



INTERNATIONAL ATOMIC ENERGY AGENCY



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COUNTRY PROGRAMME SUMMARY

THE AGENCY'S TECHNICAL CO-OPERATION

PROGRAMME WITH

MONGOLIA

1985 - 1995

COUNTRY PROGRAMME SUMMARIES

DEPARTMENT OF TECHNICAL CO-OPERATION

VOL. 28 № 13

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1985 - 1995
COUNTRY PROGRAMME SUMMARIES

EVALUATION SECTION

DEPARTMENT OF TECHNICAL CO-OPERATION

**THE AGENCY'S TECHNICAL CO-OPERATION
PROGRAMME WITH
MONGOLIA
1985 - 1995
COUNTRY PROGRAMME SUMMARIES**

This report contains a review of the Agency's technical co-operation activities in Mongolia carried out during 1985 - 1995. In terms of coverage and analytical depth, country programme summaries stand somewhere midway between in-depth country programme evaluations and individual project evaluations. They attempt to provide a comprehensive, descriptive picture of the Agency's co-operation with a Member State in a manner that will be particularly useful for programming decisions. The attempt is very much to describe -- largely through statistical data -- not to provide independent analysis and evaluation.

MONGOLIA

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INTRODUCTION

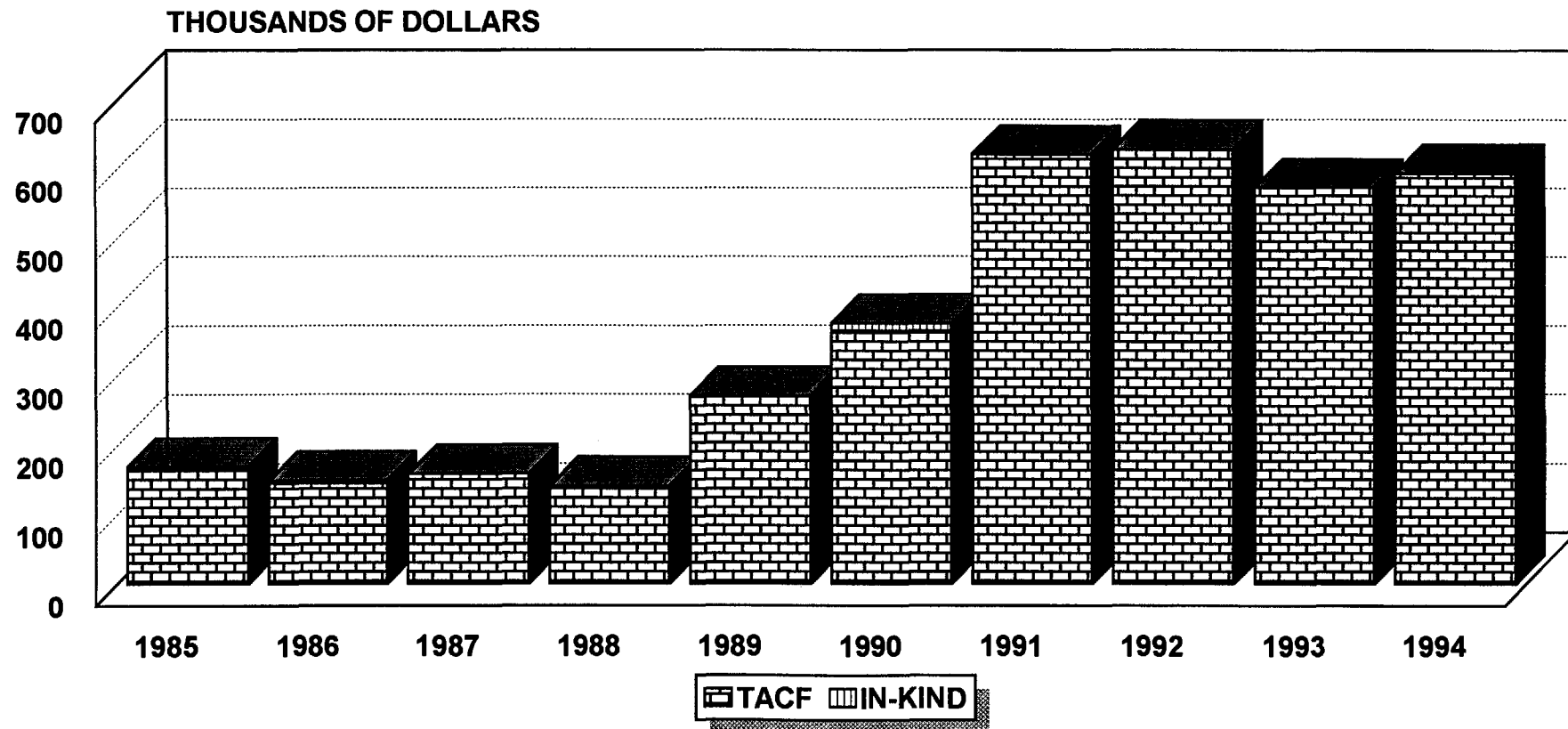
The country programme summary reported on here is one in the series of such studies being undertaken of the Agency's TC programme with Member States. With over \$4.5 million of Agency support received, Mongolia ranks 43rd among all recipients of technical assistance in the period 1958 through 1994.

Over one half of the assistance received over the past ten years has been provided in the form of equipment (57%), supplemented by expert services (22%) and training (21%). Practically all the resources were made available through the Technical Assistance Fund (99.5%), with only an insignificant contribution made in kind (0.5%)

