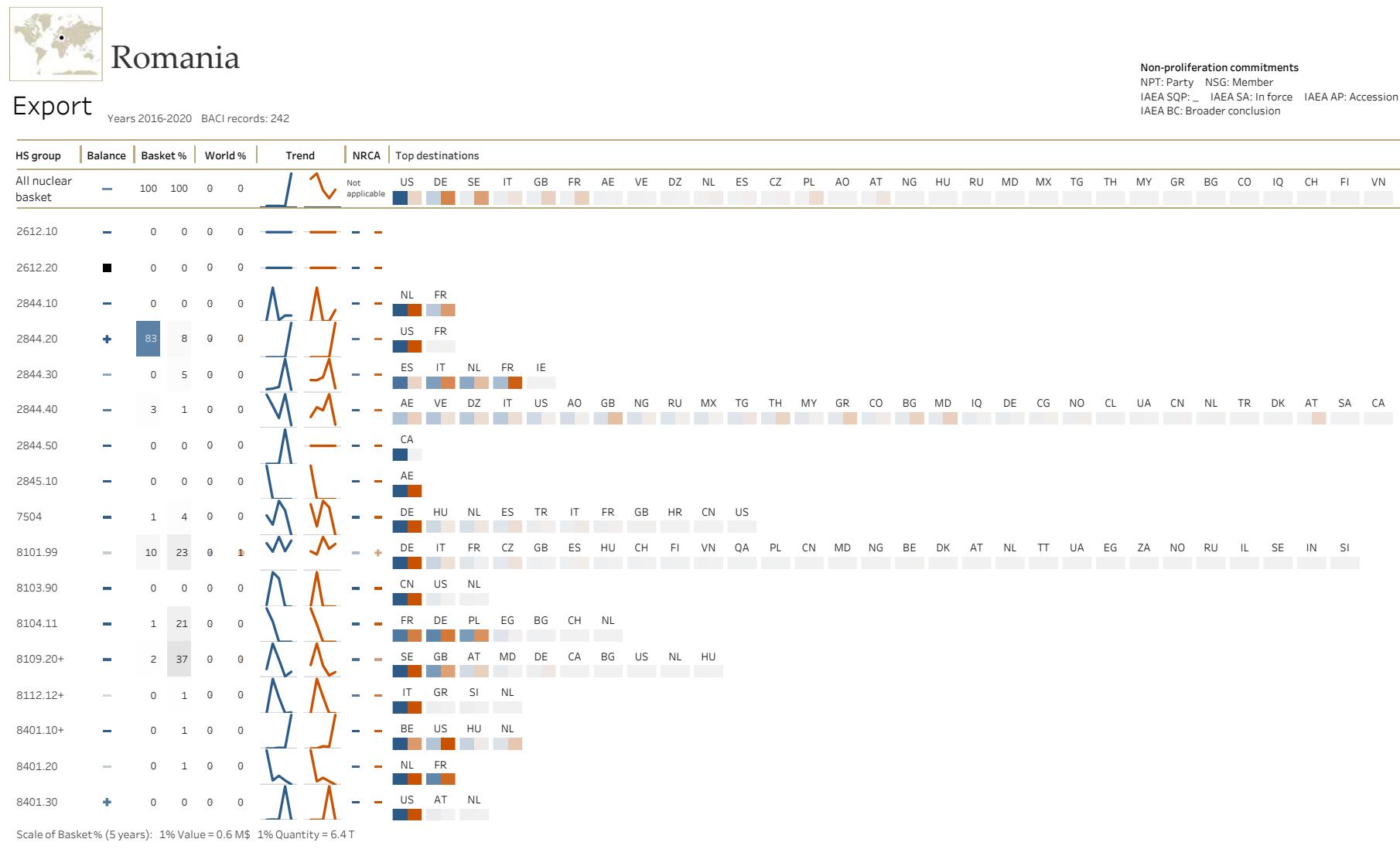


Figure 148: Romania

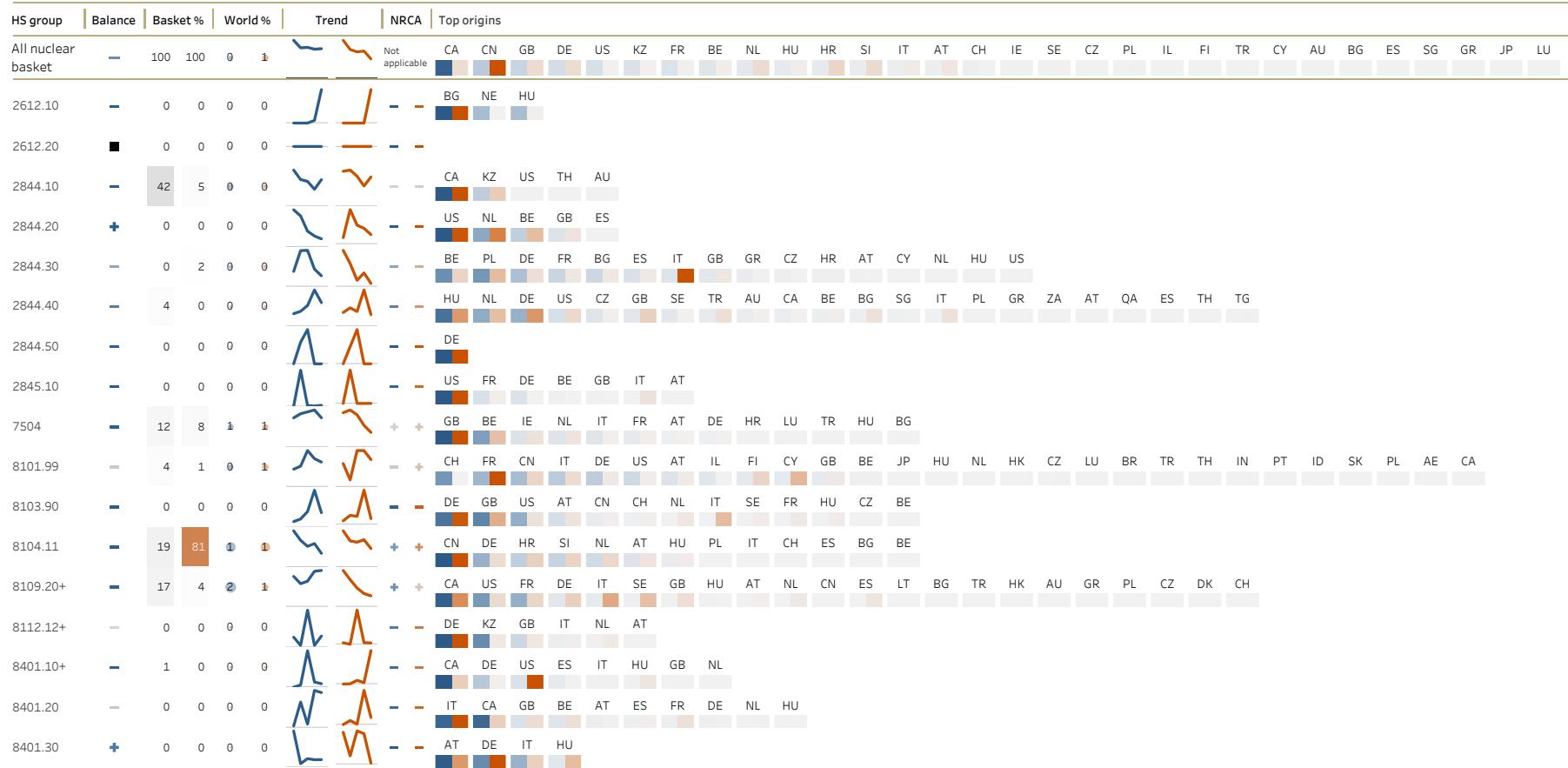


# Romania

## Import

Years 2016-2020 BACI records: 567

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion



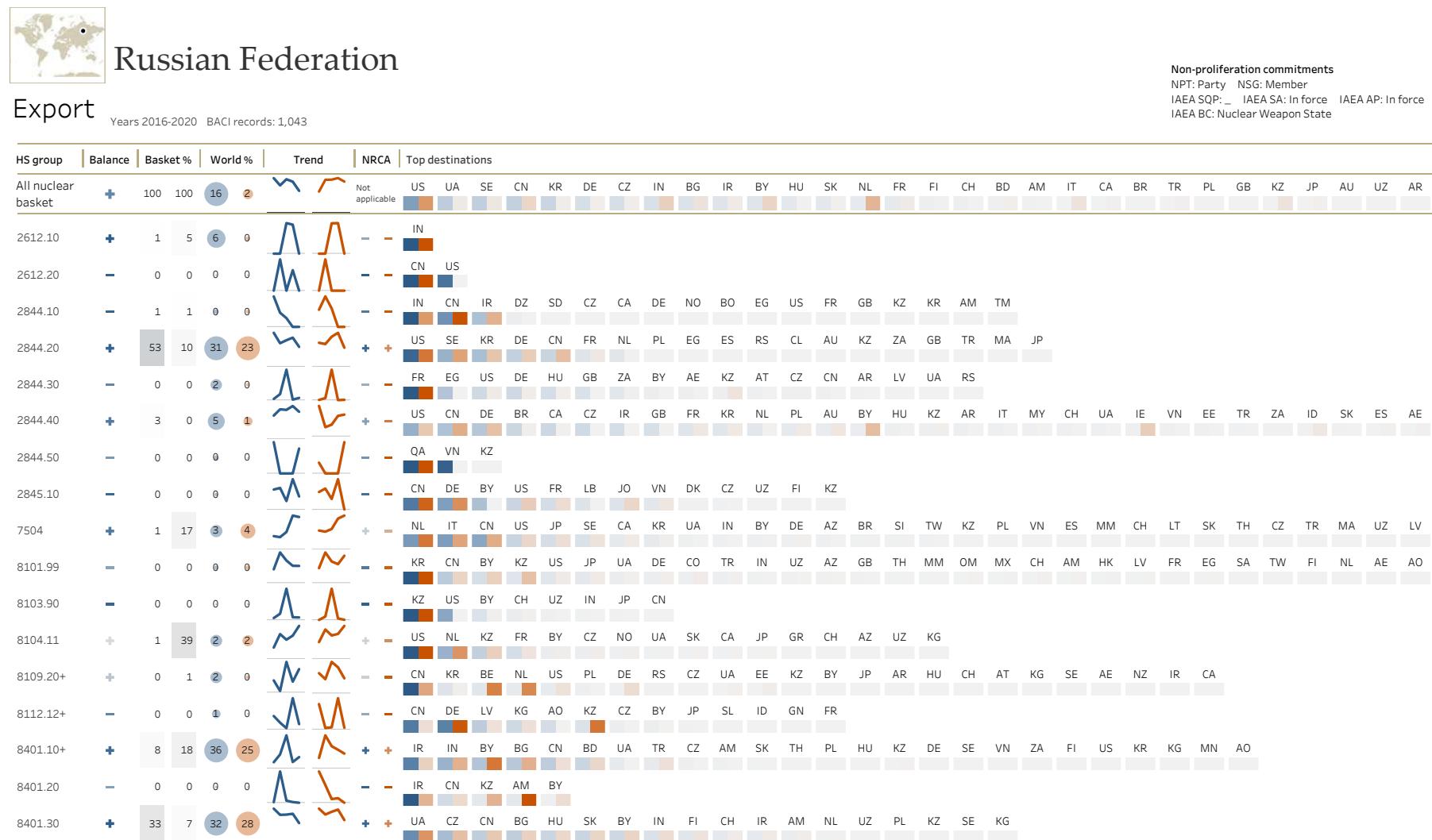


Figure 149: Russian Federation

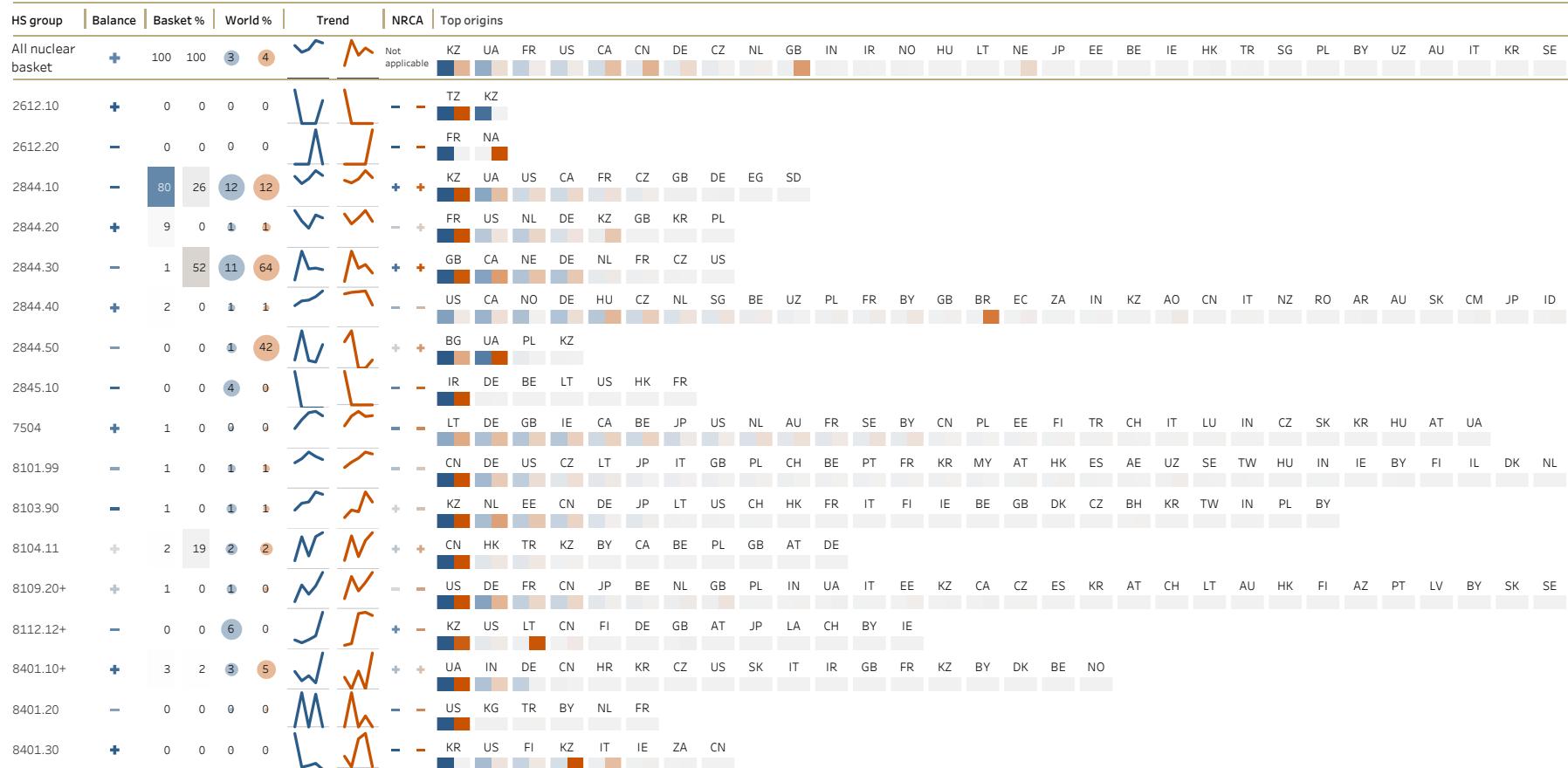


# Russian Federation

## Import

Years 2016-2020 BACI records: 804

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Nuclear Weapon State



Scale of Basket% (5 years): 1% Value = 31.9 M\$ 1% Quantity = 1,510.8 T

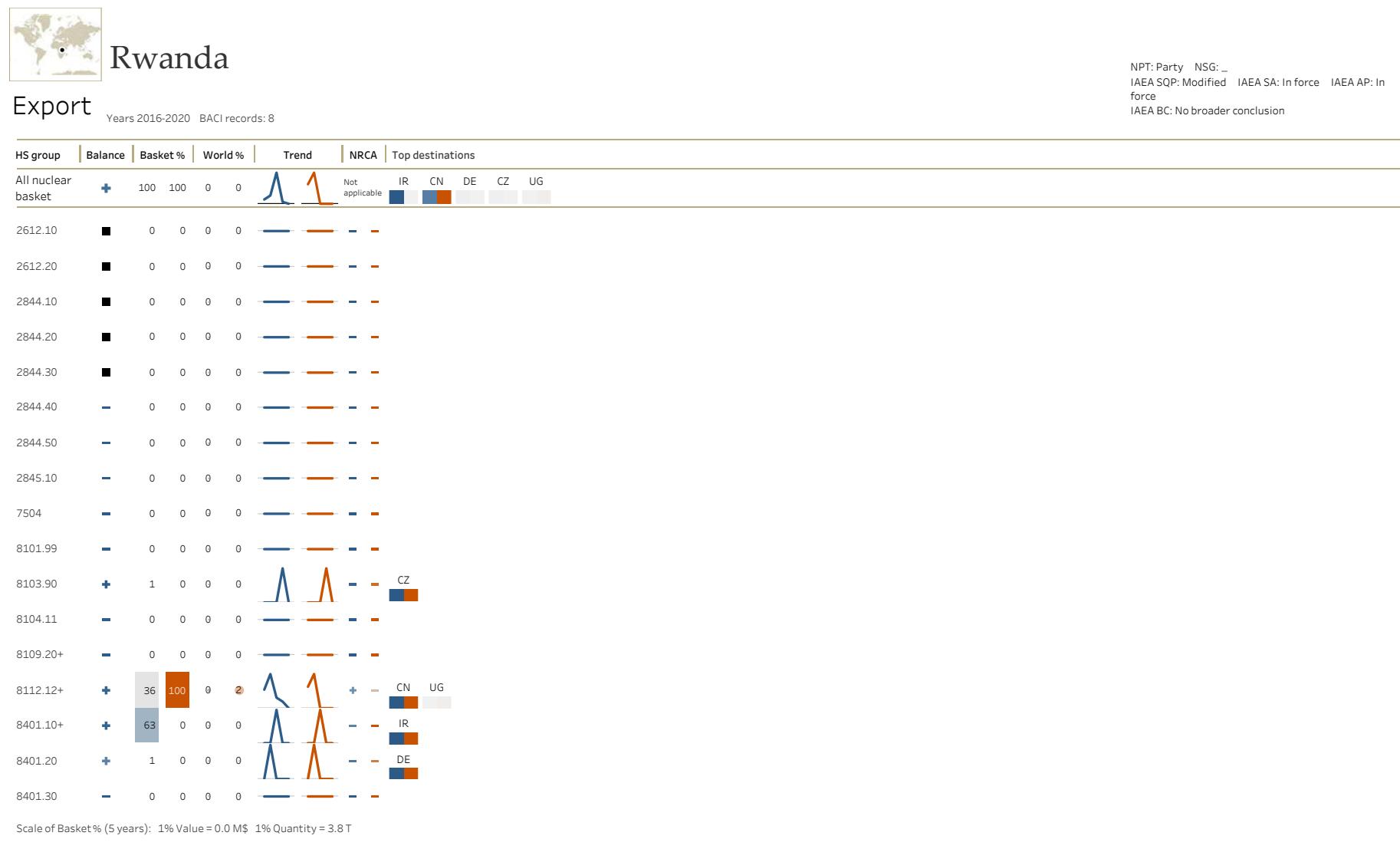


Figure 150: Rwanda

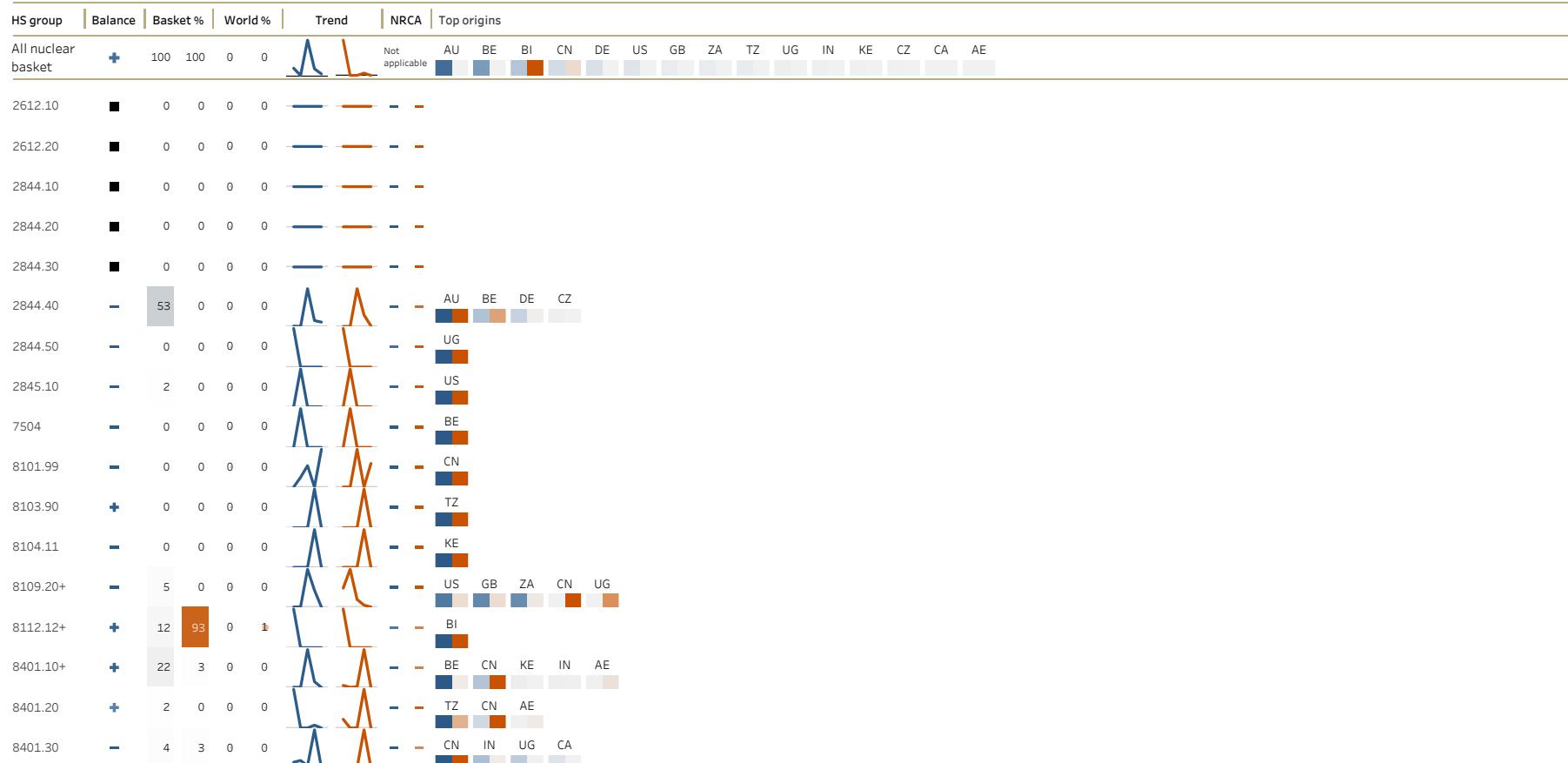


# Rwanda

## Import

Years 2016-2020 BACI records: 33

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 1.6 T



## Saint Kitts and Nevis

### Export

Years 2016-2020 BACI records: 2

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion

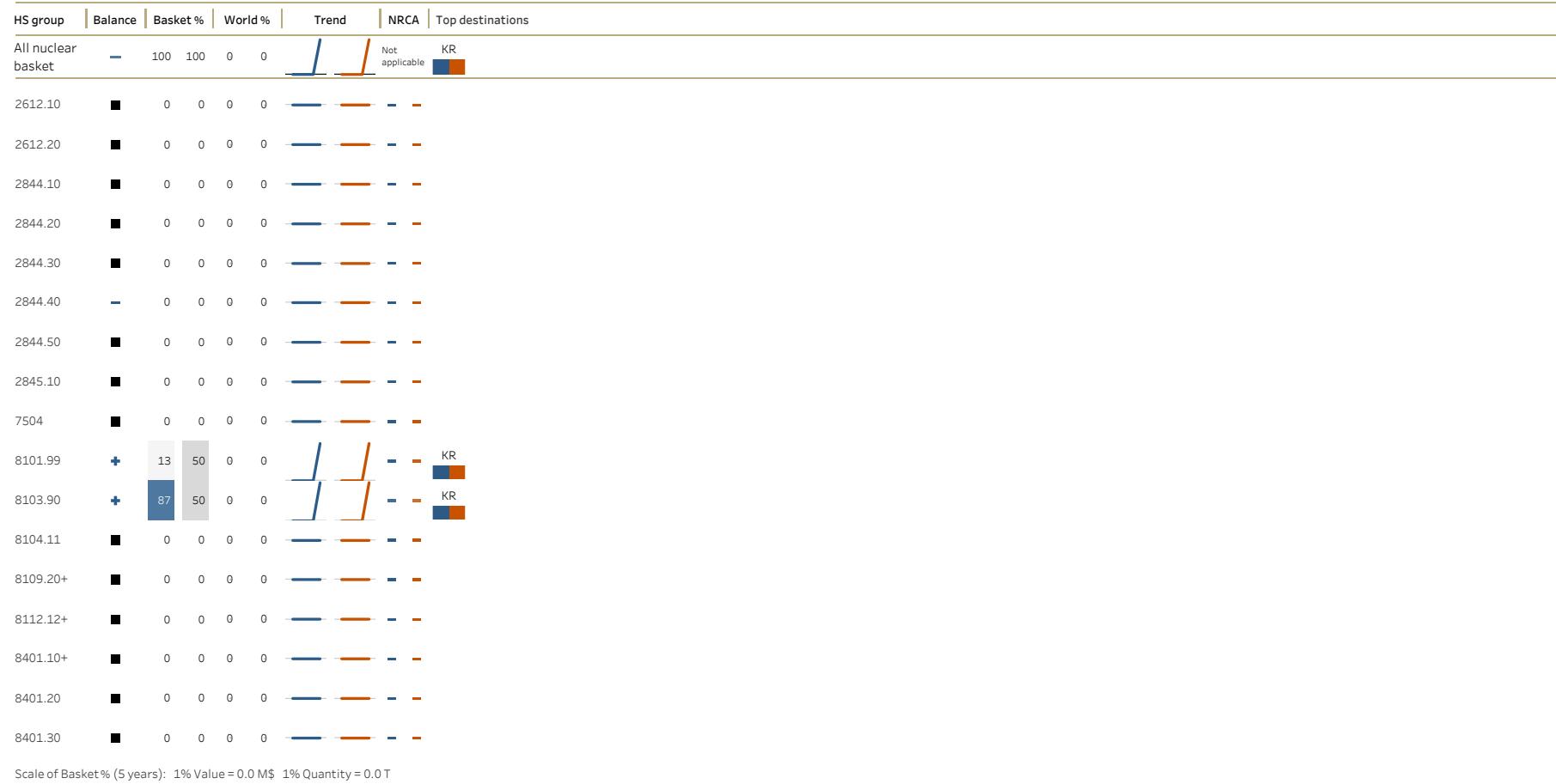


Figure 151: Saint Kitts and Nevis

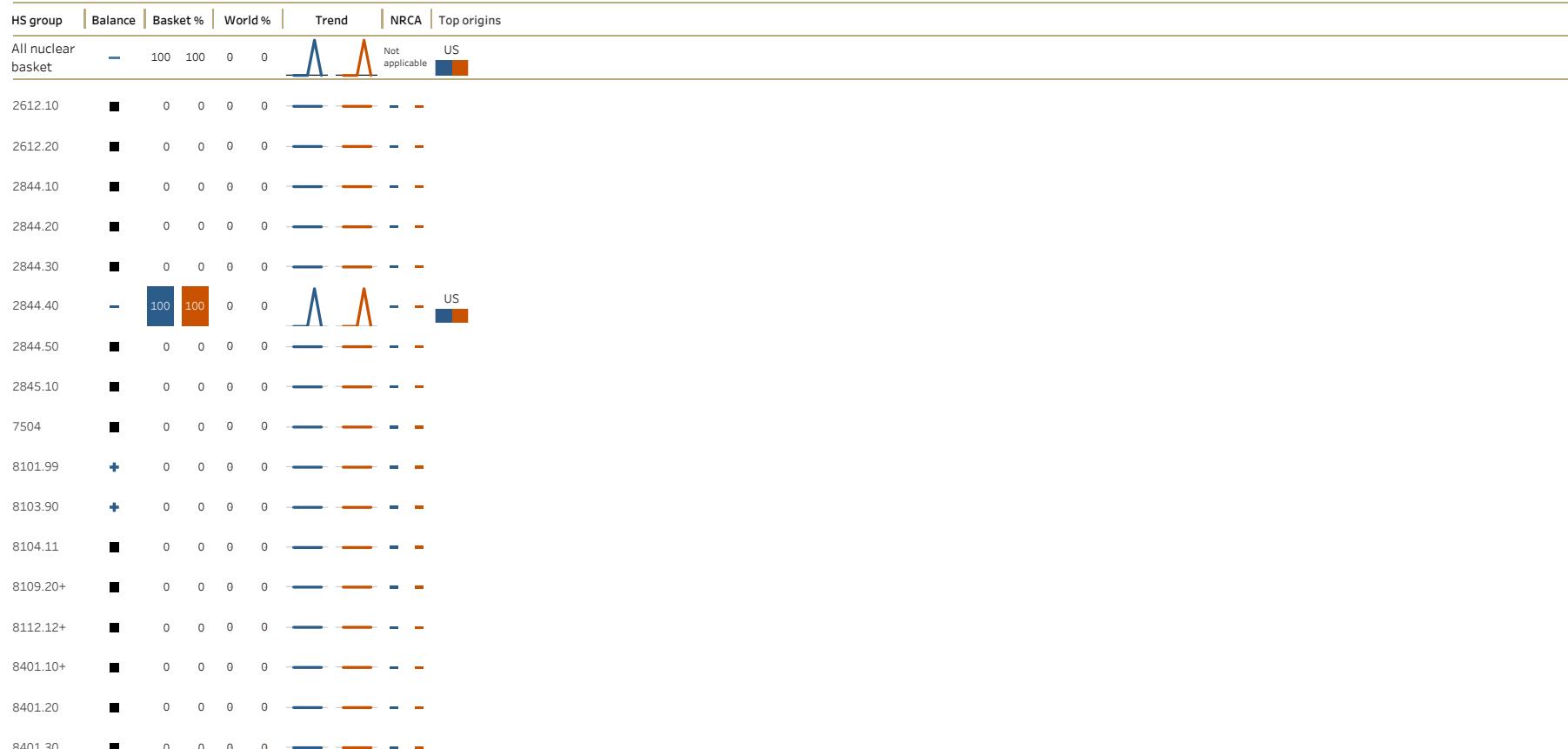


## Saint Kitts and Nevis

### Import

Years 2016-2020 BACI records: 1

NPT: Party NSG: \_  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
force  
IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.0 T



## Saint Lucia

### Export

Years 2016-2020 BACI records: 1

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion

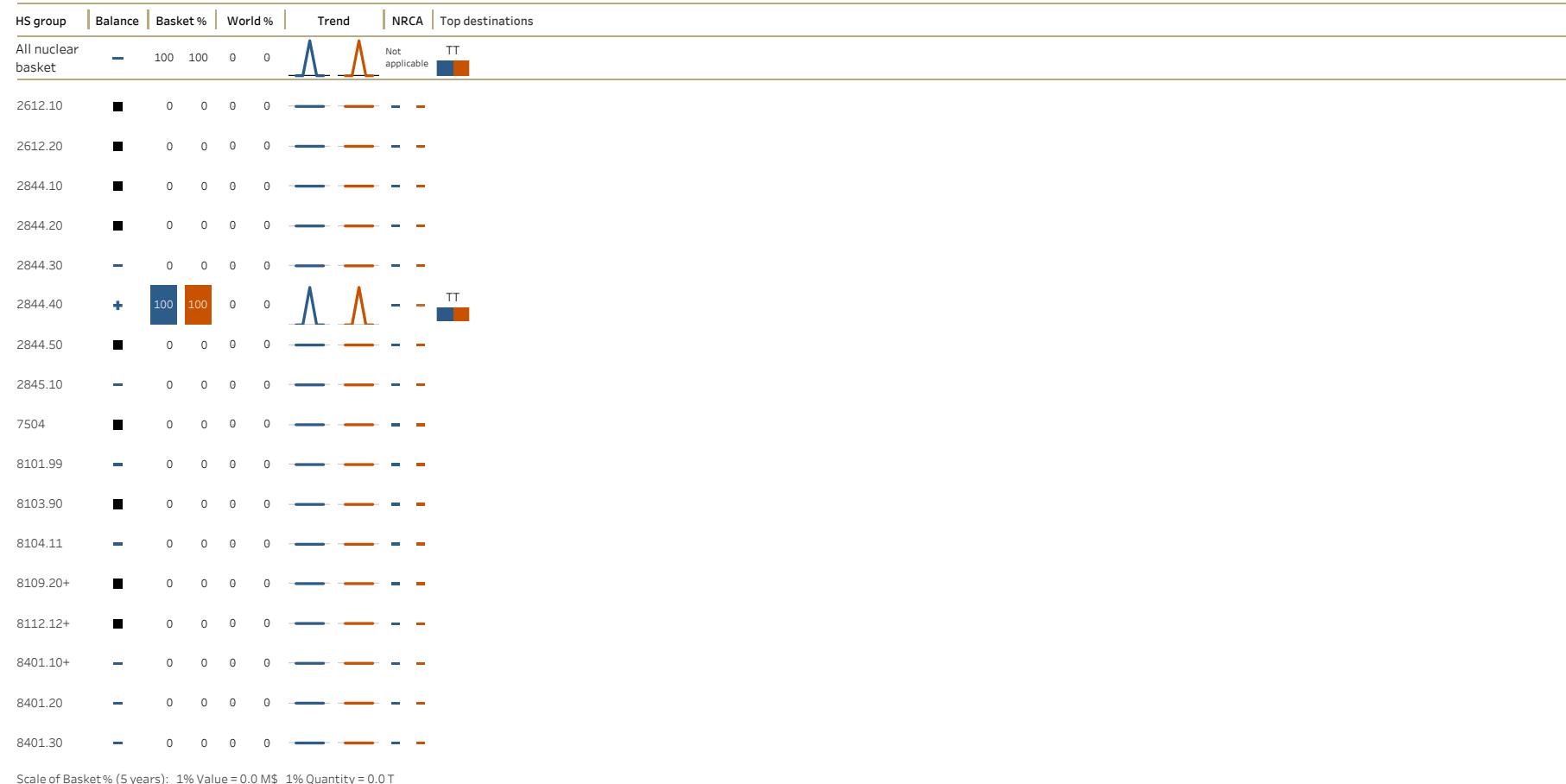


Figure 152: Saint Lucia

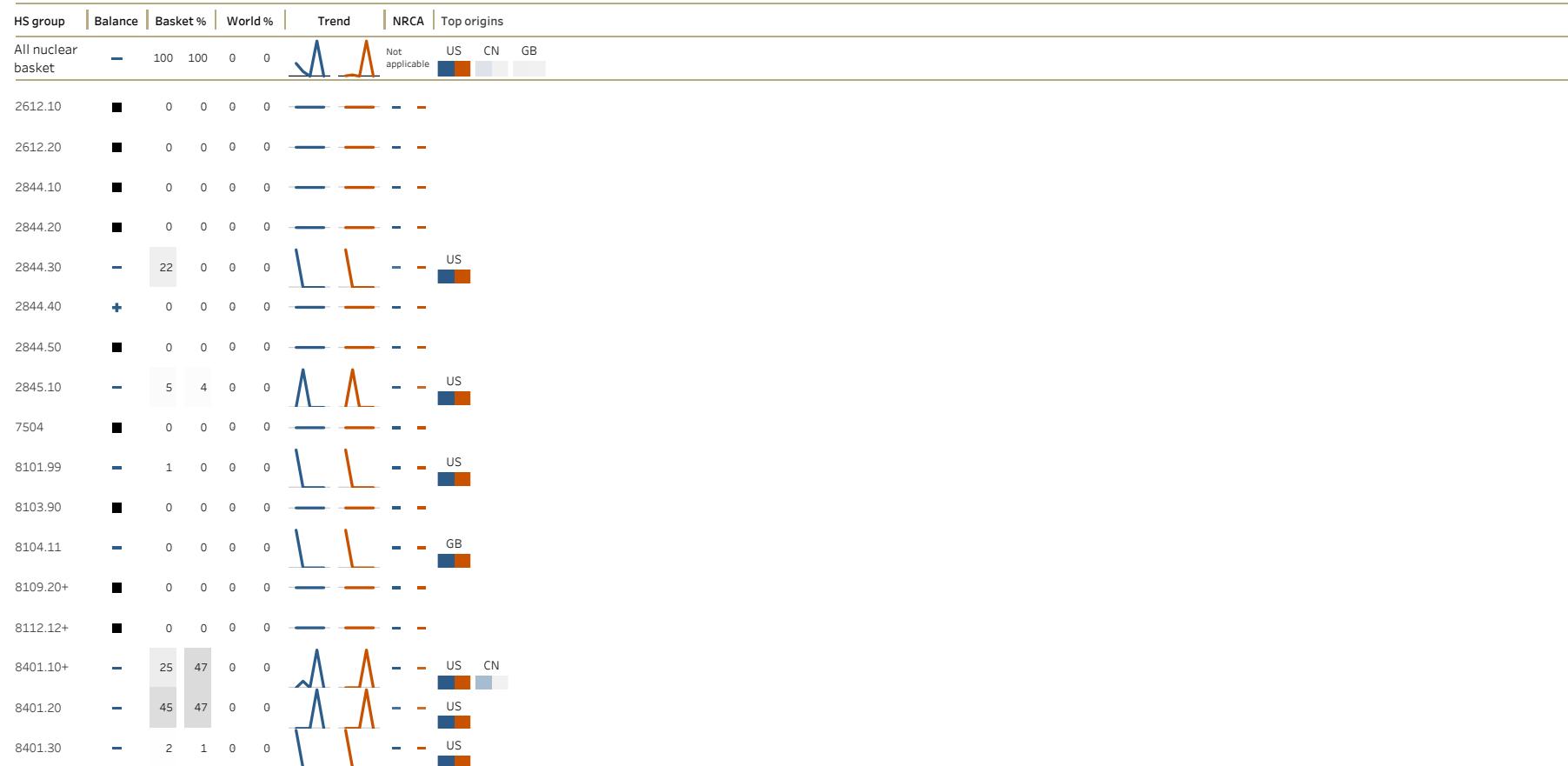


## Saint Lucia

### Import

Years 2016-2020 BACI records: 8

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: —  
 IAEA BC: No broader conclusion



