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INTERNATIONAL ATOMIC ENERGY AGENCY

IAEA-CPS-93/09
10 May 1993
Original: ENGLISH

COUNTRY PROGRAMME SUMMARY

THE AGENCY'S TECHNICAL CO-OPERATION

PROGRAMME WITH

EL SALVADOR

1983 - 1993

COUNTRY PROGRAMME SUMMARIES

DEPARTMENT OF TECHNICAL CO-OPERATION

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EL SALVADOR

1983 - 1993

COUNTRY PROGRAMME SUMMARIES

EVALUATION SECTION
DEPARTMENT OF TECHNICAL CO-OPERATION

**THE AGENCY'S TECHNICAL CO-OPERATION
PROGRAMME WITH
EL SALVADOR
1983 - 1993
COUNTRY PROGRAMME SUMMARIES**

This report contains a review of the Agency's technical co-operation activities in El Salvador carried out during 1983 - 1993. 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.

EL SALVADOR

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INTRODUCTION

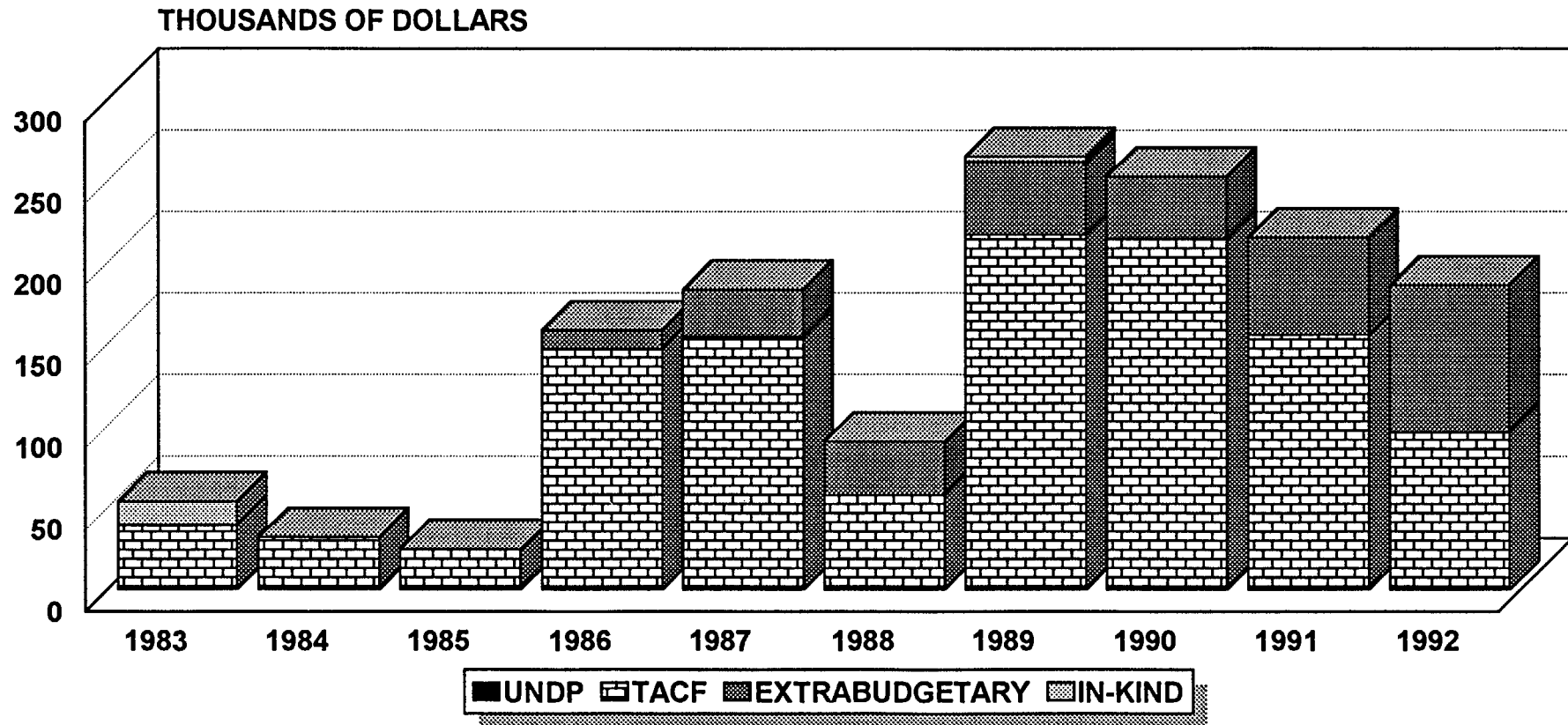
The country programme summary reported on here is one in the series of such studies being undertaken of the Agency's TC programme with Member States. With \$1.8 million of Agency support received, El Salvador ranks 63rd among all recipients of technical assistance during the period 1958 through 1992.

Almost three quarters of the assistance received during the past ten years has been provided in the form of equipment (73%), complemented by expert services (19%) and training (8%). The bulk of the resources was made available through the TACF (78%) and through extrabudgetary contributions (21%), the remaining 1% was provided through assistance in kind.