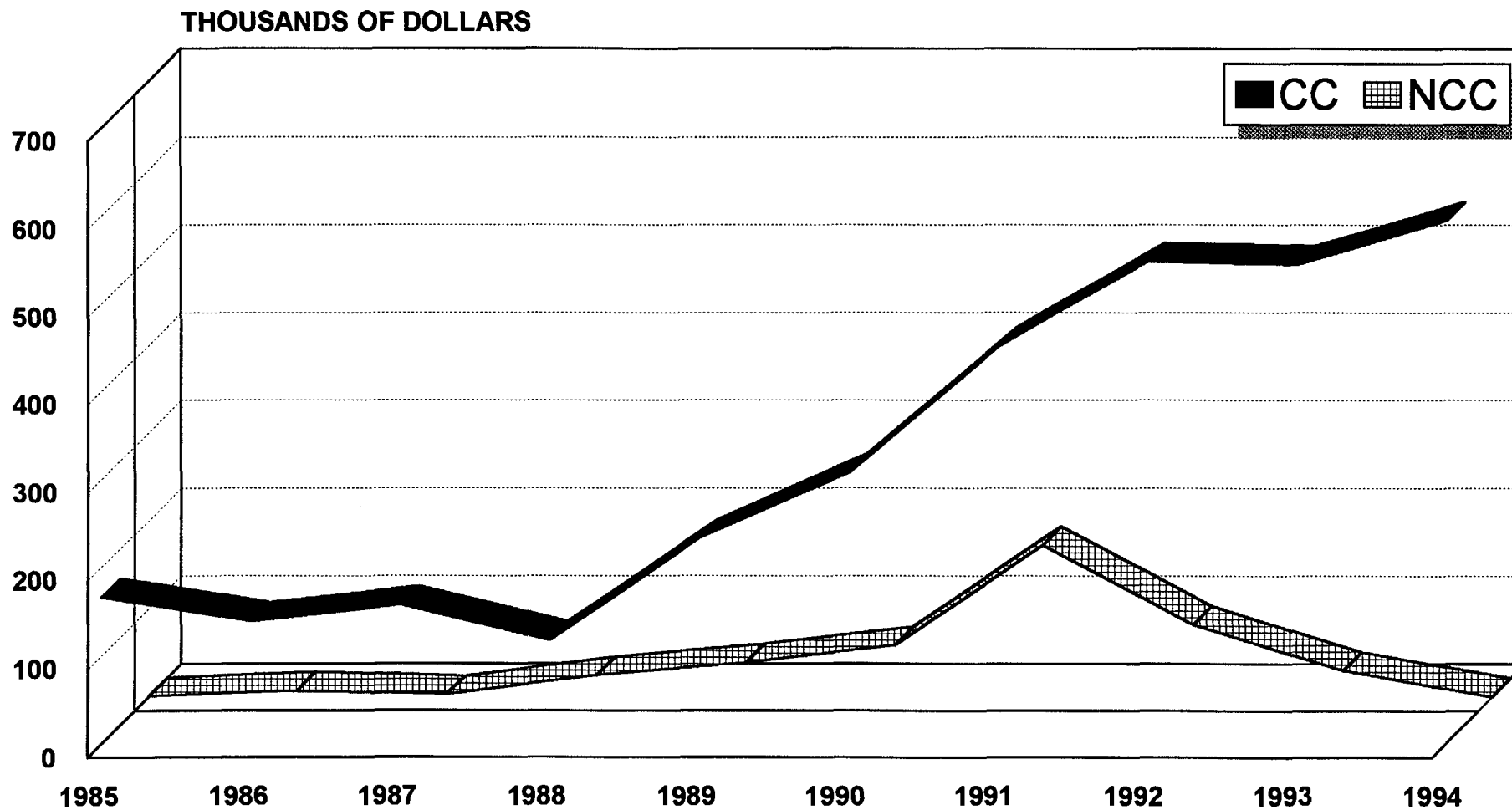
The two major sectors of project assistance during the past ten years were nuclear physics and chemistry (25%) and agriculture (24%), followed by general atomic energy development (16%), nuclear safety (13%), industry and hydrology (8%) and nuclear medicine (5%).

Since 1985, scientists from Mongolia have completed 32 assignments as Agency experts and training course lecturers or as participants in research co-ordination meetings.

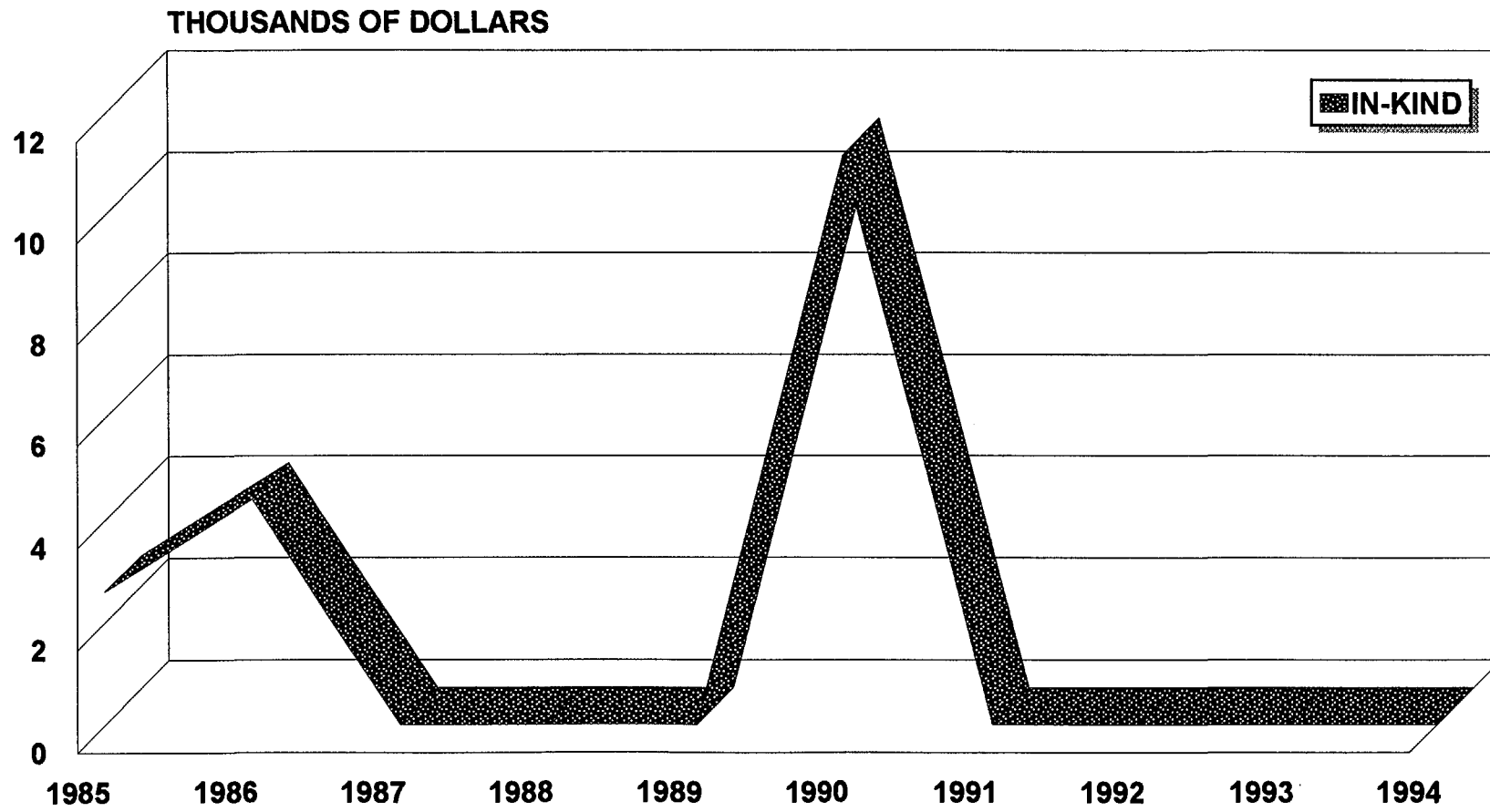
ASSISTANCE PROVIDED BY THE AGENCY TO MONGOLIA BY SOURCE (1985 - 1994)