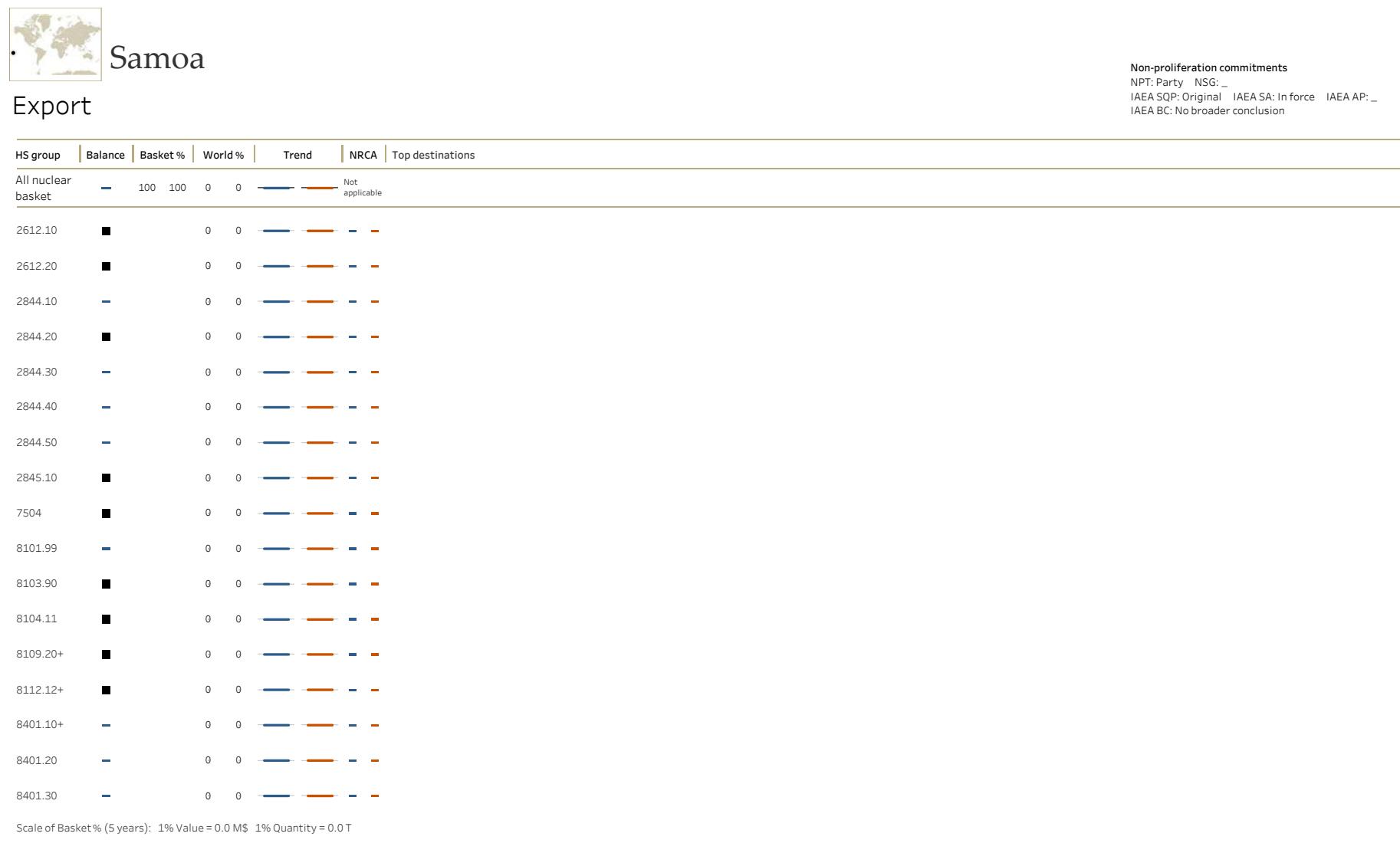


Figure 153: Samoa

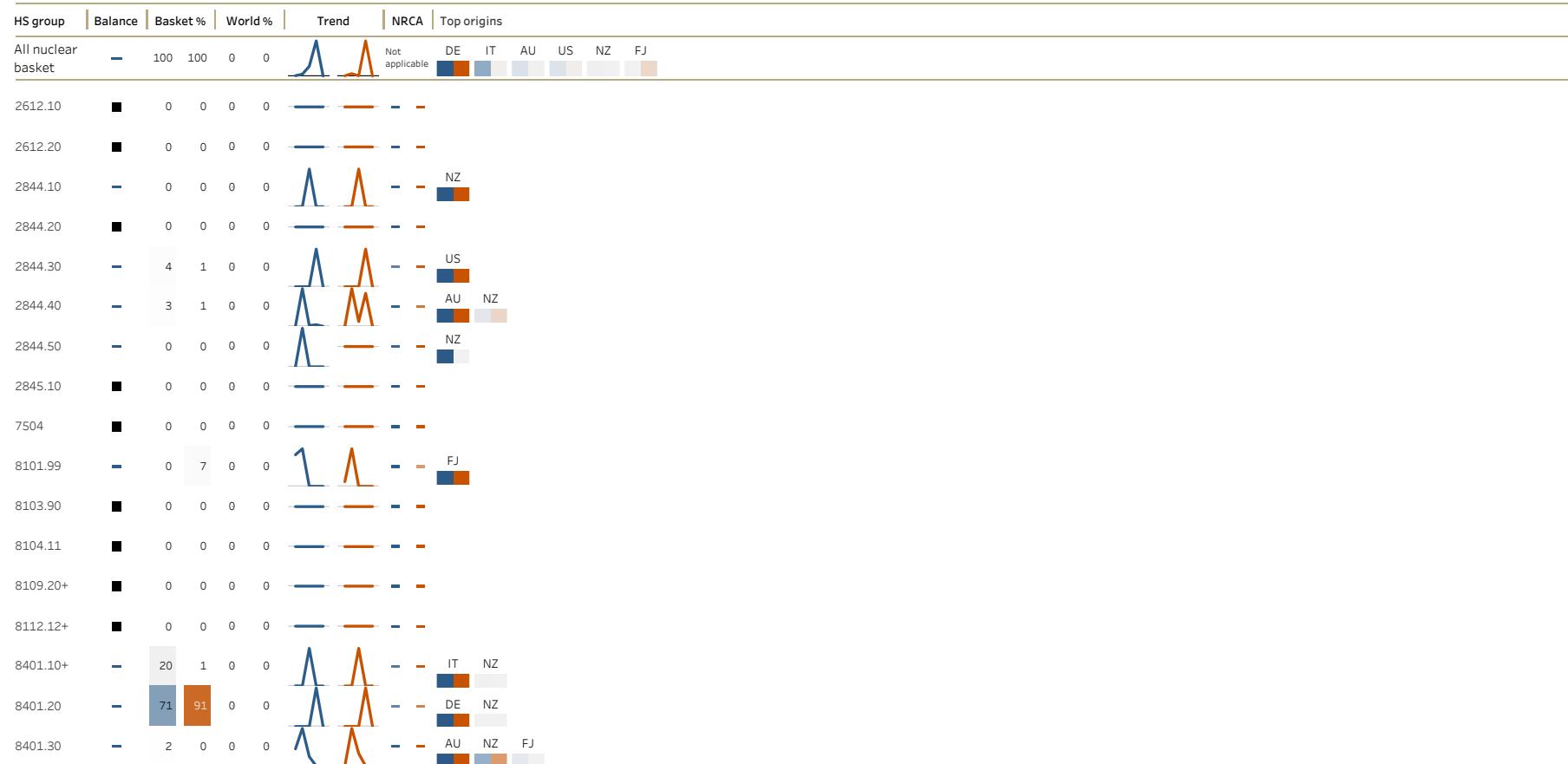


# Samoa

## Import

Years 2016-2020 BACI records: 18

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.2 T



## San Marino

### Export

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion

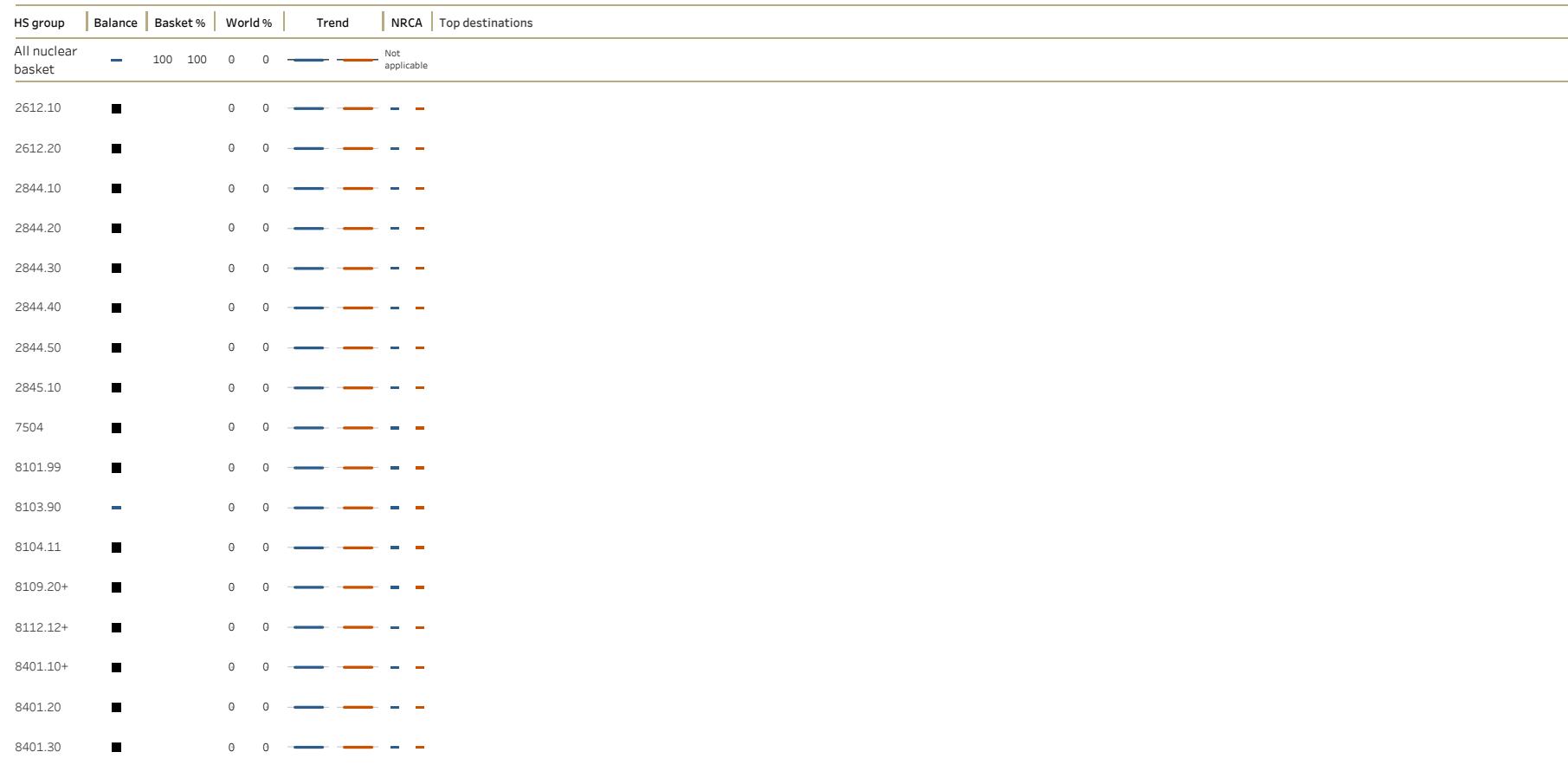


Figure 154: San Marino

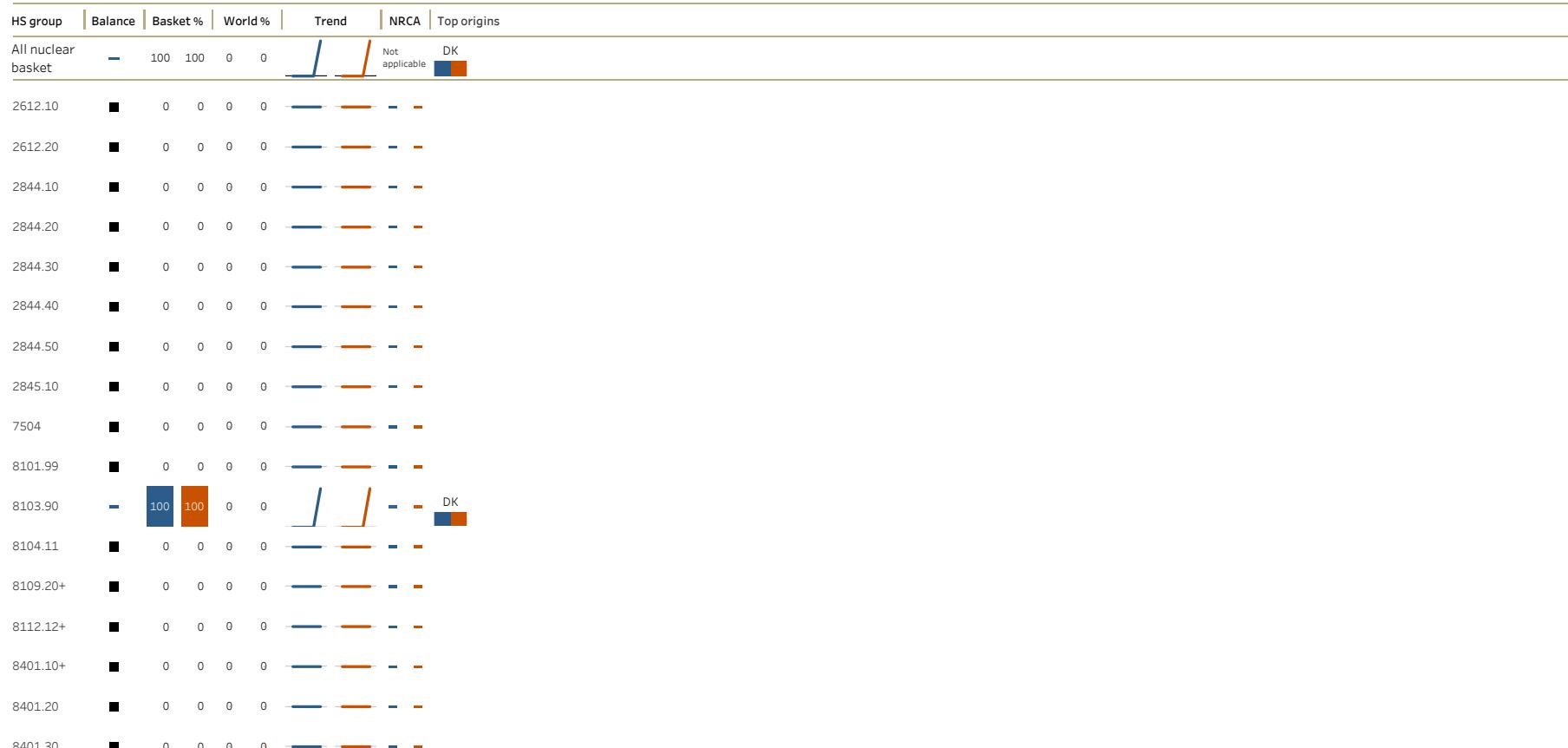


## San Marino

### Import

Years 2016-2020 BACI records: 1

Non-proliferation commitments  
NPT: Party NSG: –  
IAEA SQP: Modified IAEA SA: In force IAEA AP: –  
IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.0 T

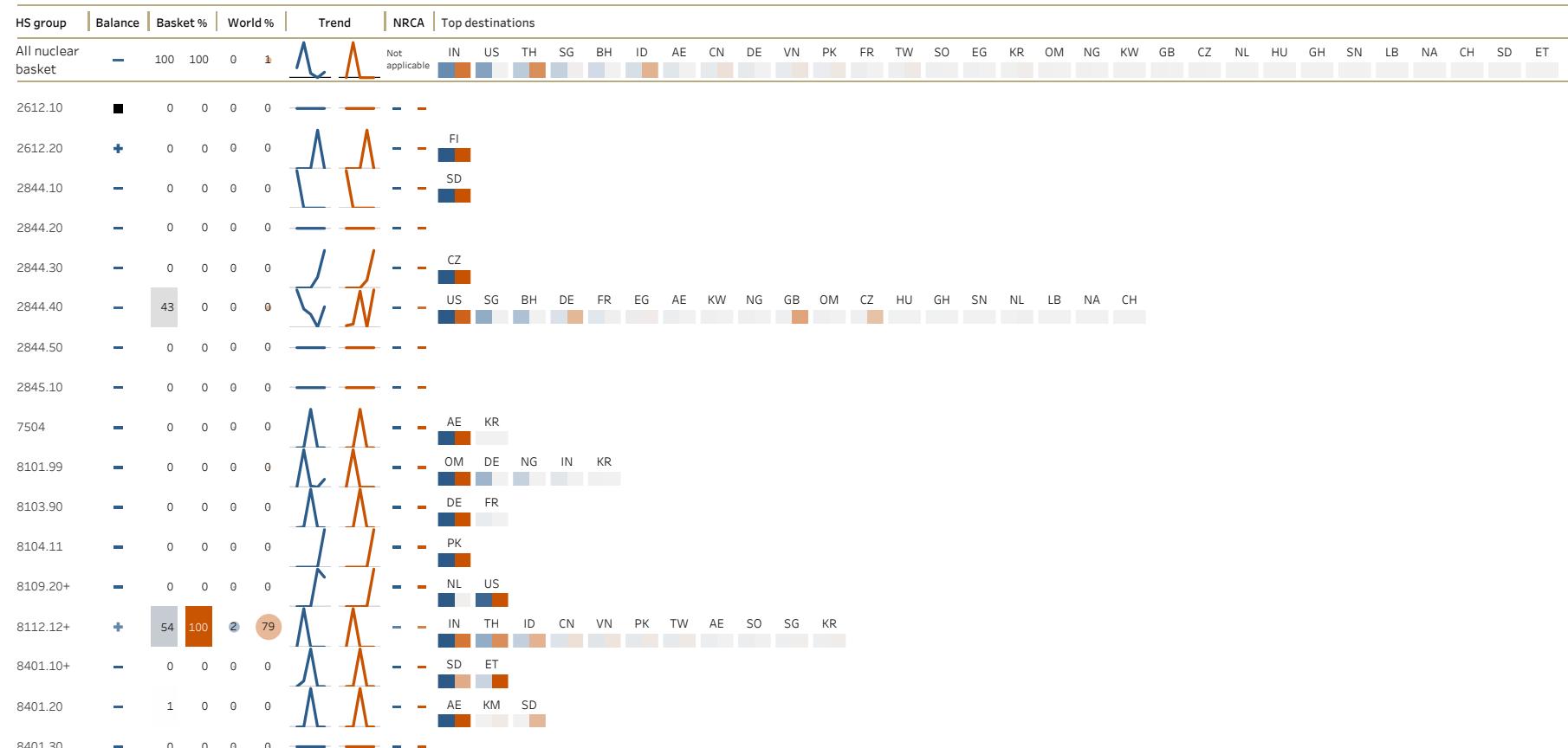


## Saudi Arabia

### Export

Years 2016-2020 BACI records: 75

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.1 M\$ 1% Quantity = 188.2 T

Figure 155: Saudi Arabia

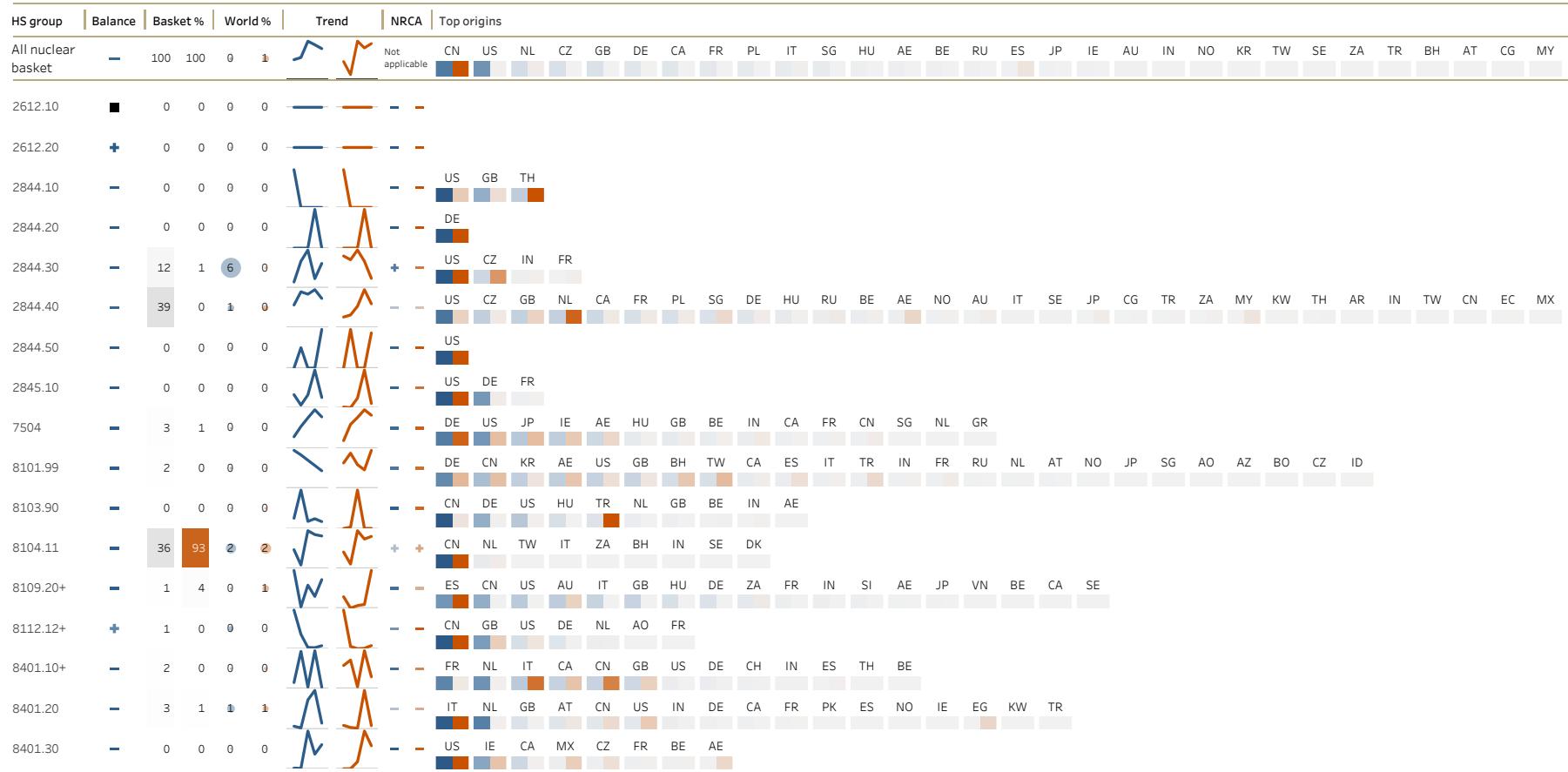


## Saudi Arabia

### Import

Years 2016-2020 BACI records: 405

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion



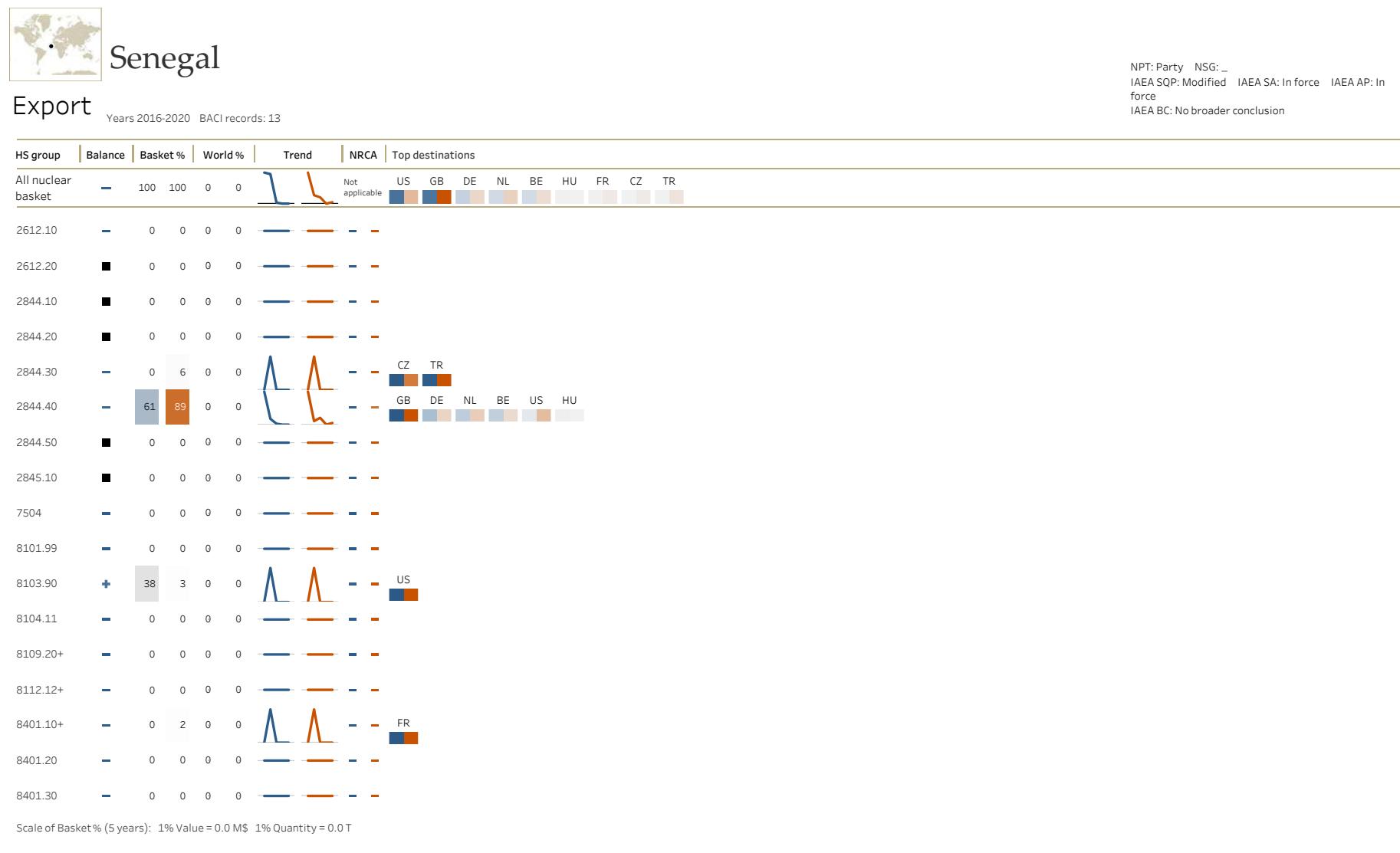


Figure 156: Senegal

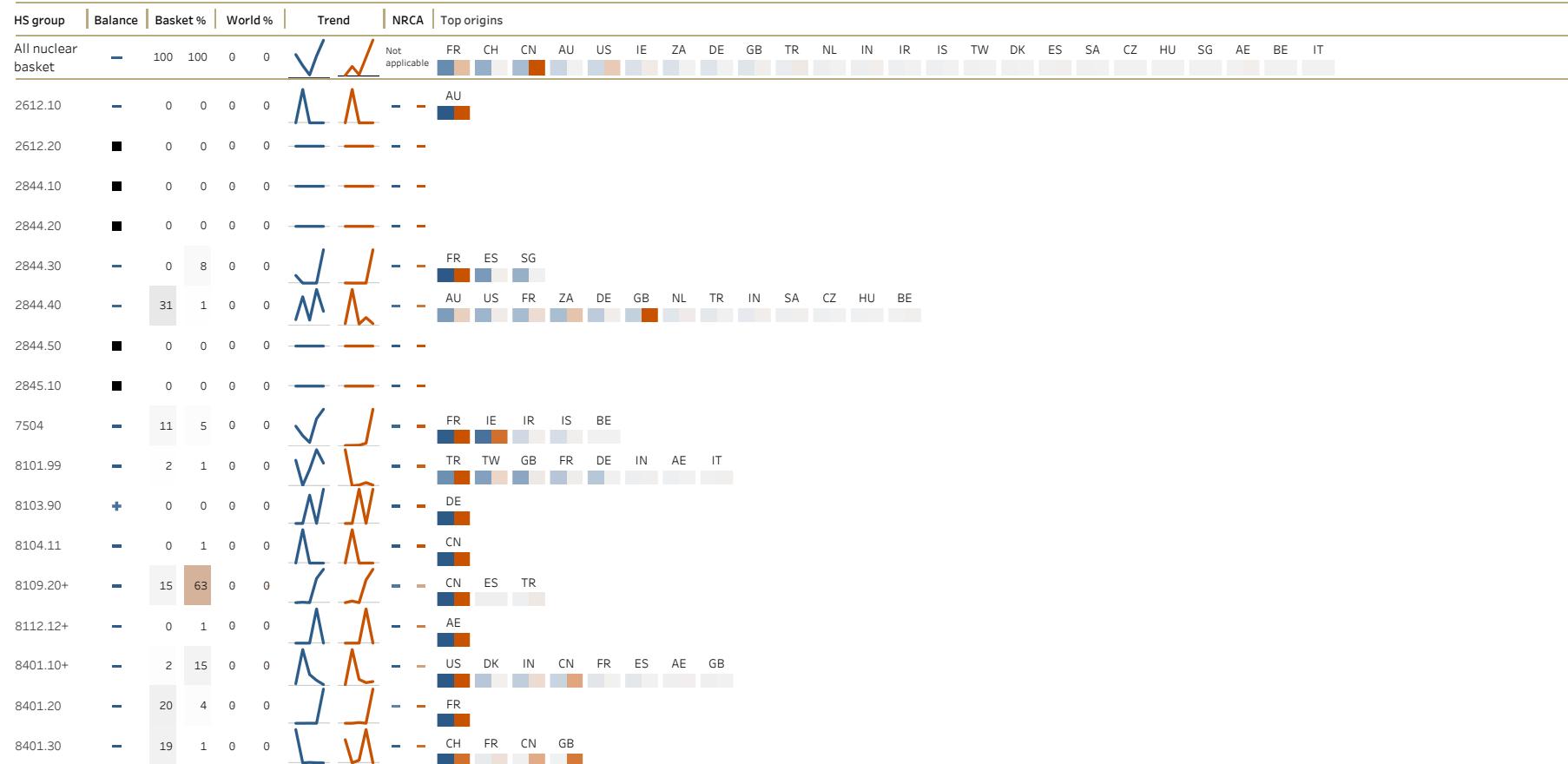


# Senegal

## Import

Years 2016-2020 BACI records: 86

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 2.3 T

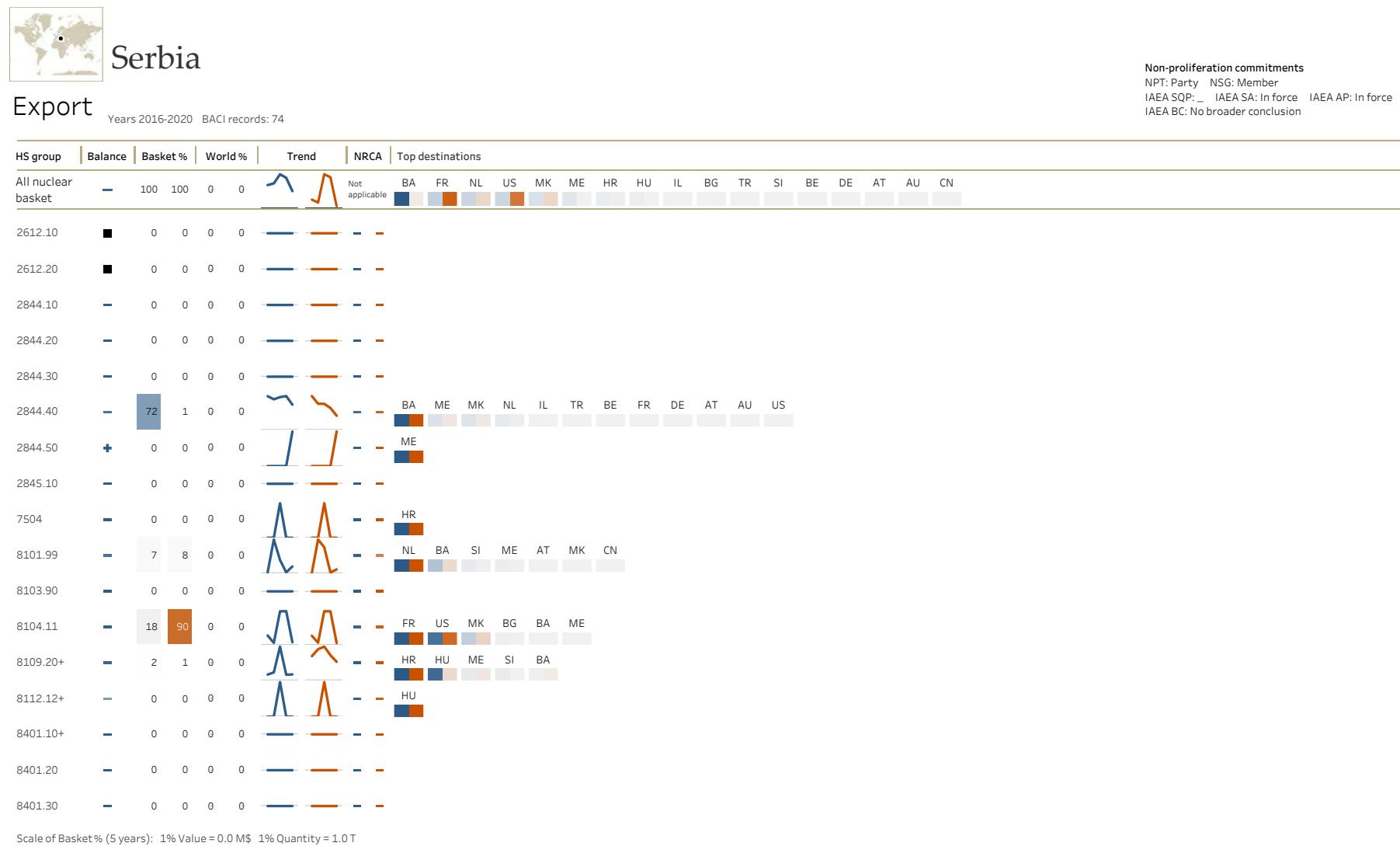


Figure 157: Serbia

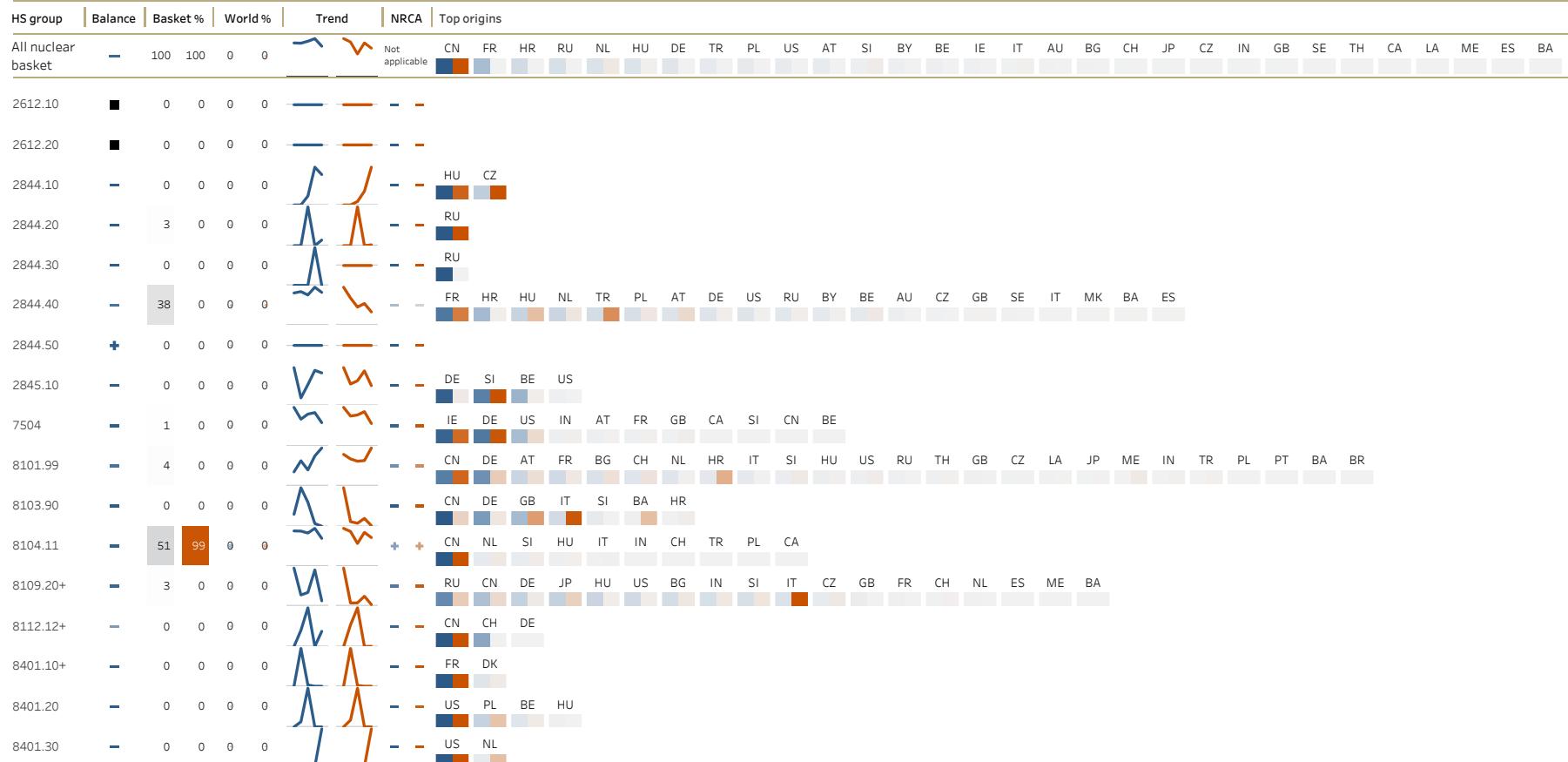


# Serbia

## Import

Years 2016-2020 BACI records: 311

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.2 M\$ 1% Quantity = 43.3 T

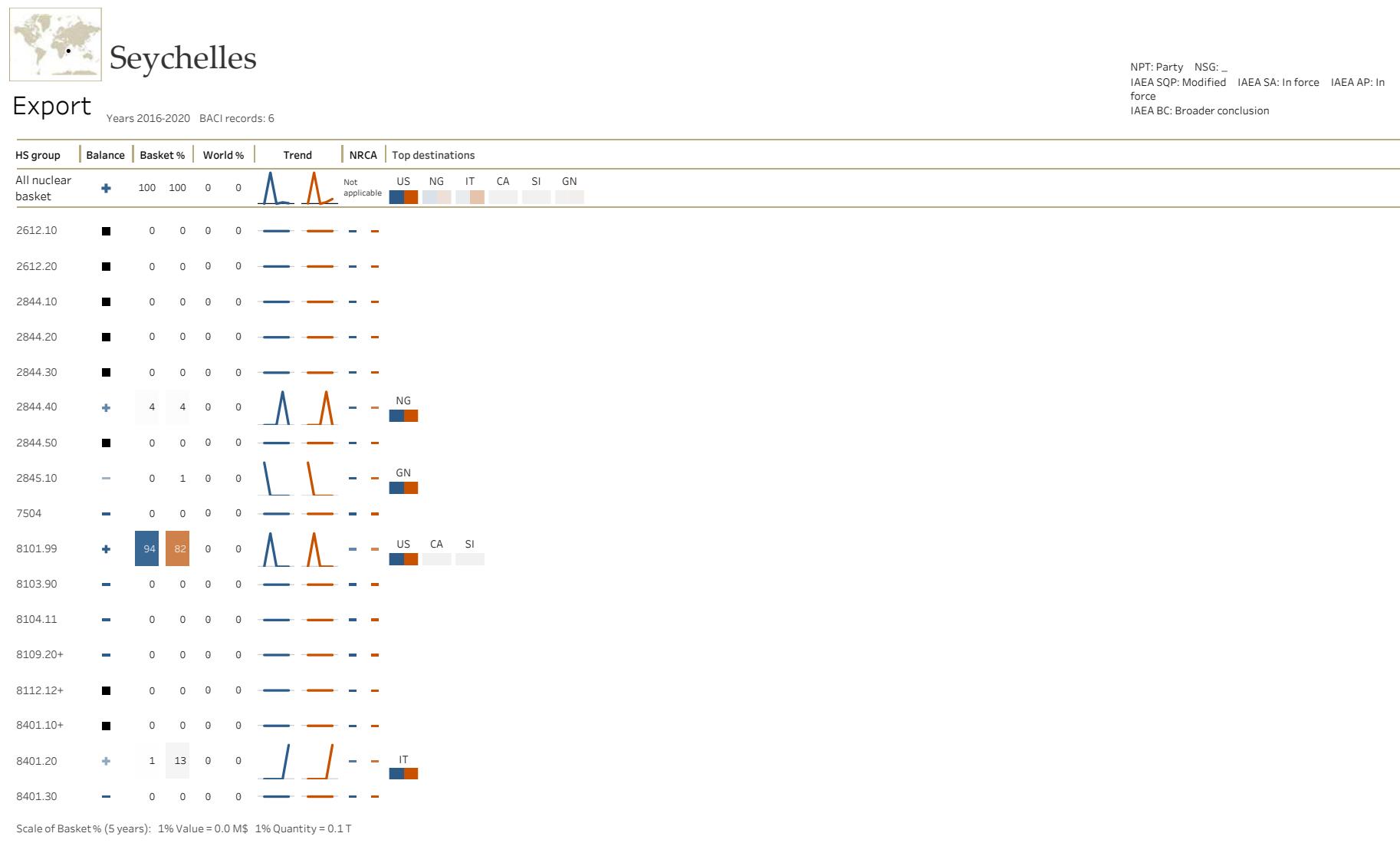


Figure 158: Seychelles

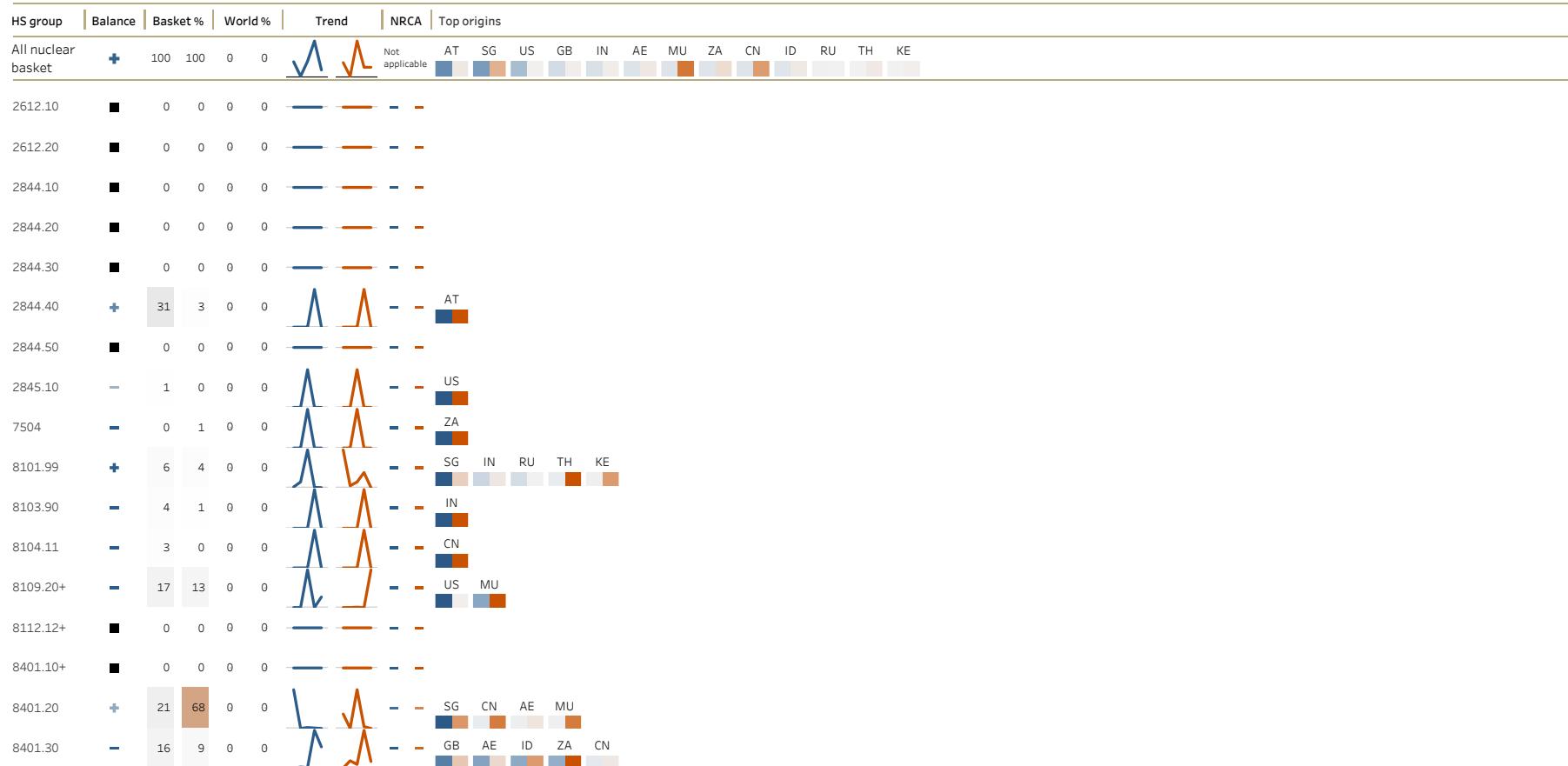


# Seychelles

## Import

Years 2016-2020 BACI records: 23

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.0 T



## Sierra Leone

### Export

Years 2016-2020 BACI records: 4

NPT: Party NSG: –  
IAEA SQP: Original IAEA SA: In force IAEA AP:  
Approved  
IAEA BC: No broader conclusion