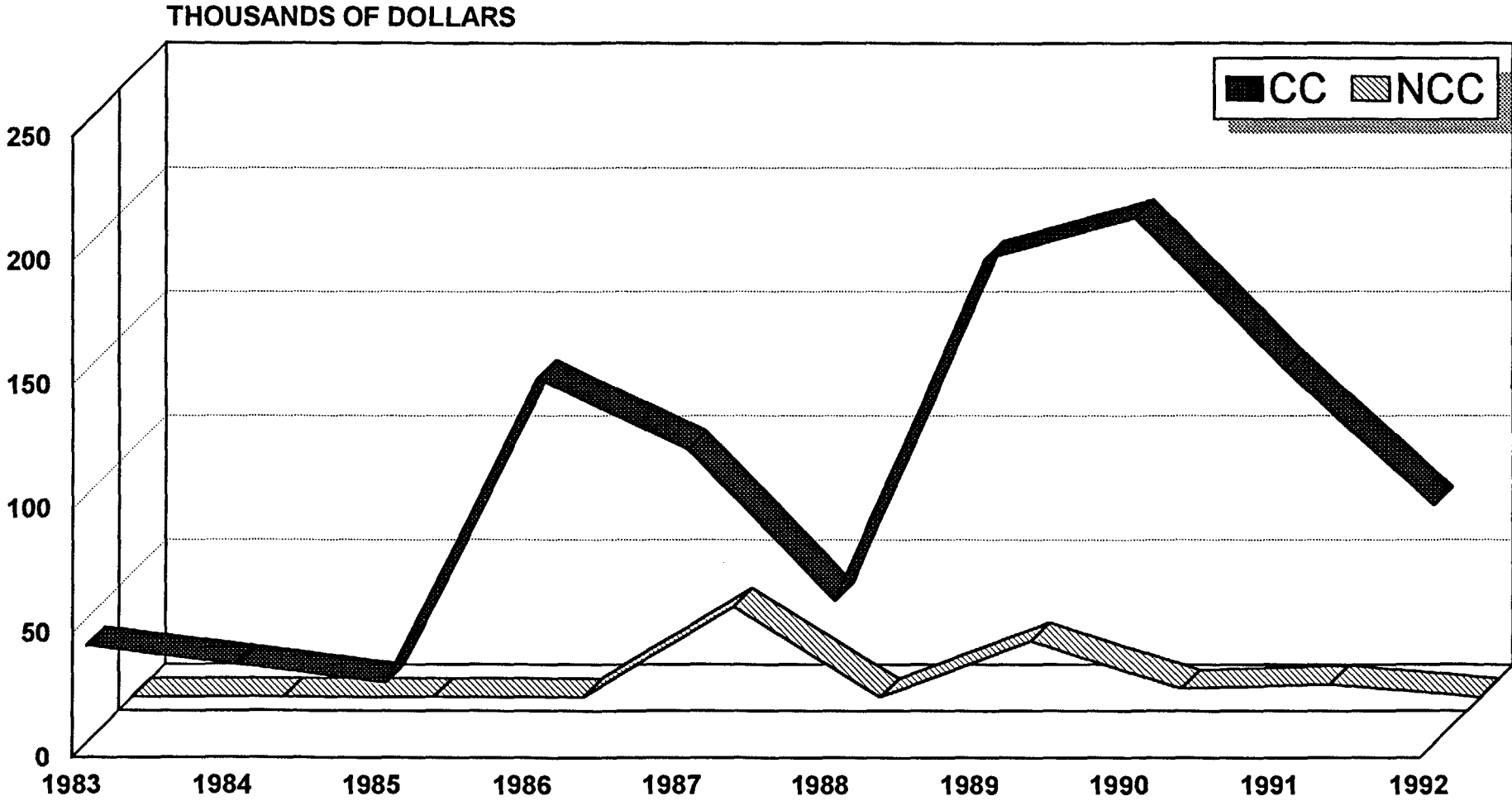
Total disbursements under those projects that were operational during the past ten years are spread over six major sectors: agriculture (24%); nuclear medicine and nuclear applications in hydrology (18% each); nuclear physics and chemistry (13%); nuclear engineering and technology and nuclear safety (12% each).

During the same period, the country has provided experts and training course lecturers for a total of six assignments, and has hosted ten fellowships and scientific visits.

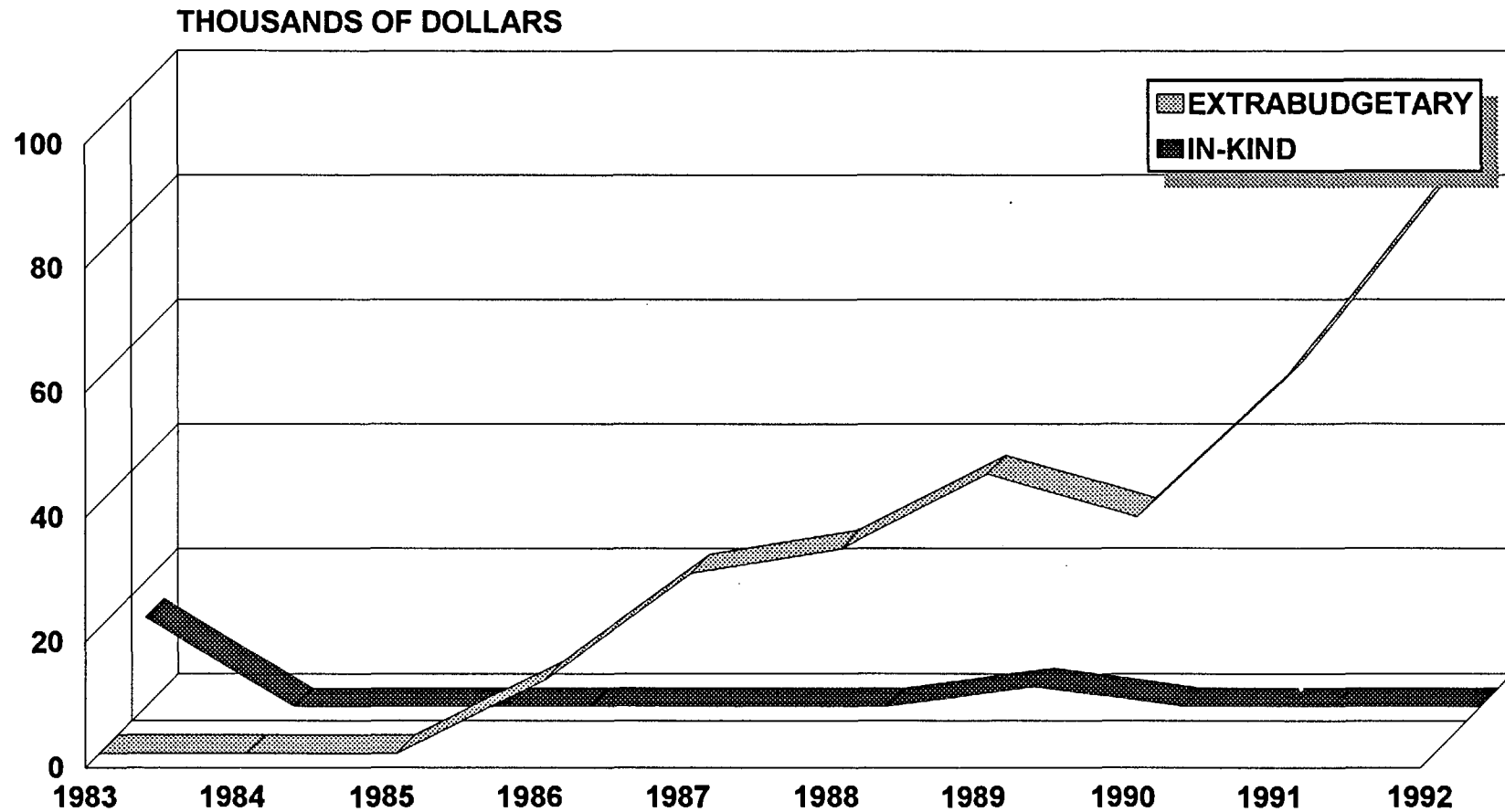
ASSISTANCE PROVIDED BY THE AGENCY TO EL SALVADOR BY SOURCE (1983 - 1992)