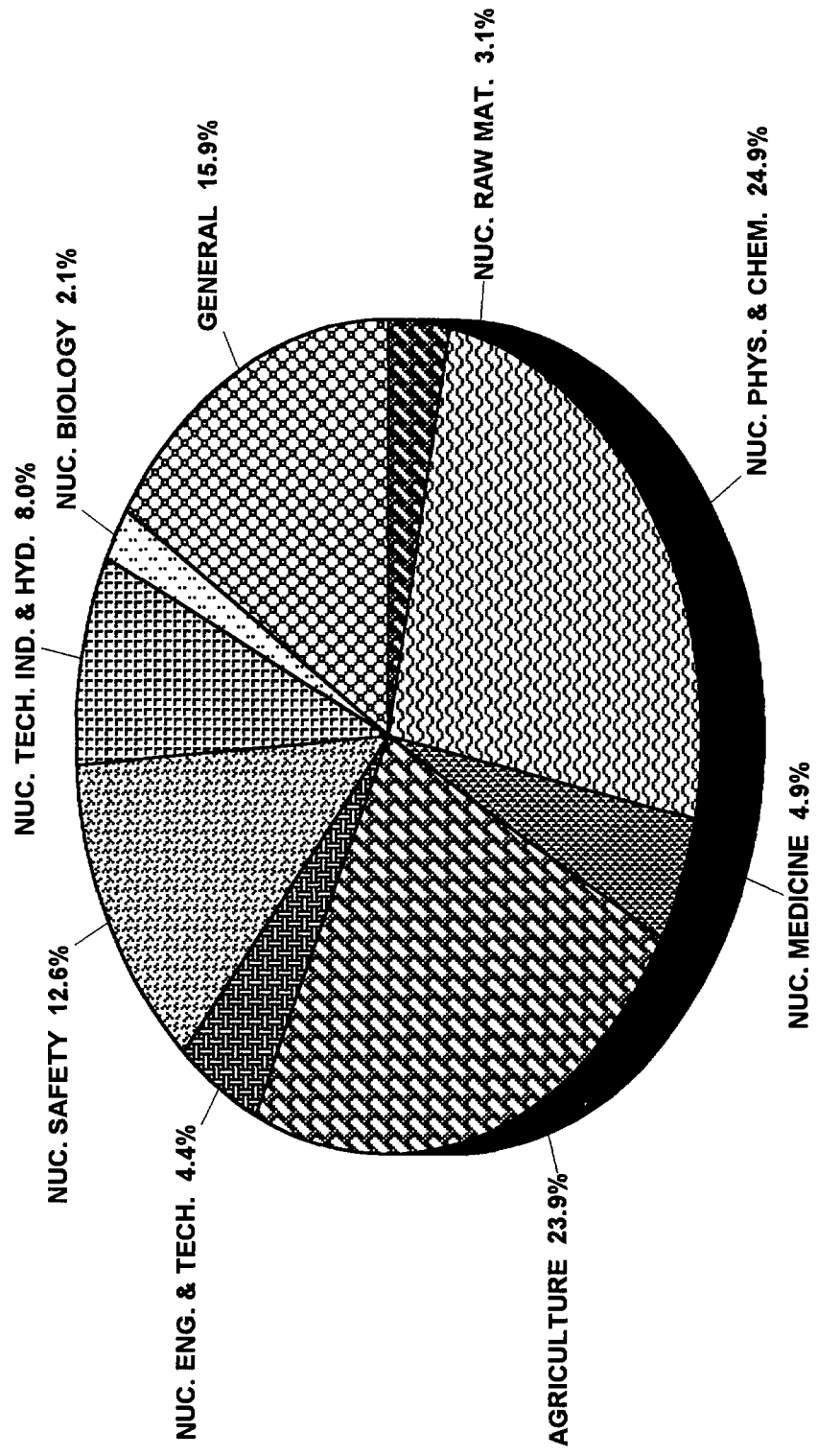
TACF ASSISTANCE PROVIDED TO MONGOLIA (1985 - 1994)



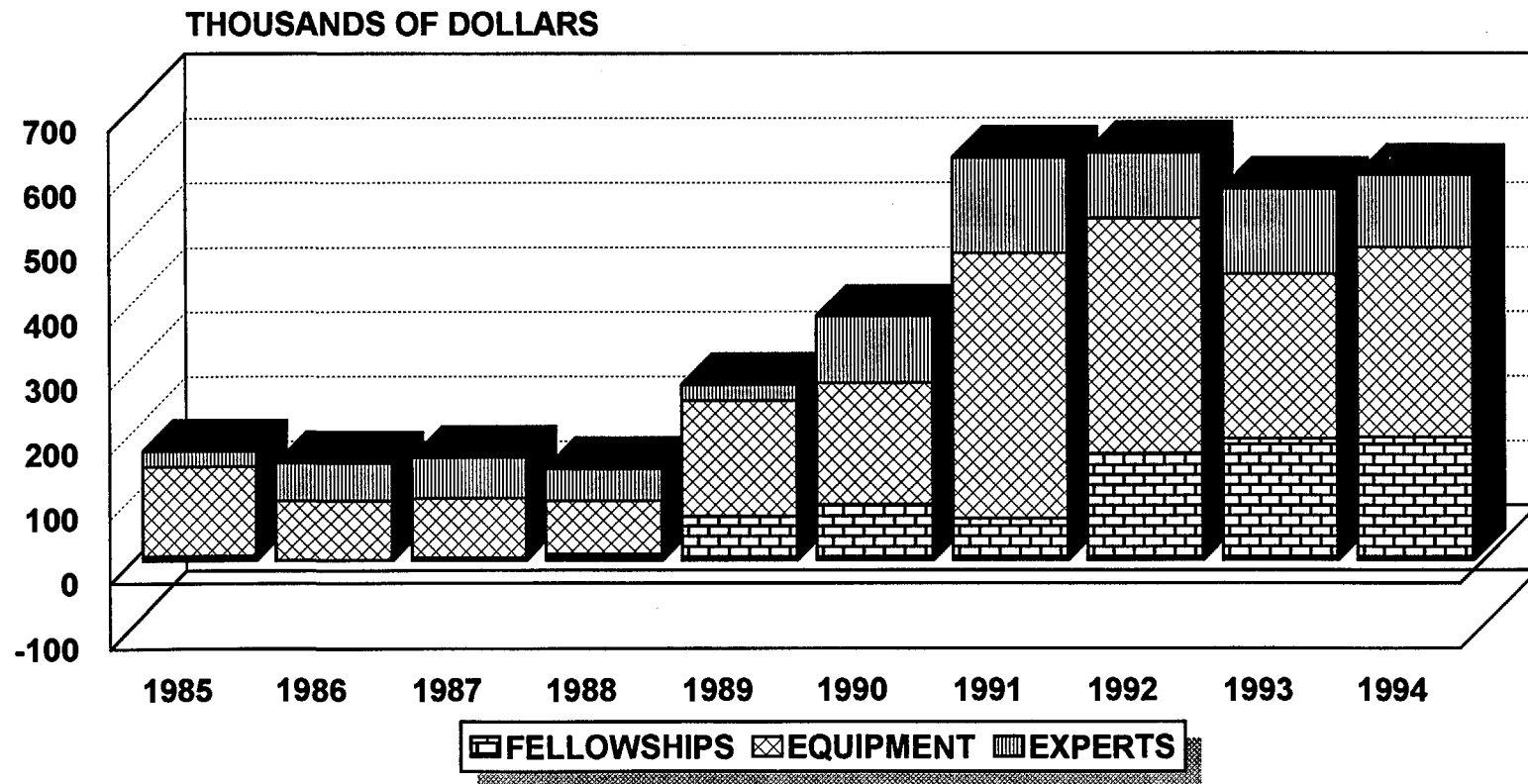
IN-KIND ASSISTANCE PROVIDED TO MONGOLIA (1985 - 1994)