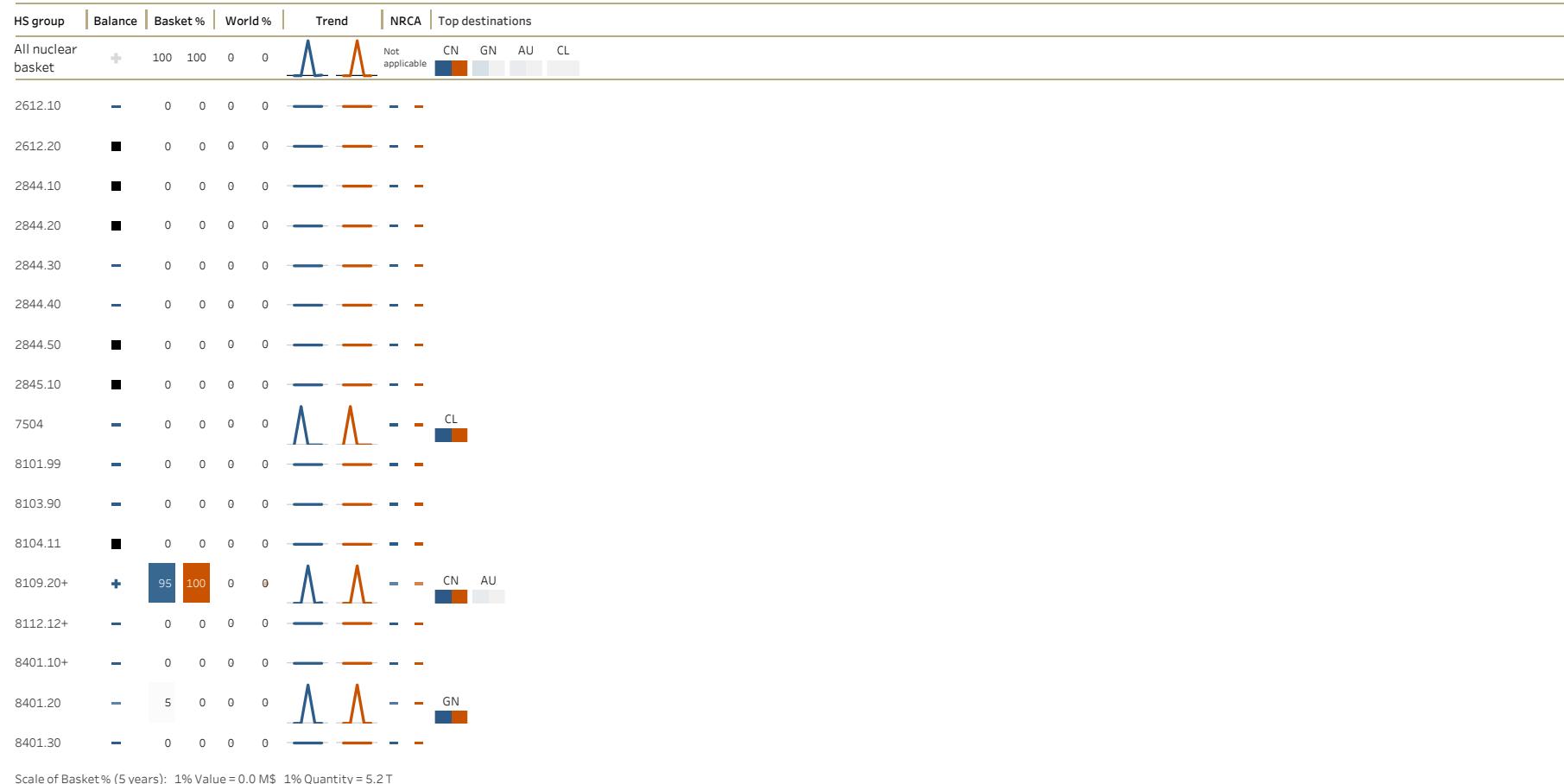


Figure 159: Sierra Leone

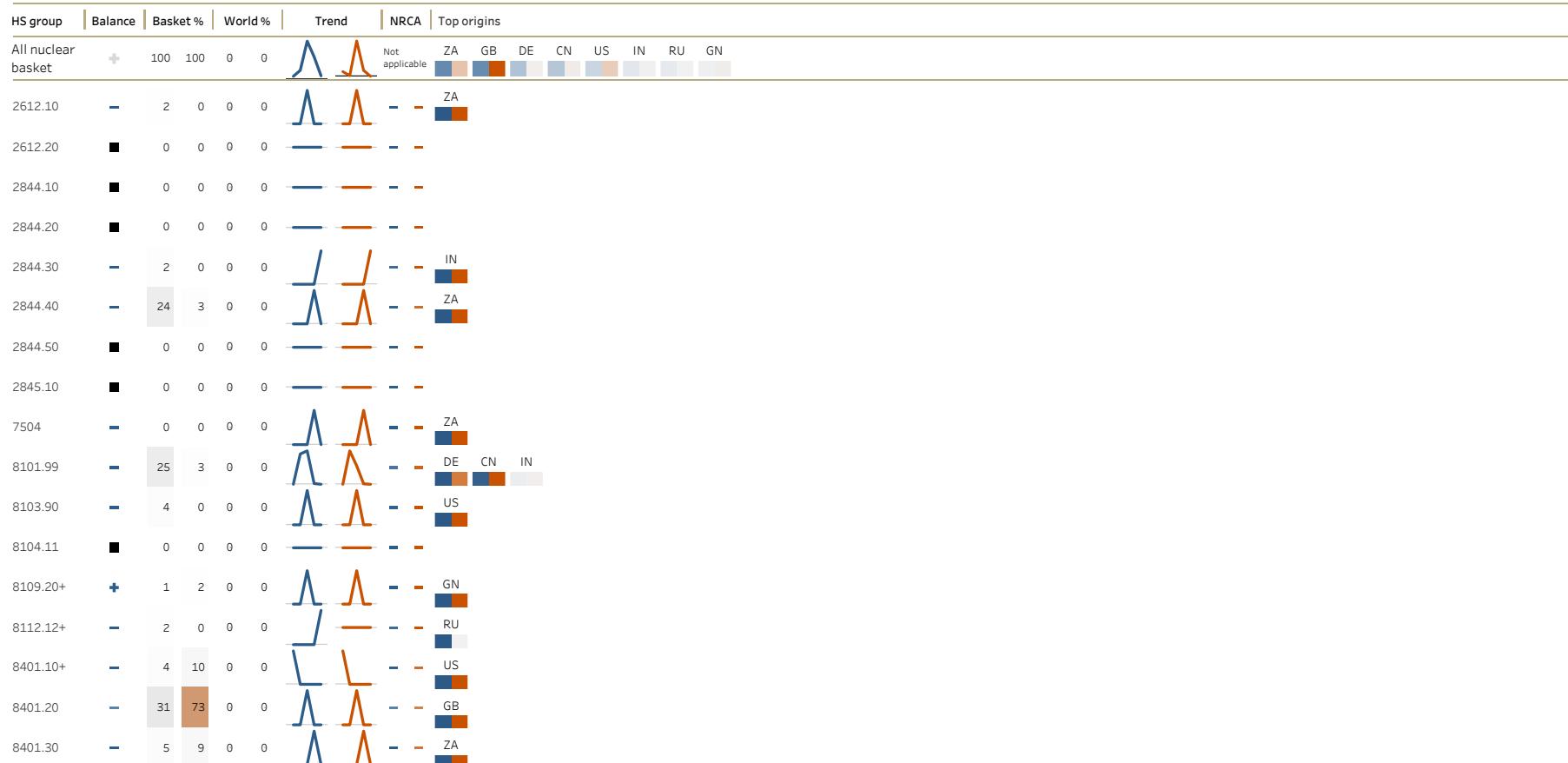


# Sierra Leone

## Import

Years 2016-2020 BACI records: 13

NPT: Party NSG: –  
IAEA SQP: Original IAEA SA: In force IAEA AP:  
Approved  
IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.1 T



Figure 160: Singapore

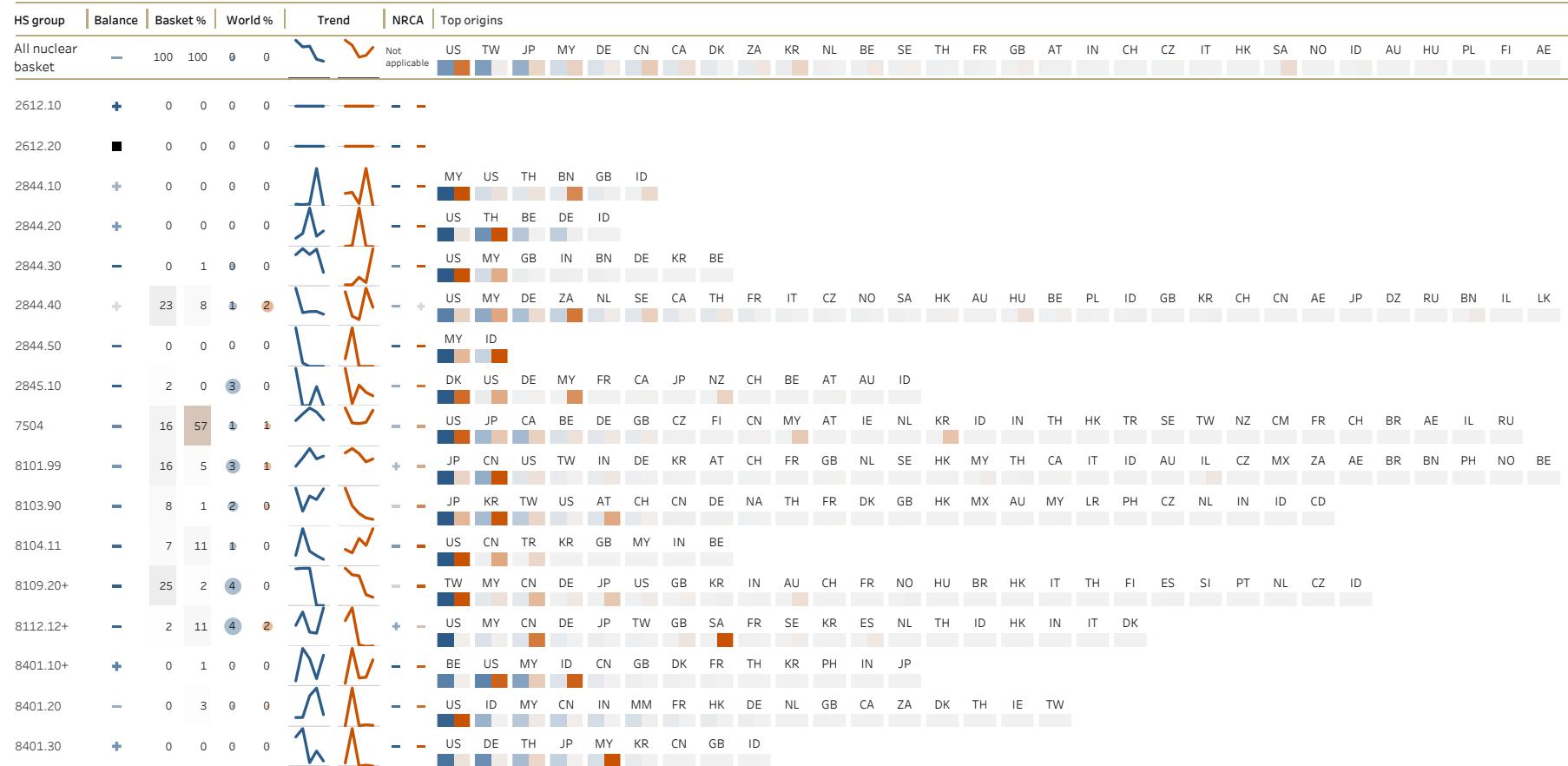


# Singapore

## Import

Years 2016-2020 BACI records: 730

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 3.8 M\$ 1% Quantity = 33.4 T



## Slovakia

### Export

Years 2016-2020 BACI records: 262

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion

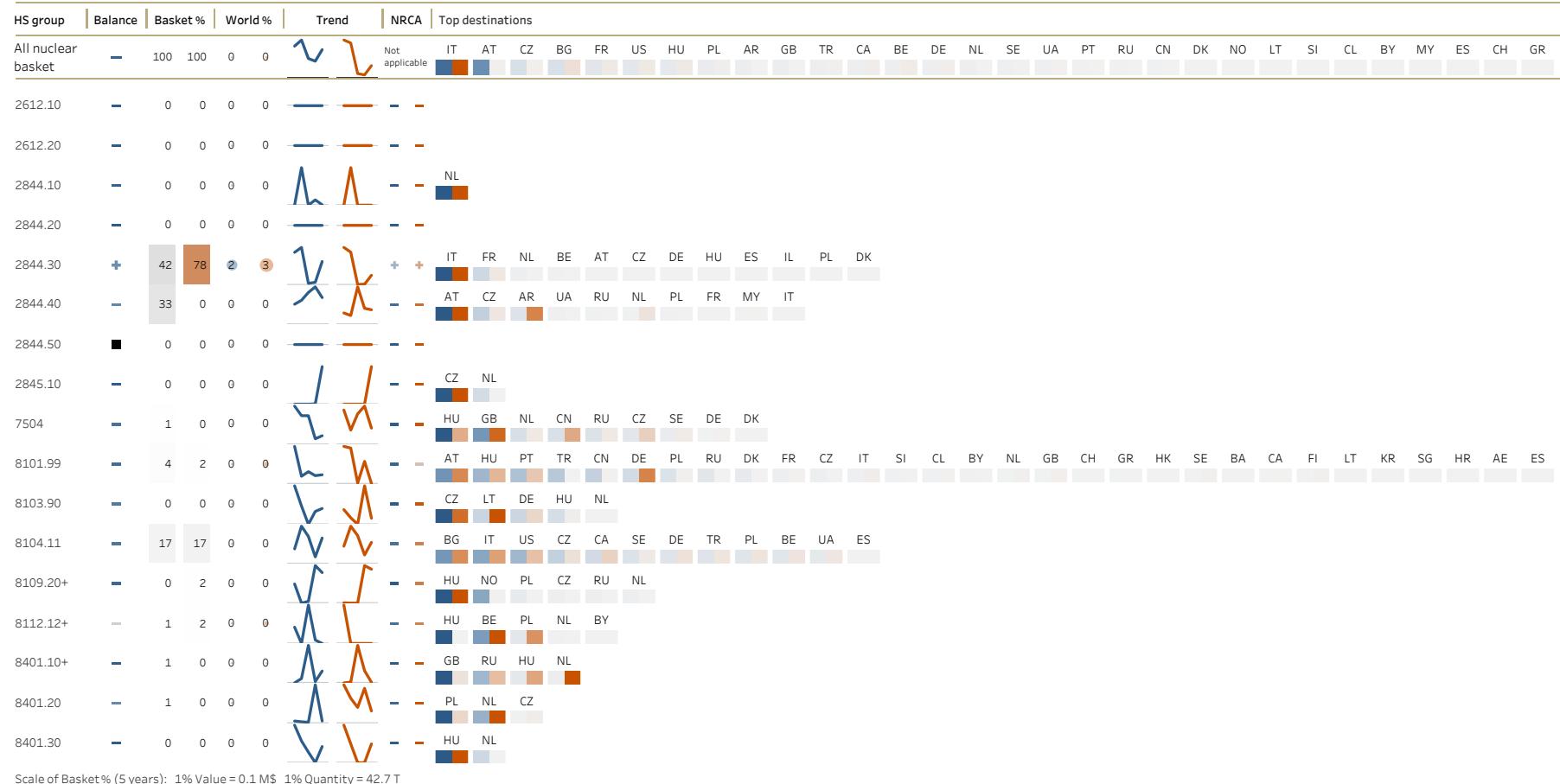


Figure 161: Slovakia

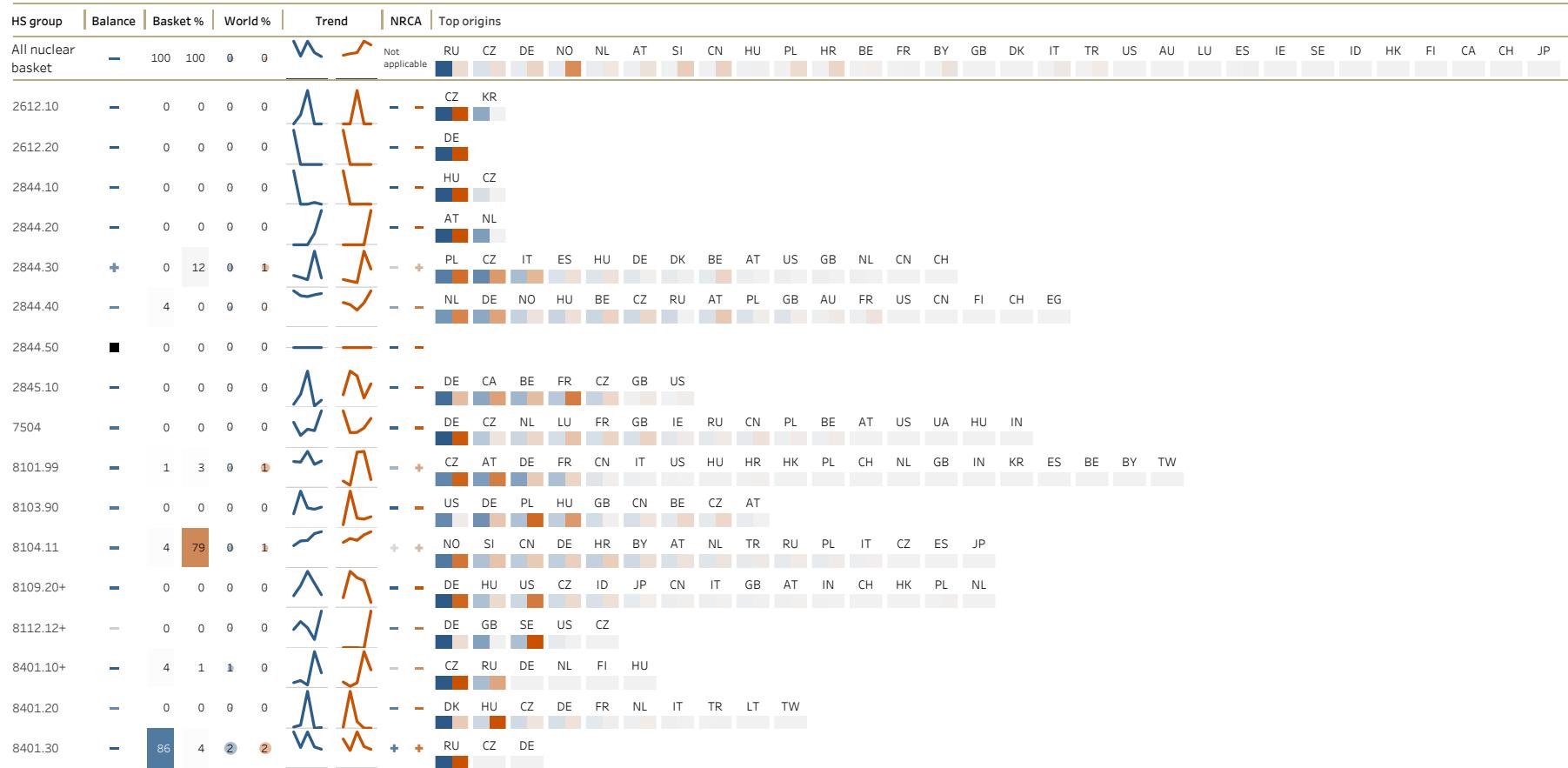


# Slovakia

## Import

Years 2016-2020 BACI records: 442

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 4.3 M\$ 1% Quantity = 81.6 T

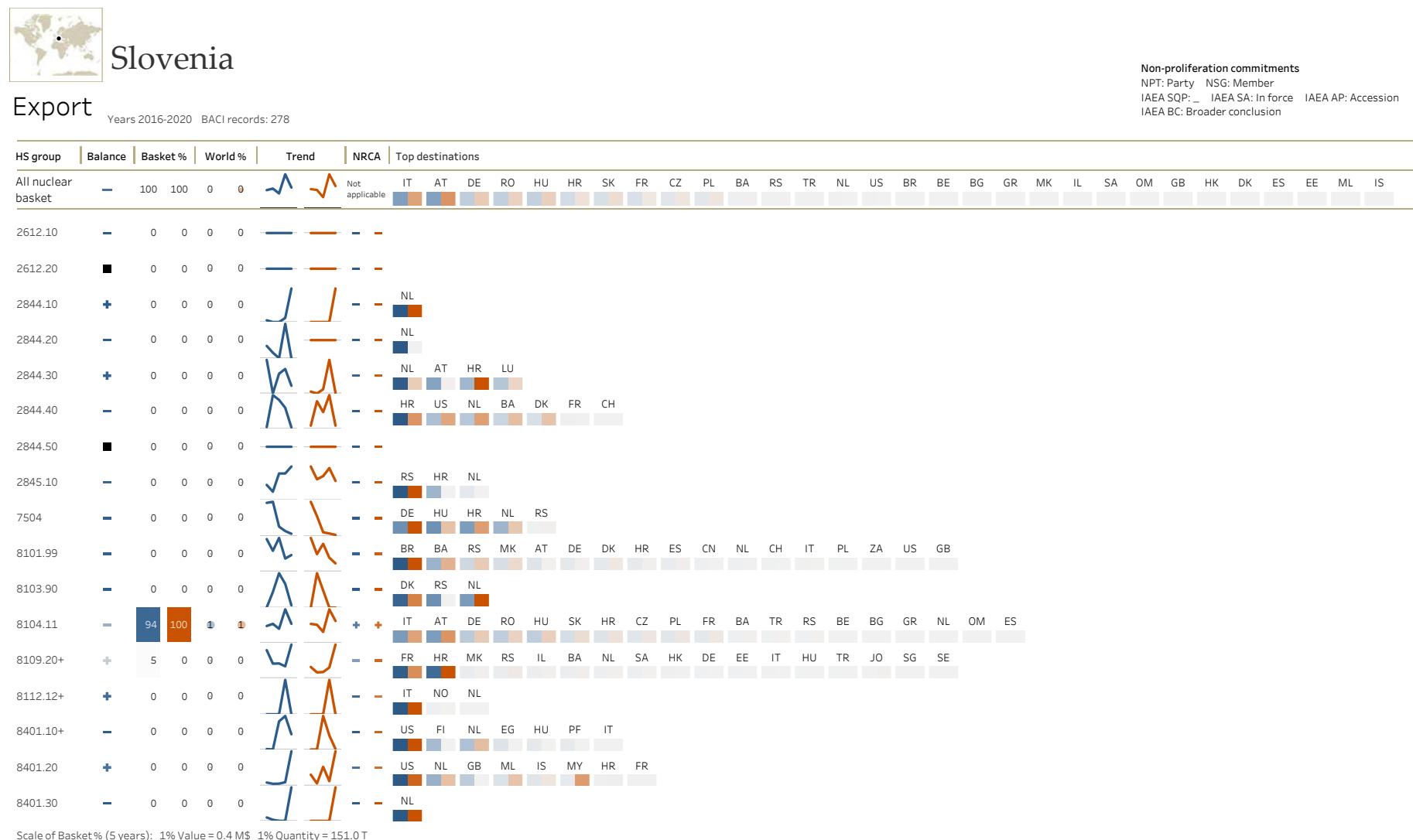


Figure 162: Slovenia

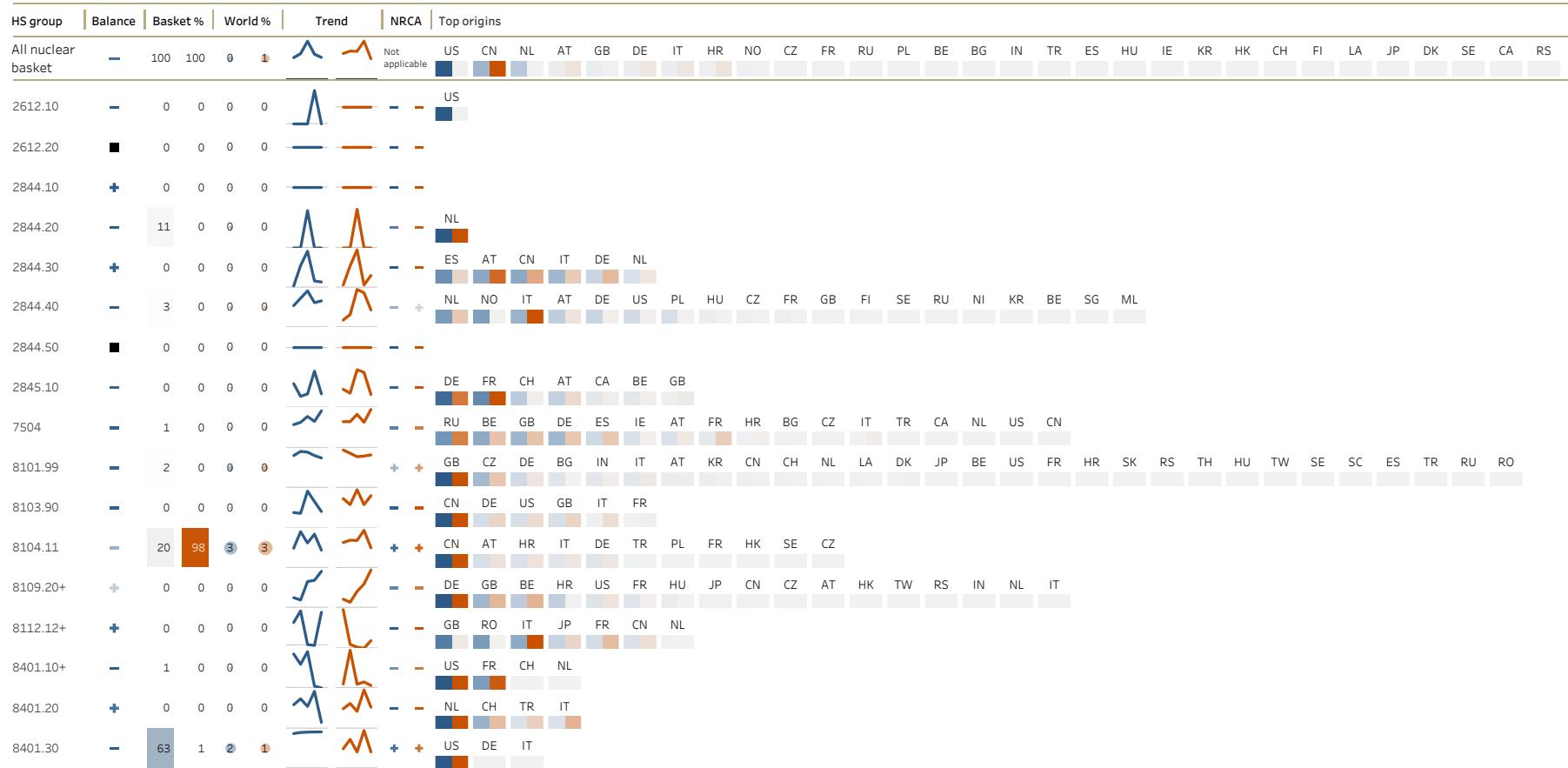


# Slovenia

## Import

Years 2016-2020 BACI records: 416

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: Accession  
 IAEA BC: Broader conclusion



Scale of Basket % (5 years): 1% Value = 4.0 M\$ 1% Quantity = 364.5 T

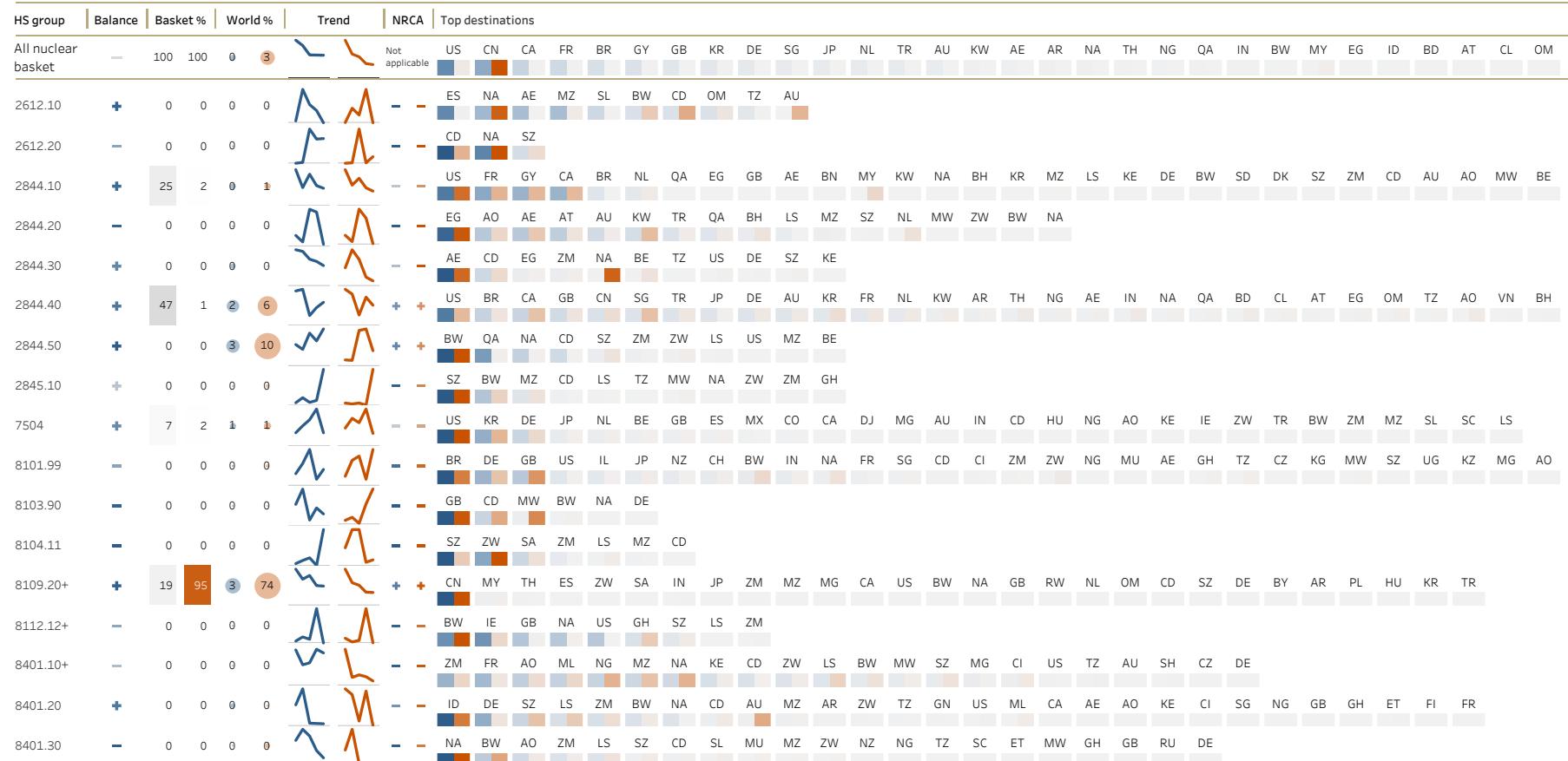


## South Africa

### Export

Years 2016-2020 BACI records: 957

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 4.2 M\$ 1% Quantity = 1,115.6 T

Figure 163: South Africa

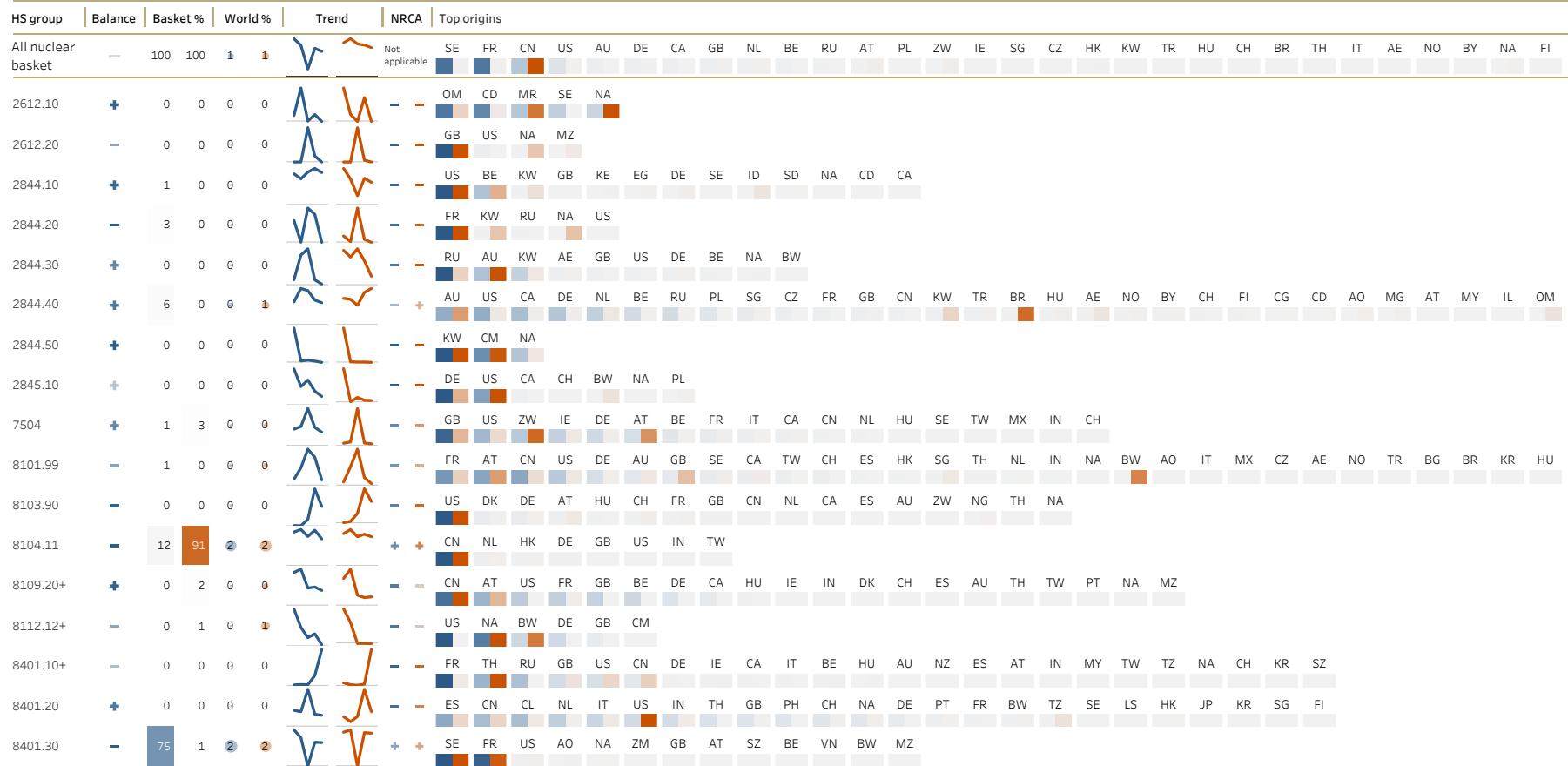


## South Africa

### Import

Years 2016-2020 BACI records: 706

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 4.9 M\$ 1% Quantity = 265.1 T



# Spain

## Export

Years 2016-2020 BACI records: 893

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

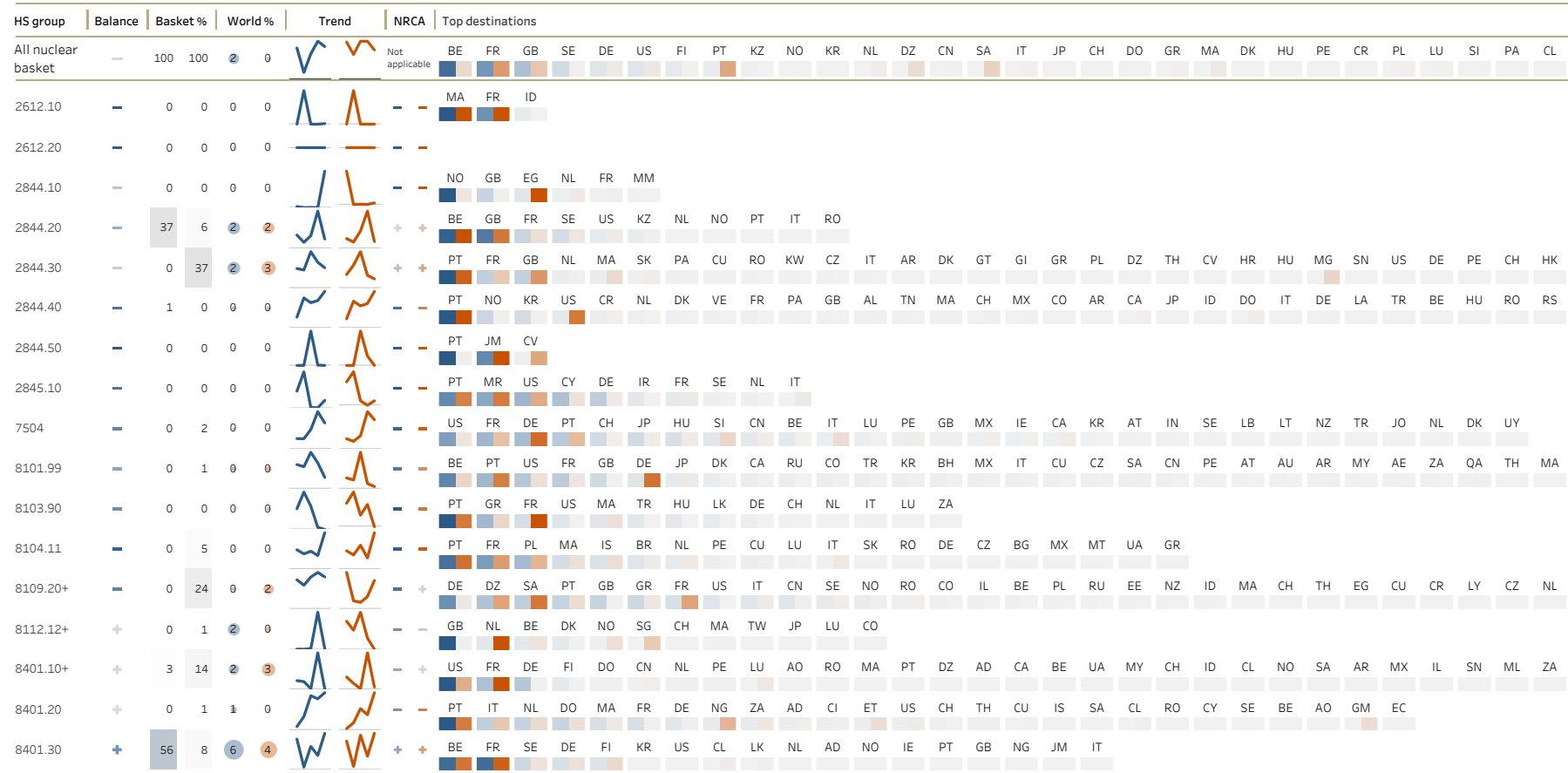


Figure 164: Spain

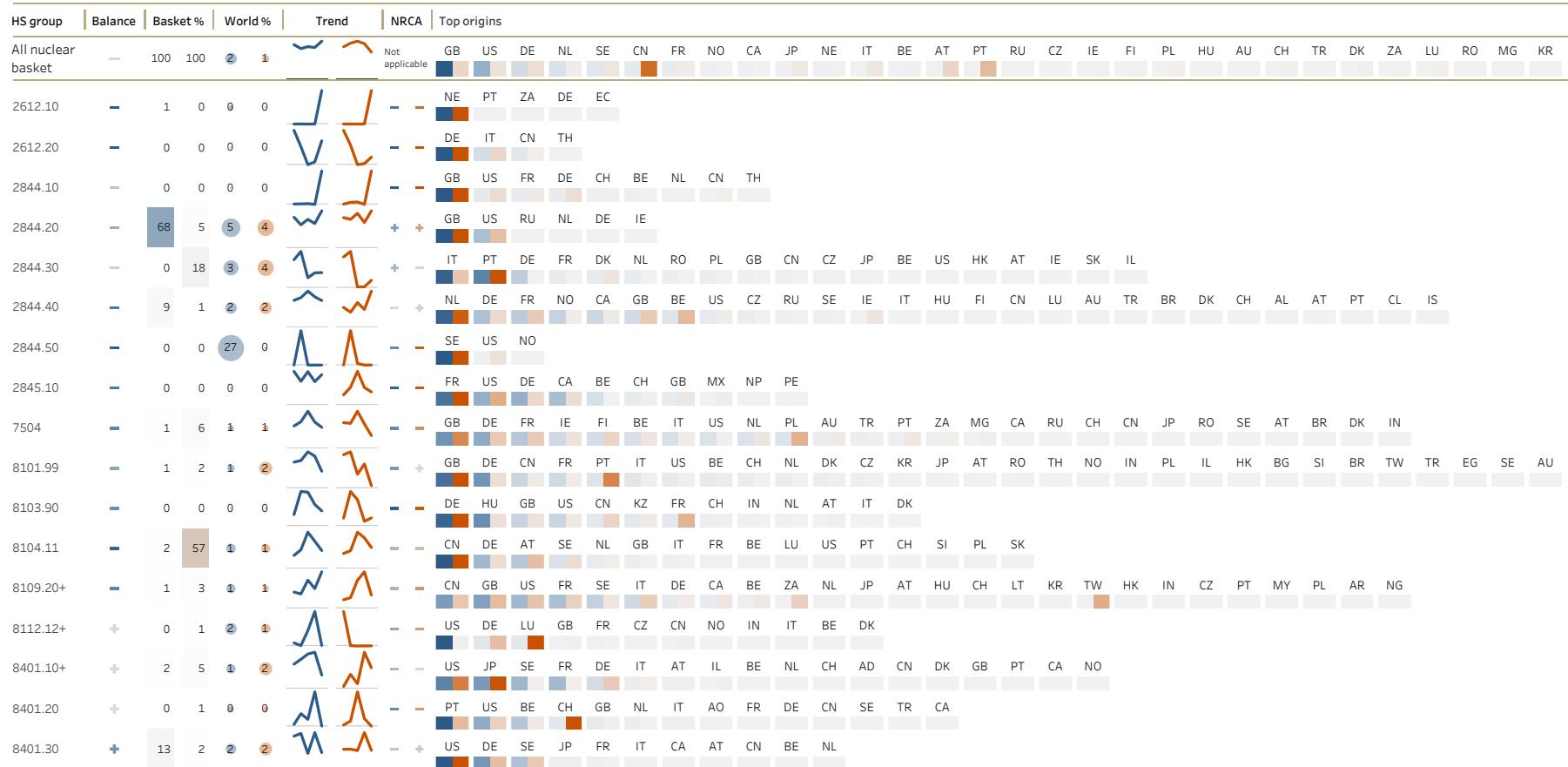


# Spain

## Import

Years 2016-2020 BACI records: 808

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 19.0 M\$ 1% Quantity = 256.8 T

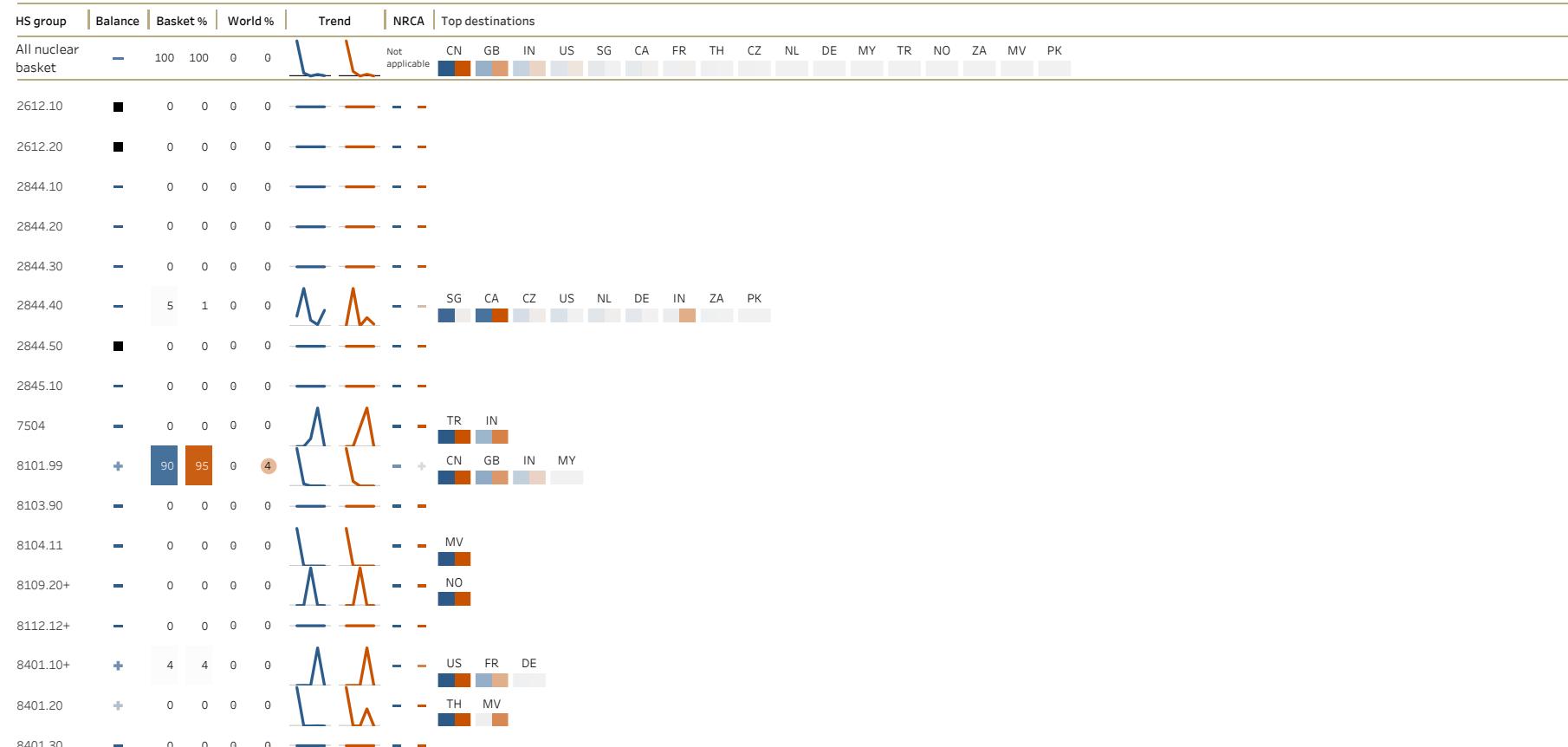


## Sri Lanka

### Export

Years 2016-2020 BACI records: 34

**Non-proliferation commitments**  
 NPT: Party NSG:—  
 IAEA SQP:— IAEA SA: In force IAEA AP: Approved  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 8.3 T

Figure 165: Sri Lanka



## Sri Lanka

## Import

Years 2016-2020 BACI records: 212

### Non-proliferation commitments

NPT: Party NSG: \_\_\_\_\_  
IAEA SQP: \_\_\_\_\_ IAEA SA: In force IAEA AP: Approved  
IAEA BC: No broader conclusion

The chart displays HS group 8401.30 trends across various countries. The y-axis lists HS codes, and the x-axis shows time periods. Blue lines represent Balance and Basket %, while orange lines represent World %. The Trend section includes a blue line for growth and an orange line for decline. The NRCA section indicates if a country is Not applicable (grey). The Top origins section shows the top 10 countries contributing to the balance.