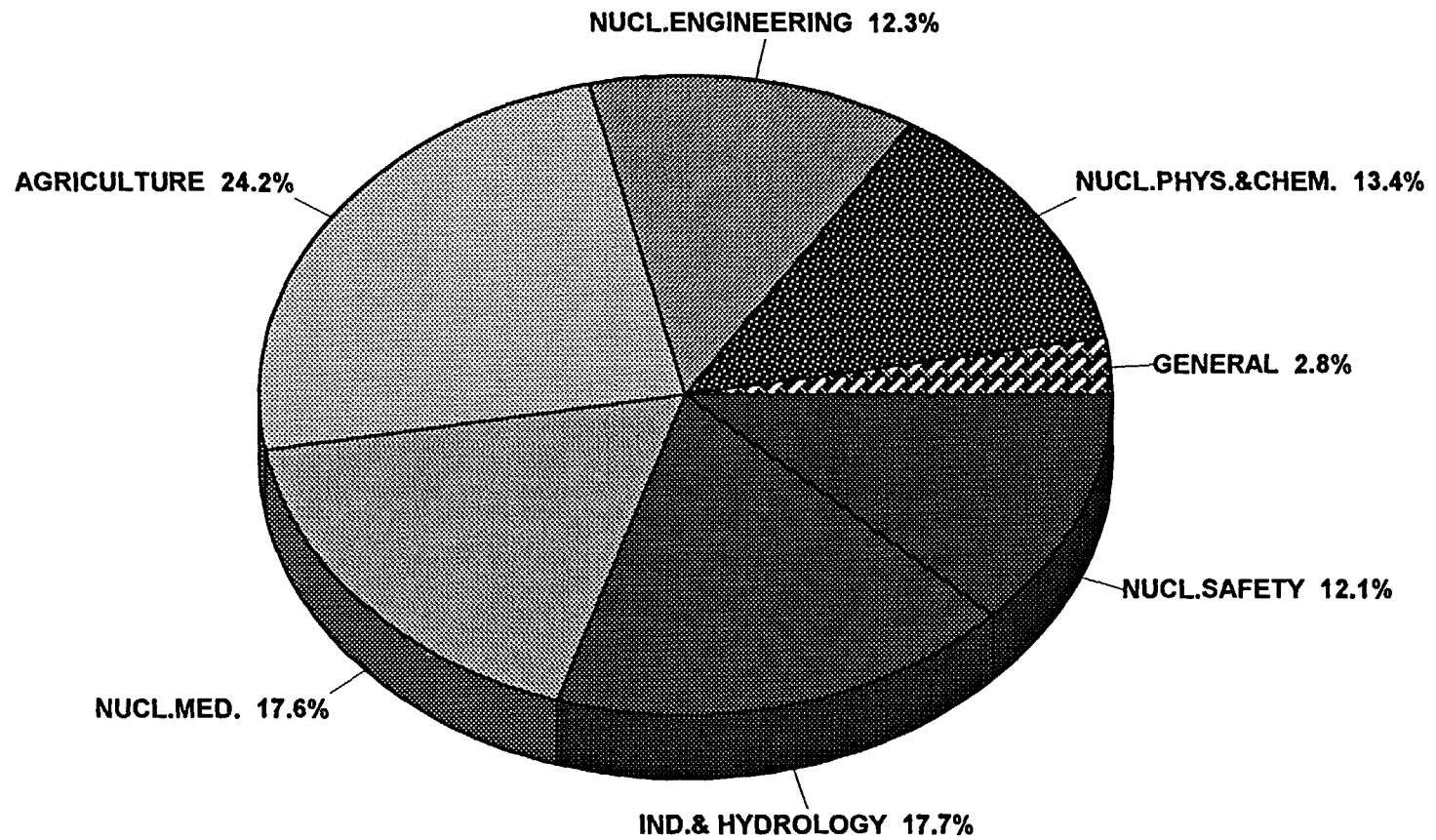
TACF ASSISTANCE PROVIDED TO EL SALVADOR (1983 - 1992) BY CC AND NCC



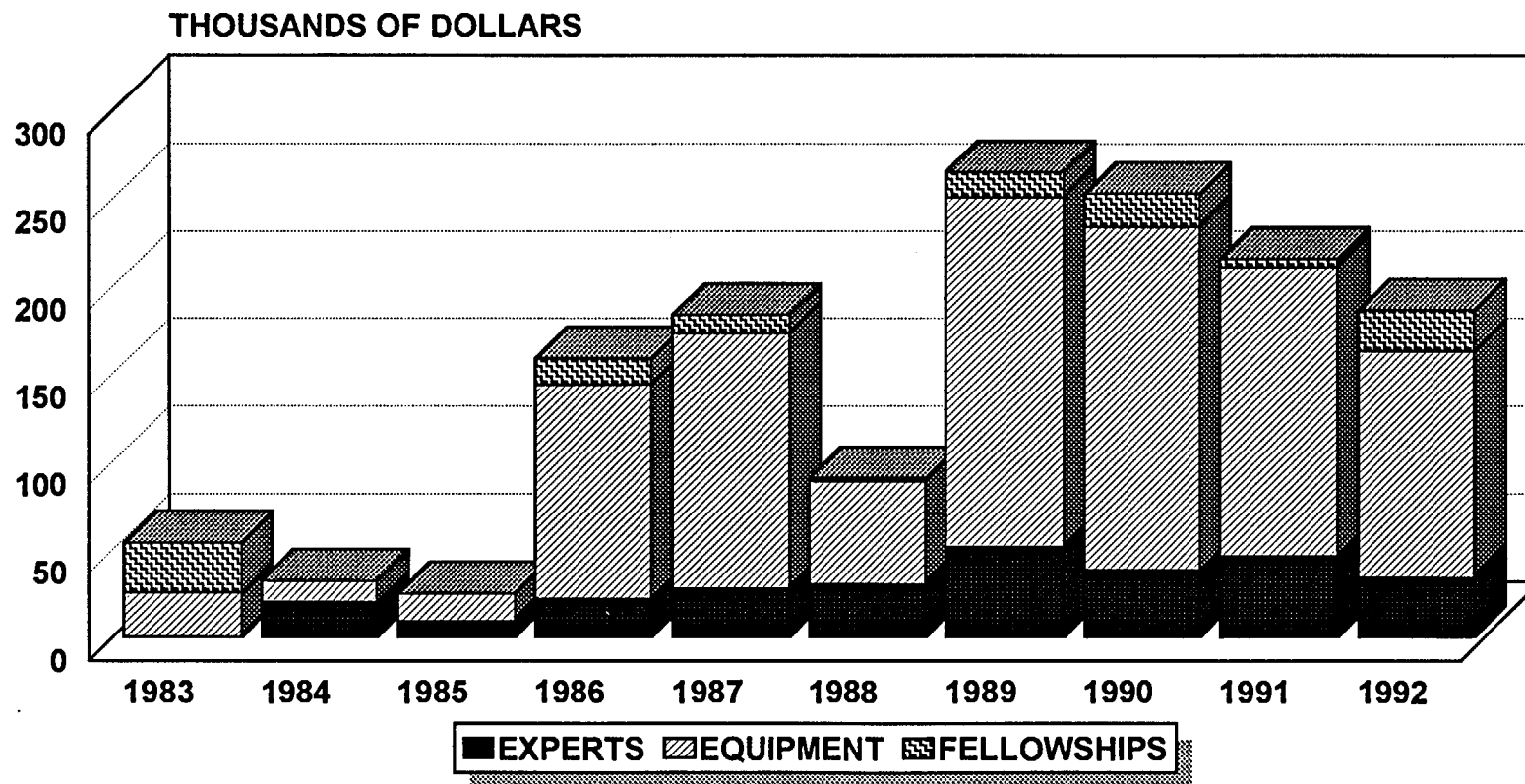