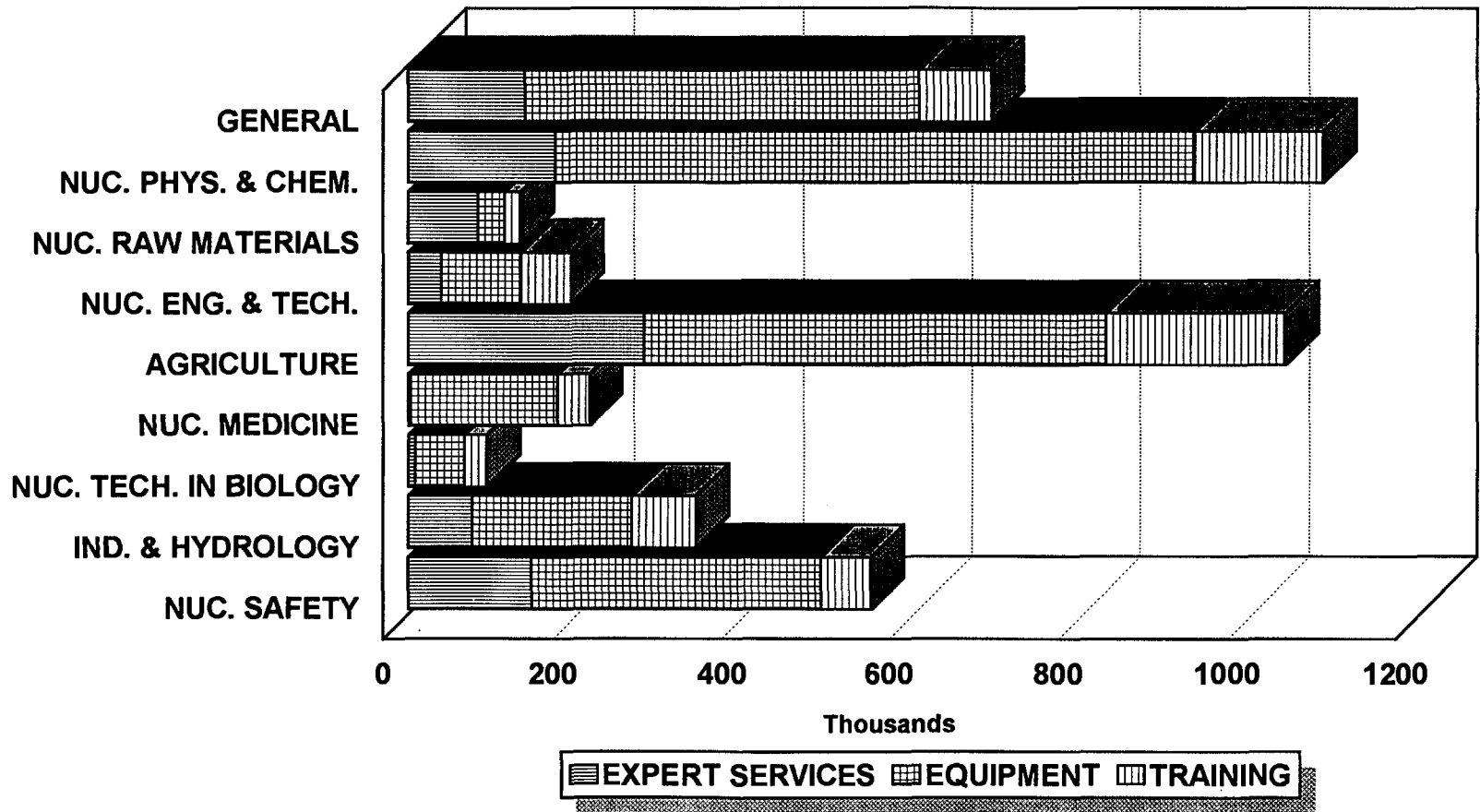
TC PROJECT DISBURSEMENTS IN MONGOLIA BY SECTOR (1985 - 1995)



ASSISTANCE PROVIDED BY THE AGENCY TO MONGOLIA BY TYPE (1985 - 1994)



EXPERT SERVICES, EQUIPMENT AND PROJECT-FUNDED TRAINING PROVIDED TO MONGOLIA BY SECTOR (1985 - 1995)



THE AGENCY'S TECHNICAL CO-OPERATION PROGRAMME WITH MONGOLIA

ALL SOURCES

MONGOLIA'S RANKING AS A TC RECIPIENT
1958 - 1994
(in \$1000)

YEAR	RANKING	AMOUNT
1958-84	56 th	892.7
1985	47 th	168.0
1986	55 th	148.8
1987	55 th	158.3
1988	54 th	140.5
1989	42 nd	270.6
1990	36 th	376.2
1991	20 th	621.5
1992	20 th	629.2
1993	23 rd	573.4
1994	23 rd	594.6
1958-94	43 rd	4573.8

**"TOP FIVE" RECIPIENTS OF AGENCY ASSISTANCE
1958 - 1994 (in \$1000)**

ALL SOURCES

Year	I	II	III	IV	V	MONGOLIA
1958-84	EGY 10650.4	BRA 9513.7	PER 7574.2	IND 7412.8	PHI 6679.0	56 th - 892.7
1985	EGY 2494.8	PER 1120.7	THA 1117.4	BGD 1068.2	PHI 963.7	47 th - 168.0
1986	EGY 2317.0	BRA 1452.9	THA 1169.4	POL 1050.3	BGD 896.4	55 th - 148.8
1987	HUN 3452.6	EGY 1775.4	THA 1742.4	INS 1312.5	YUG 1223.2	55 th - 158.3
1988	EGY 1486.9	BUL 1361.6	CPR 1278.5	THA 1158.7	BRA 1096.7	54 th - 140.5
1989	CPR 1542.3	EGY 1505.1	THA 1205.3	BRA 1096.5	INS 999.1	42 nd - 270.6
1990	POL 2308.1	CPR 2005.0	VIE 1589.2	INS 1412.6	BRA 1229.1	36 th - 376.2
1991	INS 1305.2	CPR 975.0	EGY 959.8	BRA 951.2	BUL 934.7	20 th - 621.5
1992	EGY 1586.3	INS 1342.1	CPR 1328.8	MEX 1127.8	POL 1036.4	20 th - 629.2
1993	INS 1285.9	CPR 1091.7	PAK 1012.2	EGY 905.3	IRA 810.1	23 rd - 573.4
1994	URT 2153.3	IRA 1438.5	CPR 1336.1	ARG 1225.8	GHA 1166.9	23 rd - 594.6
1958-94	EGY 25492.2	BRA 19165.8	THA 16827.6	INS 16088.4	PER 14350.7	43 rd - 4573.8