HS group	Balance	Basket %	World %	Trend	NRCA	Top origins	
All nuclear basket	-	100	100	0	0	Not applicable	IN CA DE GB HU TR US CN FR FI CZ NL ES BY JP AU BE MY HK SG TH ZA NZ AT IE CH KR IT TW IL
2612.10	■ 0 0 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0			
2612.20	■ 0 0 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0			
2844.10	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	TH	IN CA DE GB HU TR FR FI CZ US NL BY BE SG ZA AT CH KR IL	
2844.20	— 0 6 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	MY	IN CA DE GB HU TR FR FI CZ US NL BY BE SG ZA AT CH KR IL	
2844.30	— 1 1 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	IN	IN CA DE GB HU TR FR FI CZ US NL BY BE SG ZA AT CH KR IL	
2844.40	— 90 28 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	IN CA DE GB HU TR FR FI CZ US NL BY BE SG ZA AT CH KR IL	IN CA DE GB HU TR FR FI CZ US NL BY BE SG ZA AT CH KR IL	
2844.50	■ 0 0 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0			
2845.10	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	US GB DE	IN CA DE GB HU TR FR FI CZ US NL BY BE SG ZA AT CH KR IL	
7504	— 0 1 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	CN US IN IE DE GB SG FR	IN CA DE GB HU TR FR FI CZ US NL BY BE SG ZA AT CH KR IL	
8101.99	+ 4 2 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	IN US DE CN JP TH GB SG HK CZ MY HU TW KR AE	IN CA DE GB HU TR FR FI CZ US NL BY BE SG ZA AT CH KR IL	
8103.90	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	NZ US ES NL CN DE IN	IN CA DE GB HU TR FR FI CZ US NL BY BE SG ZA AT CH KR IL	
8104.11	— 1 53 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	CN IN HK AE TR	IN CA DE GB HU TR FR FI CZ US NL BY BE SG ZA AT CH KR IL	
8109.20+	— 1 1 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	DE US CN MY TH IN KR	IN CA DE GB HU TR FR FI CZ US NL BY BE SG ZA AT CH KR IL	
8112.12+	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	AU	IN CA DE GB HU TR FR FI CZ US NL BY BE SG ZA AT CH KR IL	
8401.10+	+ 0 2 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	JP IN IT TW US SG HK	IN CA DE GB HU TR FR FI CZ US NL BY BE SG ZA AT CH KR IL	
8401.20	+ 0 2 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	CN IN TW OM US HK AU	IN CA DE GB HU TR FR FI CZ US NL BY BE SG ZA AT CH KR IL	
8401.30	— 1 5 0 0	— 0 0 0 0	— 0 0 0 0	— 0 0 0 0	ES DE IN SG SE US AE FR CN HK	IN CA DE GB HU TR FR FI CZ US NL BY BE SG ZA AT CH KR IL	

Scale of Basket % (5 years): 1% Value = 0.1 M\$ 1% Quantity = 1.3 T

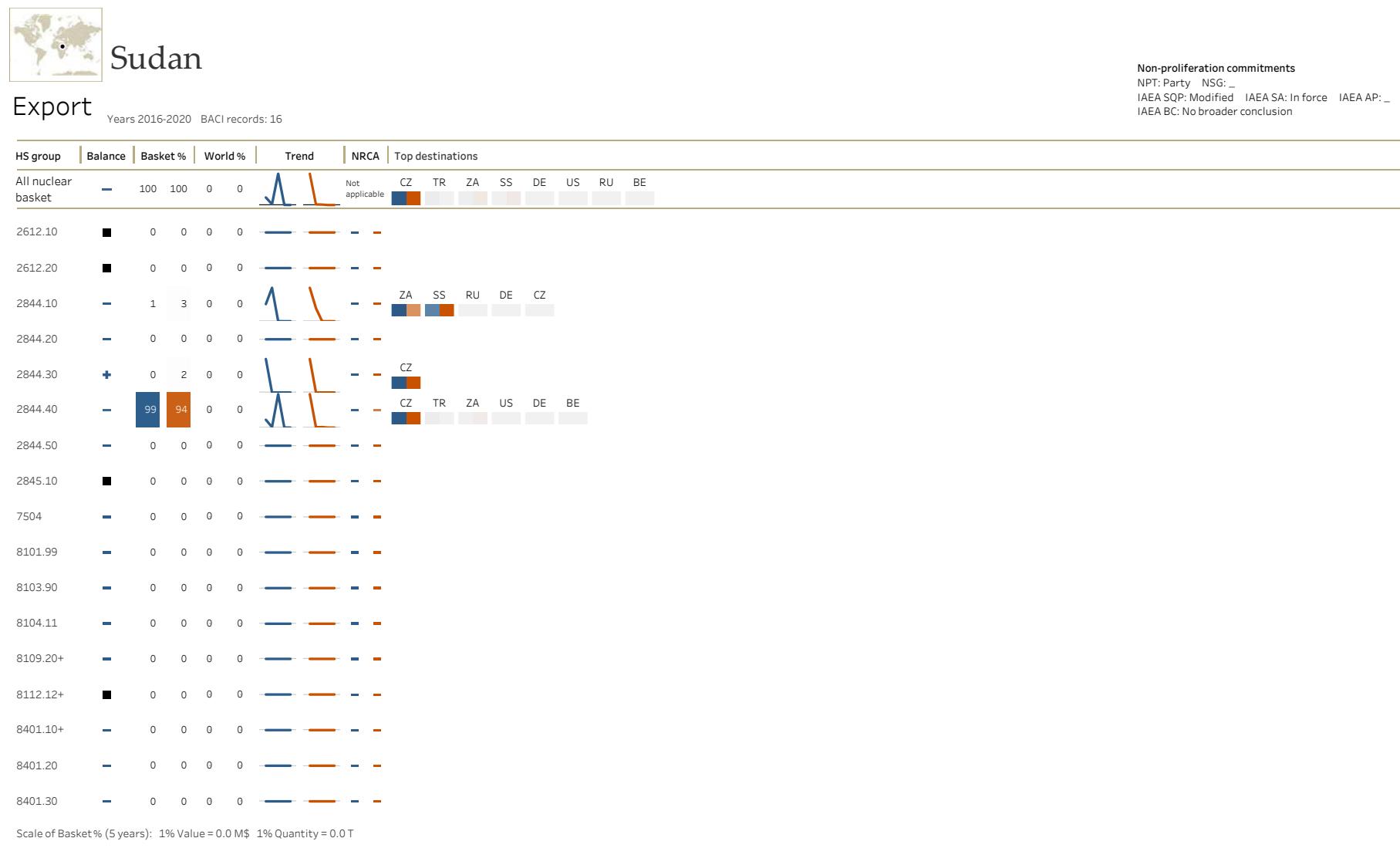


Figure 166: Sudan

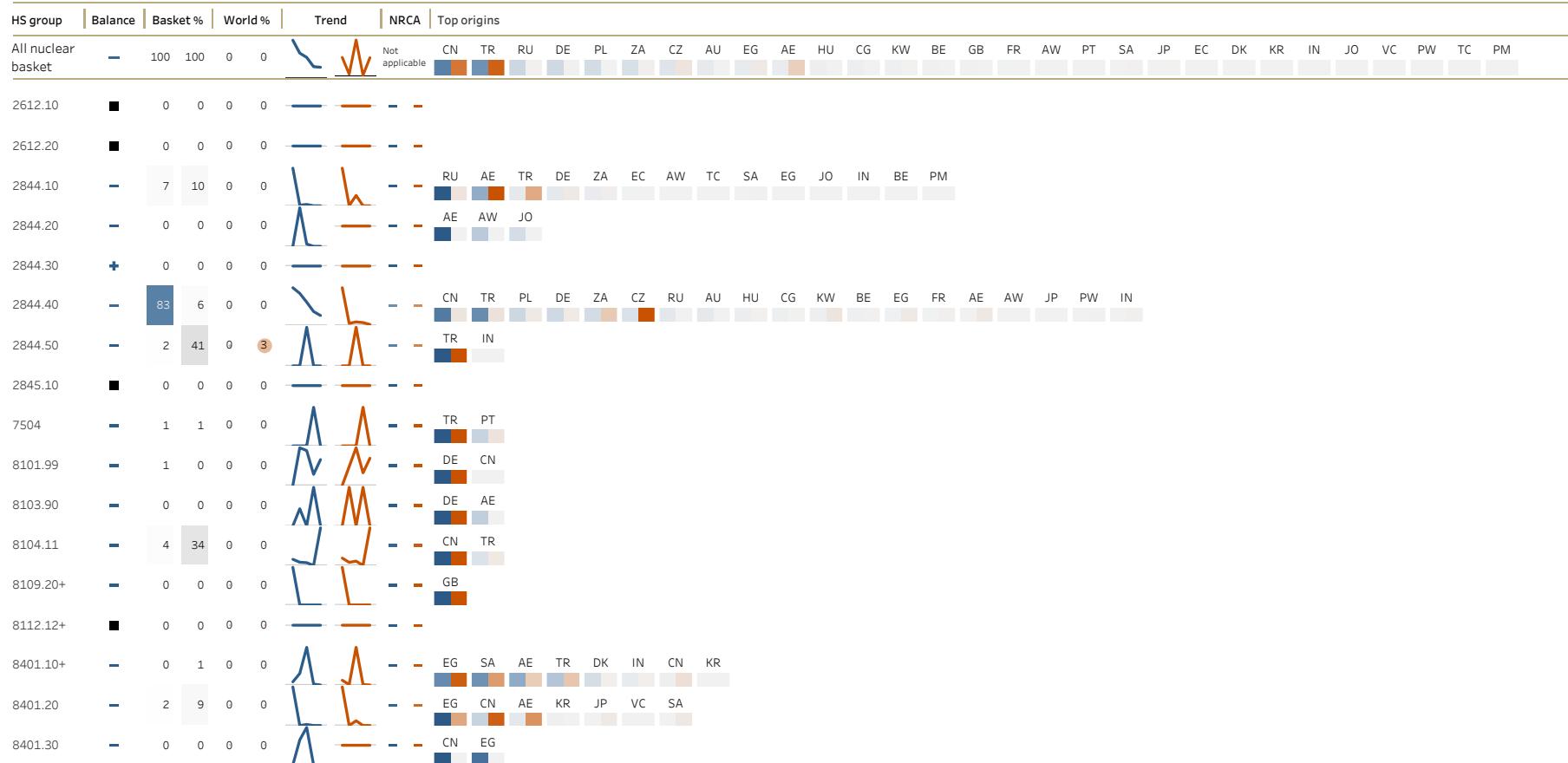


# Sudan

## Import

Years 2016-2020 BACI records: 112

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 1.0 T

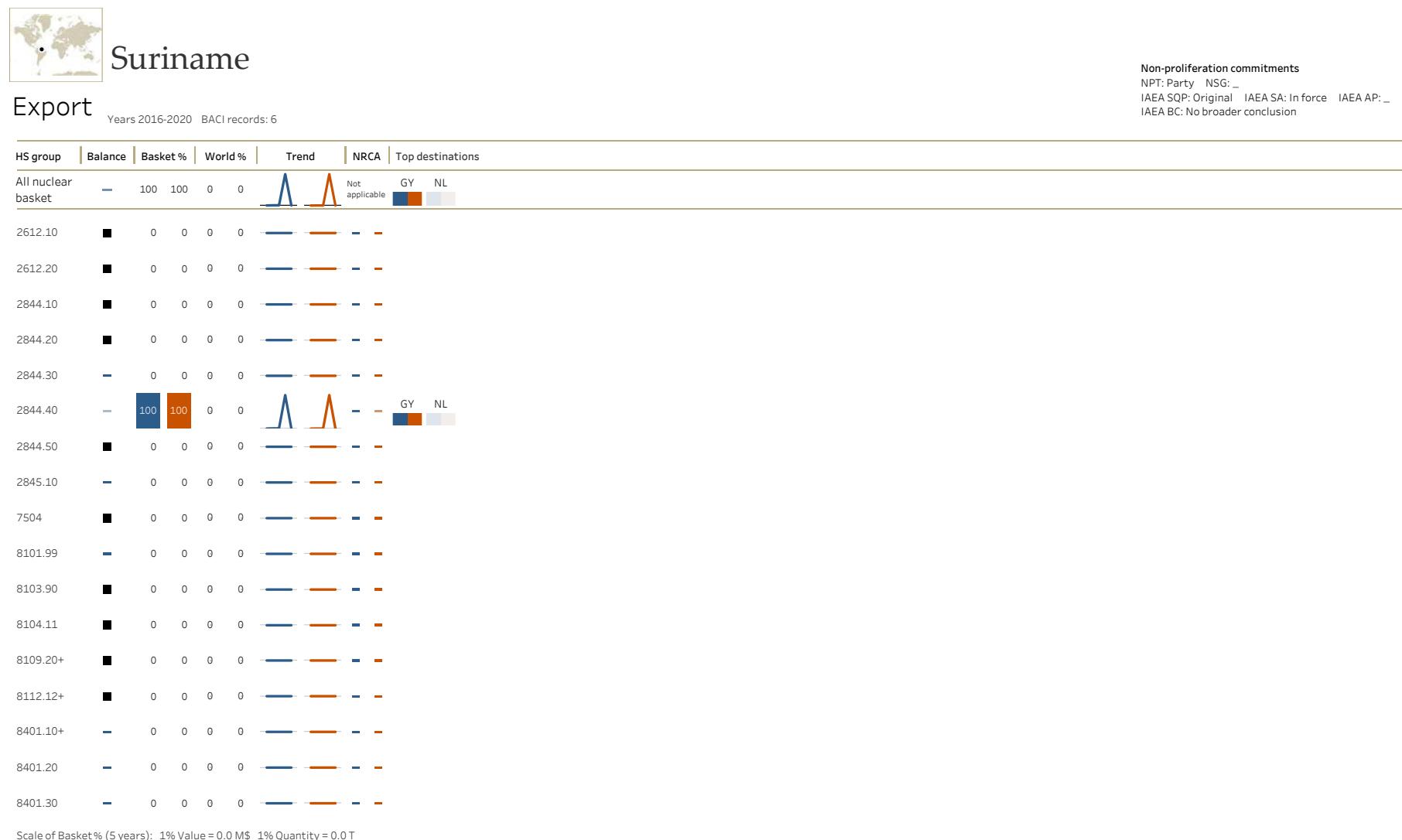


Figure 167: Suriname

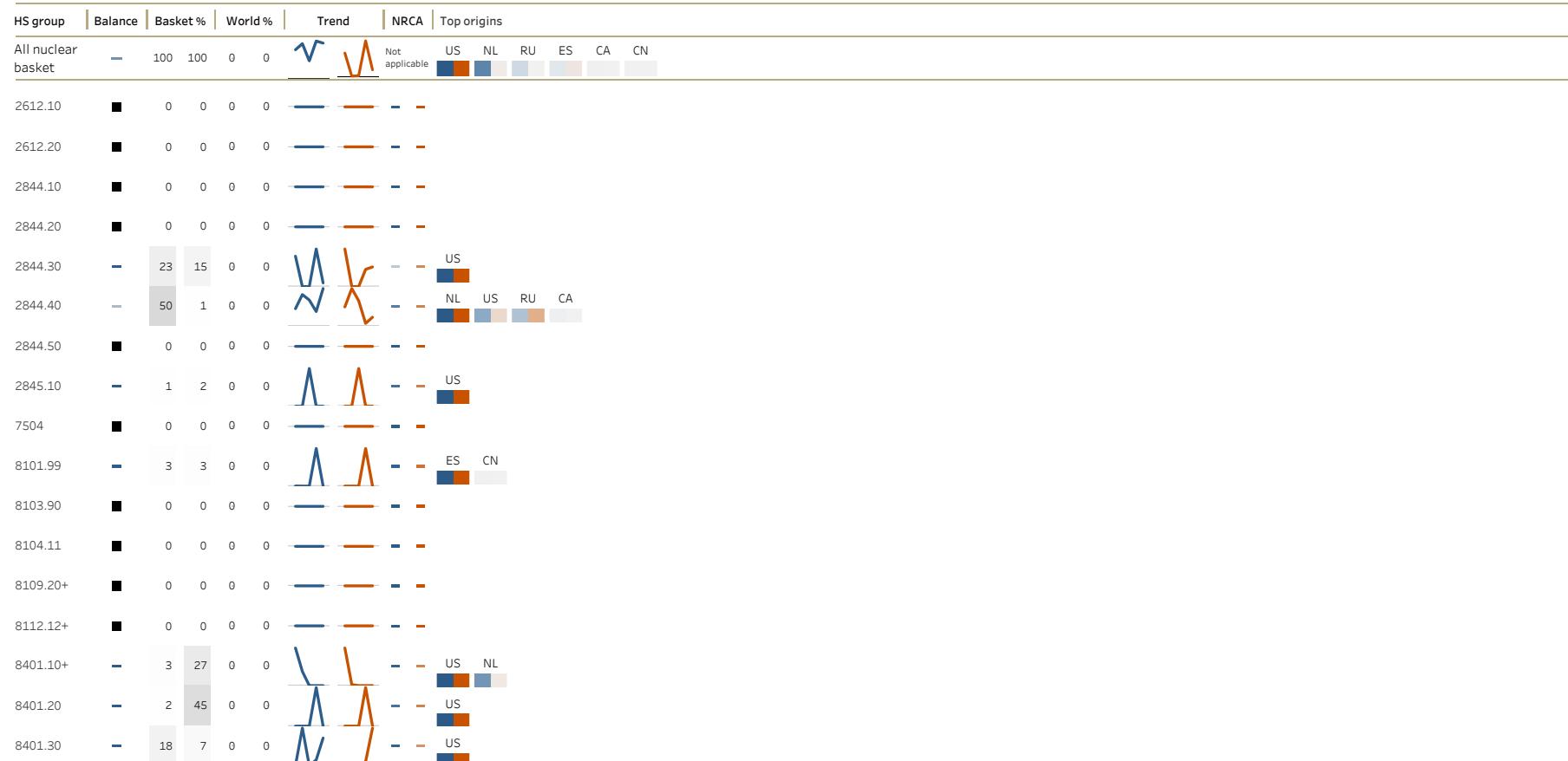


# Suriname

## Import

Years 2016-2020 BACI records: 23

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: Original IAEA SA: In force IAEA AP: —  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.1 T



## Swaziland

### Export

Years 2016-2020 BACI records: 10

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion

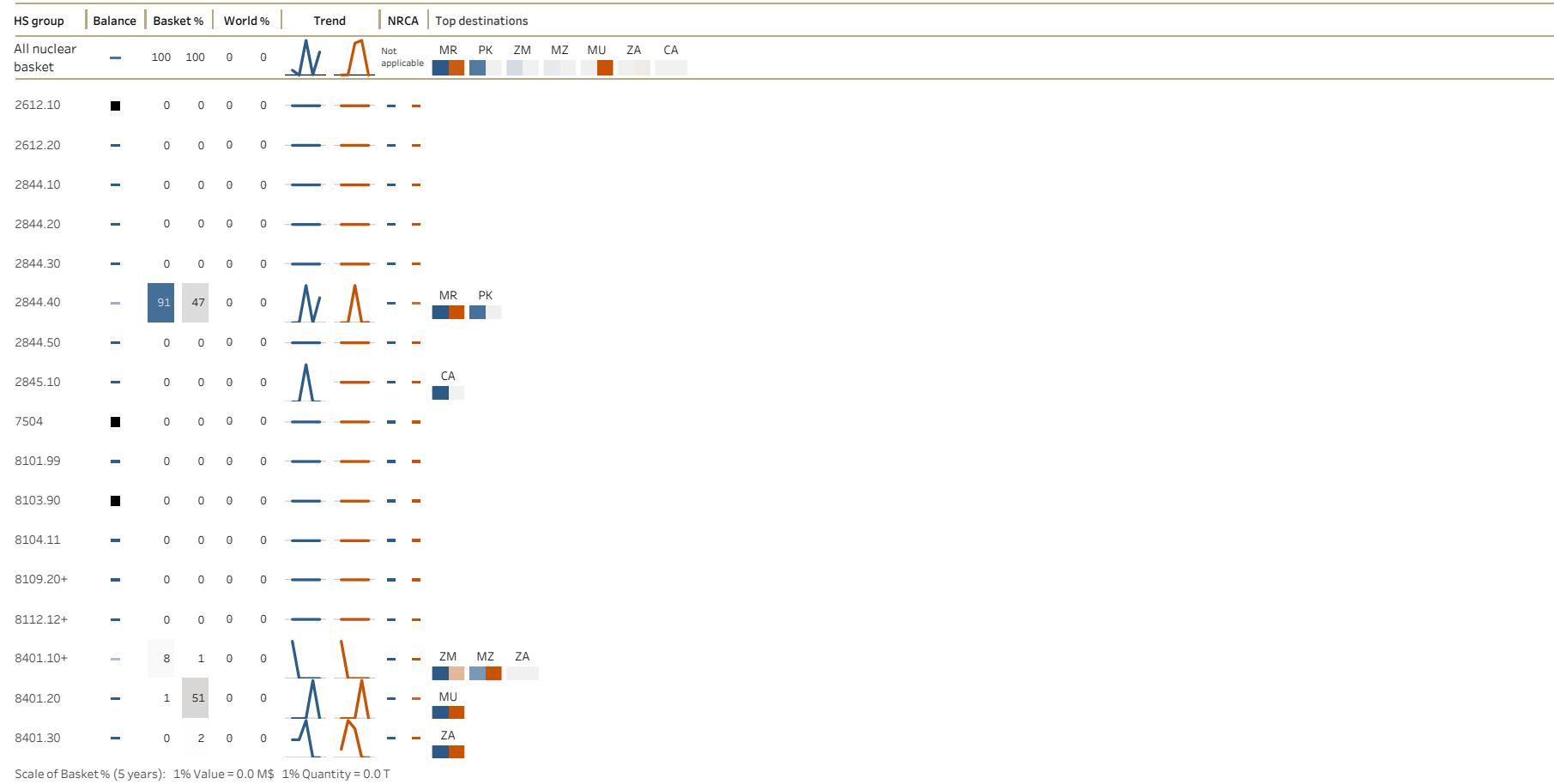


Figure 168: Swaziland

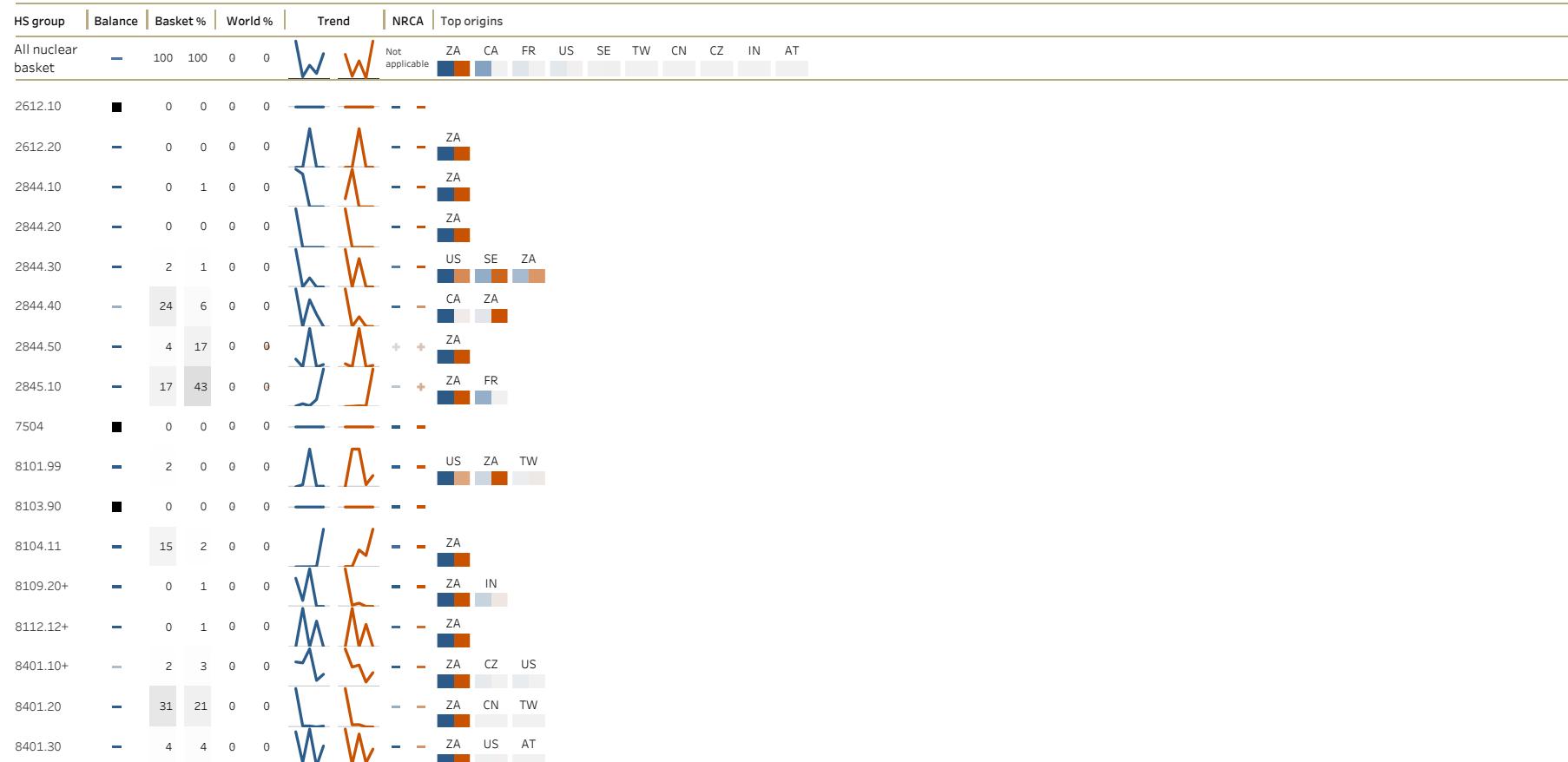


# Swaziland

## Import

Years 2016-2020 BACI records: 63

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.3 T

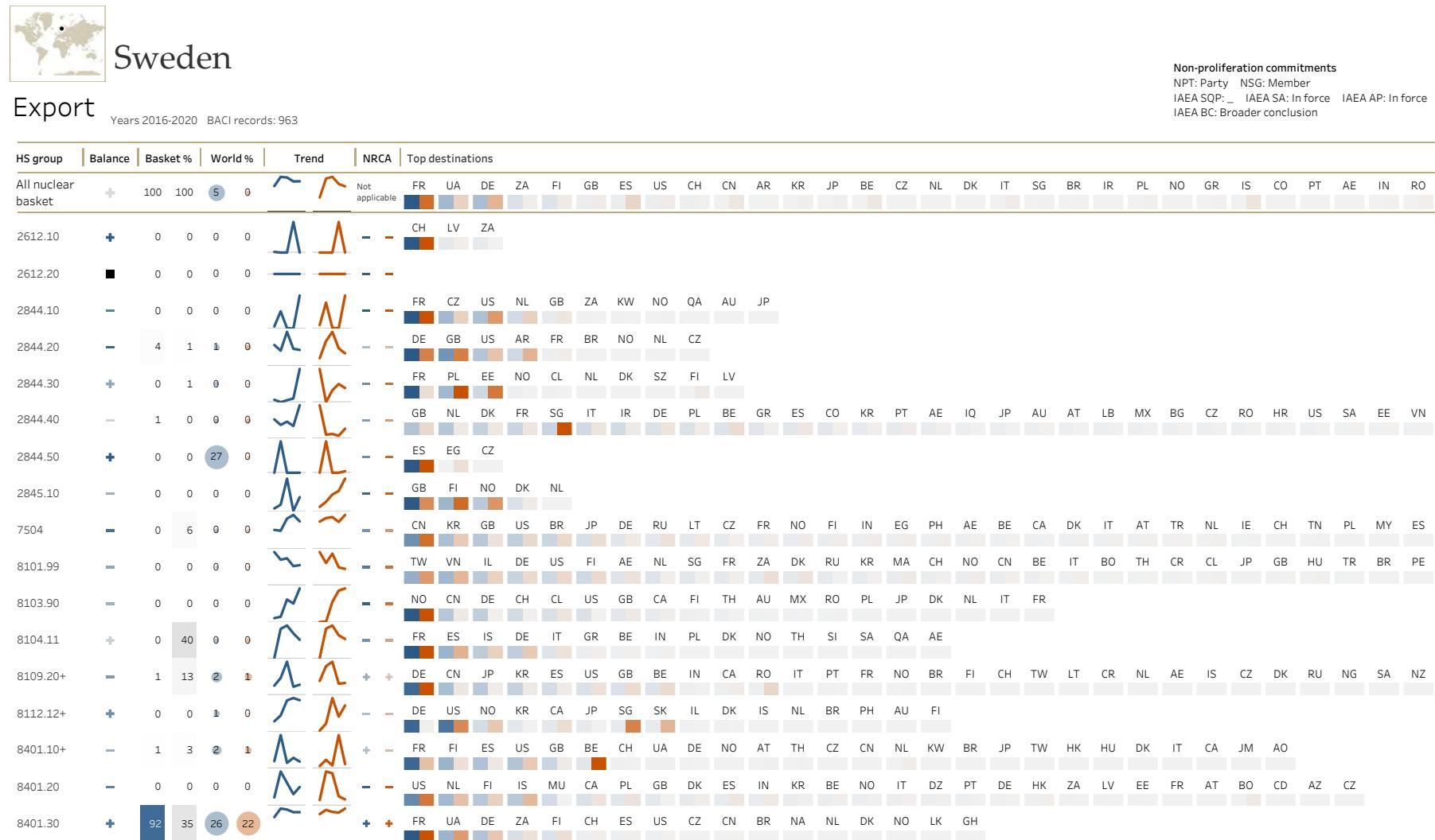


Figure 169: Sweden

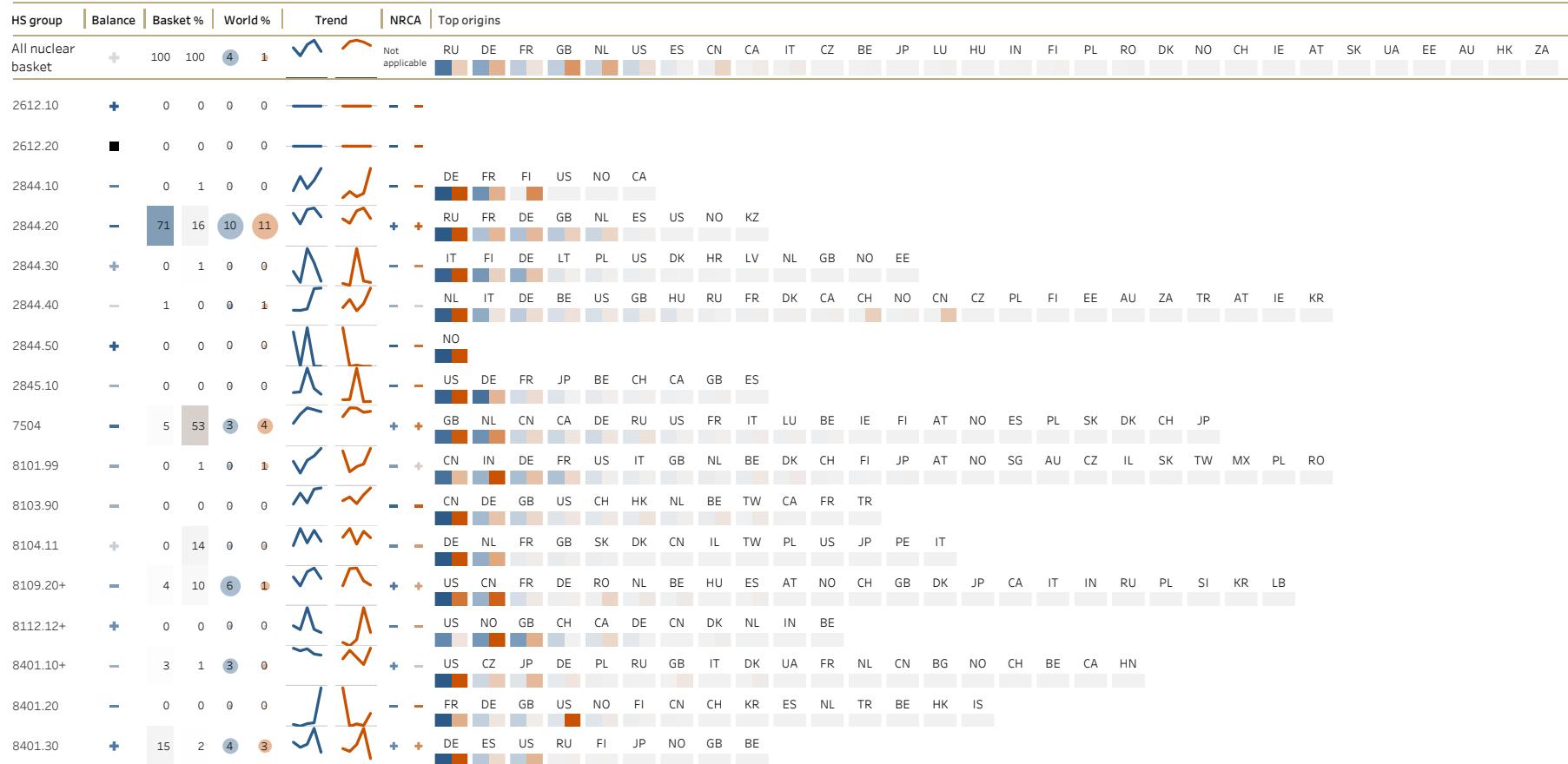


# Sweden

## Import

Years 2016-2020 BACI records: 649

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 37.0 M\$ 1% Quantity = 199.1 T

Figure 17c: Switzerland

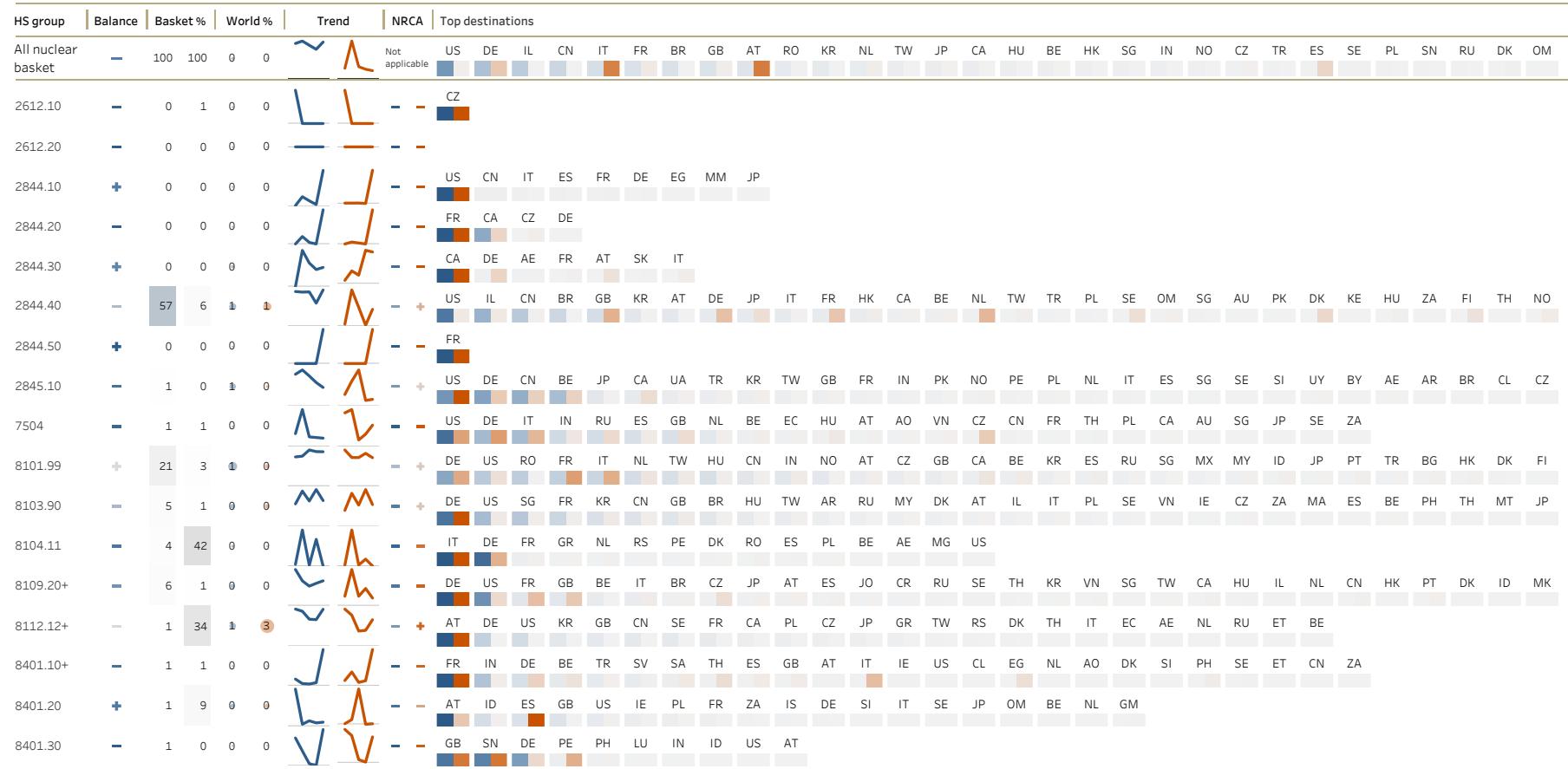


## Switzerland

### Export

Years 2016-2020 BACI records: 1,199

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 1.1 M\$ 1% Quantity = 19.6 T

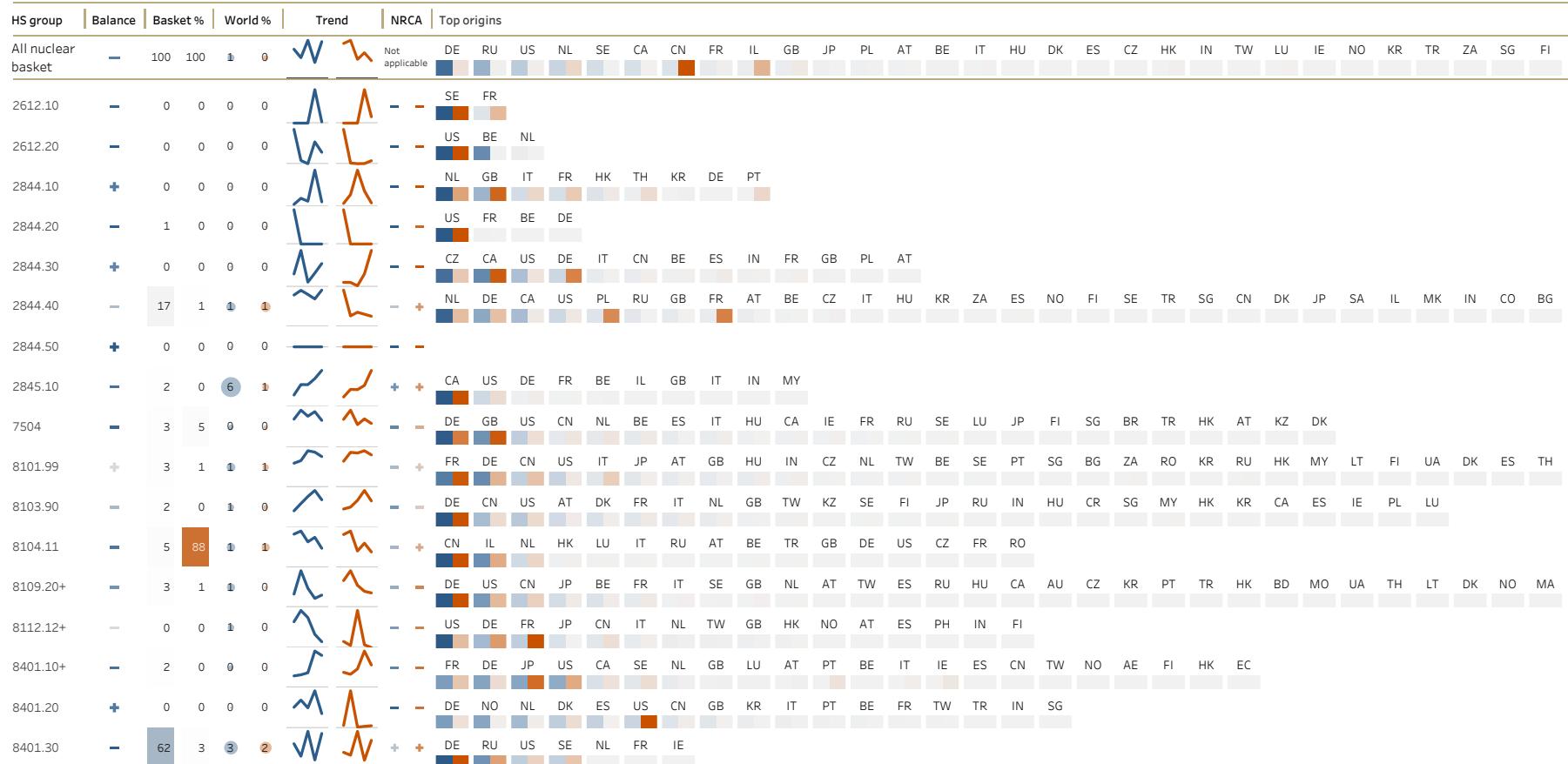


# Switzerland

## Import

Years 2016-2020 BACI records: 821

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 6.7 M\$ 1% Quantity = 135.3 T