EXTRABUDGETARY AND IN-KIND ASSISTANCE PROVIDED TO EL SALVADOR (1983 - 1992)



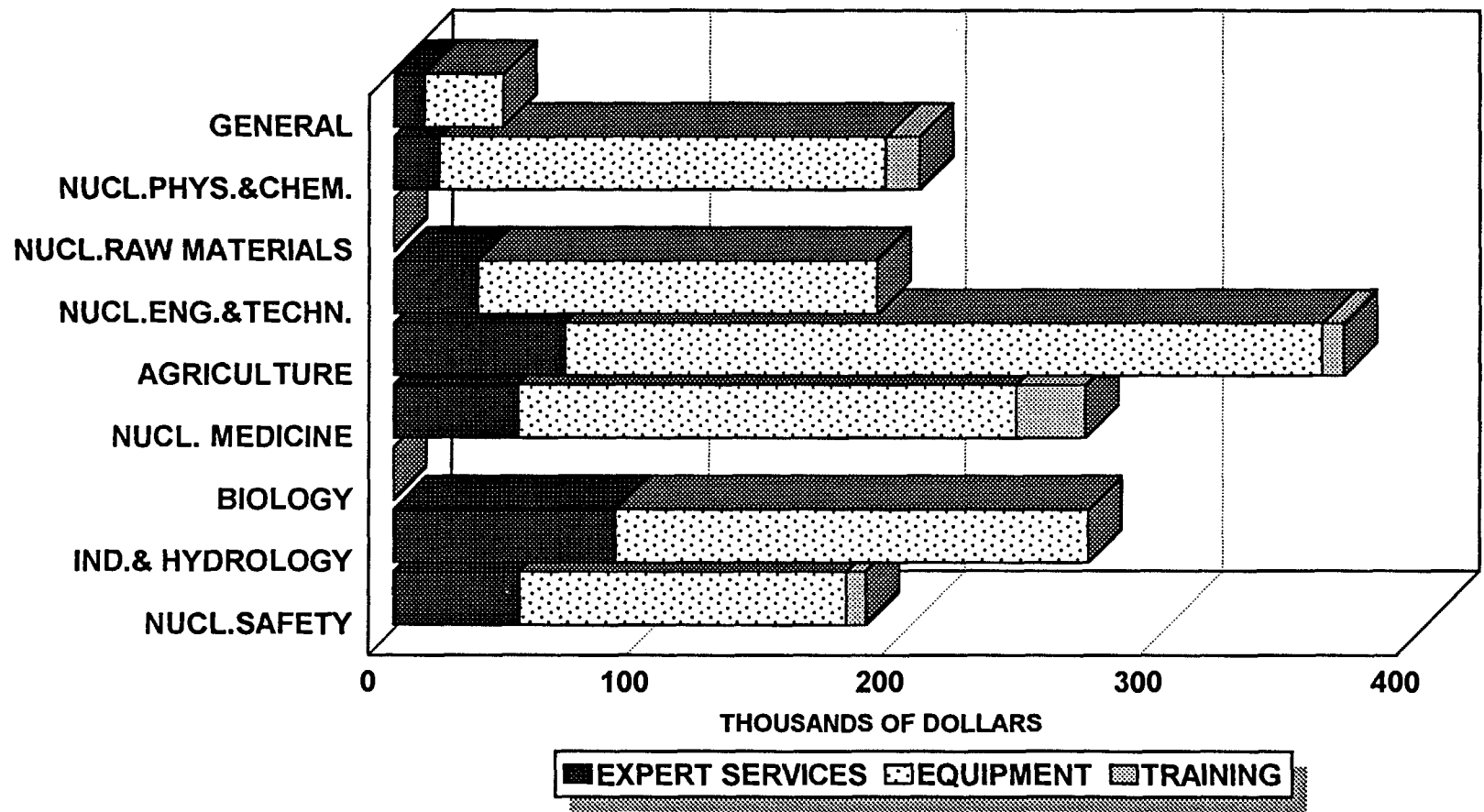
TC PROJECT DISBURSEMENTS IN EL SALVADOR BY SECTOR (1983 - 1993)