**"TOP FIVE" RECIPIENTS OF AGENCY ASSISTANCE
1958 - 1994 (in \$1000)**

TECHNICAL ASSISTANCE AND CO-OPERATION FUND

Year	I	II	III	IV	V	MONGOLIA
1958-84	EGY 4652.4	HUN 3458.4	PAK 3272.4	THA 2825.4	CUB 2761.7	45 th - 875.5
1985	BGD 991.8	VIE 745.0	THA 708.7	BRA 571.8	POR 538.7	43 rd - 165.4
1986	BRA 1381.8	THA 871.9	POL 833.5	BGD 823.9	SYR 751.8	50 th - 144.4
1987	HUN 3305.2	DRK 986.8	BUL 888.5	INS 885.8	EGY 878.9	51 st - 158.3
1988	BUL 1195.6	PER 856.5	EGY 768.6	INS 751.7	MAL 656.0	48 th - 140.5
1989	EGY 990.9	CPR 868.2	POR 769.6	CHI 756.9	MAL 619.4	34 th - 270.6
1990	POL 1562.3	VIE 1518.8	DRK 1156.2	IRA 958.0	YUG 933.4	29 th - 365.0
1991	BUL 893.1	PAK 868.8	INS 855.1	VIE 817.6	CPR 814.5	10 th - 621.5
1992	EGY 1255.7	CPR 1009.0	VIE 872.8	INS 826.6	IRA 795.5	13 th - 629.2
1993	INS 1040.5	CPR 896.5	PAK 847.6	IRA 807.4	THA 721.5	11 th - 573.4
1994	URT 1392.9	IRA 1260.8	ARG 1206.5	CPR 1022.8	PAK 933.0	18 th - 594.6
1958-94	EGY 12209.1	PAK 9896.2	INS 9666.8	POL 9602.4	VIE 9566.6	36 th - 4538.4

ASSISTANCE PROVIDED BY THE AGENCY TO MONGOLIA

Financial Summary 1985 - 1994
(In thousands of dollars)

Year	ASSISTANCE PROVIDED, BY TYPE						ASSISTANCE PROVIDED, BY SOURCE					
	Experts	Equipment	Fellowships	Group training	Sub-contracts	Total	UNDP	TACF CC	TACF NCC	Extra-budgetary	In-kind	Total
1985	23.3	138.3	6.4	-	-	168.0	-	165.1	0.3	-	2.6	168.0
1986	58.8	90.7	(0.7)	-	-	148.8	-	137.6	6.8	-	4.4	148.8
1987	63.4	90.9	4.0	-	-	158.3	-	156.2	2.1	-	-	158.3
1988	49.2	82.7	8.6	-	-	140.5	-	116.3	24.2	-	-	140.5
1989	24.6	179.4	66.6	-	-	270.6	-	232.2	38.4	-	-	270.6
1990	102.9	188.2	85.1	-	-	376.2	-	306.8	58.2	-	11.2	376.2
1991	148.1	410.1	63.3	-	-	621.5	-	450.0	171.5	-	-	621.5
1992	101.5	363.7	164.0	-	-	629.2	-	547.5	81.7	-	-	629.2
1993	131.6	255.6	186.2	-	-	573.4	-	543.8	29.6	-	-	573.4
1994	111.5	294.8	188.3	-	-	594.6	-	594.6	-	-	-	594.6
1985-94	814.9	2 094.4	771.8	-	-	3 681.1	-	3 250.1	412.8	-	18.2	3 681.1

TECHNICAL CO-OPERATION PROJECTS IN MONGOLIA
BY SECTOR

PROJECTS COMPLETED AND OPERATIONAL 1985 - 1995

TOTAL PROJECT ALLOTMENTS AND DISBURSEMENTS
(As of mid-November 1995)

SECTOR	NO. OF PROJECTS	ALLOTMENTS \$	% OF TOTAL	DISBURSEMENTS \$	% OF TOTAL
General atomic energy development	5	777 072	14.3	691 054	15.9
Nuclear physics and chemistry	7	1 354 641	24.9	1 084 510	25.0
Nuclear raw materials	1	120 774	2.2	132 868	3.1
Nuclear engineering and technology	1	197 833	3.6	192 315	4.4
Nuclear techniques in agriculture	7	1 207 512	22.2	1 040 802	24.0
Nuclear medicine	3	700 214	12.8	214 891	5.0
Nuclear techniques in biology	1	95 489	1.7	92 727	2.1
Nuclear techniques in industry and hydrology	2	366 434	6.7	340 571	7.8
Nuclear safety	3	630 261	11.6	550 065	12.7
TOTAL	30	5 450 230	100.0	4 339 803	100.0

TECHNICAL CO-OPERATION PROJECTS IN MONGOLIA
 COMPLETED AND OPERATIONAL, BY SECTOR, 1985 - 1995
 (As of mid-November 1995)

Sector	No. of projects	Total project allotments \$	Total project disbursements \$
<u>Completed projects</u>			
General atomic energy development	2	558 648	569 888
Nuclear physics and chemistry	4	526 194	523 329
Nuclear raw materials	-	-	-
Nuclear engineering and technology	-	-	-
Nuclear techniques in agriculture	2	319 931	320 372
Nuclear medicine	-	-	-
Nuclear techniques in biology	1	95 489	92 727
Nuclear techniques in industry & hydrology	1	91 084	91 576
Nuclear safety	2	205 498	198 342
TOTAL	12	1 796 844	1 796 234
<u>Operational projects</u>			
General atomic energy development	3	218 424	121 166
Nuclear physics and chemistry	3	828 447	561 181
Nuclear raw materials	1	120 774	132 868
Nuclear engineering and technology	1	197 833	192 315
Nuclear techniques in agriculture	5	887 581	720 430
Nuclear medicine	3	700 214	214 891
Nuclear techniques in biology	-	-	-
Nuclear techniques in industry & hydrology	1	275 350	248 995
Nuclear safety	1	424 763	351 723
TOTAL	18	3 653 386	2 543 569

**EXPERT SERVICES, EQUIPMENT AND PROJECT-FUNDED TRAINING PROVIDED TO MONGOLIA, BY SECTOR
PROJECTS COMPLETED AND OPERATIONAL 1985 - 1995
(As of mid-November 1995)**

FIELD	TOTAL PROJECT ALLOTMENTS				TOTAL PROJECT DISBURSEMENTS			
	EXPERT SERVICES		EQUIPMENT	TRAINING	EXPERT SERVICES		EQUIPMENT	TRAINING
	M/M	\$	\$	\$	M/M	\$	\$	\$
General atomic energy development	18/29	120 780	484 234	172 058	19/05	137 613	468 703	84 738
Nuclear physics and chemistry	24/06	221 870	904 624	228 147	18/24	173 311	759 793	151 406
Nuclear raw materials	6/00	64 500	34 374	21 900	6/01	82 320	31 391	19 157
Nuclear engineering and technology	4/15	41 250	94 840	61 743	4/15	37 981	94 840	59 494
Nuclear techniques in agriculture	31/25	280 440	646 492	280 580	26/29	280 189	547 061	213 552
Nuclear medicine	5/17	63 480	532 846	103 888	1/23	3 233	173 024	38 634
Nuclear techniques in biology	1/00	10 350	57 144	27 995	0/23	8 101	57 448	27 178
Nuclear techniques in industry & hydrology	8/19	77 905	210 026	78 503	7/13	75 514	189 680	75 377
Nuclear safety	19/10	174 685	379 395	76 181	17/00	145 032	343 753	61 280
TOTAL	120/01	1 055 260	3 343 975	1 050 995	102/13	943 294	2 665 693	730 816