## Syria

### Export

**Non-proliferation commitments**  
 NPT: Party NSG: \_\_  
 IAEA SQP: \_\_ IAEA SA: In force IAEA AP: \_\_  
 IAEA BC: No broader conclusion

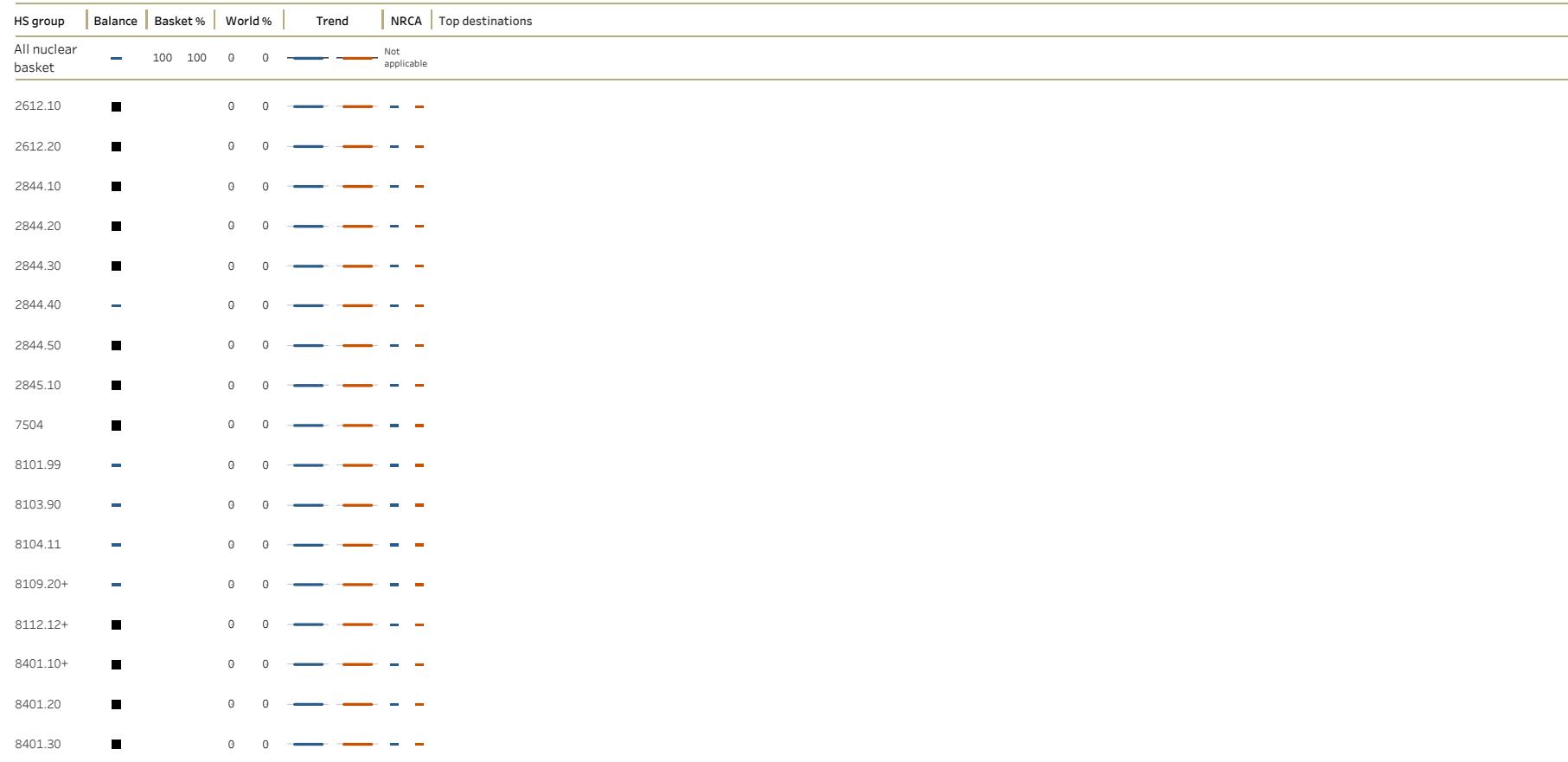


Figure 171: Syria

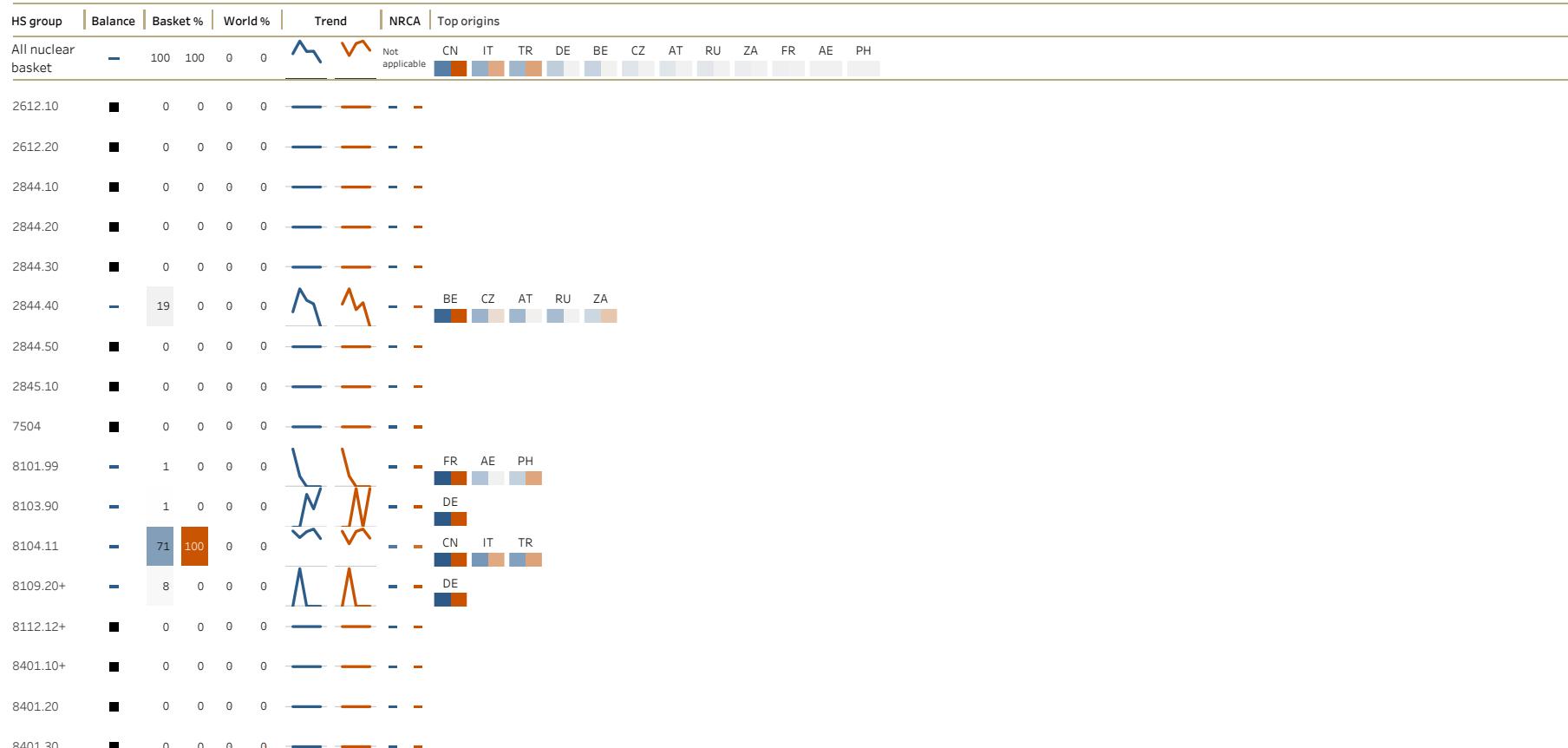


# Syria

## Import

Years 2016-2020 BACI records: 26

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: —  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.8 T



## Taiwan, China

### Export

Years 2016-2020 BACI records: 580

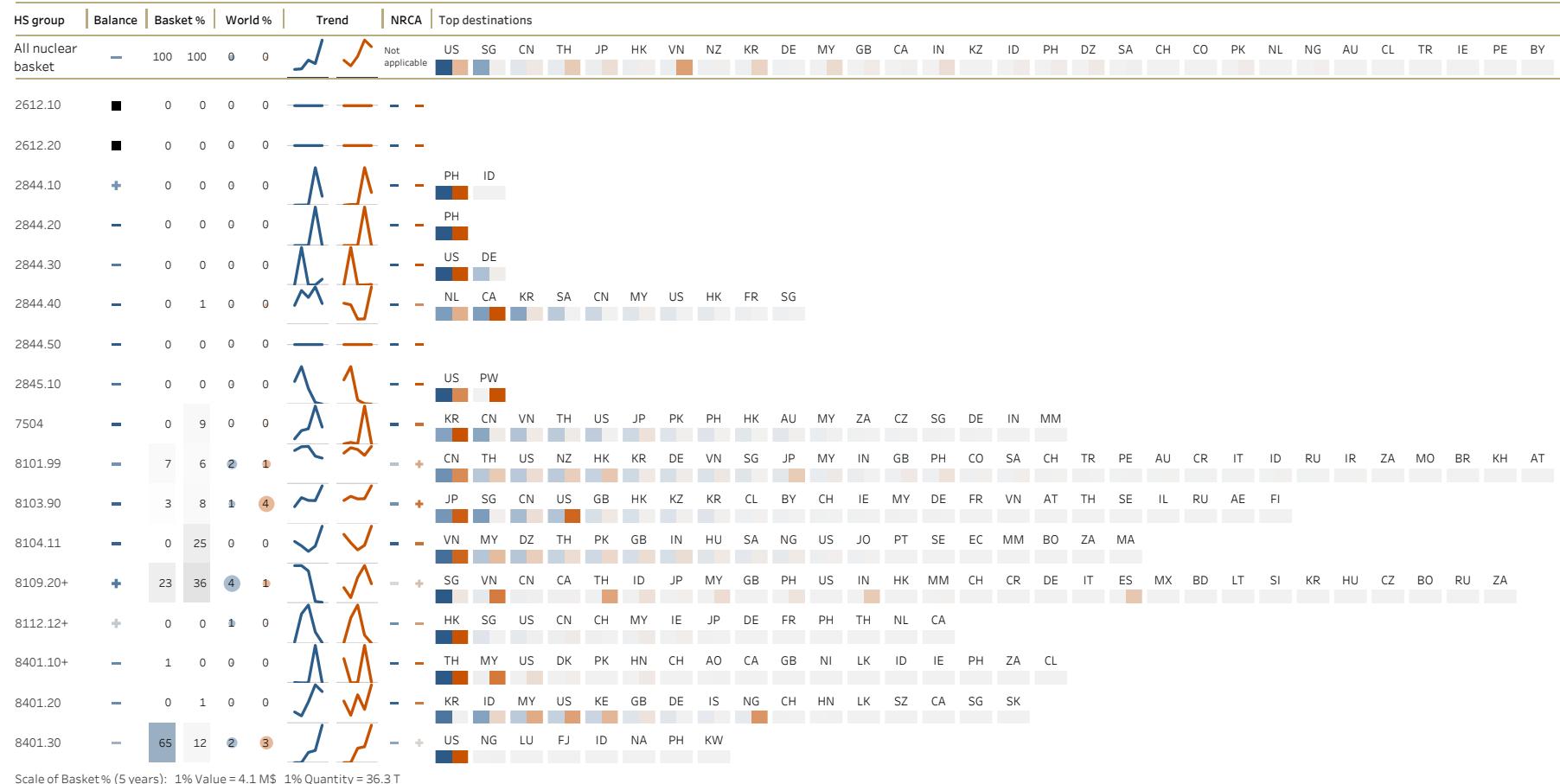


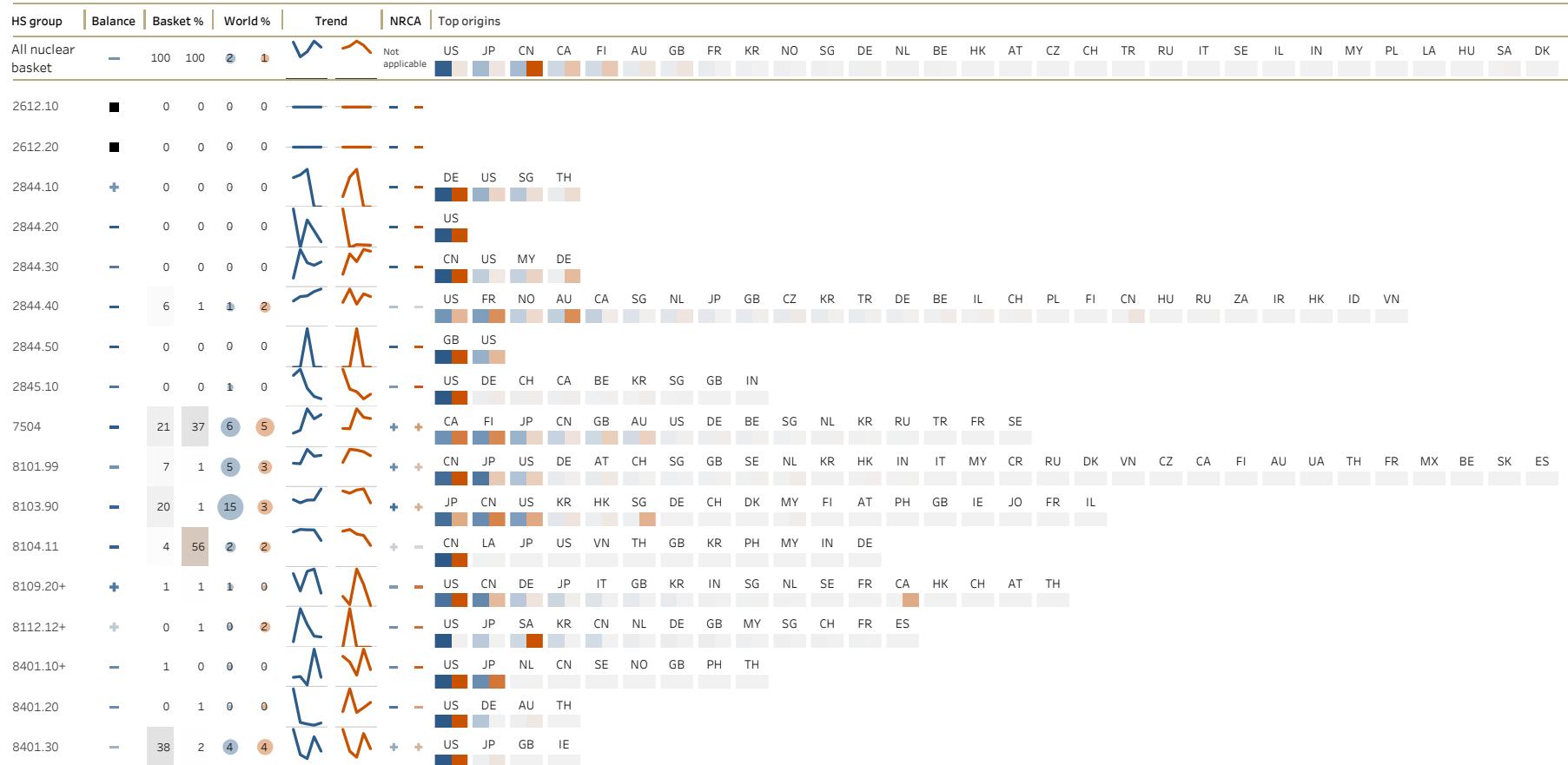
Figure 172: Taiwan, China



## Taiwan, China

### Import

Years 2016-2020 BACI records: 574



Scale of Basket% (5 years): 1% Value = 14.3 M\$ 1% Quantity = 406.6 T



## Tajikistan

### Export

Years 2016-2020 BACI records: 4

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

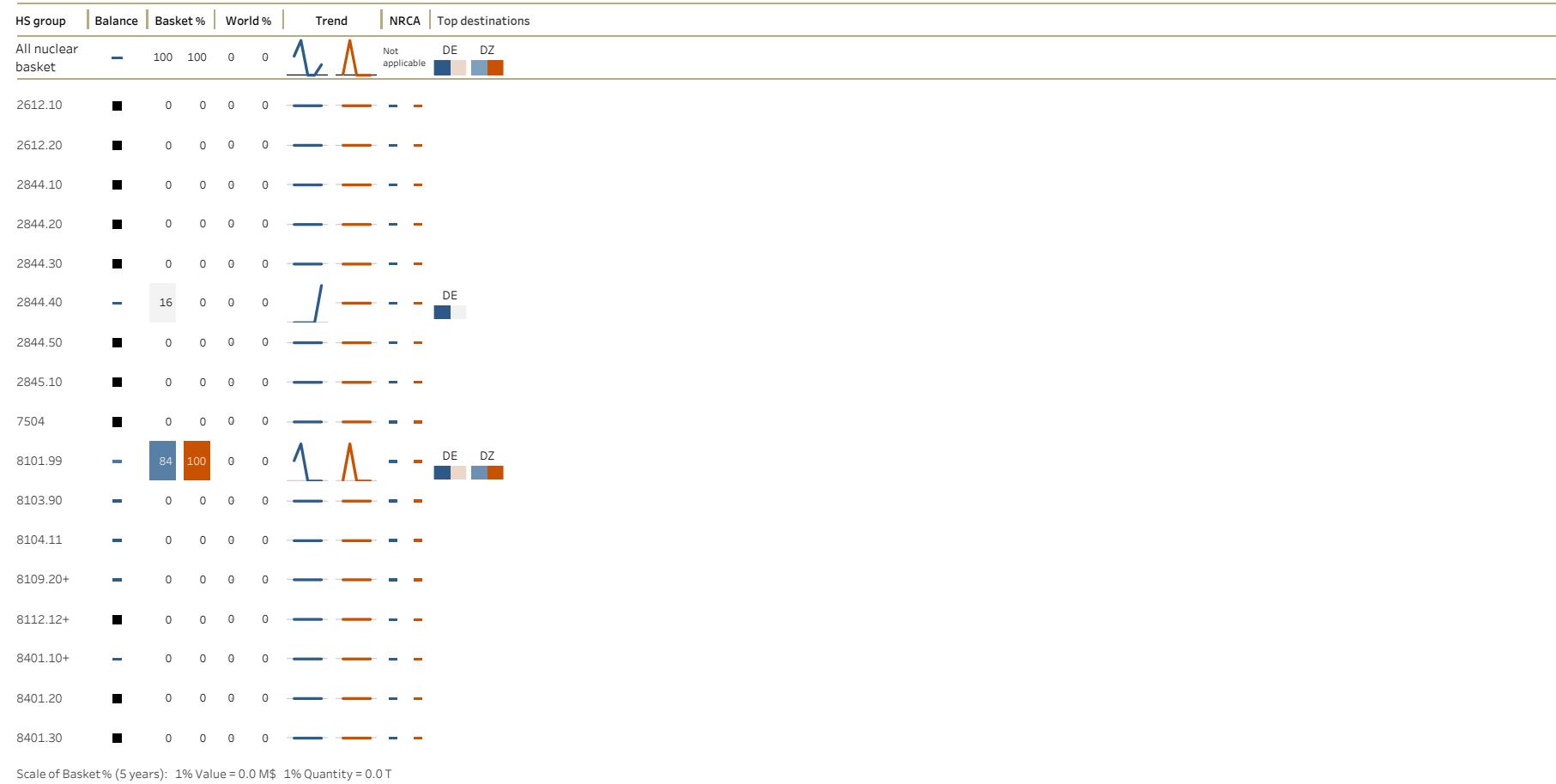


Figure 173: Tajikistan

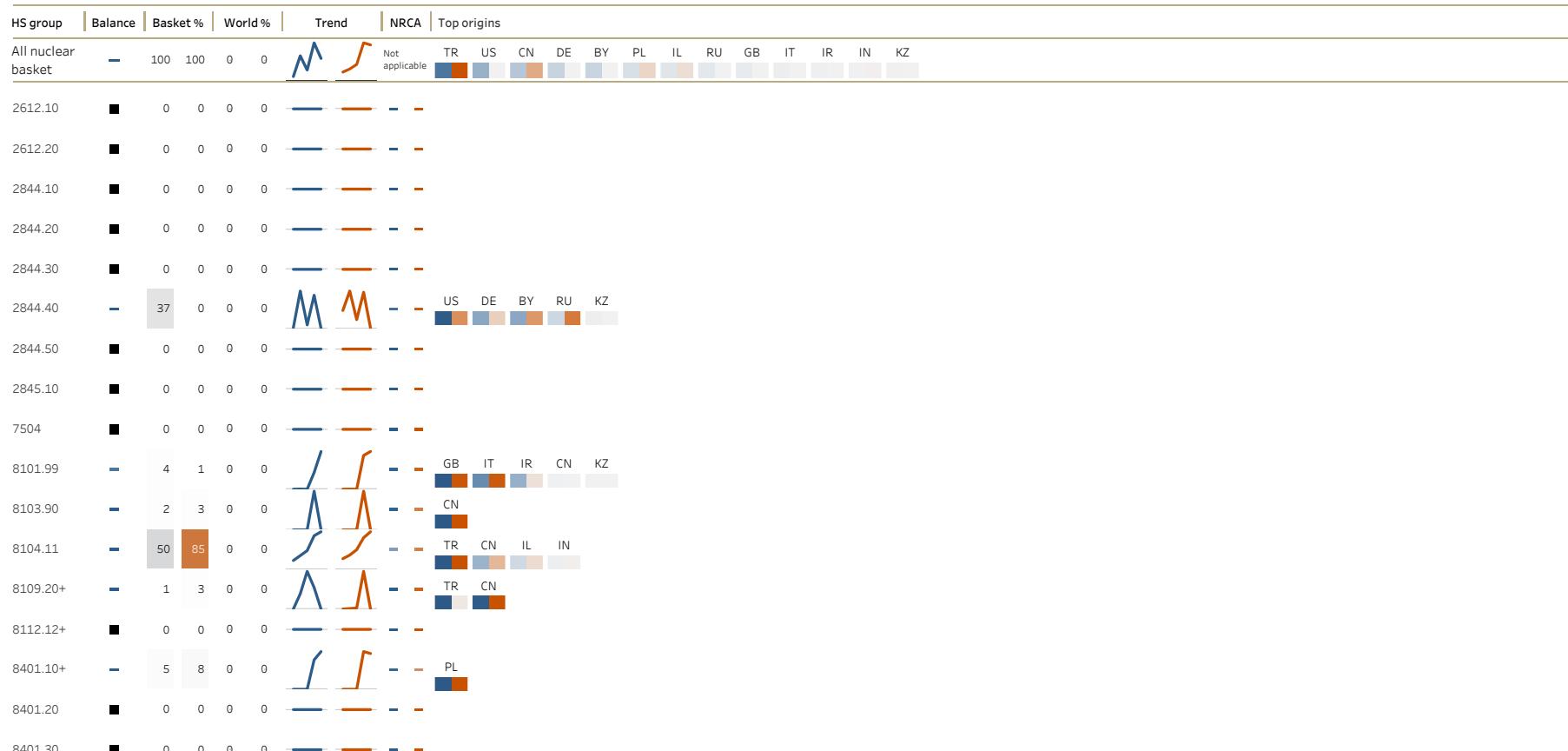


# Tajikistan

## Import

Years 2016-2020 BACI records: 27

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 1.2 T



## TFYR of Macedonia

### Export

Years 2016-2020 BACI records: 21

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion

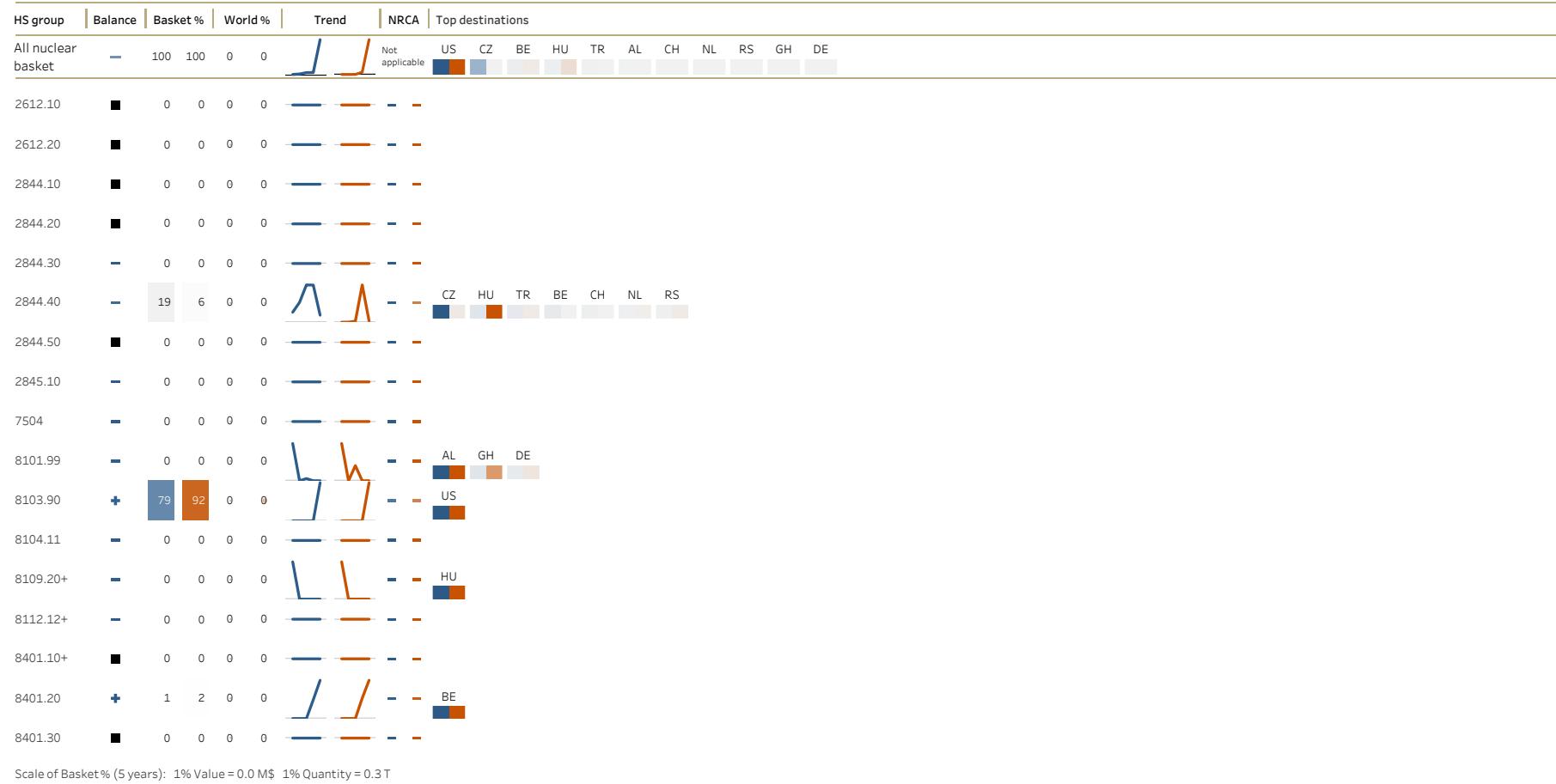


Figure 174: TFYR of Macedonia

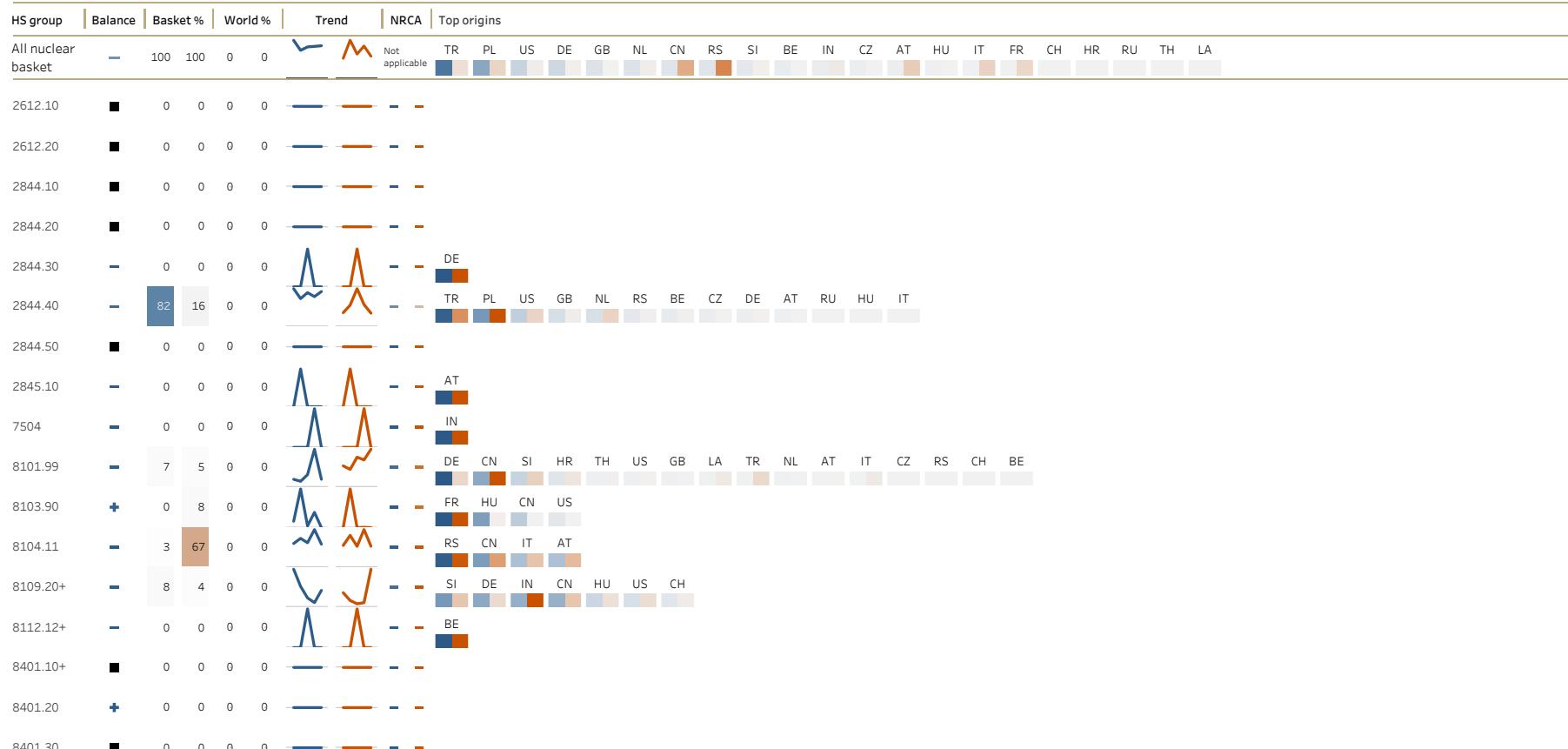


## TFYR of Macedonia

### Import

Years 2016-2020 BACI records: 113

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.2 T

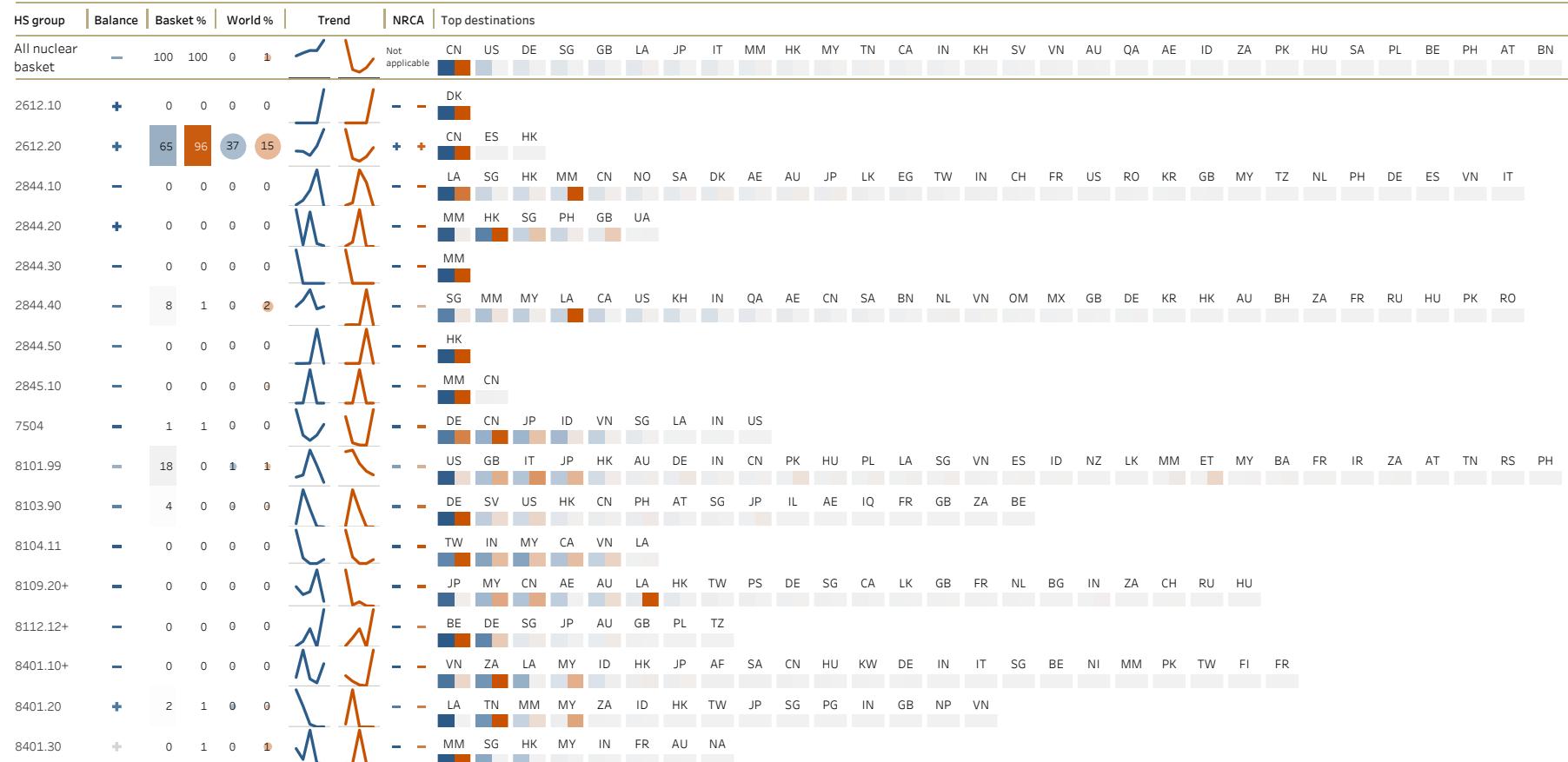


## Thailand

### Export

Years 2016-2020 BACI records: 490

**Non-proliferation commitments**  
 NPT: Party NSG:—  
 IAEA SQP:— IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.8 M\$ 1% Quantity = 260.2 T

Figure 175: Thailand

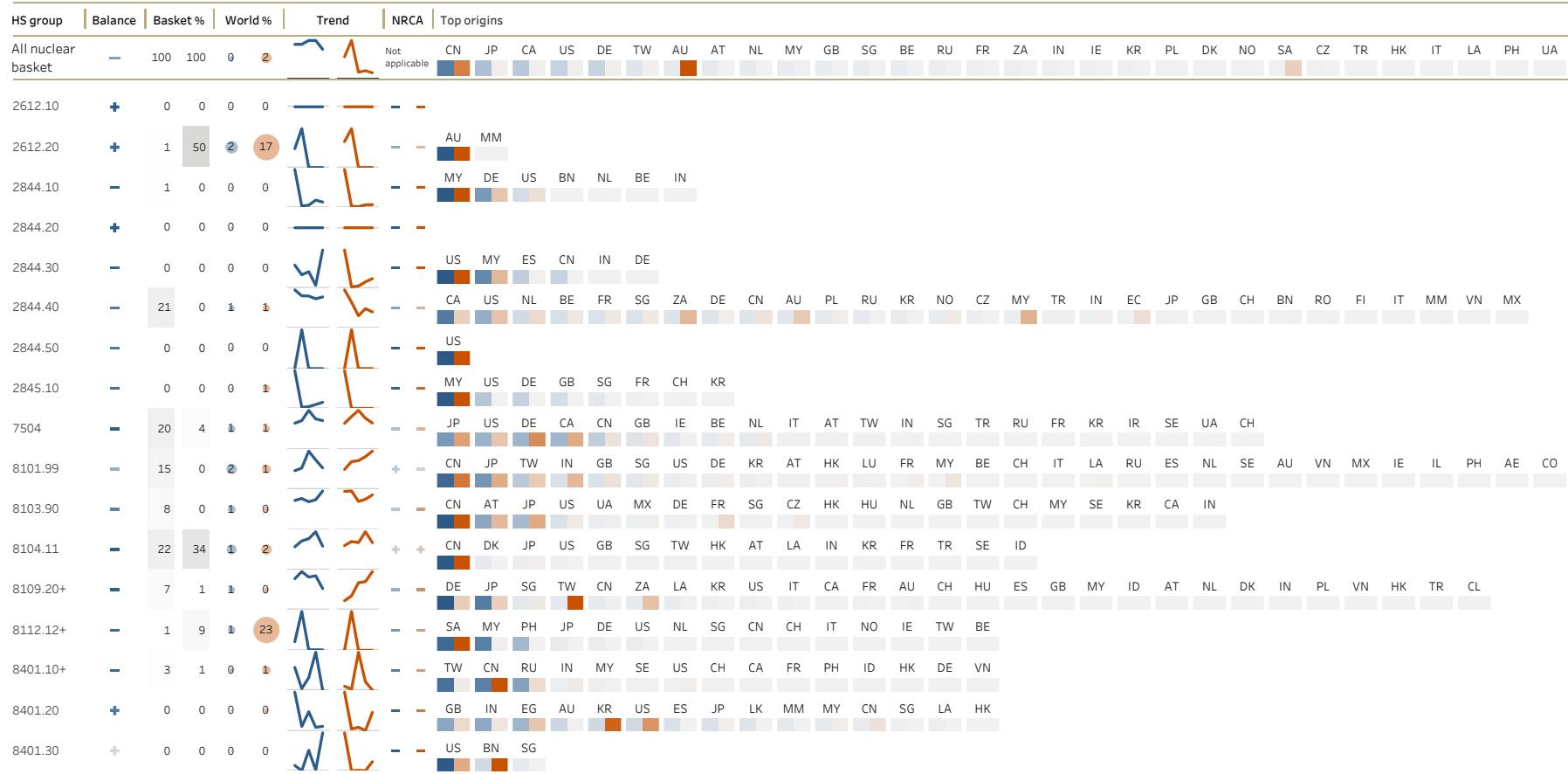


# Thailand

## Import

Years 2016-2020 BACI records: 673

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 2.1 M\$ 1% Quantity = 581.1 T