ASSISTANCE PROVIDED BY THE AGENCY TO EL SALVADOR BY TYPE (1983 - 1992)



EXPERT SERVICES, EQUIPMENT AND PROJECT-FUNDED TRAINING PROVIDED TO EL SALVADOR BY SECTOR (1983 - 1993)



THE AGENCY'S TECHNICAL CO-OPERATION PROGRAMME WITH EL SALVADOR

ALL SOURCES

EL SALVADOR'S RANKING AS A TC RECIPIENT
1958 - 1992
(in \$1000)

YEAR	RANKING	AMOUNT
1958-82	71 st	314.6
1983	65 th	53.6
1984	71 st	31.8
1985	70 th	24.5
1986	51 st	158.4
1987	53 rd	183.4
1988	62 nd	90.1
1989	43 rd	265.0
1990	46 th	252.7
1991	51 st	215.4
1992	60 th	185.9
1958-92	63 rd	1775.4

**"TOP FIVE" RECIPIENTS OF AGENCY ASSISTANCE
1958 - 1992 (in \$1000)**

ALL SOURCES

Year	I	II	III	IV	V	EL SALVADOR
1958-82	BRA 8507.3	IND 6849.4	ARG 5528.2	PAK 5492.7	CHI 5240.1	71 st - 314.6
1983	EGY 2077.9	PER 1116.8	VIE 948.1	PHI 778.6	IRA 722.1	65 th - 53.6
1984	EGY 3625.9	PER 1750.4	THA 1094.6	CUB 1028.7	PHI 881.2	71 st - 31.8
1985	EGY 2494.8	PER 1120.7	THA 1117.4	BGD 1068.2	PHI 963.7	70 th - 24.5
1986	EGY 2317.0	BRA 1452.9	THA 1169.4	POL 1050.3	BGD 896.4	51 st - 158.4
1987	HUN 3452.6	EGY 1775.4	THA 1742.4	INS 1312.5	YUG 1223.2	53 rd - 183.4
1988	EGY 1486.9	BUL 1361.6	CPR 1278.5	THA 1158.7	BRA 1096.7	62 nd - 90.1
1989	CPR 1542.3	EGY 1505.1	THA 1205.3	BRA 1096.5	INS 999.1	43 rd - 265.0
1990	POL 2308.1	CPR 2005.0	VIE 1589.2	INS 1412.6	BRA 1229.1	46 th - 252.7
1991	INS 1305.2	CPR 975.0	EGY 959.8	BRA 951.2	BUL 934.7	51 st - 215.4
1992	EGY 1586.3	INS 1342.1	CPR 1328.8	MEX 1127.8	POL 1036.4	60 th - 185.9
1958-92	EGY 23808.6	BRA 17736.8	THA 15332.0	INS 13725.9	PER 13129.6	63 rd - 1775.4

**"TOP FIVE" RECIPIENTS OF AGENCY ASSISTANCE
1958 - 1992 (in \$1000)**

TECHNICAL ASSISTANCE AND CO-OPERATION FUND

Year	I	II	III	IV	V	EL SALVADOR
1958-82	HUN 2971.7	EGY 2405.8	PAK 2340.5	THA 2000.3	BRA 1983.5	74 th - 119.8
1983	EGY 1049.4	VIE 897.4	POL 667.8	PAK 498.5	PHI 430.0	64 th - 39.3
1984	EGY 1197.2	CUB 655.6	ECU 565.6	BGD 506.3	BUL 472.4	69 th - 31.8
1985	BGD 991.8	VIE 745.0	THA 708.7	BRA 571.8	POR 538.7	68 th - 24.5
1986	BRA 1381.8	THA 871.9	POL 833.5	BGD 823.9	SYR 751.8	48 th - 146.7
1987	HUN 3305.2	DRK 986.8	BUL 888.5	INS 885.8	EGY 878.9	52 nd - 154.6
1988	BUL 1195.6	PER 856.5	EGY 768.6	INS 751.7	MAL 656.0	66 th - 57.4
1989	EGY 990.9	CPR 868.2	POR 769.6	CHI 756.9	MAL 619.4	41 st - 217.1
1990	POL 1562.3	VIE 1518.8	DRK 1156.2	IRA 958.0	YUG 933.4	43 rd - 214.9
1991	BUL 893.1	PAK 868.8	INS 855.1	VIE 817.6	CPR 814.5	55 th - 155.7
1992	EGY 1255.7	CPR 1009.0	VIE 872.8	INS 826.6	IRA 795.5	67 th - 95.7
1958-92	EGY 10847.0	HUN 8743.7	POL 8486.4	VIE 8199.9	PAK 8115.6	66 th - 1257.5

ASSISTANCE PROVIDED BY THE AGENCY TO EL SALVADOR

Financial Summary 1983 - 1992
(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
1983	-	25.3	28.3	-	-	53.6	-	39.3	-	-	14.3	53.6
1984	19.7	12.1	-	-	-	31.8	-	31.8	-	-	-	31.8
1985	9.0	15.5	-	-	-	24.5	-	24.5	-	-	-	24.5
1986	21.5	121.9	15.0	-	-	158.4	-	146.7	-	11.7	-	158.4
1987	27.5	145.6	10.3	-	-	183.4	-	118.4	36.2	28.8	-	183.4
1988	30.1	58.3	1.7	-	-	90.1	-	57.4	-	32.7	-	90.1
1989	51.2	199.5	14.3	-	-	265.0	-	194.7	22.4	44.7	3.2	265.0
1990	38.1	195.3	19.3	-	-	252.7	-	211.5	3.4	37.8	-	252.7
1991	45.8	165.0	4.6	-	-	215.4	-	150.6	5.1	59.7	-	215.4
1992	33.6	129.2	23.1	-	-	185.9	-	95.7	-	90.2	-	185.9
1983-92	276.5	1 067.7	116.6	-	-	1 460.8	-	1 070.6	67.1	305.6	17.5	1 460.8

TECHNICAL CO-OPERATION PROJECTS IN EL SALVADOR
BY SECTOR

PROJECTS COMPLETED AND OPERATIONAL 1983 - 1993

TOTAL PROJECT ALLOTMENTS AND DISBURSEMENTS
(as of 30 April 1993)