AGENCY FELLOWS FROM MONGOLIA

1985 - 1995 ^{1/}
 (As of mid-November 1995)

Sector	No. of fellowships	No. of months/days	Host countries
General atomic energy development	4	3/22	CPR, IND, JPN, ROM
Nuclear physics	11	36/10	AUL, AUS, CZR, GER, POL, IAEA
Nuclear chemistry	15	60/06	CZR, HUN, POL, RUS, SLR, IAEA
Nuclear raw materials	3	6/11	CAN, USA
Nuclear engineering and technology	5	22/14	AUS, SLO, IAEA
Nuclear techniques in agriculture	25	116/01	BUL, CZR, HUN, POL, SWE, UK, IAEA
Nuclear medicine	17	76/07	BUL, CPR, CZR, GER, HUN, IND, POL, RUS, THA, IAEA
Nuclear techniques in biology	2	1/17	SWE, USA
Nuclear techniques in industry and hydrology	8	31/11	POL, SWI, IAEA
Nuclear safety	11	39/18	AUL, CZR, HUN, POL, RUS
TOTAL	101	393/27	

^{1/} Awarded since 1985, but only includes fellows who have completed or at least started training.

MONGOLIA
LONG-TERM FELLOWSHIPS
1985 - 1995
(As of mid-November 1995)

Name	Field of study	Host country	Date	Duration	Project
SUKHE	Microtron activation analysis 2C	RUS	Feb.90 - Feb.91	12/00	MON/1/004
DOLGOR	Plant breeding and genetics 5C	POL	Jan.94 - Jan.95	12/00	MON/5/006
TORMANDAKH	Plant breeding and genetics 5C	POL	Feb.92 - Feb.93	12/22	RAS/0/018

**MONGOLIAN NATIONALS WHO WERE AWARDED MORE THAN ONE
FELLOWSHIP OR SCIENTIFIC VISIT
1985 - 1995
(As of mid-November 1995)**

Name	Field of study	Host country	Date	Duration	Project
BADRAL	1. Soil science 2. Soil science, irrigation and plant nutrition	BUL IAEA	Jan.89 - Aug.89 Mr.93 - Jan.94	7/00 10/21	MON/5/004 RAS/0/018
ERDENEBAATAR	1. Animal production 2. Animal production and fisheries	IAEA UK/SWE	Jan.89 - May 89 May 92	3/29 0/12	MON/5/003 MON/5/003
OYUNTULKHUUR	1. Environmental protection 2. Radiation protection	RUS AUL	Jan.89 - Mar.89 Aug.94 - Dec.94	2/00 4/19	RAS/0/014 MON/9/004
PUREV	1. Analytical nuclear physics 2. Solid state physics	CZR POL	Nov.90 - Dec.90 Apr.93 - Jul.93	2/00 3/00	MON/4/002 MON/1/005
SANJDORJ	1. Isotope hydrology 2. Analytical and instrumental techniques	IAEA IAEA/SWI	Mar.89 - Sep.89 Apr.93 - May 93	6/00 0/19	MON/8/002 MON/8/002
SHAGZHAMBA	1. Environmental monitoring 2. Groundwater hydrology	HUN IAEA	Sep.87 - Mar.88 Feb.93 - Jun.93	6/00 3/24	MON/9/002 RAS/0/018

AGENCY TRAINING COURSES WITH MONGOLIAN PARTICIPATION

1985 - 1995
(As of mid-November 1995)

Field	Number of participants	Number of courses
General atomic energy development	7	4
Nuclear physics	2	2
Nuclear chemistry	2	2
Nuclear raw materials	1	1
Nuclear engineering and technology	8	8
Nuclear techniques in agriculture	6	6
Nuclear medicine	10	10
Nuclear techniques in biology	1	1
Nuclear techniques in industry & hydrology	11	7
Nuclear safety	8	8
TOTAL	56	49

**MULTIPLE PARTICIPATION IN AGENCY TRAINING COURSES
BY MONGOLIAN NATIONALS
1985 - 1995
(As of mid-November 1995)**

Name	Course No.	Course title	Year	Location
AGVAANDORJ	INT/4/105 (001) INT/4/113 (001)	Advanced ITC on nuclear electronics ITC on interfacing in nuclear experiments	1991 1992	MEX INS
GANZORIG	INT/9/129 (001) RAS/0/017 (001) RAS/8/064 (007) RAS/8/071 (004) RAS/9/011 (001)	ITC on planning, organization and implementation of radiation protection on a national level RWS on project management and evaluation techniques for TC projects RWS on the application of nucleonic control systems to coal processing operations RWS on use of tracer technology in surface water effluent studies RTC on safety and regulation of radiation sources	1992 1990 1994 1994 1991	USA INS THA MAL MAL
GERBISH	RAS/8/071 (001) RAS/8/071 (010)	RWS on use of tracer technology in surface water effluent studies RWS on nuclear analytical techniques in environmental research and monitoring	1994 1995	MAL SIN
NYAMT SEREN	INT/9/149 (001) RAS/9/006 (013)	ITC on management of radiological accidents involving radiation sources Regional (RCA) training course on system of notification, registration, licensing and control of radiation sources and installations	1995 1995	BRA INS
SERGELEN	INT/4/115 (001) INT/4/120 (001)	Advanced ITC on nuclear electronics ITC on interfacing in nuclear experiments	1993 1994	CPR INS
SHURENTZETZEG	RAS/4/014 (001) RAS/6/015 (001)	RTC on the fate and efficacy of pesticides using radiolabelled materials RTC on radiation dosimetry	1993 1989	THA CPR

PROJECTS COMPLETED IN MONGOLIA SINCE 1985
(As of mid-November 1995)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS				COMPLETED
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING	
			M/M	\$	\$	\$	M/M	\$	\$	\$	
1979	MON/0/002	Application of nuclear technology	14/29	90 330	438 068	-	14/29	100 999	437 232	-	1990
1987	MON/0/003	Training in English for nuclear science fellows	3/00	21 150	9 100	-	3/04	22 196	9 461	-	1989
1986	MON/1/003	Moessbauer spectrometry	3/11	23 285	93 059	-	3/11	18 151	89 517	-	1989
1987	MON/2/004	X-ray fluorescence for coal analysis	4/04	29 760	64 489	-	4/04	24 888	62 194	-	1993
1989	MON/2/005	Nuclear analytical techniques	2/00	16 800	184 930	36 764	2/00	30 083	185 415	36 507	1995
1991	MON/2/006	Radiochemistry teaching	1/00	8 850	45 917	22 340	1/04	12 167	45 915	18 492	1994
1982	MON/5/002	Plant mutation breeding	8/23	58 560	140 284	29 967	8/26	59 740	140 026	28 694	1993
1988	MON/5/004	Soil science and plant nutrition	2/27	23 780	57 800	9 540	2/20	22 742	59 630	9 540	1992