Togo

Export

Years 2016–2020 BACI records: 3

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion

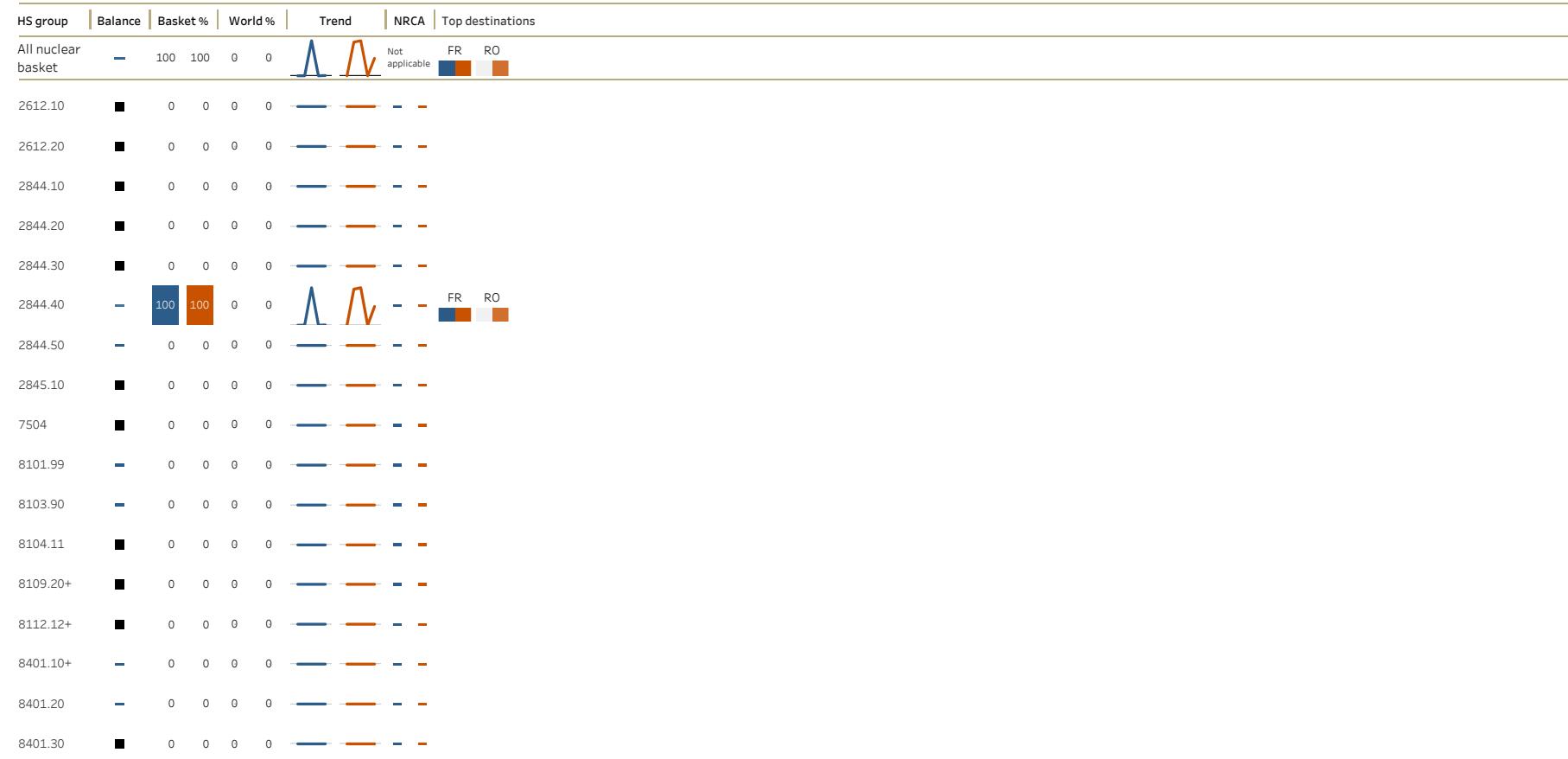


Figure 176: Togo

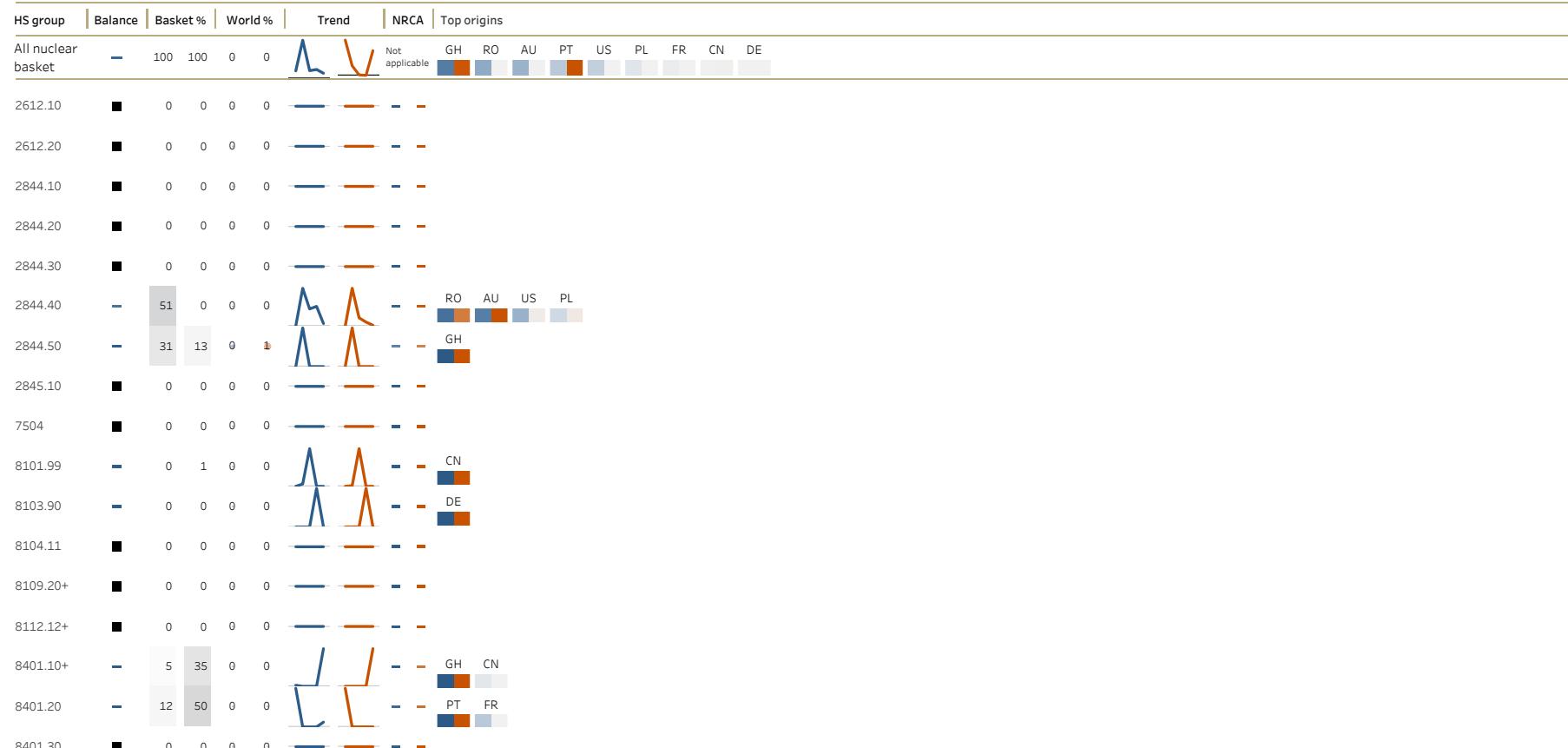


# Togo

## Import

Years 2016-2020 BACI records: 15

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.8 T



## Trinidad and Tobago

Export

Years 2016-2020 BACI records: 6

**Non-proliferation commitments**  
 NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP: –  
 IAEA BC: No broader conclusion

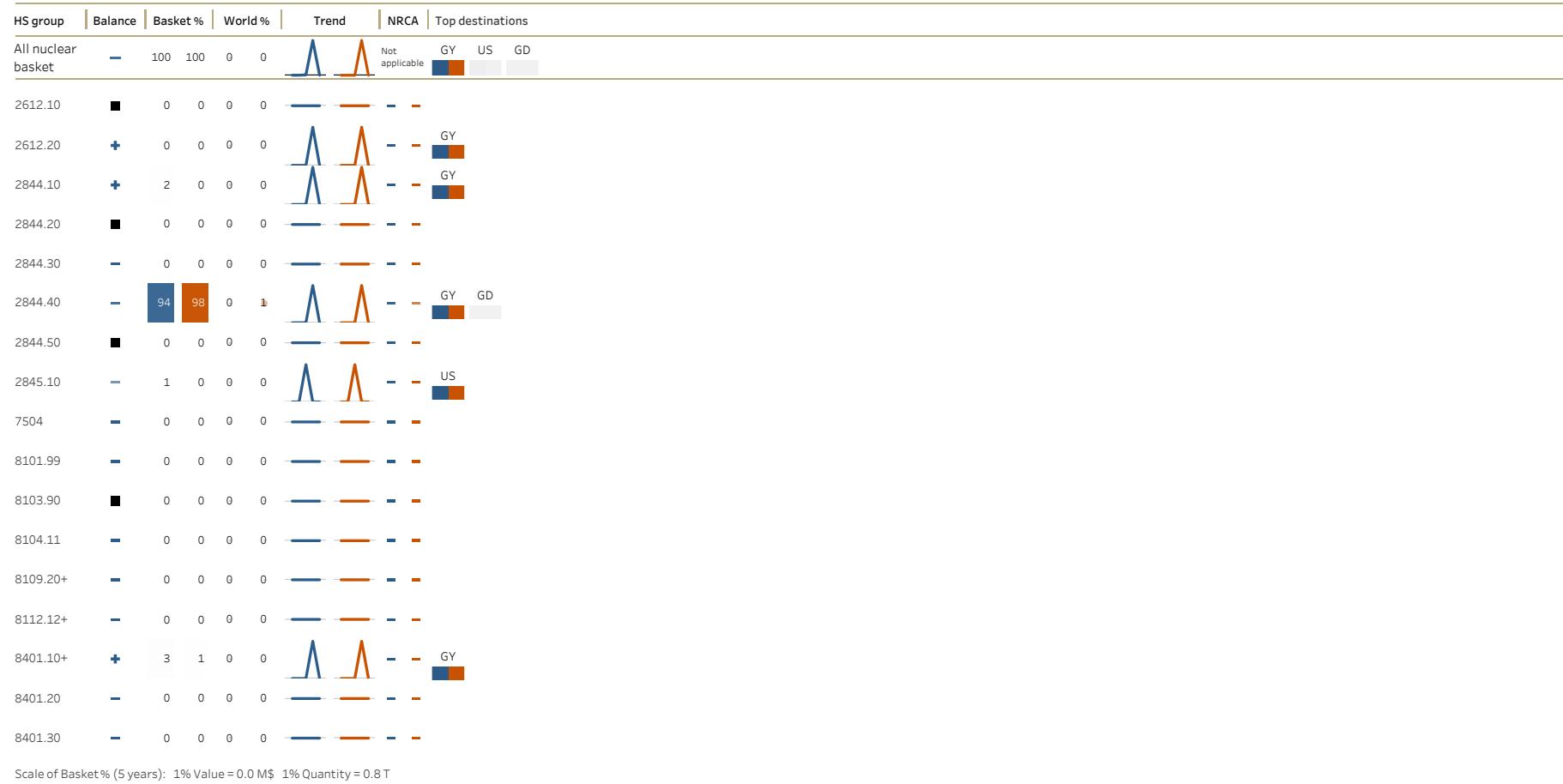


Figure 177: Trinidad and To-  
bago

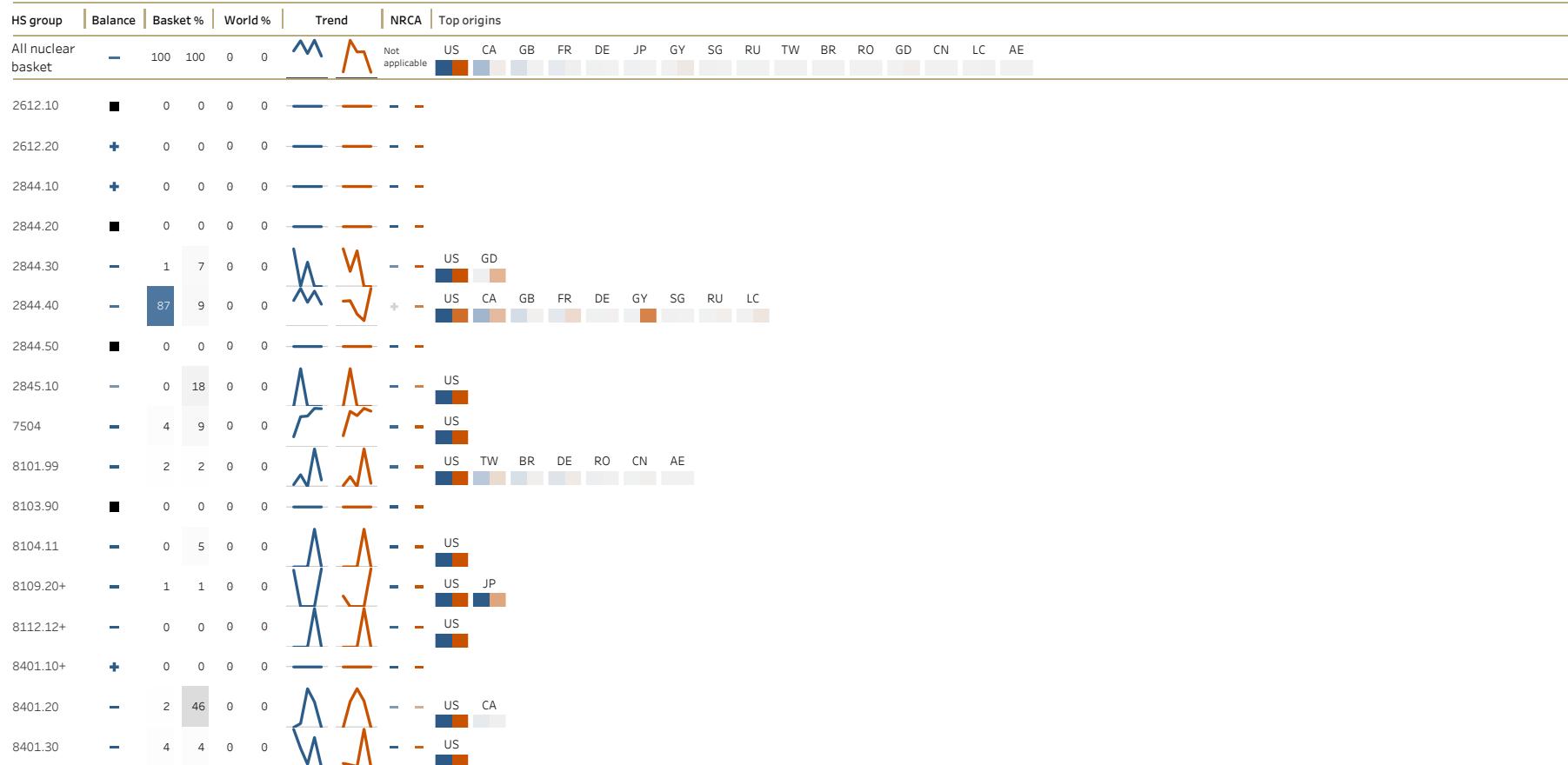


## Trinidad and Tobago

### Import

Years 2016-2020 BACI records: 54

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: Original IAEA SA: In force IAEA AP: —  
 IAEA BC: No broader conclusion





## Tunisia

### Export

Years 2016-2020 BACI records: 43

**Non-proliferation commitments**  
 NPT: Party NSG:—  
 IAEA SQP:— IAEA SA: In force IAEA AP: Signed  
 IAEA BC: No broader conclusion

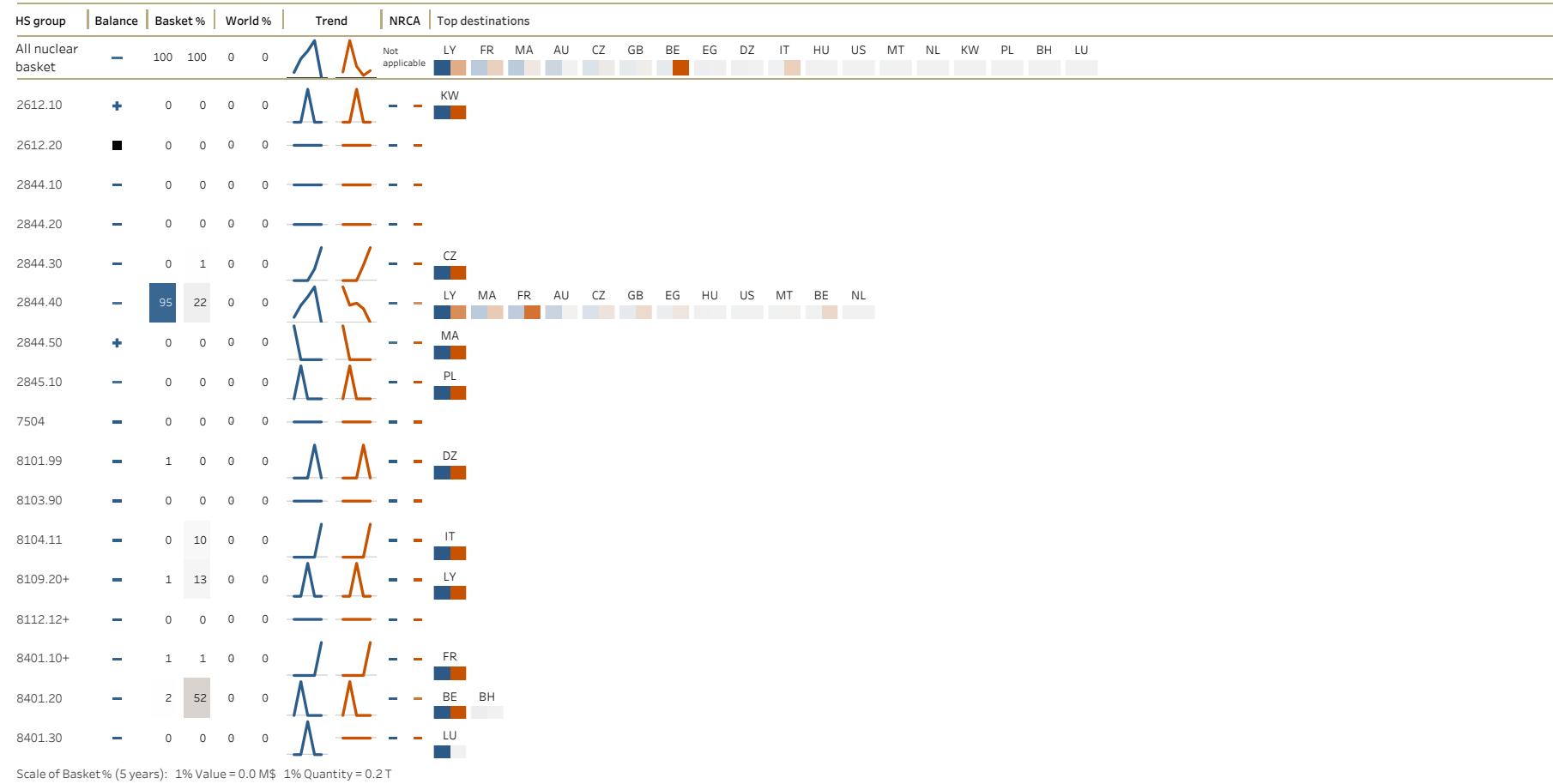


Figure 178: Tunisia

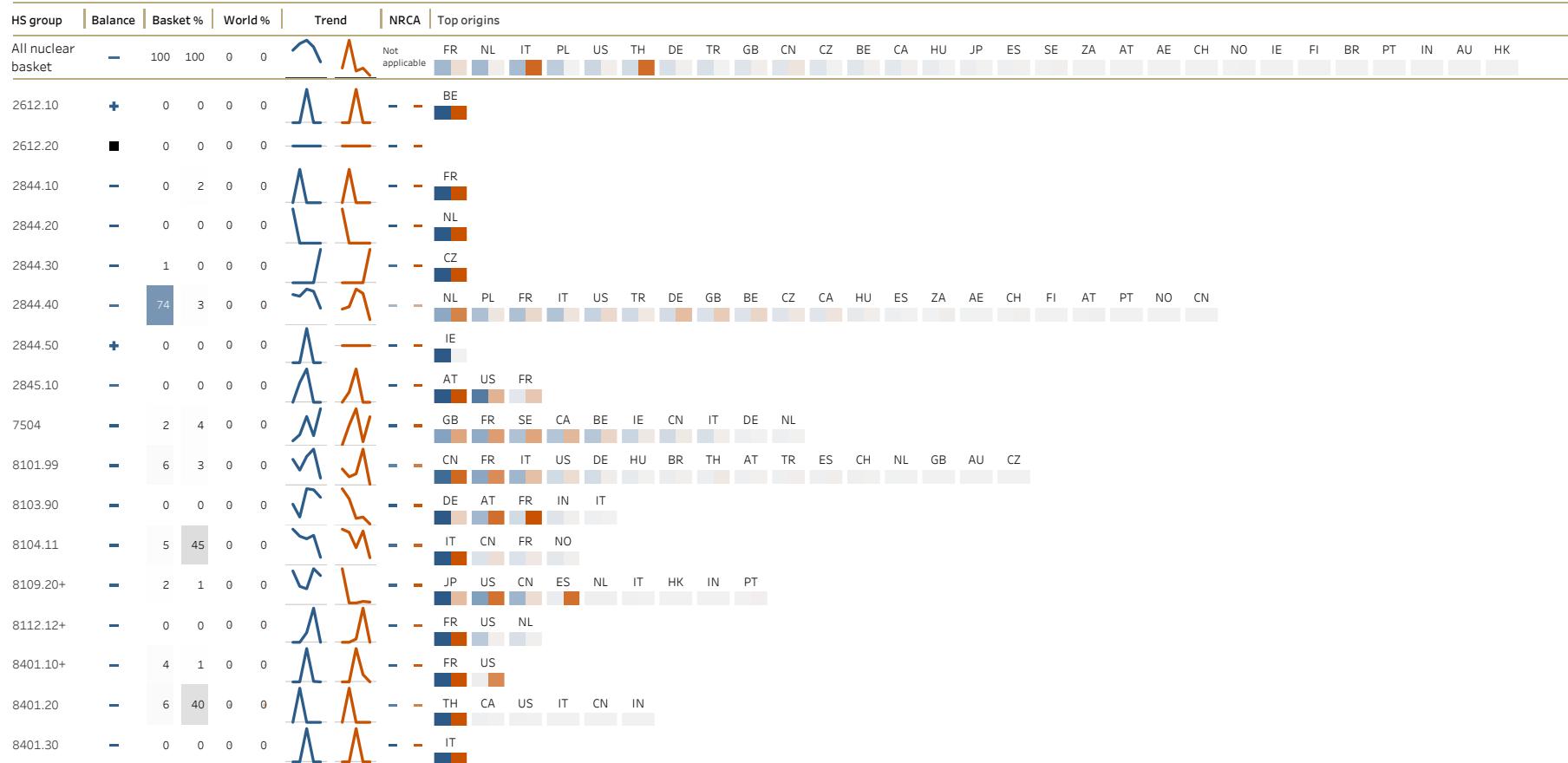


## Tunisia

### Import

Years 2016-2020 BACI records: 190

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: Signed  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.1 M\$ 1% Quantity = 2.6 T

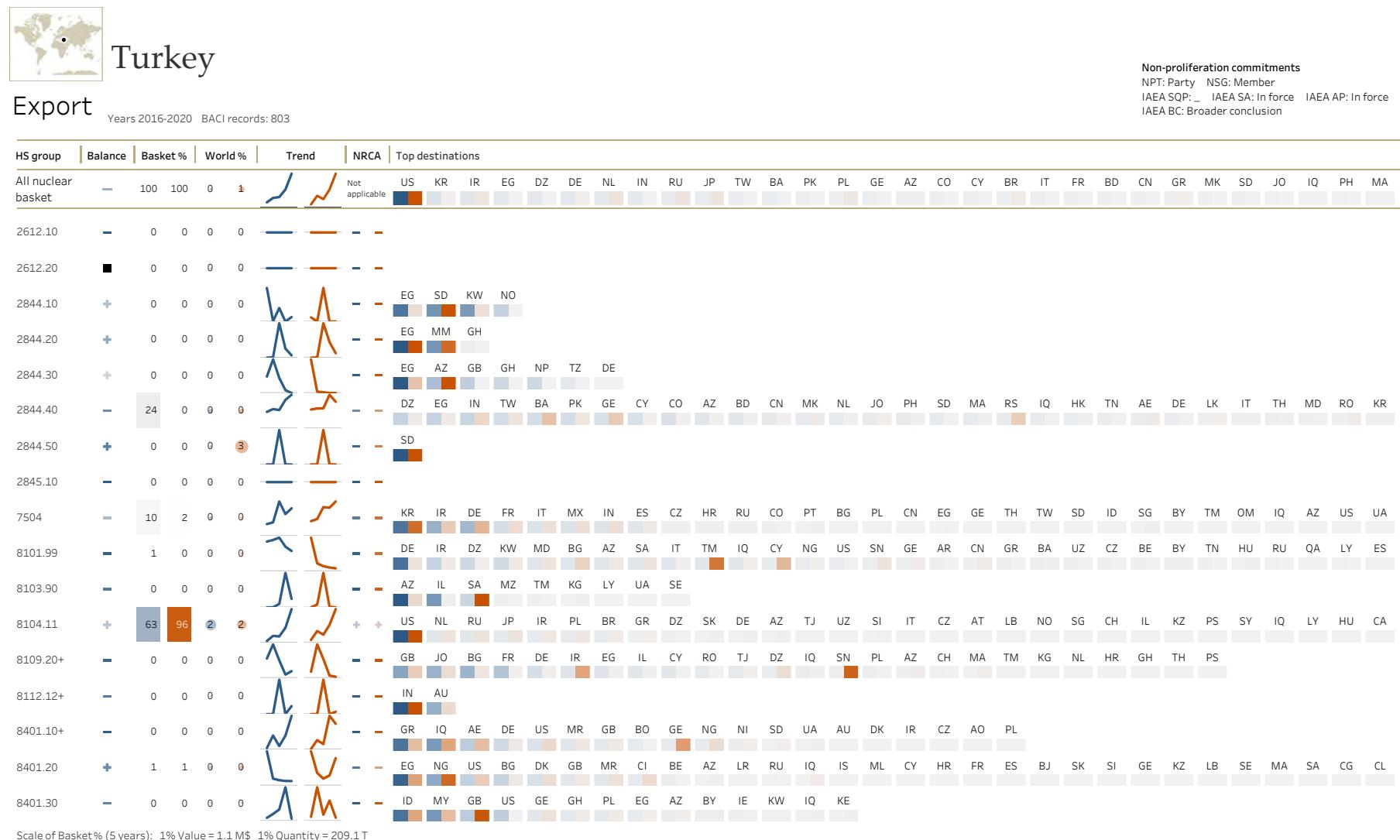


Figure 179: Turkey

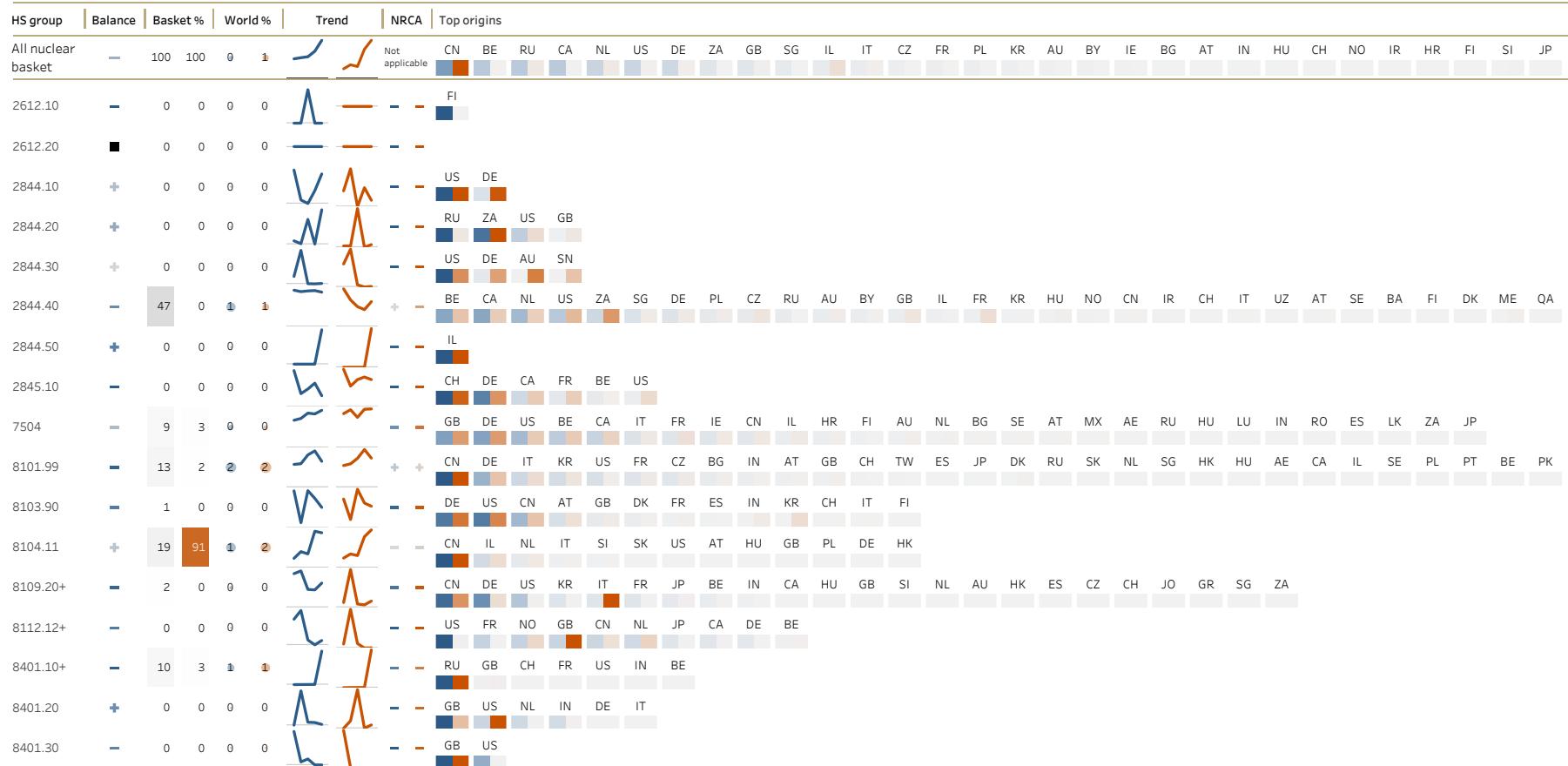


# Turkey

## Import

Years 2016-2020 BACI records: 585

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 2.3 M\$ 1% Quantity = 208.3 T

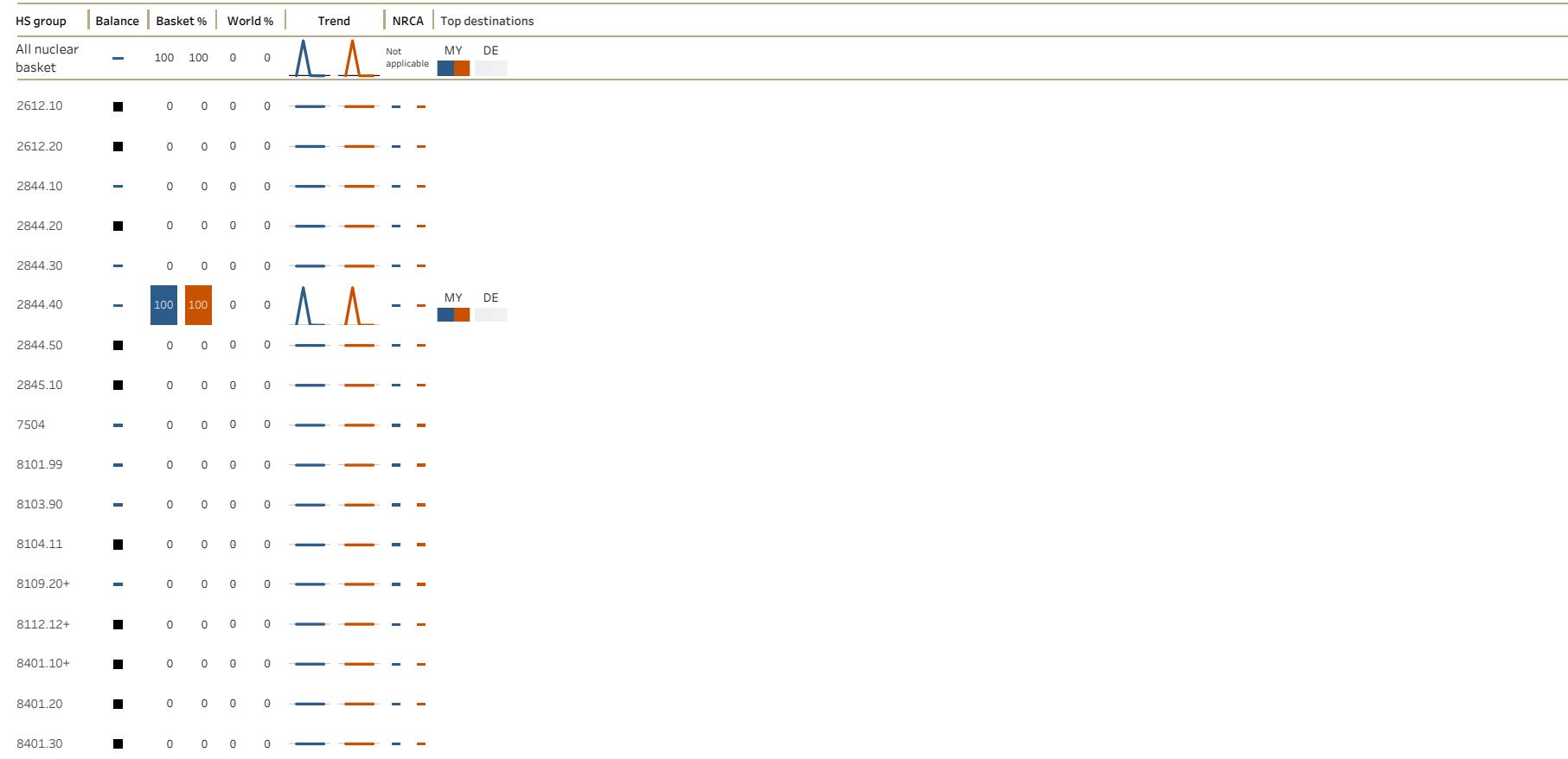


## Turkmenistan

### Export

Years 2016-2020 BACI records: 2

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.0 T

Figure 180: Turkmenistan

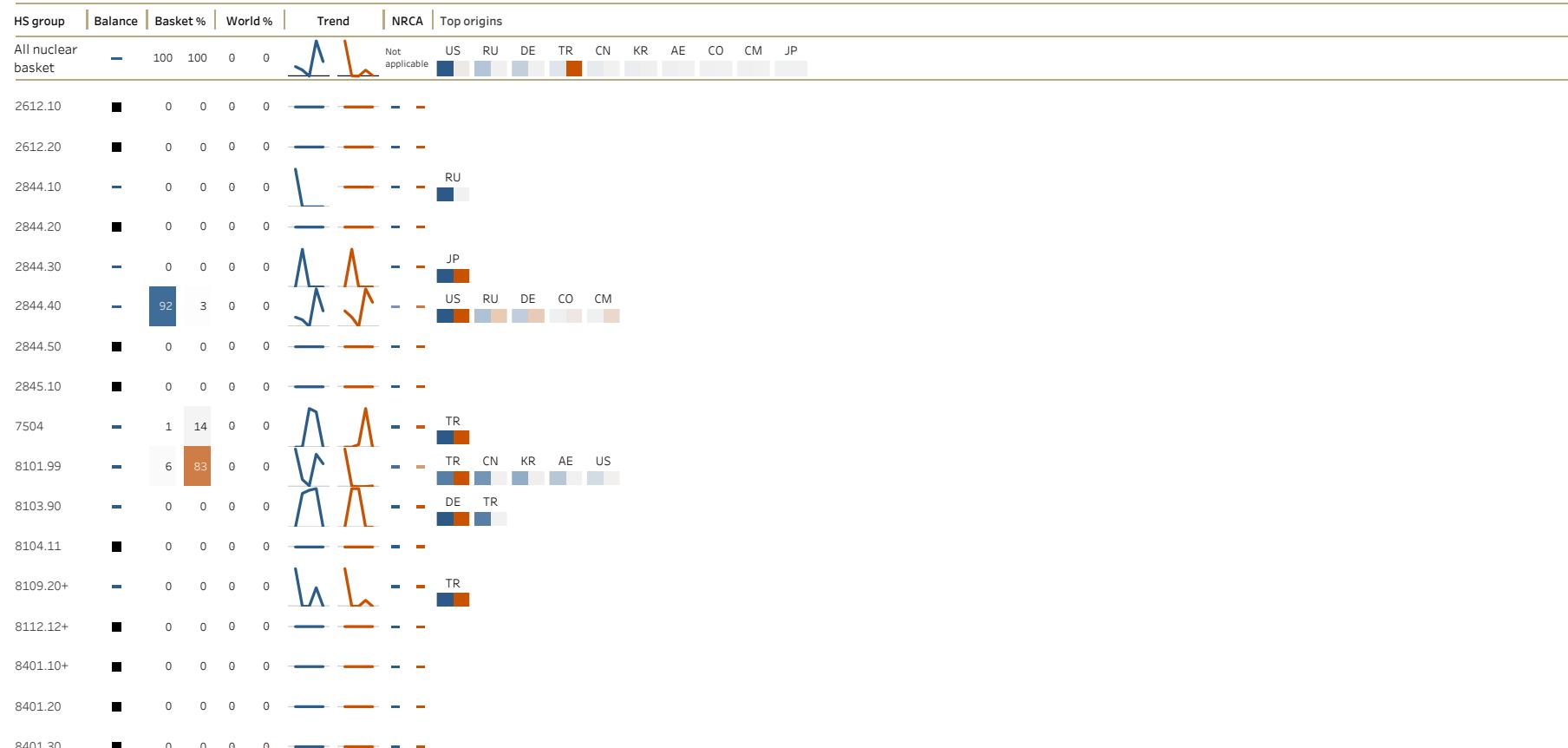


# Turkmenistan

## Import

Years 2016-2020 BACI records: 29

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.1 T

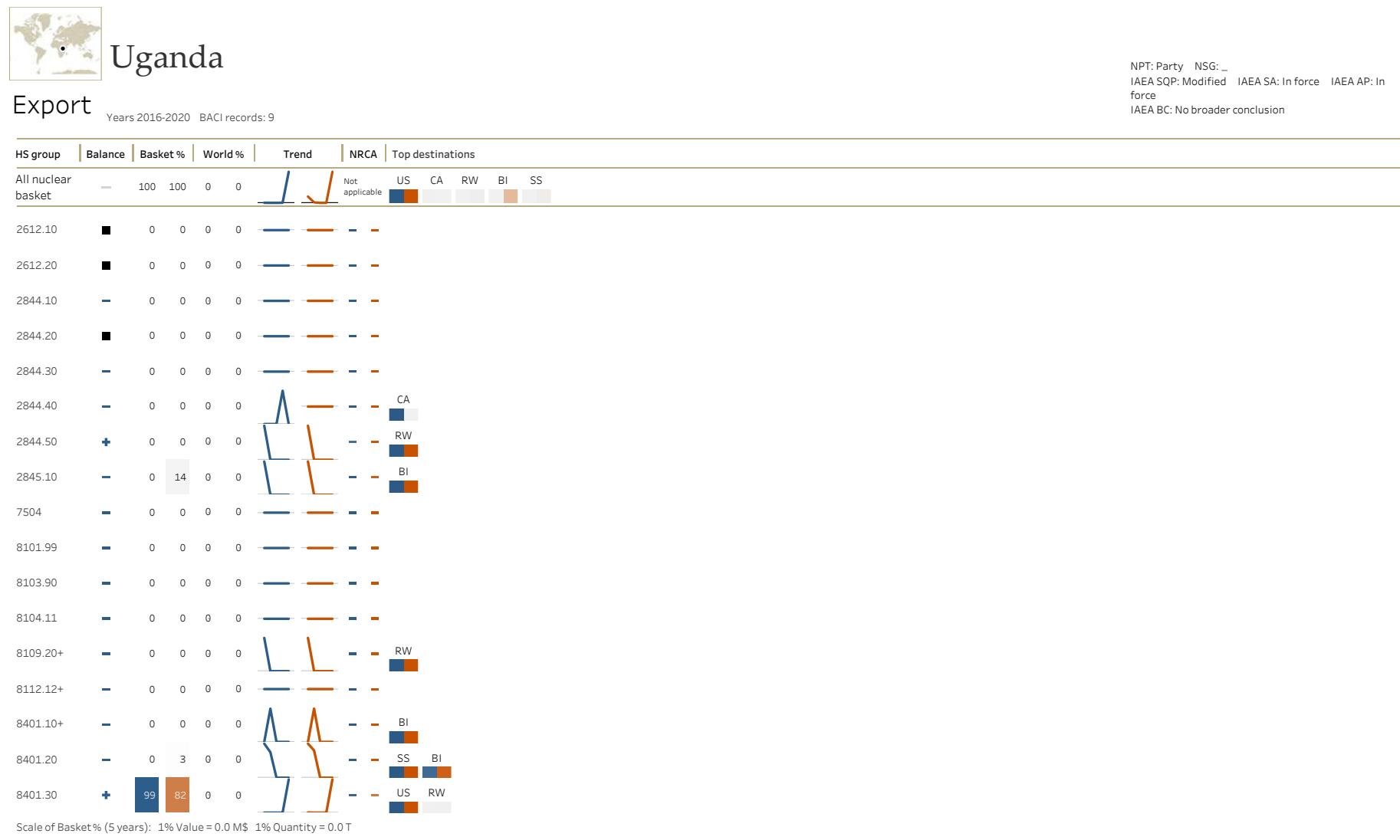


Figure 181: Uganda

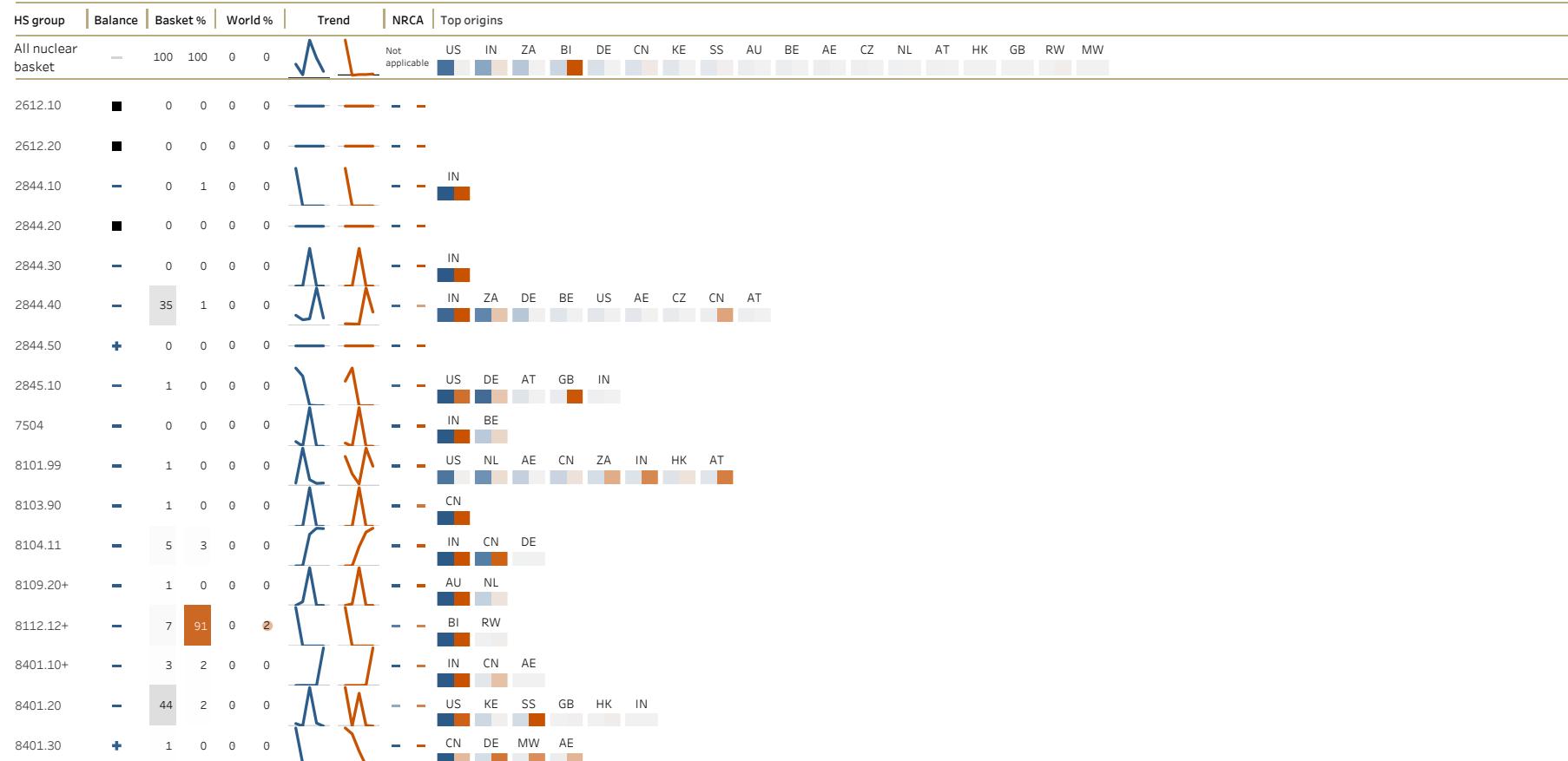


# Uganda

## Import

Years 2016-2020 BACI records: 65

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 4.2 T



## Ukraine

### Export

Years 2016-2020 BACI records: 113

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: In force IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion

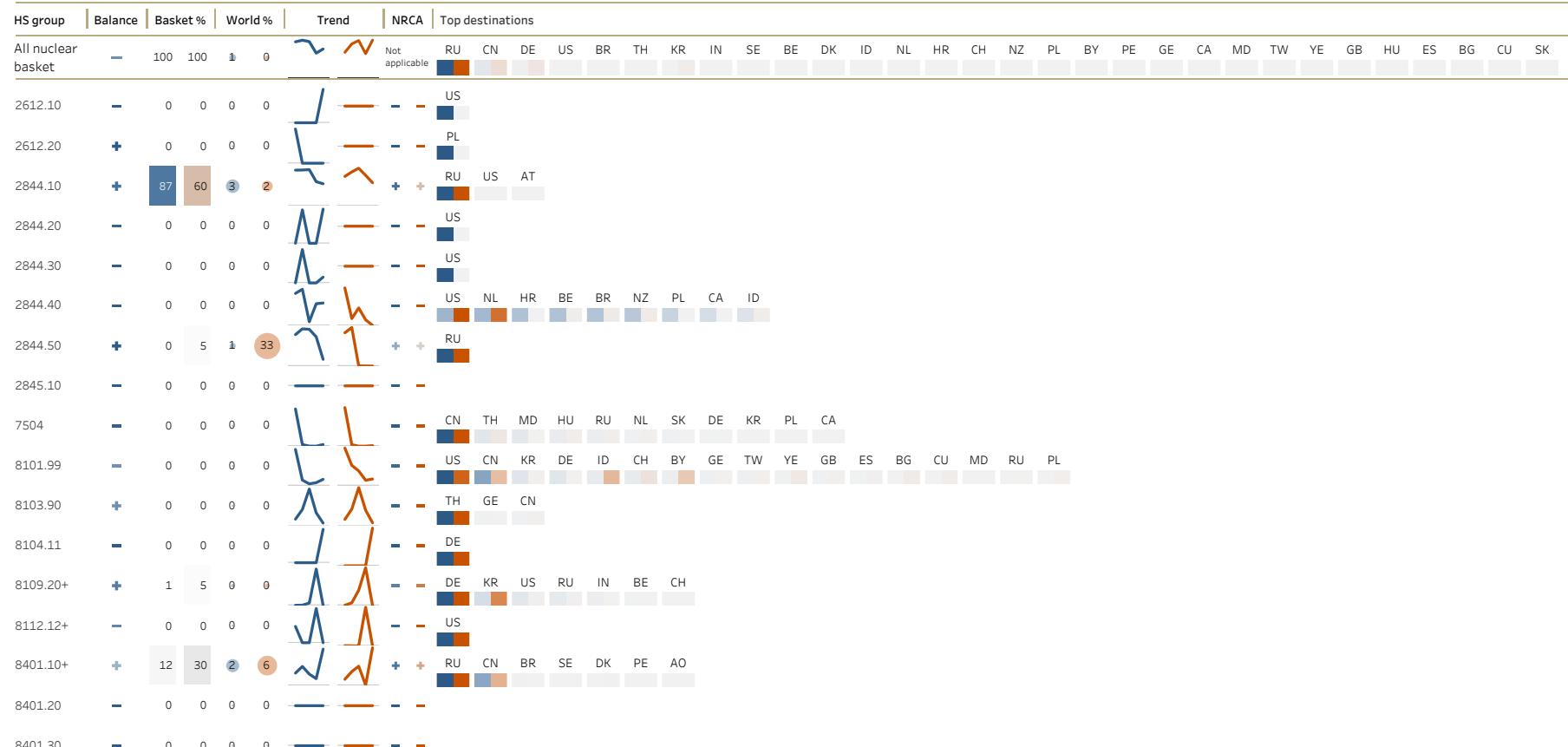


Figure 182: Ukraine

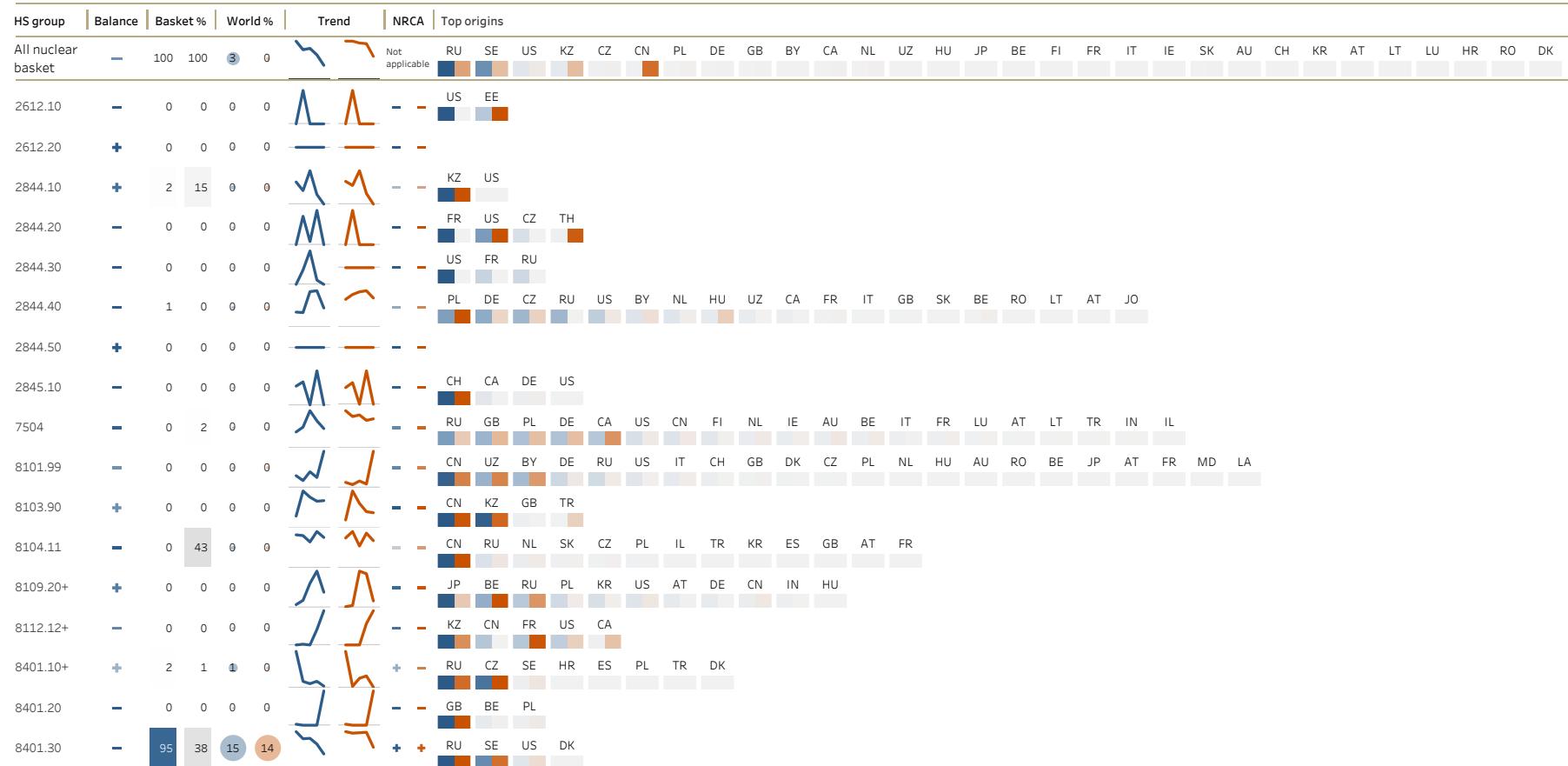


# Ukraine

## Import

Years 2016-2020 BACI records: 323

**Non-proliferation commitments**  
 NPT: Party NSG: Member  
 IAEA SQP: IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 23.8 M\$ 1% Quantity = 62.2 T



## United Arab Emirates

### Export

Years 2016-2020 BACI records: 425

**Non-proliferation commitments**  
 NPT: Party NSG:—  
 IAEA SQP:— IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion

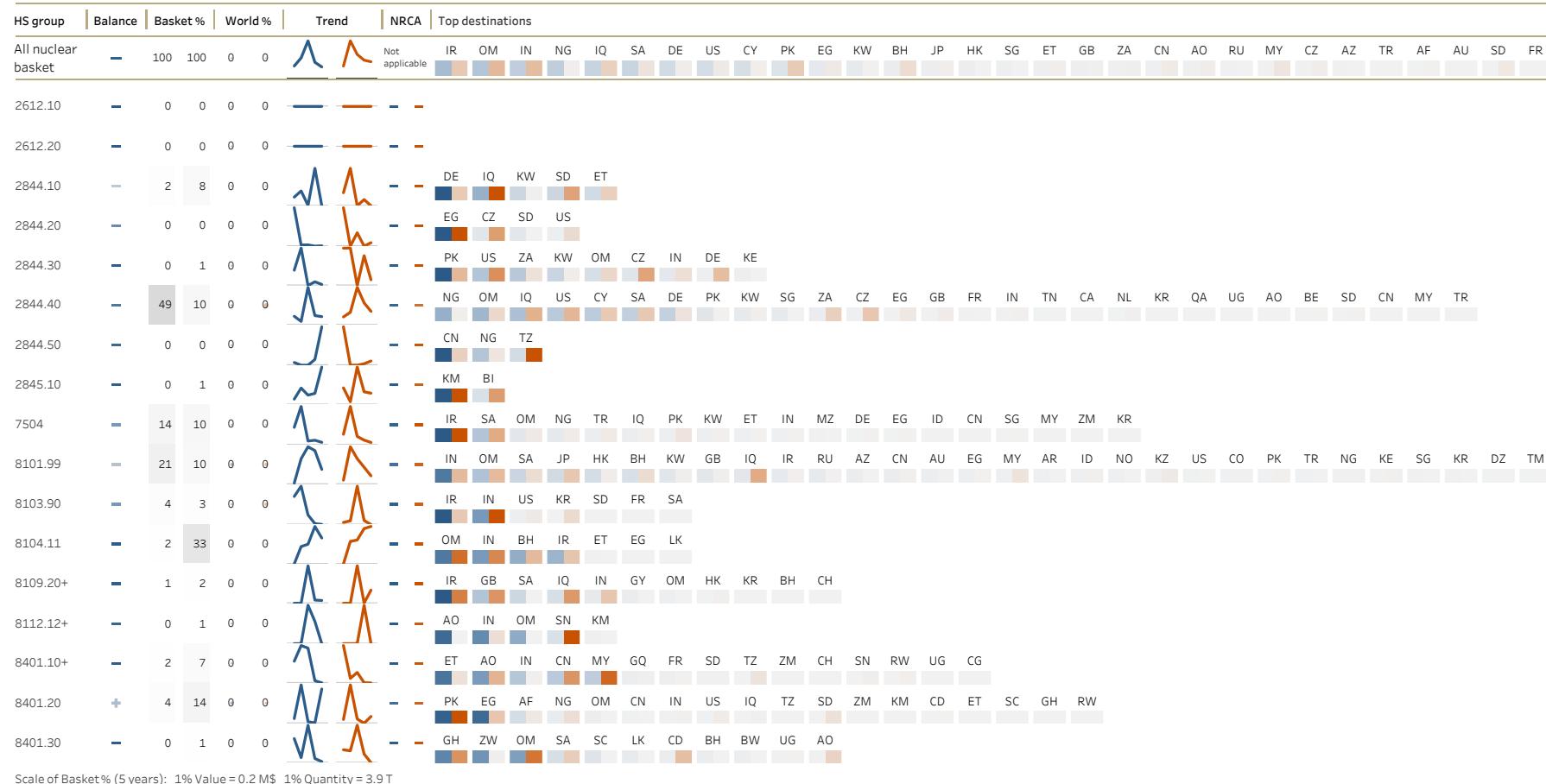


Figure 183: United Arab Emi-  
rates

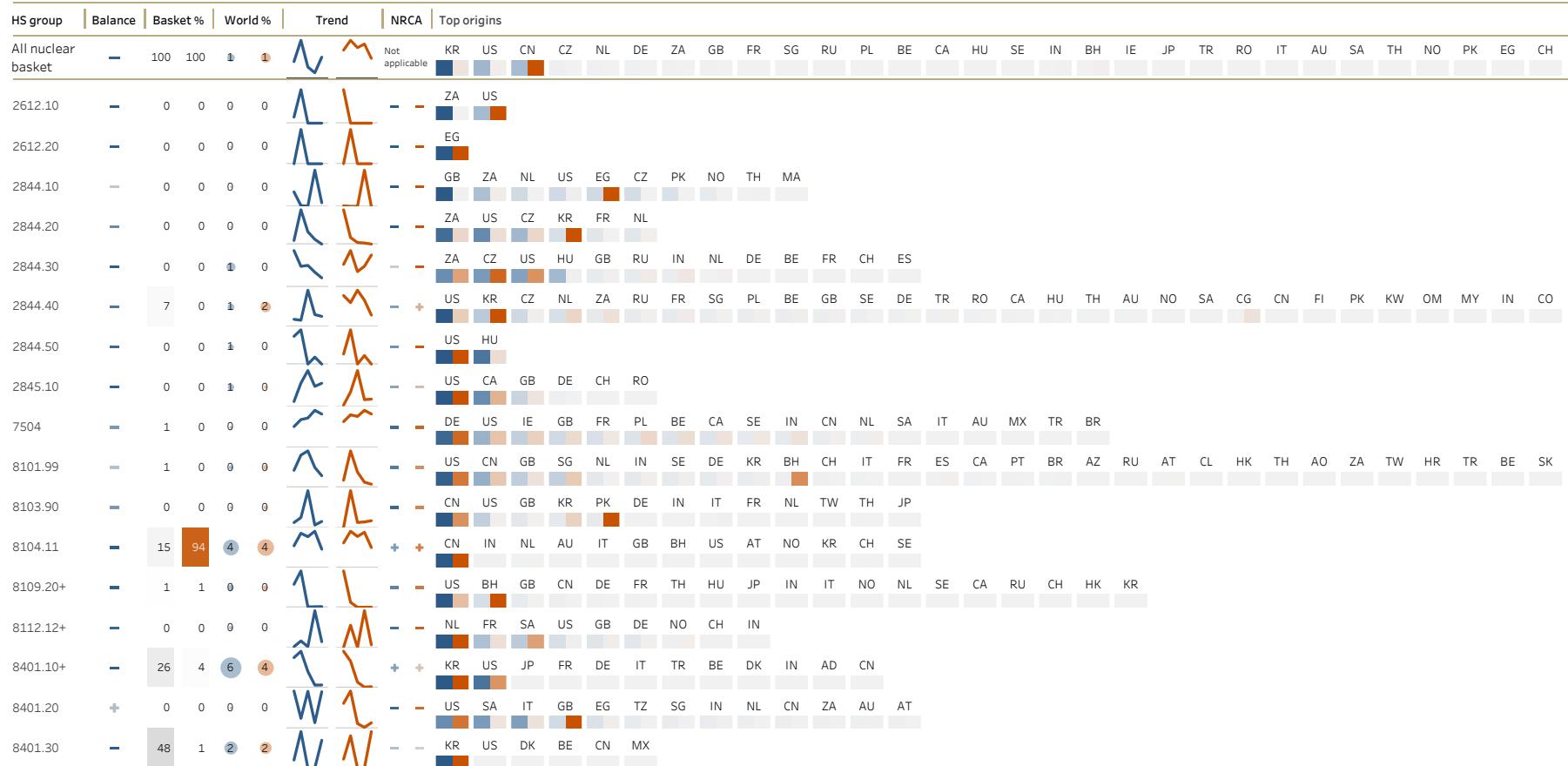


# United Arab Emirates

## Import

Years 2016-2020 BACI records: 525

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 7.9 M\$ 1% Quantity = 521.8 T

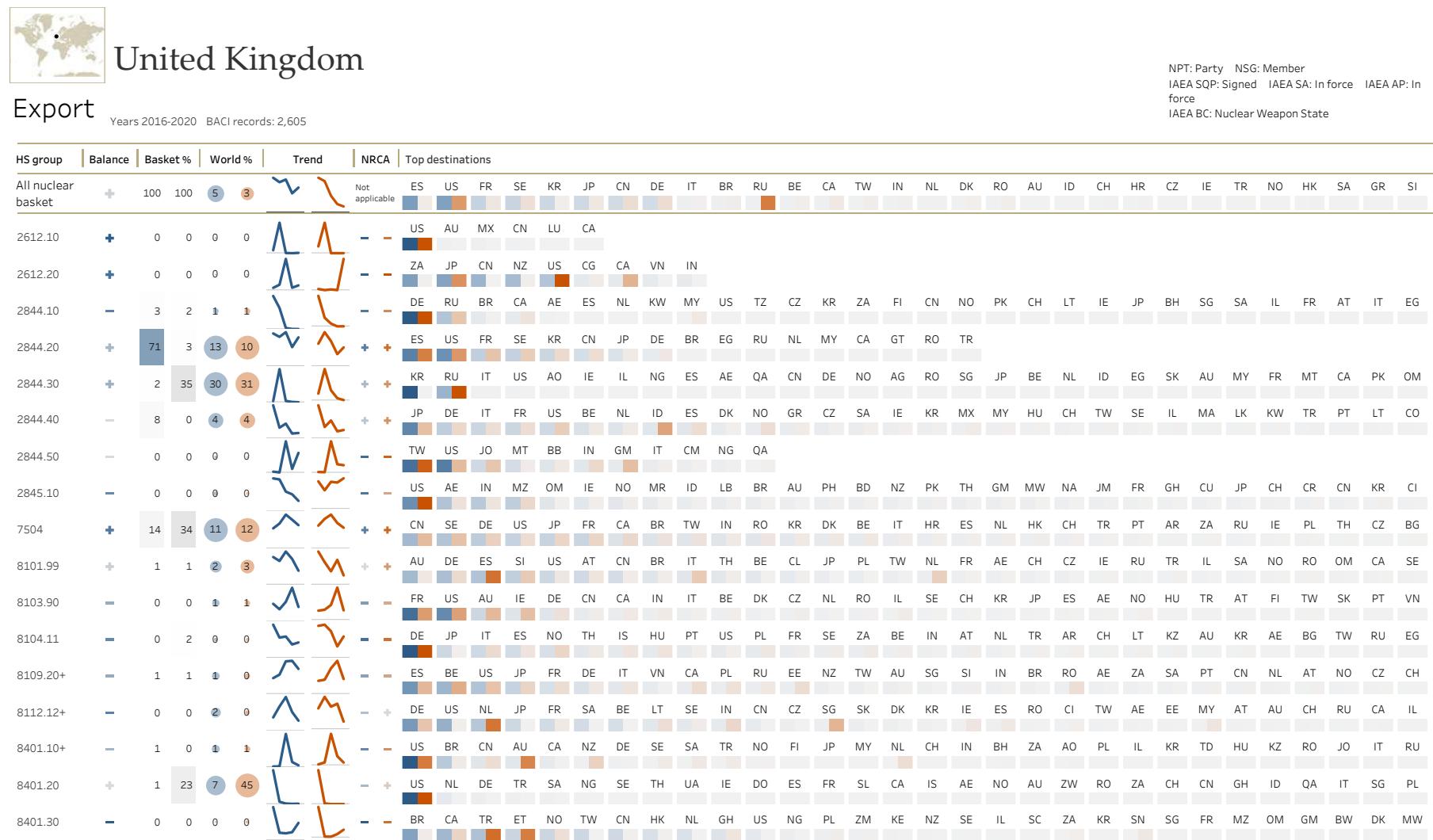


Figure 184: United Kingdom

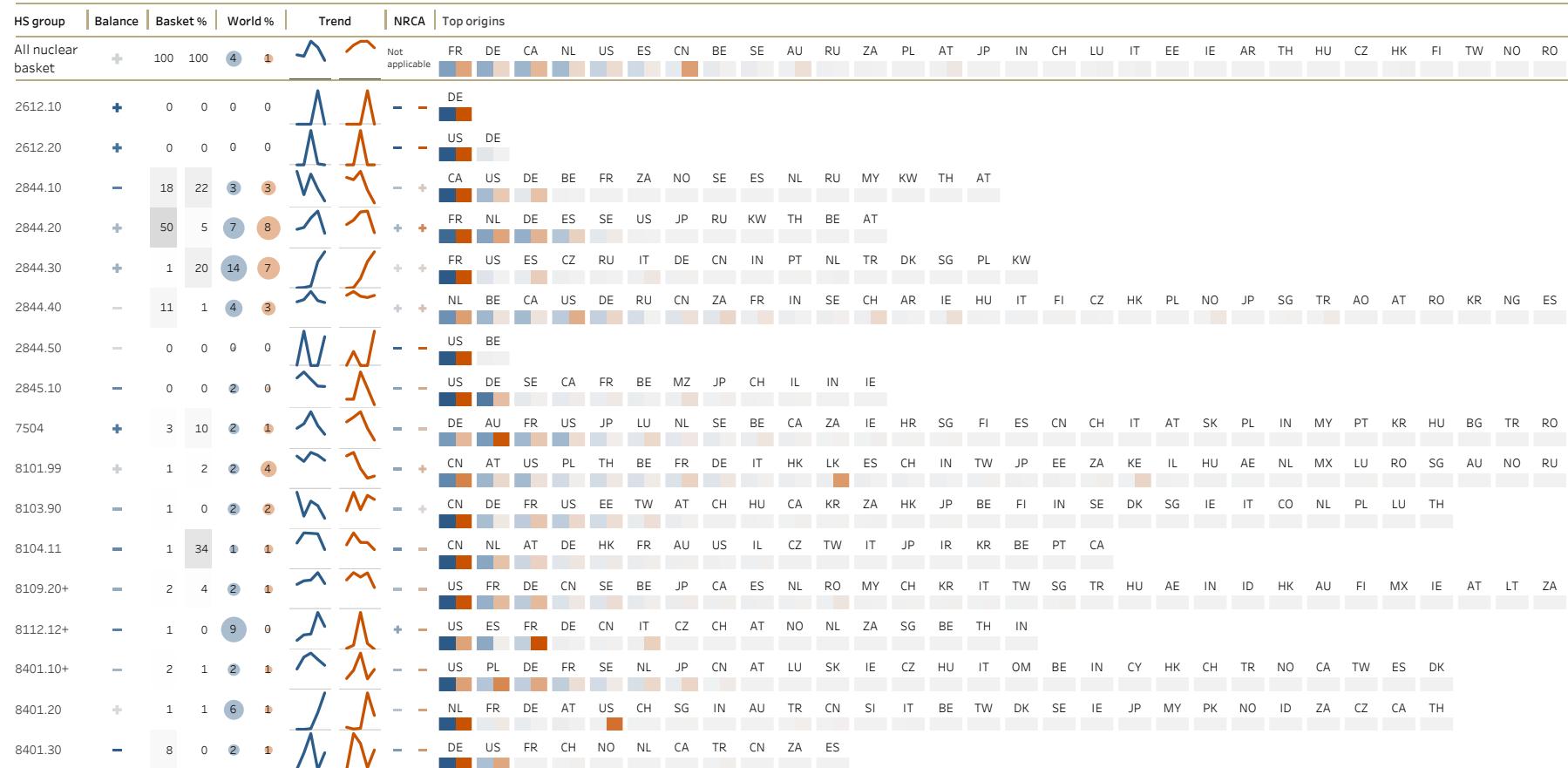


# United Kingdom

## Import

Years 2016-2020 BACI records: 1,103

NPT: Party NSG: Member  
IAEA SQP: Signed IAEA SA: In force IAEA AP: In  
force  
IAEA BC: Nuclear Weapon State



Scale of Basket% (5 years): 1% Value = 34.1 M\$ 1% Quantity = 449.0 T

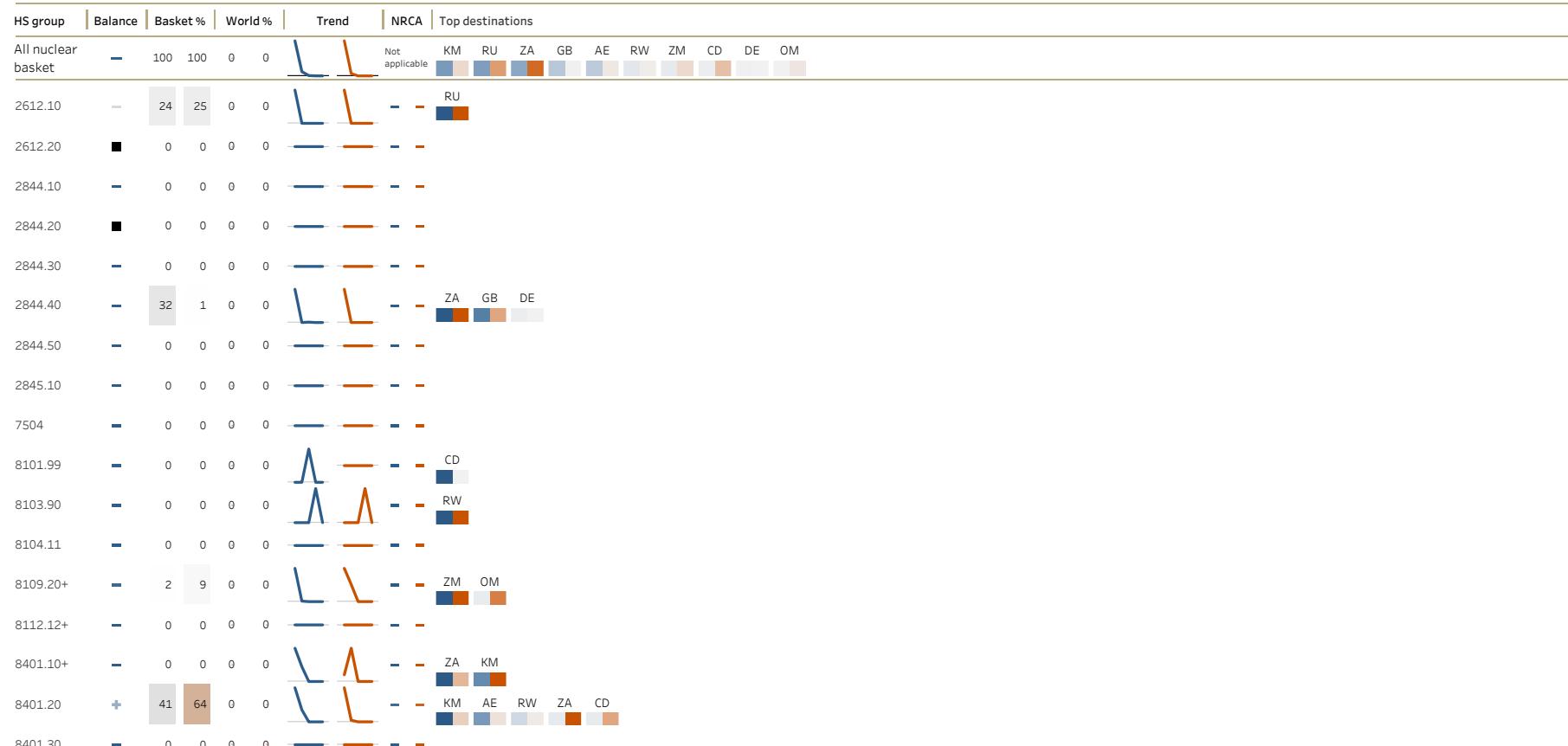


## United Rep. of Tanzania

Export

Years 2016-2020 BACI records: 15

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.0 T

Figure 185: United Rep. of Tanzania

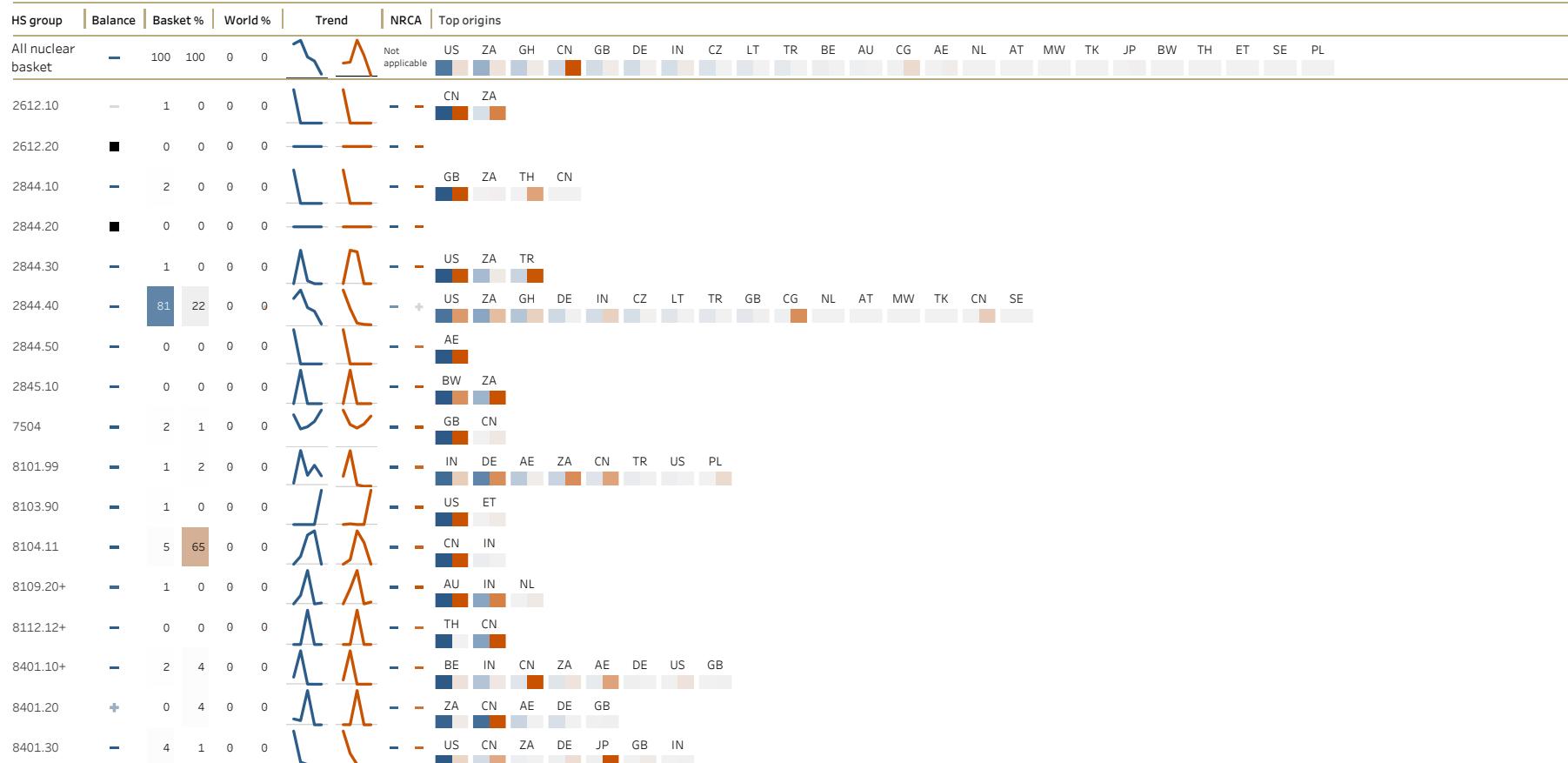


## United Rep. of Tanzania

### Import

Years 2016-2020 BACI records: 110

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 1.0 T



Figure 186. Uruguay

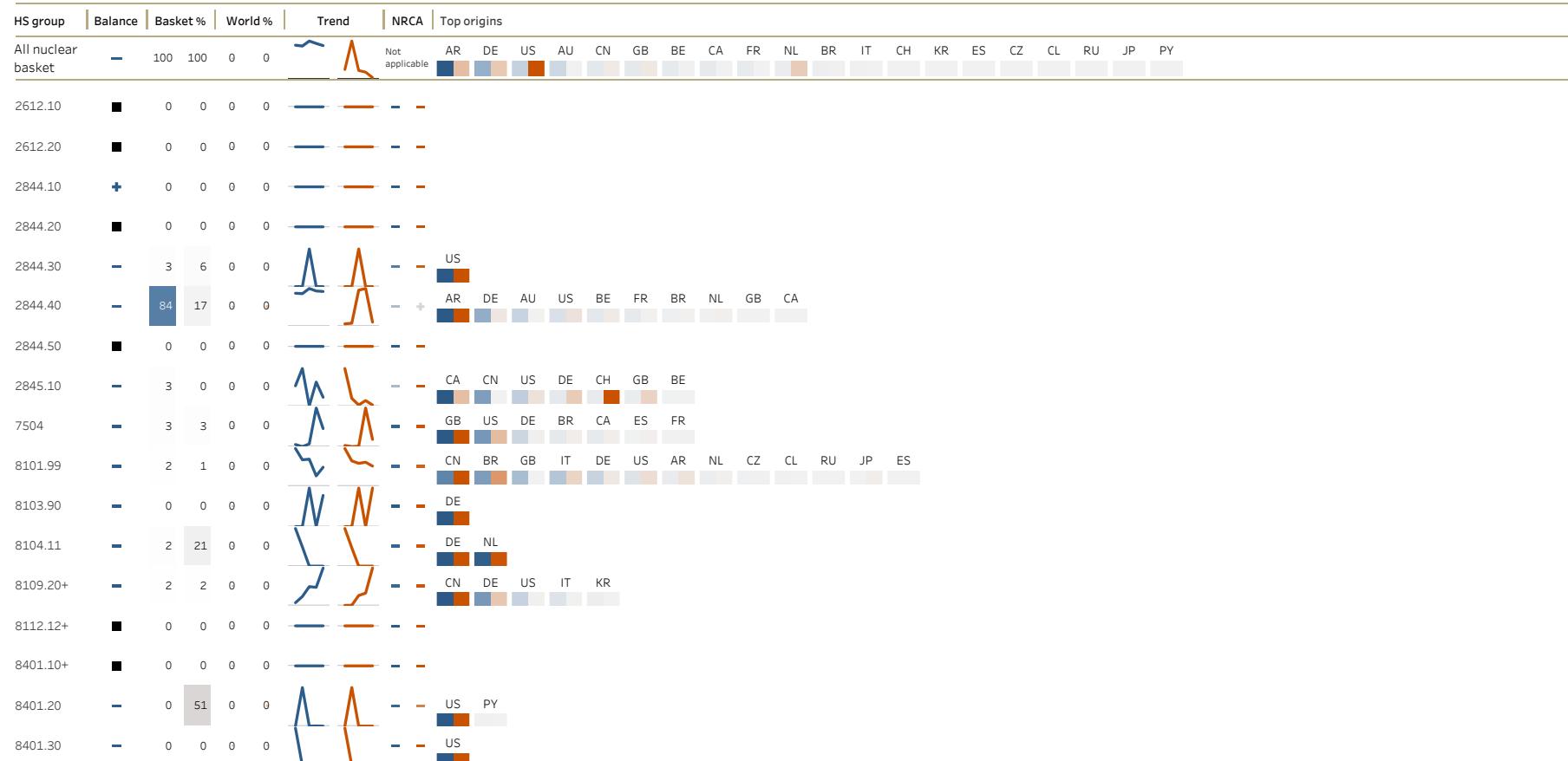


# Uruguay

## Import

Years 2016-2020 BACI records: 121

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 1.3 T

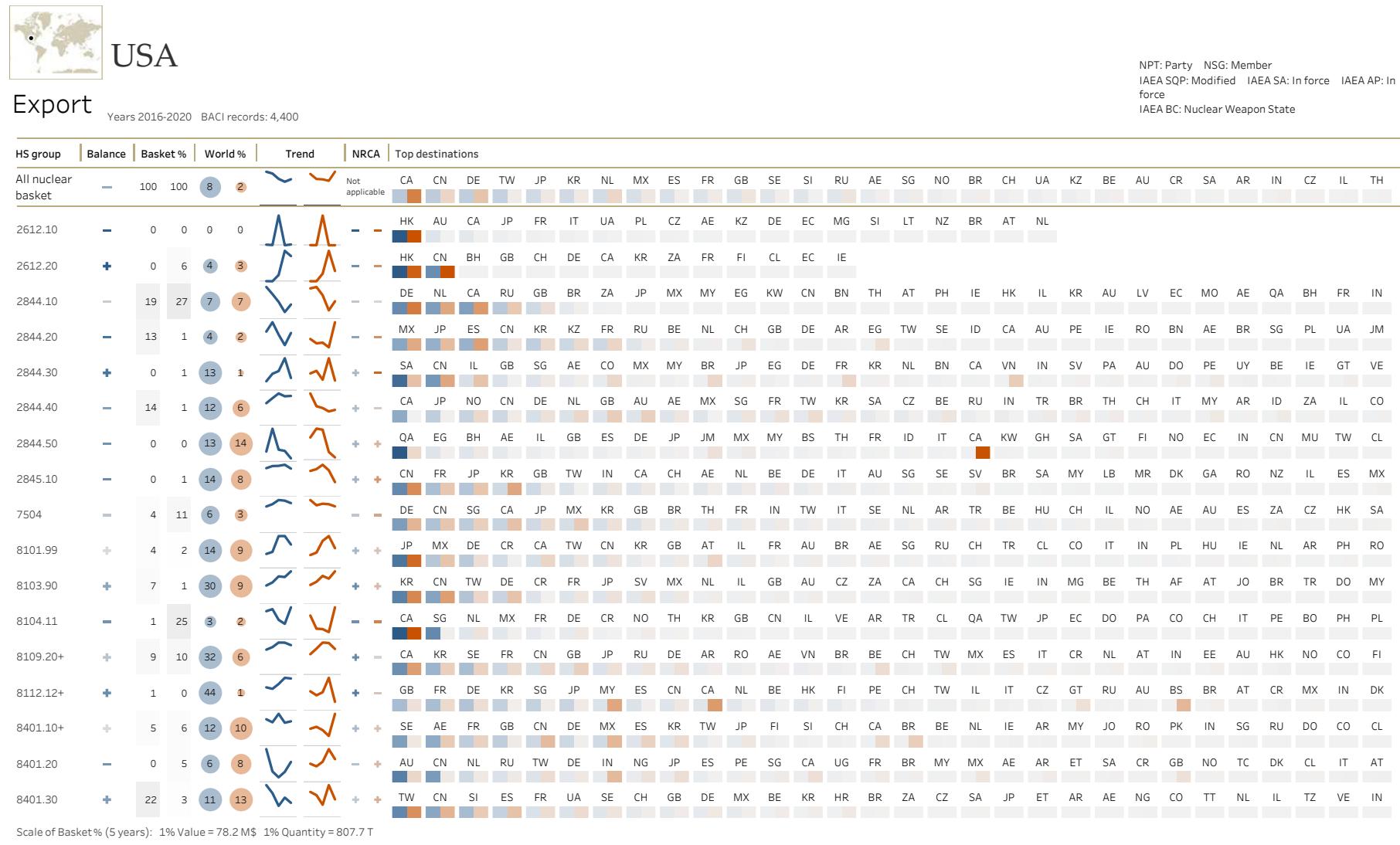


Figure 187: USA

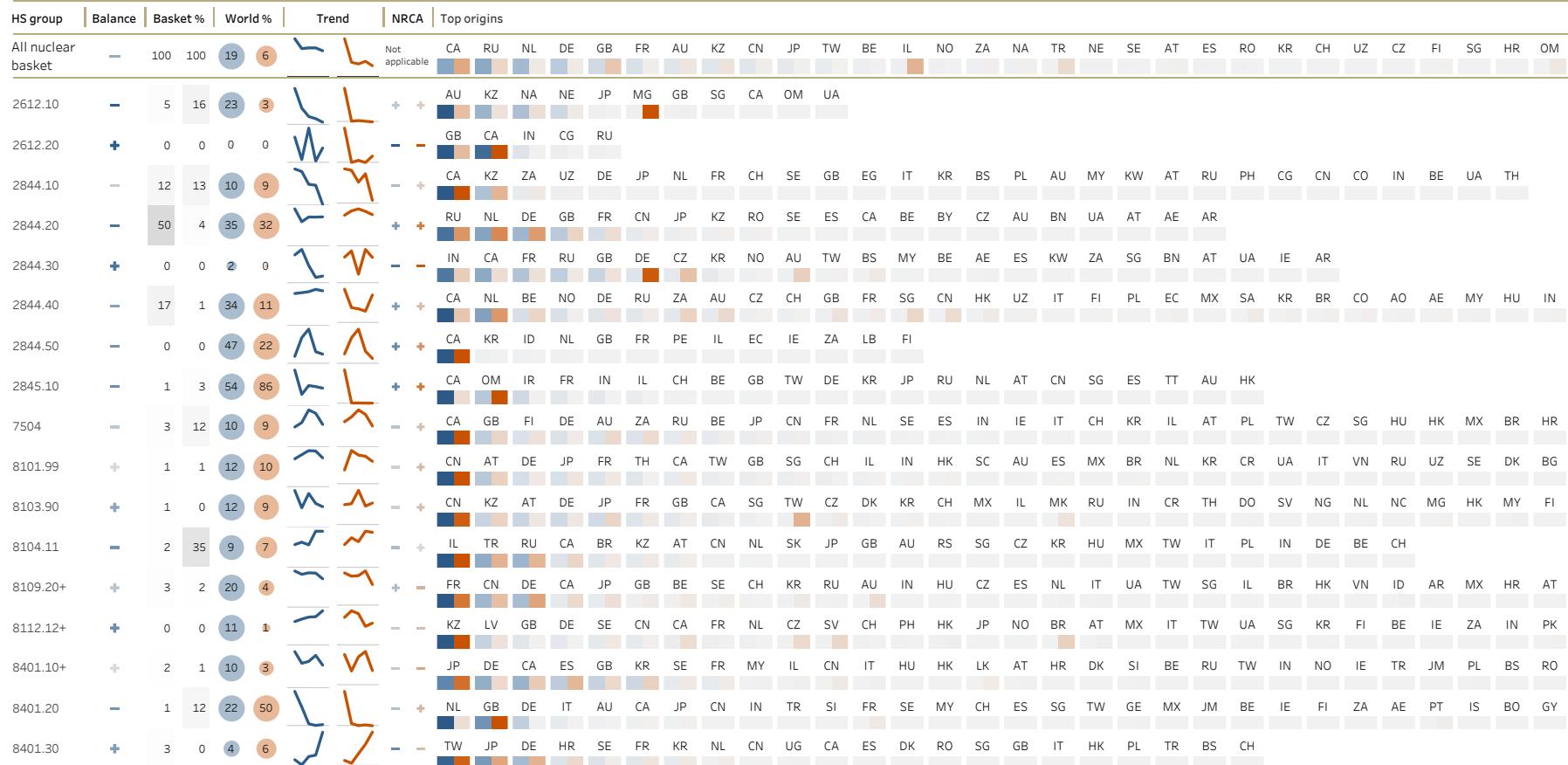


USA

## Import

Years 2016-2020 BACI records: 1,750

NPT: Party NSG: Member  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: Nuclear Weapon State