SECTOR	NO. OF PROJECTS	ALLOTMENTS \$	% OF TOTAL	DISBURSEMENTS \$	% OF TOTAL
General atomic energy development	2	45 600	2.0	42 276	2.8
Nuclear physics and chemistry	1	214 543	9.2	205 095	13.4
Nuclear raw materials	-	-	-	-	-
Nuclear engineering and technology	3	297 145	12.7	188 532	12.3
Nuclear techniques in agriculture	5	660 971	28.4	369 570	24.2
Nuclear medicine	4	422 040	18.1	268 914	17.6
Nuclear techniques in biology	-	-	-	-	-
Nuclear techniques in industry and hydrology	2	249 629	10.7	270 218	17.7
Nuclear safety	4	440 610	18.9	184 469	12.0
TOTAL	21	2 330 538	100.0	1 529 074	100.0

TECHNICAL CO-OPERATION PROJECTS IN EL SALVADOR
 COMPLETED AND OPERATIONAL, BY SECTOR, 1983 - 1993
 (As of 30 April 1993)

Sector	No. of projects	Total project allotments \$	Total project disbursements \$
<u>Completed projects</u>			
General atomic energy development	1	13 200	12 168
Nuclear physics and chemistry	1	214 543	205 095
Nuclear raw materials	-	-	-
Nuclear engineering and technology	1	70 200	71 276
Nuclear techniques in agriculture	1	68 516	68 516
Nuclear medicine	2	86 300	81 985
Nuclear techniques in biology	-	-	-
Nuclear techniques in industry & hydrology	1	72 579	81 951
Nuclear safety	2	94 700	94 390
TOTAL	9	620 038	615 381
<u>Operational projects</u>			
General atomic energy development	1	32 400	30 108
Nuclear physics and chemistry	-	-	-
Nuclear raw materials	-	-	-
Nuclear engineering and technology	2	226 945	117 256
Nuclear techniques in agriculture	4	592 455	301 054
Nuclear medicine	2	335 740	186 929
Nuclear techniques in biology	-	-	-
Nuclear techniques in industry & hydrology	1	177 050	188 267
Nuclear safety	2	345 910	90 079
TOTAL	12	1 710 500	913 693

EXPERT SERVICES, EQUIPMENT AND PROJECT-FUNDED TRAINING PROVIDED TO EL SALVADOR, BY SECTOR
 PROJECTS COMPLETED AND OPERATIONAL 1983 - 1993
 (As of 30 April 1993)

FIELD	TOTAL PROJECT ALLOTMENTS				TOTAL PROJECT DISBURSEMENTS			
	EXPERT SERVICES		EQUIPMENT	TRAINING	EXPERT SERVICES		EQUIPMENT	TRAINING
	M/M	\$	\$	\$	M/M	\$	\$	\$
General atomic energy development	2/00	13 200	32 400	-	1/27	12 168	30 108	-
Nuclear physics and chemistry	3/21	25 785	174 758	14 000	3/16	17 906	173 980	13 209
Nuclear raw materials	-	-	-	-	-	-	-	-
Nuclear engineering and technology	8/15	80 045	217 100	-	3/26	32 662	155 870	-
Nuclear techniques in agriculture	17/12	161 340	389 736	109 895	6/14	66 765	294 465	8 340
Nuclear medicine	12/00	94 950	226 890	100 200	7/26	48 378	194 073	26 463
Nuclear techniques in biology	-	-	-	-	-	-	-	-
Nuclear techniques in industry & hydrology	8/05	62 080	187 549	-	7/13	86 357	183 861	-
Nuclear safety	15/03	122 610	259 000	59 000	8/09	49 173	127 644	7 652
TOTAL	66/26	560 010	1 487 433	283 095	39/11	313 409	1 160 001	55 664

AGENCY FELLOWS FROM EL SALVADOR

1983 - 1993¹
(As of 30 April 1993)

Sector	No. of fellowships	No. of months/days	Host countries
General atomic energy development	-	-	-
Nuclear physics	3	1/27	NIC
Nuclear chemistry	-	-	-
Nuclear raw materials	-	-	-
Nuclear engineering and technology	3	9/19	BRA, COL, URU
Nuclear techniques in agriculture	4	15/01	BRA, CHI, COS
Nuclear medicine	4	14/16	CHI, MEX, URU, USA
Nuclear techniques in biology	-	-	-
Nuclear techniques in industry and hydrology	4	6/26	AUL, ITA, MEX, NZE, IAEA
Nuclear safety	2	1/19	ECU, IAEA
TOTAL	20	49/18	

^{1/} Only includes fellows who have completed or at least started training.

EL SALVADOR
LONG-TERM FELLOWSHIPS
1983 - 1993
(As of 30 April 1993)

Name	Field of study	Host country	Date	Duration	Project
RAMOS CRUZ	Soil microbiology	BRA	Feb.87 - Feb.88	12/00	-

**SALVADOREAN NATIONALS WHO WERE AWARDED MORE THAN ONE
FELLOWSHIP OR SCIENTIFIC VISIT
1983 - 1993
(As of 30 April 1993)**

NONE

AGENCY TRAINING COURSES WITH SALVADOREAN PARTICIPATION

1983 - 1993
(As of 30 April 1993)

Field	Number of participants	Number of courses
General atomic energy development	7	4
Nuclear physics	1	1
Nuclear chemistry	-	-
Nuclear raw materials	-	-
Nuclear engineering and technology	7	7
Nuclear techniques in agriculture	11	11
Nuclear medicine	9	9
Nuclear techniques in biology	1	1
Nuclear techniques in industry & hydrology	2	1
Nuclear safety	8	7
TOTAL	46	41

**MULTIPLE PARTICIPATION IN AGENCY TRAINING COURSES
BY SALVADOREAN NATIONALS
1983 - 1993
(As of 30 April 1993)**

Name	Course No.	Course title	Year	Location
FRANCO RAMOS	INT/6/039 (001) RLA/6/011 (044)	ITC on nuclear medicine National training course on radioisotope methodology	1990 1990	USSR GUA
MELARA FLORES	INT/9/093 (001) RLA/4/006 (008) RLA/9/011 (002)	ITC on safety and regulation of sealed sources of radioactive material Regional seminar on recent advances in nuclear data acquisition and analysis systems RTC on safe operation of industrial radiation facilities	1989 1987 1991	USA GUA MEX
PORTILLO TRUJILLO	INT/4/113 (001) RLA/4/006 (007) RLA/4/006 (017)	ITC on interfacing in nuclear experiments RWS on repair of nuclear instrument module (NIM) RTC on maintenance of radiation protection equipment	1992 1987 1989	INS URU PAR