PROJECTS COMPLETED IN MONGOLIA SINCE 1985
(As of mid-November 1995)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS				COMPLETED
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING	
			M/M	\$	\$	\$	M/M	\$	\$	\$	
1993	MON/7/004	Establishment of radiobiology laboratory	1/00	10 350	57 144	27 995	0/23	8 101	57 448	27 178	1994
1991	MON/8/003	Gamma radiography training	3/00	27 450	53 631	10 003	2/20	27 909	53 784	9 883	1994
1983	MON/9/002	Radiation protection and dosimetry laboratory	3/07	20 245	86 957	13 128	3/07	17 567	86 957	13 128	1994
1986	MON/9/003	Radiation monitoring	4/03	30 540	46 128	8 500	4/07	27 195	46 069	7 426	1991
	TOTAL	12 Projects	51/14	361 100	1 277 507	158 237	51/05	371 738	1 273 648	150 848	

OPERATIONAL PROJECTS IN MONGOLIA
(As of mid-November 1995)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS			
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING
			M/M	\$	\$	\$	M/M	\$	\$	\$
1991	MON/0/004	Upgrading the national nuclear information system	1/00	9 300	18 066	10 678	1/02	14 418	18 066	11 163
1993	MON/0/005	Manpower development	-	-	-	79 930	-	-	-	58 211
1995	MON/0/006	Manpower development and nuclear technology support	-	-	19 000	81 450	-	-	3 944	15 364
1989	MON/1/004	Activation analysis	2/22	23 955	179 583	23 740	2/22	19 948	178 985	25 787
1991	MON/1/005	Nuclear analytical techniques	4/11	39 780	136 646	54 943	4/11	54 362	137 392	54 943
1995	MON/2/007	Development of nuclear analytical techniques	6/18	79 440	200 000	90 360	1/02	13 712	60 375	15 677
1993	MON/3/002	Uranium favourability and evaluation in Mongolia	6/00	64 500	34 374	21 900	6/01	82 320	31 391	19 157
1989	MON/4/002	Nuclear measurements and instrumentation	4/15	41 250	94 840	61 743	4/15	37 981	94 840	59 494

OPERATIONAL PROJECTS IN MONGOLIA
(As of mid-November 1995)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS			
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING
			M/M	\$	\$	\$	M/M	\$	\$	\$
1987	MON/5/003	Radioimmunoassay techniques in animal production	5/13	46 510	105 500	72 677	5/13	70 302	106 906	72 677
1989	MON/5/005	Animal diseases	6/18	60 210	111 140	43 451	5/25	83 226	112 221	41 678
1993	MON/5/006	Nuclear techniques in agriculture	3/22	40 020	126 468	63 391	2/03	24 592	115 699	60 963
1995	MON/5/007	Improving livestock productivity and health	2/12	27 960	37 800	27 654	0/25	5 445	12 579	-
1995	MON/5/008	Extension services for new varieties of wheat	2/00	23 400	67 500	33 900	1/07	14 142	-	-
1991	MON/6/004	Strengthening of medical isotopic diagnostics	0/28	8 260	96 866	26 488	0/11	3 233	81 800	26 488
1995	MON/6/005	Upgrading nuclear medicine services	3/00	36 000	130 000	30 600	0/29	-	3 789	6 314
1995	MON/6/006	Upgrading radiation therapy services	1/19	19 220	305 980	46 800	0/13	-	87 435	5 832

OPERATIONAL PROJECTS IN MONGOLIA
(As of mid-November 1995)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS			
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING
			M/M	\$	\$	\$	M/M	\$	\$	\$
1988	MON/8/002	Groundwater hydrology ^{1/}	5/19	50 455	156 395	68 500	4/23	47 605	135 896	65 494
1991	MON/9/004	Strengthening of radiation protection	12/00	123 900	246 310	54 553	9/16	100 270	210 727	40 726
	TOTAL	18 Projects	68/17	694 160	2 066 468	892 758	51/08	571 556	1 392 045	579 968

Footnote a/ projects not yet upgraded:

MON/4/003 Strengthening nuclear instrumentation and maintenance
 MON/6/007 Upgrading of radioimmunoassay facilities

^{1/} Allotment for equipment includes \$6895 for sub-contracted sample analysis.

COUNTERPART INSTITUTIONS IN MONGOLIA (I)

(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>GENERAL ATOMIC ENERGY DEVELOPMENT</u>		
MON/0/002	Mongolian State University, Ulan Bator	GERBISH GANZORIG
MON/0/003	1. Nuclear Energy Commission, Ulan Bator 2. Mongolian State University, Foreign Languages Department, Ulan Bator	TSEHVEHG MID DAMDEN -
MON/0/004	Centre for Scientific and Technological Information, Ulan Bator	DORJBAL
MON/0/005	Nuclear Energy Commission, Ulan Bator	GANZORIG DAMDINSUREN
MON/0/006	Nuclear Energy Commission, Ulan Bator	JADAMBAA DAMDINSUREN
<u>NUCLEAR PHYSICS AND CHEMISTRY</u>		
MON/1/003	Mongolian Academy of Sciences, Institute of Physics and Engineering, Ulan Bator	TSEHVEHEHN
MON/1/004	Mongolian Academy of Sciences, Institute of Physics and Engineering, Ulan Bator	GERBISH
MON/1/005	Mongolian Academy of Sciences, Institute of Physics and Engineering, Ulan Bator	TSEEPELDORJ
MON/2/004	Mongolian Academy of Sciences, Institute of Chemistry, Ulan Bator	BADGAA DUGARJAV
MON/2/005	Ministry of Energy, Mining Industry and Geology, Central Laboratory of Geology, Ulan Bator	KARIVAI
MON/2/006	Mongolian State University, Nuclear Research Laboratory, Ulan Bator	CHULTEM

COUNTERPART INSTITUTIONS IN MONGOLIA (I)
(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>NUCLEAR PHYSICS AND CHEMISTRY (cont'd)</u>		
MON/2/007	Mongolian Academy of Sciences, Ulan Bator	GERBISH
<u>NUCLEAR RAW MATERIALS</u>		
MON/3/002	State Geological Centre, Ulan Bator	CHULUUN
<u>NUCLEAR ENGINEERING AND TECHNOLOGY</u>		
MON/4/002	Mongolian State University, Electronics Department, Ulan Bator	LODOYSAMBA
<u>AGRICULTURE</u>		
MON/5/002	Plant Science and Agricultural Research Institute, Darhan	TSEDEV
MON/5/003	Scientific Research Institute for Animal Husbandry, Ulan Bator	ERDENEBAATAR
MON/5/004	Plant Science and Agricultural Research Institute, Darhan	DAMBYN TSEHDEHV
MON/5/005	Ministry of Agriculture, Ulan Bator Veterinary Research Institute, Ulan Bator	BYAMBAA
MON/5/006	Plant Science and Agricultural Research Institute, Darhan	DAVAADORJ
MON/5/007	1. Ministry of Agriculture, Ulan Bator Veterinary Research Institute, Ulan Bator 2. Ministry of Agriculture, Central Veterinary Diagnostic Laboratory, Ulan Bator	SODNOMODARJAA ERDENEBAATAR

COUNTERPART INSTITUTIONS IN MONGOLIA (I)