Scale of Basket% (5 years): 1% Value = 175.8 M\$ 1% Quantity = 2,343.2 T



## Uzbekistan

### Export

Years 2016-2020 BACI records: 61

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion

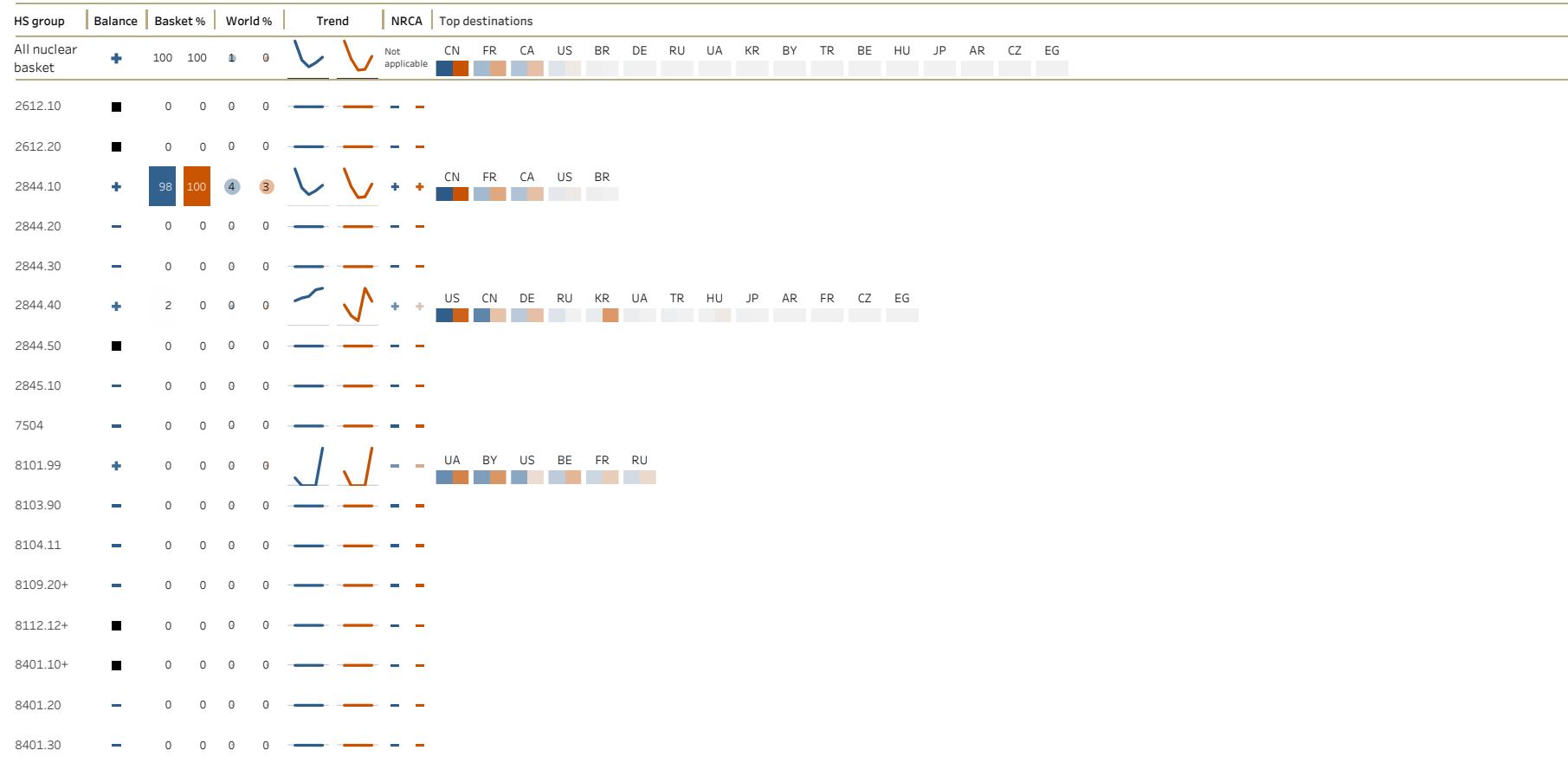


Figure 188: Uzbekistan

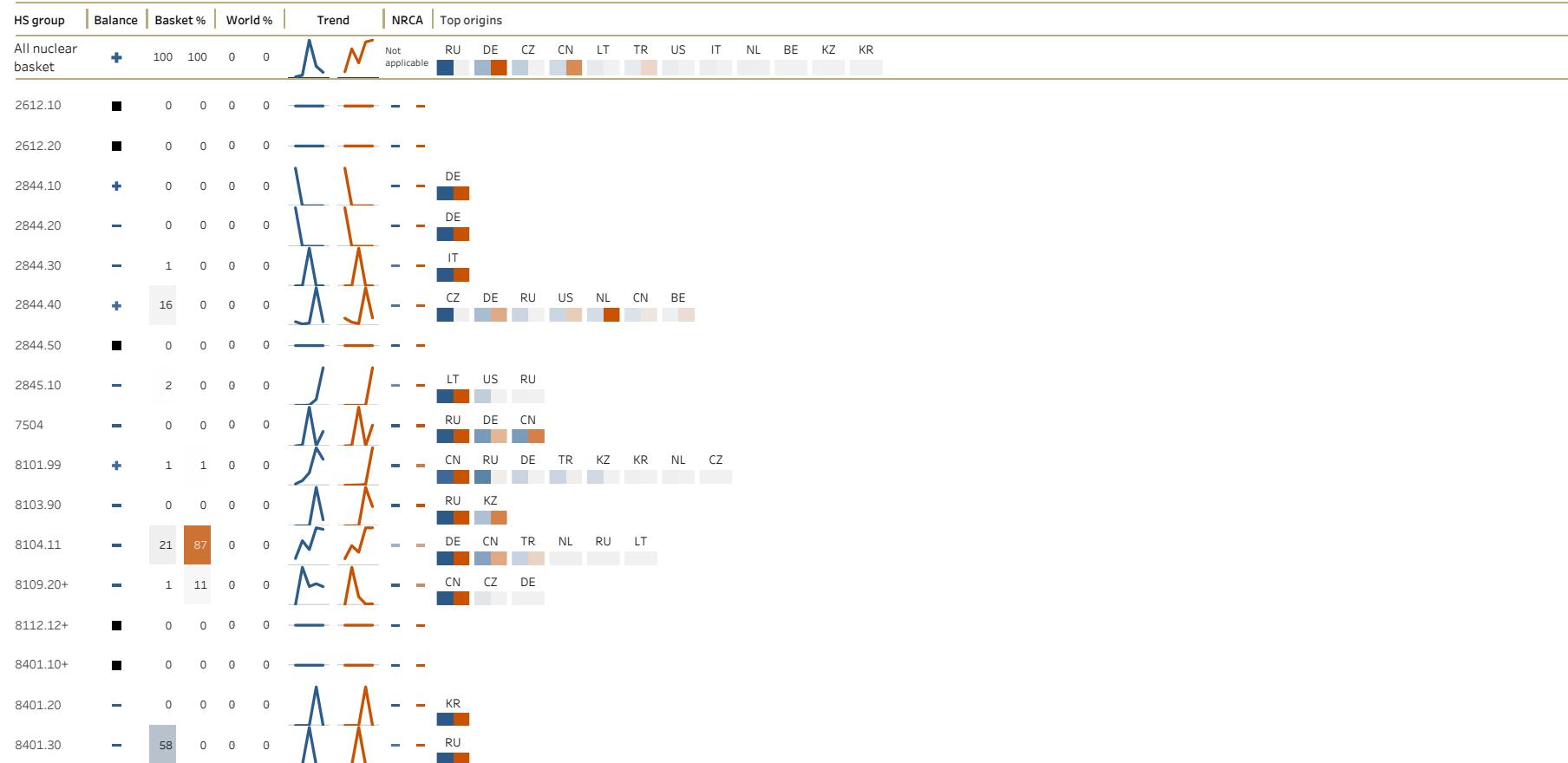


# Uzbekistan

## Import

Years 2016-2020 BACI records: 85

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 0.1 M\$ 1% Quantity = 8.9 T



## Venezuela

### Export

Years 2016-2020 BACI records: 8

**Non-proliferation commitments**  
 NPT: Party NSG: \_\_  
 IAEA SQP: \_\_ IAEA SA: In force IAEA AP: \_\_  
 IAEA BC: No broader conclusion

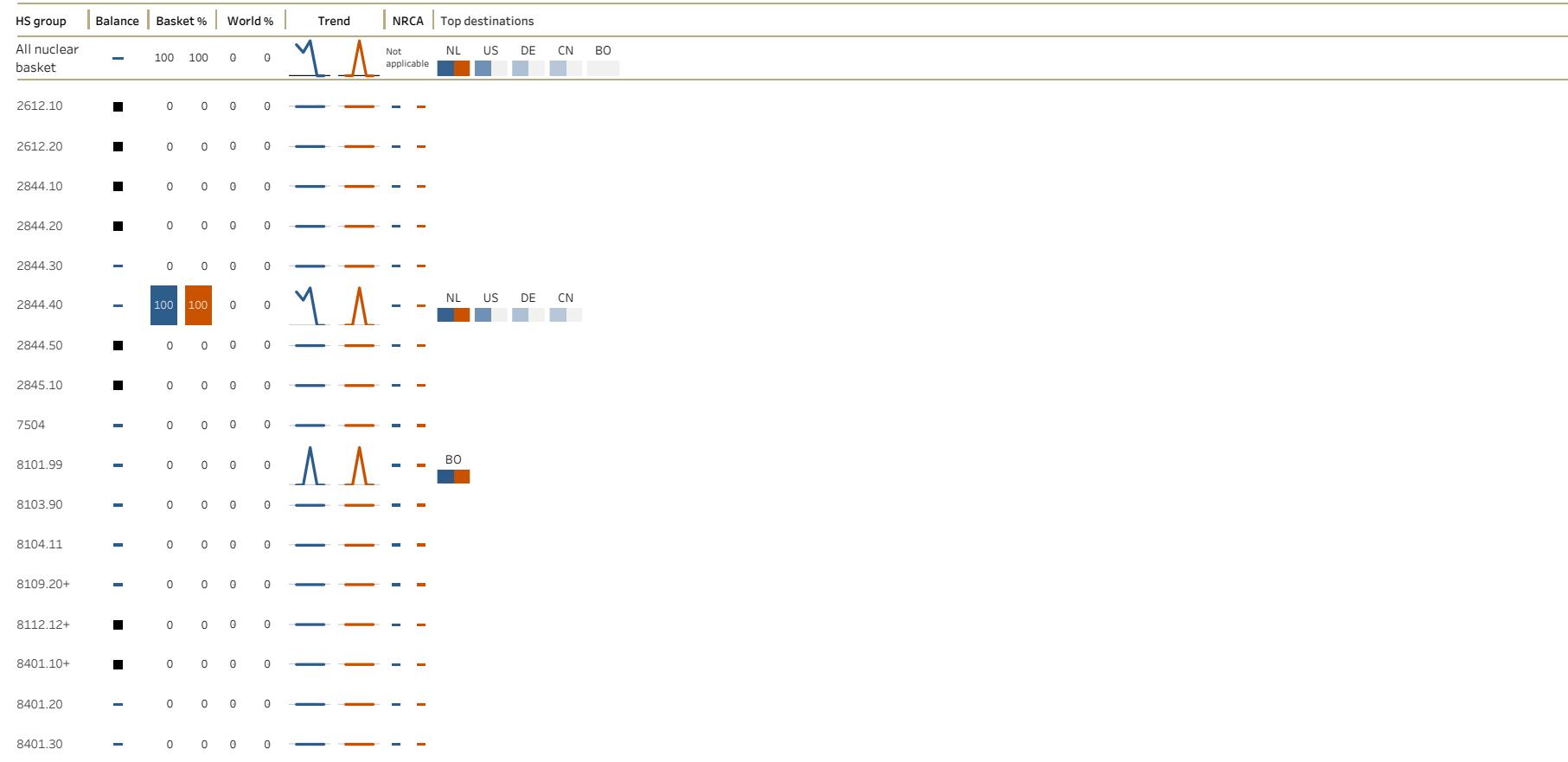


Figure 189: Venezuela

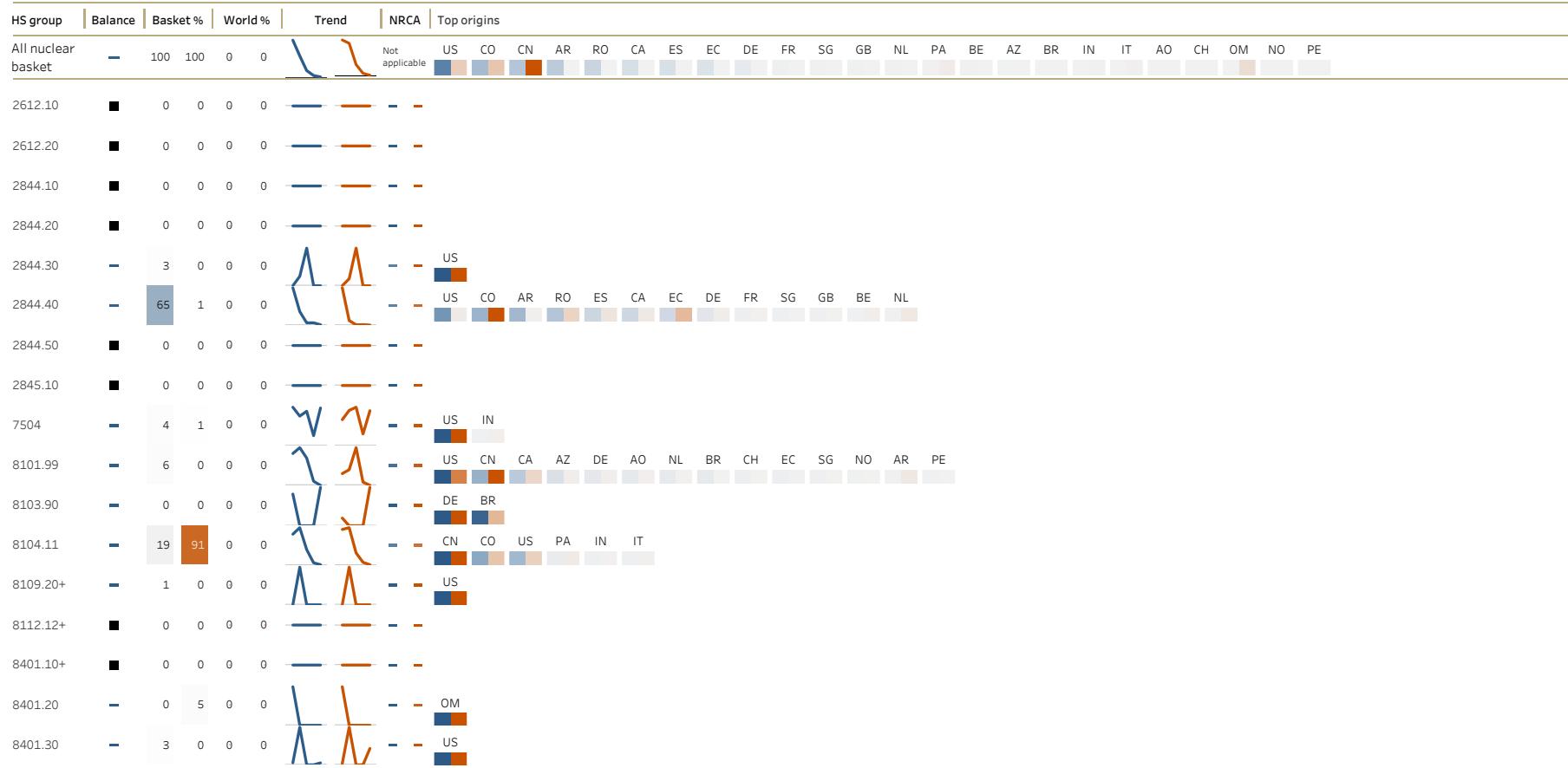


# Venezuela

## Import

Years 2016-2020 BACI records: 77

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: —  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 2.0 T

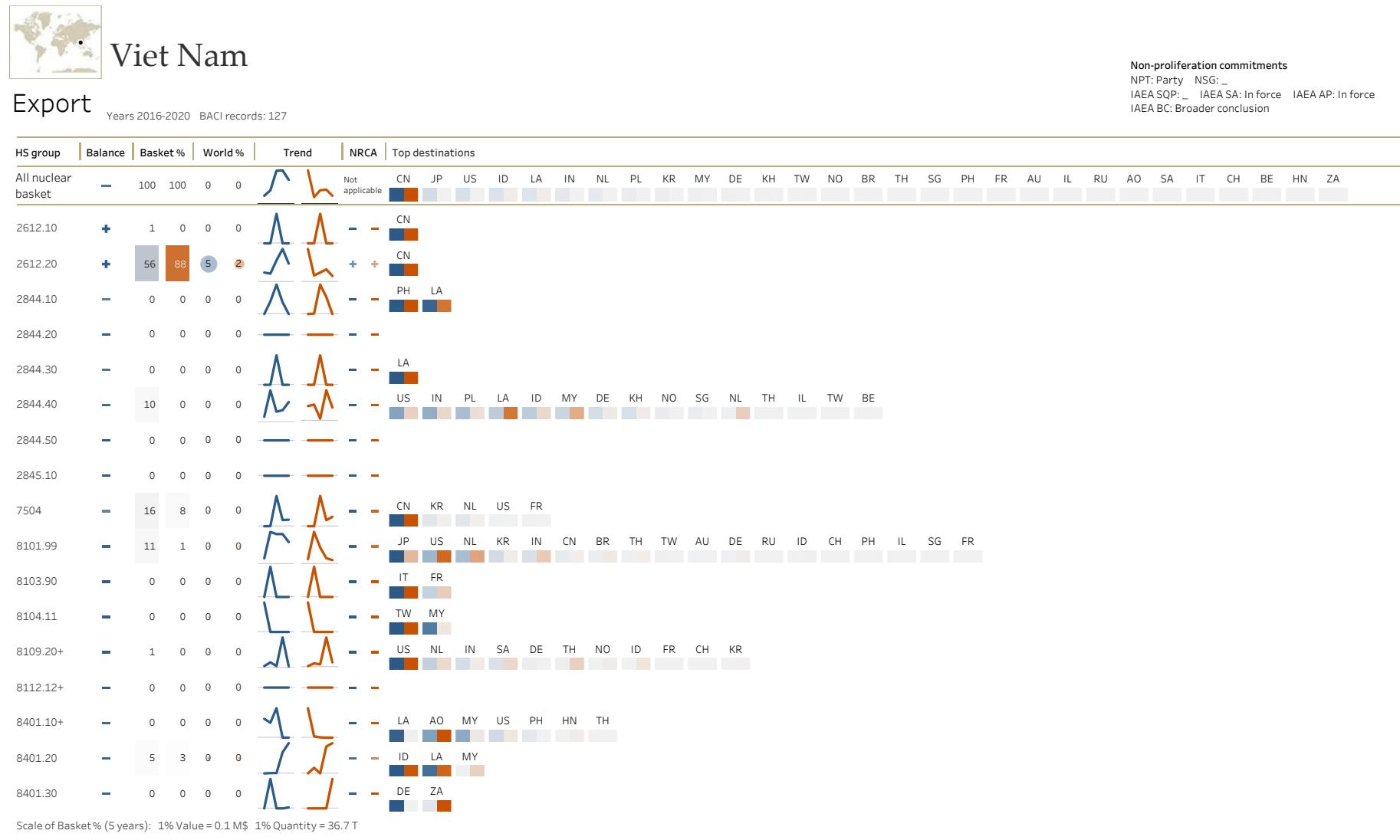


Figure 190: Viet Nam

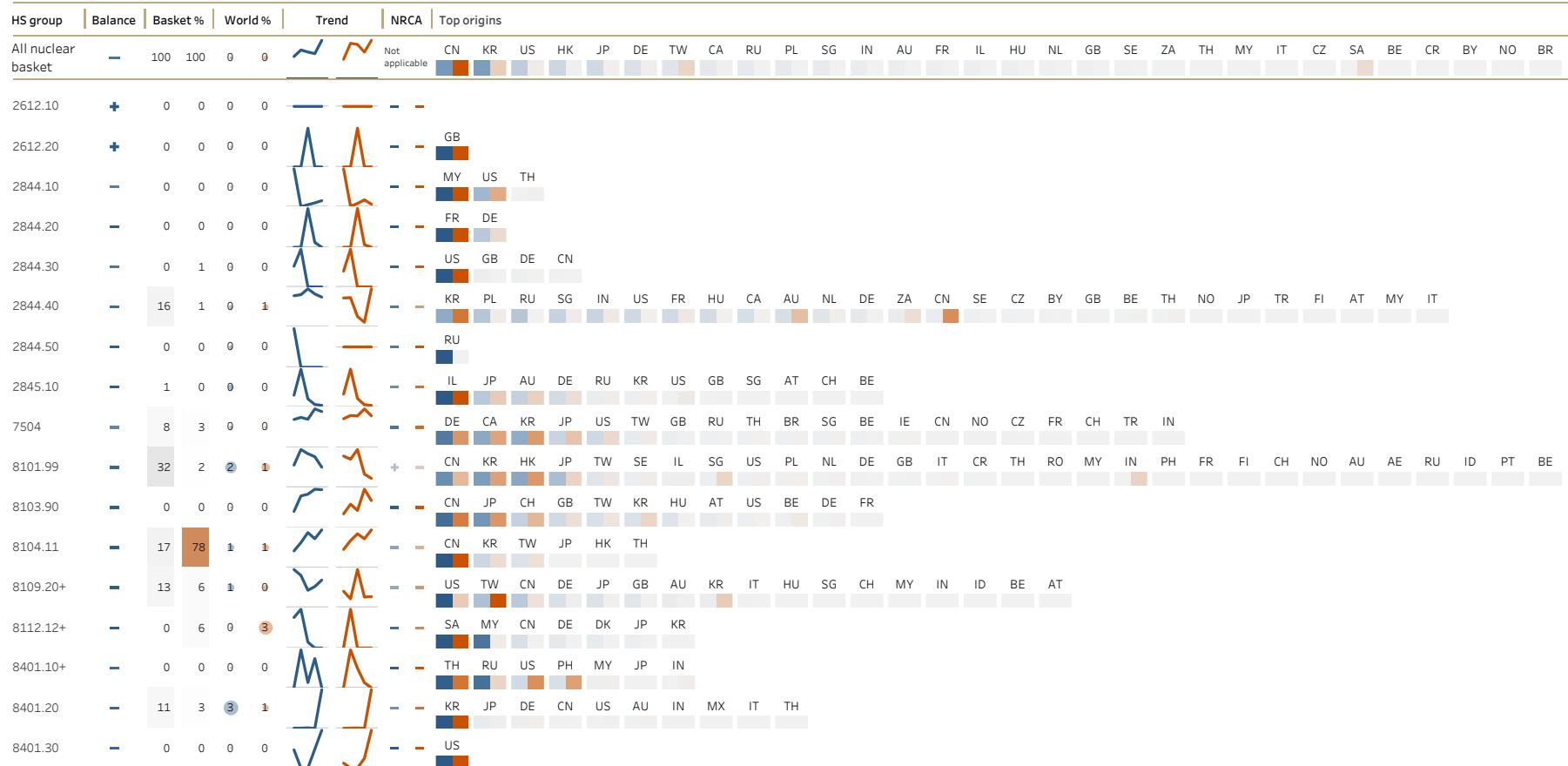


# Viet Nam

## Import

Years 2016-2020 BACI records: 461

**Non-proliferation commitments**  
 NPT: Party NSG: —  
 IAEA SQP: — IAEA SA: In force IAEA AP: In force  
 IAEA BC: Broader conclusion



Scale of Basket% (5 years): 1% Value = 1.2 M\$ 1% Quantity = 106.5 T



## Zambia

### Export

Years 2016-2020 BACI records: 12

NPT: Party NSG: –  
 IAEA SQP: Original IAEA SA: In force IAEA AP:  
 Signed  
 IAEA BC: No broader conclusion

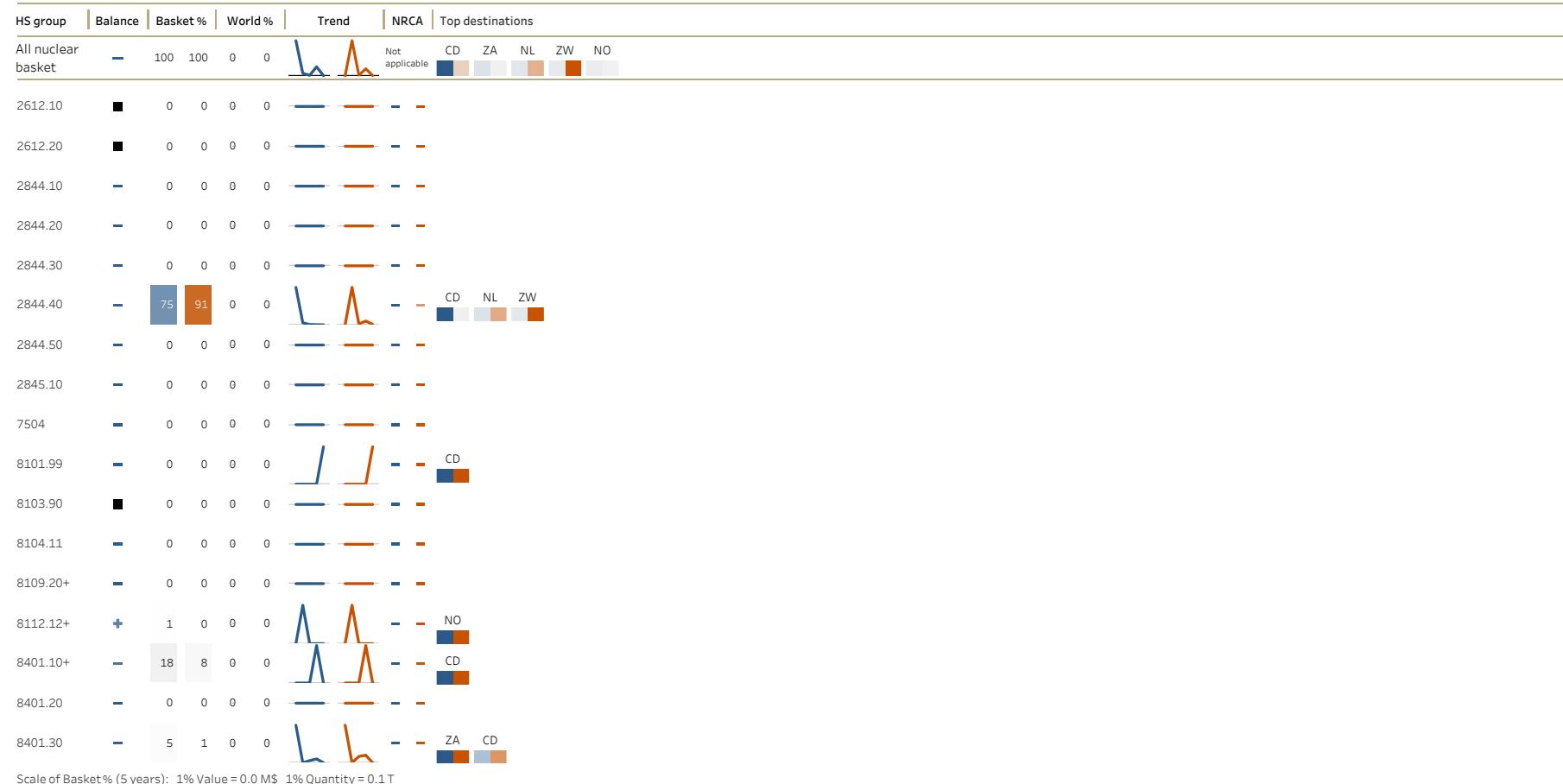


Figure 191: Zambia

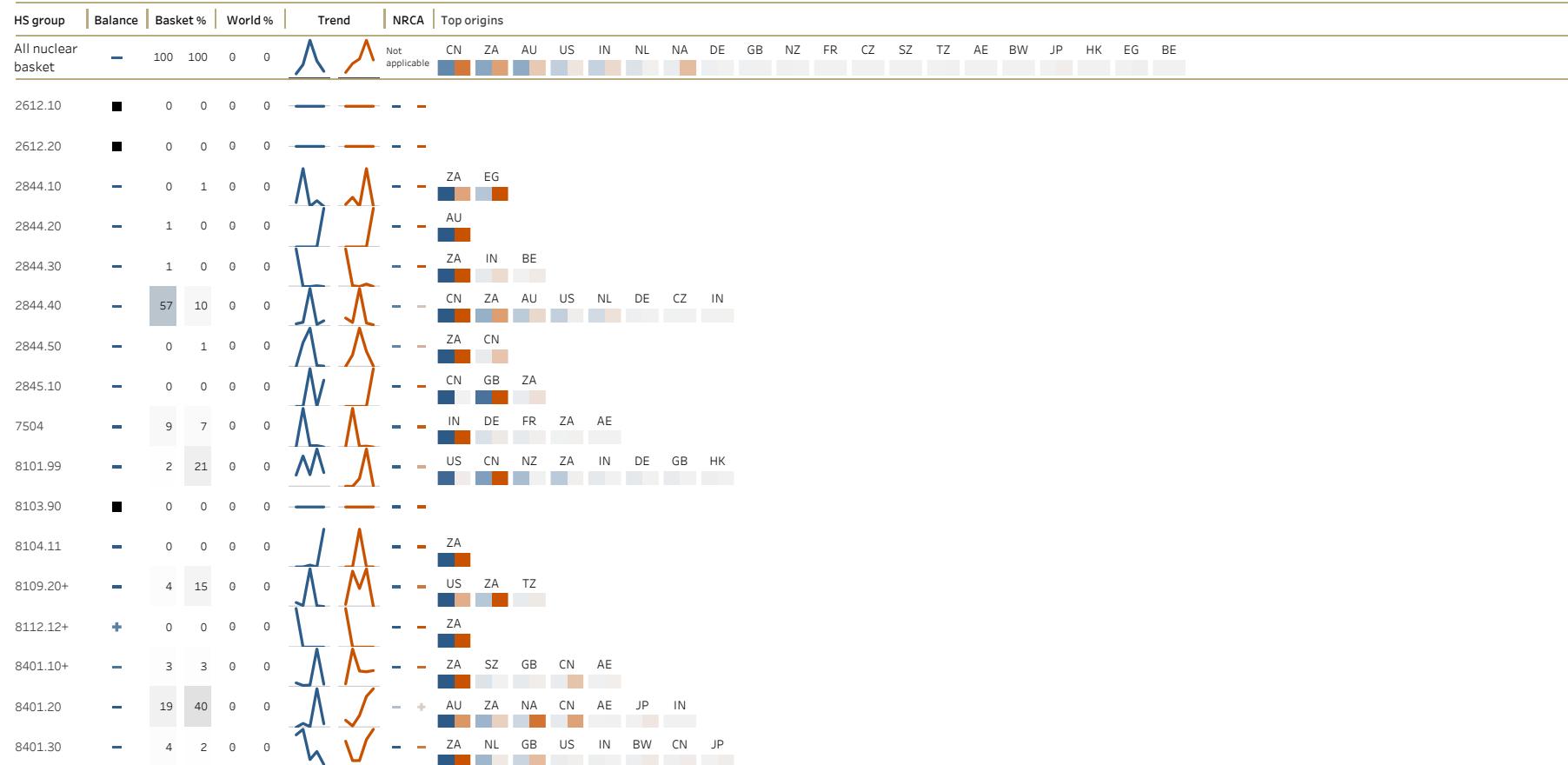


# Zambia

## Import

Years 2016-2020 BACI records: 119

NPT: Party NSG: –  
IAEA SQP: Original IAEA SA: In force IAEA AP:  
Signed  
IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.7 T

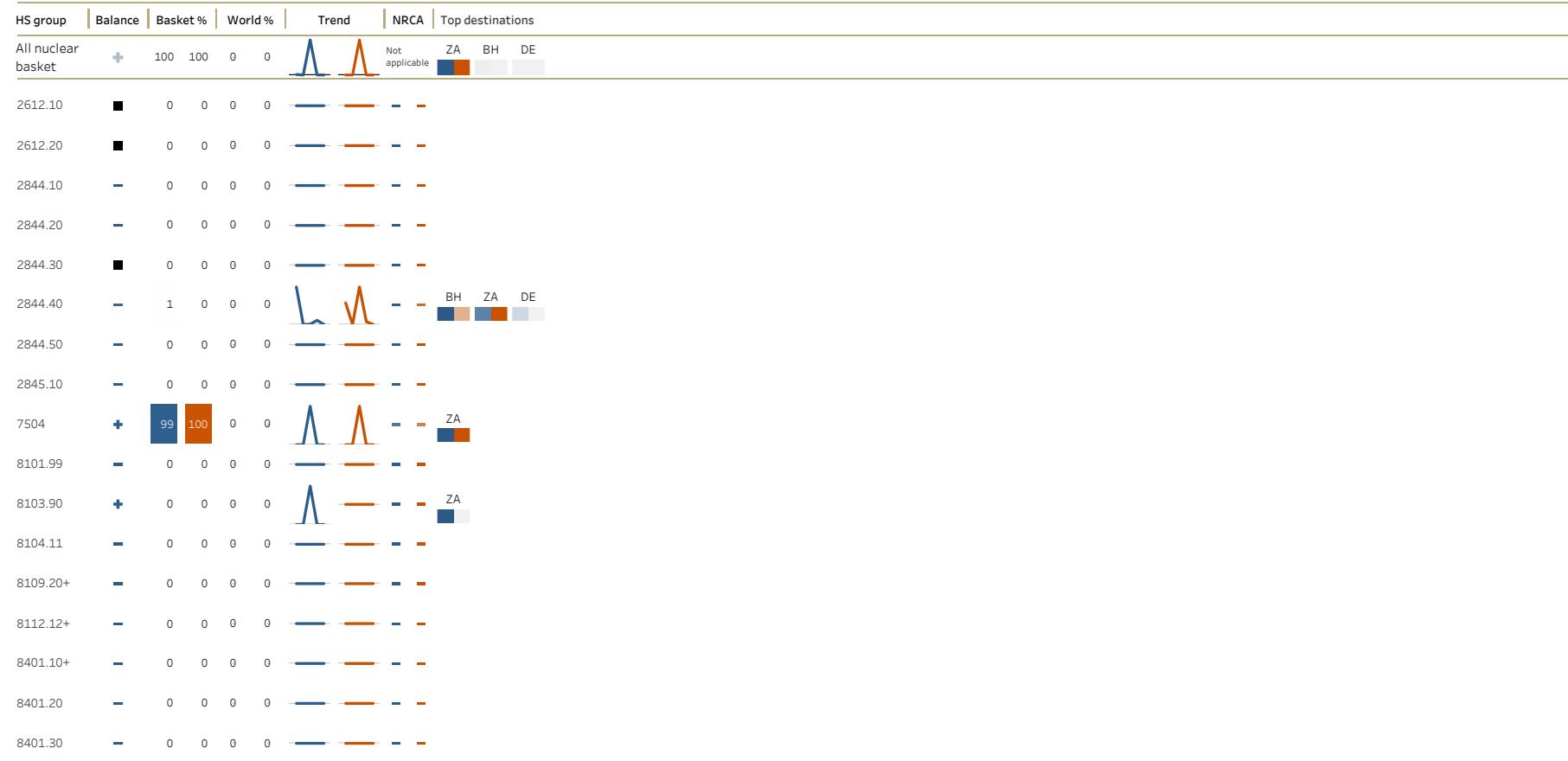


## Zimbabwe

### Export

Years 2016-2020 BACI records: 7

NPT: Party NSG: –  
IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
force  
IAEA BC: No broader conclusion



Scale of Basket % (5 years): 1% Value = 0.0 M\$ 1% Quantity = 3.6 T

Figure 192: Zimbabwe

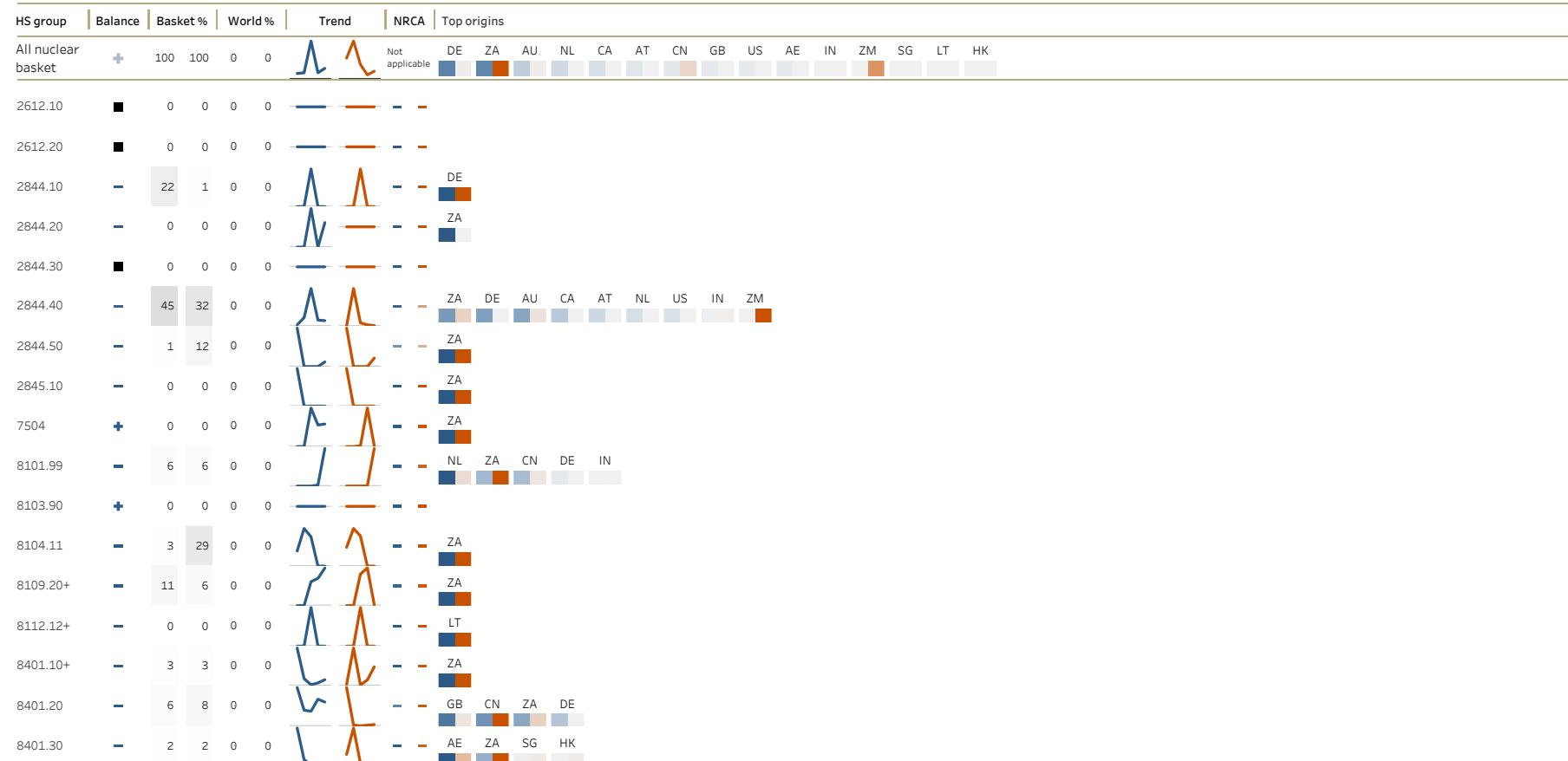


# Zimbabwe

## Import

Years 2016-2020 BACI records: 65

NPT: Party NSG: –  
 IAEA SQP: Modified IAEA SA: In force IAEA AP: In  
 force  
 IAEA BC: No broader conclusion



Scale of Basket% (5 years): 1% Value = 0.0 M\$ 1% Quantity = 0.2 T



*Appendix C – Matrix view Commodity × Country*

# The Matrix = Commodity x Country

Showing all nuclear HS commodity groups traded by countries

A colored cell in the matrix indicates the corresponding HS commodity has been traded by the associated country. The cell is split into two halves, encoding the value (blue grades) and quantity (red grades) traded. The intensity of the color indicates the country's share of world trade for the HS commodity. Darker colors stand for higher shares of trade.

A white cell indicates the country has not exported the corresponding HS commodity.

## Export

	HS	Count of countries exporting the HS group
1.	Uranium ores and concentrates	2612.10
2.	Thorium ores and concentrates	2612.20
3.	Natural uranium	2844.10
4.	Enriched uranium; plutonium	2844.20
5.	Depleted uranium; thorium	2844.30
6.	Radioactive elements and isotopes	2844.40
7.	Irradiated fuel elements	2844.50
8.	Heavy water	2845.10
9.	Nickel powder	7504
10.	Tungsten articles	8101.99
11.	Tantalum articles	8103.90
12.	Magnesium, high purity	8104.11
13.	Zirconium	8109.20+
14.	Beryllium	8112.12+
15.	Nuclear reactors and parts	8401.10+
16.	Machinery and apparatus for isotopic separation	8401.20
17.	Fuel elements, non-irradiated	8401.30

## Import

	HS	Count of countries importing the HS group
1.	Uranium ores and concentrates	2612.10
2.	Thorium ores and concentrates	2612.20
3.	Natural uranium	2844.10
4.	Enriched uranium; plutonium	2844.20
5.	Depleted uranium; thorium	2844.30
6.	Radioactive elements and isotopes	2844.40
7.	Irradiated fuel elements	2844.50
8.	Heavy water	2845.10
9.	Nickel powder	7504
10.	Tungsten articles	8101.99
11.	Tantalum articles	8103.90
12.	Magnesium, high purity	8104.11
13.	Zirconium	8109.20+
14.	Beryllium	8112.12+
15.	Nuclear reactors and parts	8401.10+
16.	Machinery and apparatus for isotopic separation	8401.20
17.	Fuel elements, non-irradiated	8401.30

## HS abbreviations

8109.20+ is {8109.20, 8109.30, 8109.90}

8112.12+ is {8112.12, 8112.13, 8112.19}

8401.10+ is {8401.10, 8401.40}



Data source: BACI  
Years: 2016-2020  
Data elaboration: Nuclear Trade Atlas