**PROJECTS COMPLETED IN EL SALVADOR SINCE 1983
(As of 30 April 1993)**

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS				COMPLETED
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING	
			M/M	\$	\$	\$	M/M	\$	\$	\$	
1984	ELS/0/004	Nuclear applications planning	2/00	13 200	-	-	1/27	12 168	-	-	1986
1985	ELS/1/002	Nuclear science laboratory	3/21	25 785	174 758	14 000	3/16	17 906	173 980	13 209	1991
1985	ELS/4/002	Maintenance of nuclear instruments	1/00	6 900	63 300	-	0/28	8 533	62 743	-	1991
1985	ELS/5/002	Animal diseases and reproduction	1/21	13 245	55 271	-	1/21	13 245	55 271	-	1989
1981	ELS/6/008	Radioimmunoassay	4/00	21 000	30 000	-	4/02	15 519	31 047	-	1986
1987	ELS/6/009	Nuclear medicine services	-	-	35 300	-	-	-	35 419	-	1991
1984	ELS/8/002	Isotopes in geothermal studies	3/14	23 620	48 959	-	3/15	32 725	49 226	-	1989
1980	ELS/9/003	Radiation protection	6/00	25 200	53 000	-	6/01	25 821	51 839	-	1985
1989	ELS/9/006	Treatment of over-exposed persons	1/22	16 500	-	-	1/22	16 730	-	-	1989
	TOTAL	9 projects	23/18	145 450	460 588	14 000	23/12	142 647	459 525	13 209	

OPERATIONAL PROJECTS IN EL SALVADOR
(As of 30 April 1993)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS			
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING
			M/M	\$	\$	\$	M/M	\$	\$	\$
1988	ELS/0/005	Nuclear science laboratory construction	-	-	32 400	-	-	-	30 108	-
1988	ELS/4/003	Nuclear instrumentation	3/15	30 845	108 800	-	2/28	24 129	93 127	-
1993	ELS/4/004	Training in nuclear instrumentation	4/00	42 300	45 000	-	-	-	-	-
1988	ELS/5/003	Mutation breeding techniques	6/22	62 715	85 000	27 900	1/16	19 524	70 563	-
1988	ELS/5/004	Contamination of the agricultural environment	1/29	18 030	65 000	27 900	0/06	2 243	58 166	-
1989	ELS/5/005	Radioimmunoassay in animal sciences	4/00	34 800	110 465	23 345	3/01	31 753	110 465	8 340
1993	ELS/5/006	Nuclear and related techniques in animal science	3/00	32 550	74 000	30 750	-	-	-	-
1990	ELS/6/010	Upgrading nuclear medicine services	5/00	42 450	161 590	26 400	3/24	25 409	127 607	26 463
1993	ELS/6/011	Improvement of nuclear medicine services	3/00	31 500	-	73 800	-	7 450	-	-

OPERATIONAL PROJECTS IN EL SALVADOR
(As of 30 April 1993)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS			
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING
			M/M	\$	\$	\$	M/M	\$	\$	\$
1988	ELS/8/003	Isotope application in geothermal dynamics (phase II)	4/21	38 460	138 590	-	3/28	53 632	134 635	-
1988	ELS/9/005	Radiation protection	0/11	5 460	76 000	8 900	0/16	6 622	75 805	7 652
1993	ELS/9/007	National radiation protection system	7/00	75 450	130 000	50 100	-	-	-	-
	TOTAL	12 projects	43/08	414 560	1 026 845	269 095	15/29	170 762	700 476	42 455

Footnote-a/ projects not yet upgraded:

ELS/8/004 Isotope hydrology in geothermal fields

COUNTERPART INSTITUTIONS IN EL SALVADOR (I)
(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>GENERAL ATOMIC ENERGY DEVELOPMENT</u>		
ELS/0/004	Ministry of Planning, Directorate for International Co-operation, San Salvador	JAIMES
ELS/0/005	University of El Salvador, Faculty of Engineering and Architecture, Department of Physics, San Salvador	ELIAS MORILLO DE ESCOBAR
<u>NUCLEAR PHYSICS AND CHEMISTRY</u>		
ELS/1/002	1. University of El Salvador, Faculty of Engineering and Architecture, Department of Physics, San Salvador	PORTILLO TRUJILLO
	2. University of El Salvador, Faculty of Arts and Sciences, Department of Chemistry, San Salvador	KAFIE ACEITUNO DE
<u>NUCLEAR ENGINEERING AND TECHNOLOGY</u>		
ELS/4/002	Ministry of Public Health, Rosales Hospital, Department of Nuclear Medicine, San Salvador	SAAVEDRA GONZALEZ
ELS/4/003	University of El Salvador, Faculty of Engineering and Architecture, Department of Physics, San Salvador	PORTILLO TRUJILLO
ELS/4/004	University of El Salvador, Faculty of Engineering and Architecture, Nuclear Applications Research Centre, San Salvador	PORTILLO TRUJILLO

COUNTERPART INSTITUTIONS IN EL SALVADOR (I)
(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>AGRICULTURE</u>		
ELS/5/002	Ministry of Agriculture and Stockbreeding, Department of Veterinary Medicine Investigations, San Salvador	MELENDEZ CALDERON FRANCO
ELS/5/003	Ministry of Agriculture and Stockbreeding, Agriculture Technology Centre, San Salvador	GUILLEN ASTACIO
ELS/5/004	Ministry of Agriculture and Stockbreeding, Agriculture Technology Centre, Department of Chemistry and Food Technology, Toxic Residues Laboratory, San Salvador	DE CALDERON CAINDA
ELS/5/005	Livestock Development Centre, Central Laboratory of Animal Pathology, Soyapongo, San Salvador	CASTELLANOS DE MAZA BENITEZ ESCOLERO
ELS/5/006	Livestock Development Centre, Central Laboratory of Animal Pathology, Soyapongo, San Salvador	SILVA HERNANDEZ
<u>NUCLEAR MEDICINE</u>		
ELS/6/008	Ministry of Public Health, Rosales Hospital, Department of Nuclear Medicine, San Salvador	AMADOR VELASCO
ELS/6/009	Ministry of Public Health, Rosales Hospital, Department of Nuclear Medicine, San Salvador	SAAVEDRA GONZALEZ
ELS/6/010	Ministry of Public Health, Rosales Hospital, Department of Nuclear Medicine, San Salvador	OCHOA CORDOVA
ELS/6/011	Salvadorean Institute of Social Security, Nuclear Medicine Department, San Salvador	GARCIA