(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>AGRICULTURE (cont'd)</u>		
MON/5/008	Plant Science and Agricultural Research Institute, Darhan	ALTANSUKH
<u>NUCLEAR MEDICINE</u>		
MON/6/004	First Central State Clinic, Isotope Diagnostic Laboratory, Ulan Bator	PELJEE
MON/6/005	First Central State Clinic, Isotope Diagnostic Laboratory, Ulan Bator	PELJEE
MON/6/006	Ulan Bator Oncological Centre, Radiological Department, Ulan Bator	TUMURTOGOO
<u>NUCLEAR TECHNIQUES IN BIOLOGY</u>		
MON/7/004	Mongolian Academy of Sciences, Institute of Biotechnology, Ulan Bator	OYUNSUREN
<u>NUCLEAR TECHNIQUES IN INDUSTRY AND HYDROLOGY</u>		
MON/8/002	State Committee for Environmental Control, Institute of Water Problems Ulan Bator	SANJDORJ
MON/8/003	Mongolian Technical University, Ulan Bator	TUMENDEMBEREL

COUNTERPART INSTITUTIONS IN MONGOLIA (I)
(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>NUCLEAR SAFETY</u>		
MON/9/002	Mongolian State University, Nuclear Research Laboratory, Ulan Bator	DAMBASUREHU
MON/9/003	State Institute of Public Health, Centre for Hygiene, Epidemiology and Microbiology, Radiological Laboratory, Ulan Bator	NYAMTSEREN
MON/9/004	State Institute of Public Health, Centre for Hygiene, Epidemiology and Microbiology, Radiological Laboratory, Ulan Bator	NYAMTSEREN

COUNTERPART INSTITUTIONS IN MONGOLIA (II)
(By Institute)

ULAN BATOR

Nuclear Energy Commission
Ulan Bator

MON/0/003 Training in English for Nuclear Science Fellows
MON/0/005 Manpower Development
MON/0/006 Manpower Development and Nuclear Technology Support

Mongolian State University
Ulan Bator

MON/0/002 Application of Nuclear Technology

Mongolian State University
Foreign Language Department
Ulan Bator

MON/0/003 Training in English for Nuclear Science Fellows

Mongolian State University
Electronics Department
Ulan Bator

MON/4/002 Nuclear Measurements and Instrumentation

Mongolian State University
Nuclear Research Laboratory
Ulan Bator

MON/2/006 Radiochemistry Teaching
MON/9/002 Radiation Protection and Dosimetry Laboratory

Mongolian Technical University
Ulan Bator

MON/8/003 Gamma Radiography Training

COUNTERPART INSTITUTIONS IN MONGOLIA (II)
(By Institute)

ULAN BATOR

Mongolian Academy of Sciences
Ulan Bator

MON/2/007 Development of Nuclear Analytical Techniques

Mongolian Academy of Sciences
Institute of Physics and Engineering
Ulan Bator

MON/1/003 Moessbauer Spectrometry
MON/1/004 Activation Analysis
MON/1/005 Nuclear Analytical Techniques

Mongolian Academy of Sciences
Institute of Chemistry
Ulan Bator

MON/2/004 X-Ray Fluorescence for Coal Analysis

Mongolian Academy of Sciences
Institute of Biotechnology
Ulan Bator

MON/7/004 Establishment of Radiobiology Laboratory

Centre for Scientific and Technological Information
Ulan Bator

MON/0/004 Upgrading the National Nuclear Information System

State Geological Centre
Ulan Bator

MON/3/002 Uranium Favourability and Evaluation in Mongolia

COUNTERPART INSTITUTIONS IN MONGOLIA (II)
(By Institute)

ULAN BATOR

Ministry of Energy, Mining Industry and Geology
Central Laboratory of Geology
Ulan Bator

MON/2/005 Nuclear Analytical Techniques

Ministry of Agriculture
Ulan Bator Veterinary Research Institute
Ulan Bator

MON/5/005 Animal Diseases
MON/5/007 Improving Livestock Productivity and Health

Ministry of Agriculture
Central Veterinary Diagnostic Laboratory
Ulan Bator

MON/5/007 Improving Livestock Productivity and Health

Scientific Research Institute for Animal Husbandry
Ulan Bator

MON/5/003 Radioimmunoassay Techniques in Animal Production

First Central State Clinic
Isotope Diagnostic Laboratory
Ulan Bator

MON/6/004 Strengthening of Medical Isotopic Diagnostics
MON/6/005 Upgrading Nuclear Medicine Services

Ulan Bator Oncological Centre
Radiological Department
Ulan Bator

MON/6/006 Upgrading Radiation Therapy Services

COUNTERPART INSTITUTIONS IN MONGOLIA (II)
(By Institute)

ULAN BATOR

State Committee for Environmental Control
Institute of Water Problems
Ulan Bator

MON/8/002 Groundwater Hydrology

State Institute of Public Health
Centre for Hygiene, Epidemiology and Microbiology
Radiological Laboratory
Ulan Bator

MON/9/003 Radiation Monitoring
MON/9/004 Strengthening of Radiation Protection

DARHAN

Plant Science and Agricultural Research Institute
Darhan

MON/5/002 Plant Mutation Breeding
MON/5/004 Soil Science and Plant Nutrition
MON/5/006 Nuclear Techniques in Agriculture
MON/5/008 Extension Services for New Varieties of Wheat

**THE AGENCY'S TECHNICAL CO-OPERATION PROGRAMME WITH
MONGOLIA
(1985 - 1995)**

LONG-TERM EXPERT ASSIGNMENTS

NONE

RESEARCH CONTRACTS/AGREEMENTS IN MONGOLIA SINCE 1985 ^{1/}
(As of mid-November 1995)

NONE

^{1/} New awards since 1985.

**SCIENTISTS FROM MONGOLIA SERVING AS AGENCY
TECHNICAL CO-OPERATION EXPERTS AND
TRAINING COURSE LECTURERS
OR
PARTICIPATING IN CO-ORDINATION MEETINGS
1985 - 1995
(As of mid-November 1995)**

Name	No. of assignments	Project(s)
AMAR	1	MON/2/004
BALDAN	1	MON/3/002
DALKHSUREN	2	MON/8/003, RAS/8/071
DAMDINSUREN	7	RAS/0/021, RAS/8/070, RAS/8/071, RAS/9/006
DORJBAL	2	RAS/0/019
GANZORIG	3	MON/8/003, RAS/8/071
GERBISH	5	RAS/8/071, RAS/9/006
GONCHIGIIN	1	RAS/6/022
JADAMBAA	2	RAS/0/013, RAS/5/021
LODOYSAMBA	3	RAS/4/008, RAS/8/071
OYUNSUREN	2	RAS/6/018
SODNOMDARJAA	1	MON/5/005
TUMURTOGOO	1	MON/6/006
ULZIIHUTAG	1	RAS/8/071
TOTAL	32	

**AGENCY FELLOWSHIPS AND SCIENTIFIC VISITS
HOSTED BY MONGOLIA
1985 - 1995
(As of mid-November 1995)**

NONE

**REGIONAL AND INTERREGIONAL GROUP TRAINING EVENTS
HOSTED BY MONGOLIA
1985 - 1995
(As of mid-November 1995)**

NONE