COUNTERPART INSTITUTIONS IN EL SALVADOR 1(I)
(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>NUCLEAR TECHNIQUES IN INDUSTRY AND HYDROLOGY</u>		
ELS/8/002	Hydroelectric Executive Commission for the Rio Lempa, San Salvador	VEGA
ELS/8/003	Hydroelectric Executive Commission for the Rio Lempa, San Salvador	DE ASTURIAS ESCOBAR
<u>NUCLEAR SAFETY</u>		
ELS/9/003	Ministry of Public Health, Rosales Hospital, Department of Nuclear Medicine, San Salvador	AMADOR VELASCO
ELS/9/005	Ministry of Public Health, Rosales Hospital, Department of Radiation Protection, San Salvador	MELARA FLORES RODRIGUEZ VASQUEZ
ELS/9/006	1. Ministry of Public Health, Rosales Hospital, Department of Radiation Protection, San Salvador 2. Salvadorean Institute of Social Security, San Salvador	MELARA FLORES SOLANO ROMING
ELS/9/007	Ministry of Public Health, Rosales Hospital, Department of Radiation Protection, San Salvador	MELARA FLORES

COUNTERPART INSTITUTIONS IN EL SALVADOR (II)

SAN SALVADOR

**Ministry of Planning
Directorate for International Co-operation
San Salvador**

ELS/0/004 Nuclear Applications Planning

**Ministry of Public Health
Rosales Hospital
Department of Nuclear Medicine
San Salvador**

ELS/4/002 Maintenance of Nuclear Instruments
ELS/6/008 Radioimmunoassay
ELS/6/009 Nuclear Medicine Services
ELS/6/010 Upgrading Nuclear Medicine Services
ELS/9/003 Radiation Protection

**Ministry of Public Health
Rosales Hospital
Department of Radiation Protection
San Salvador**

ELS/9/005 Radiation Protection
ELS/9/006 Treatment of Overexposed Persons
ELS/9/007 National Radiation Protection System

**Ministry of Agriculture and Stockbreeding
Department of Veterinary Medicine Investigations
San Salvador**

ELS/5/002 Animal Diseases and Reproduction

**Ministry of Agriculture and Stockbreeding
Agriculture Technology Centre
San Salvador**

ELS/5/003 Mutation Breeding Techniques

COUNTERPART INSTITUTIONS IN EL SALVADOR f(II)
(By Institute)

SAN SALVADOR (cont'd)

Ministry of Agriculture and Stockbreeding
Agriculture Technology Centre
Department of Chemistry and Food Technology
Toxic Residues Laboratory
San Salvador

ELS/5/004 Contamination of the Agricultural Environment

Livestock Development Centre
Central Laboratory of Animal Pathology
Soyapongo, San Salvador

ELS/5/005 Radioimmunoassay in Animal Sciences
ELS/5/006 Nuclear and Related Techniques in Animal Science

Salvadorean Institute of Social Security
San Salvador

ELS/9/006 Treatment of Overexposed Persons

Salvadorean Institute of Social Security
Nuclear Medicine Department
San Salvador

ELS/6/011 Improvement of Nuclear Medicine Services

Hydroelectric Executive Commission for the Rio Lempa
San Salvador

ELS/8/002 Isotopes in Geothermal Studies
ELS/8/003 Isotope Application in Geothermal Dynamics (Phase II)

University of El Salvador
Faculty of Engineering and Architecture
Department of Physics
San Salvador

ELS/0/005 Nuclear Science Laboratory Construction
ELS/1/002 Nuclear Science Laboratory
ELS/4/003 Nuclear Instrumentation

COUNTERPART INSTITUTIONS IN EL SALVADOR 1(II)
(By Institute)

SAN SALVADOR (cont'd)

University of El Salvador
Faculty of Engineering and Architecture
Nuclear Applications Research Centre
San Salvador

ELS/4/004 Training in Nuclear Instrumentation

University of El Salvador
Faculty of Arts and Sciences
Department of Chemistry
San Salvador

ELS/1/002 Nuclear Science Laboratory

**THE AGENCY'S TECHNICAL CO-OPERATION PROGRAMME WITH
EL SALVADOR
SINCE 1983**

LONG-TERM EXPERT ASSIGNMENTS

NONE

RESEARCH CONTRACTS/AGREEMENTS IN EL SALVADOR SINCE 1983 ¹
(As of 30 April 1993)

Field of activity	No. of contracts/ agreements	Amount allocated \$
Nuclear engineering and technology	1	12 000
Nuclear techniques in agriculture	2	12 500
Nuclear medicine	1	4 000
TOTAL	4	28 500

¹/ New awards since 1983

**SCIENTISTS FROM EL SALVADOR SERVING AS AGENCY
TECHNICAL CO-OPERATION EXPERTS OR
TRAINING COURSE LECTURERS
1983 - 1993
(As of 30 April 1993)**

Name	No. of assignments	Project(s)
MELARA FLORES	2	ELS/9/005, RLA/9/010
MELENDEZ CALDERON	1	RLA/5/019
NAVARRO PINEDA	2	INT/4/054, RLA/4/006
PORTILLO TRUJILLO	1	INT/4/054
TOTAL	6	

**AGENCY FELLOWSHIPS AND SCIENTIFIC VISITS
HOSTED BY EL SALVADOR
1983 - 1993
(As of 30 April 1993)**

Recipient country	No. of fellowships	No. of scientific visits	TOTAL ¹
COSTA RICA	1	2	3
DOMINICAN REPUBLIC	1	-	1
GUATEMALA	3	-	3
HONDURAS	2	-	2
PANAMA	1	-	1
TOTAL	8	2	10

1./ Includes trainees who have completed or at least started their studies.

**REGIONAL AND INTERREGIONAL TRAINING EVENTS
HOSTED BY EL SALVADOR
1983 - 1993
(As of 30 April 1993)**

NONE