



INTERNATIONAL ATOMIC ENERGY AGENCY



XA9743900

IAEA-CPS-94/11
11 October 1994
Original: ENGLISH

COUNTRY PROGRAMME SUMMARY

THE AGENCY'S TECHNICAL CO-OPERATION

PROGRAMME WITH

ICELAND

1984 - 1994

COUNTRY PROGRAMME SUMMARIES

DEPARTMENT OF TECHNICAL CO-OPERATION

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1984 - 1994
COUNTRY PROGRAMME SUMMARIES

EVALUATION SECTION

DEPARTMENT OF TECHNICAL CO-OPERATION

THE AGENCY'S TECHNICAL CO-OPERATION

PROGRAMME WITH

ICELAND

1984 - 1994

COUNTRY PROGRAMME SUMMARIES

This report contains a review of the Agency's technical co-operation activities in Iceland carried out during 1984 - 1994. 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.

ICELAND

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INTRODUCTION

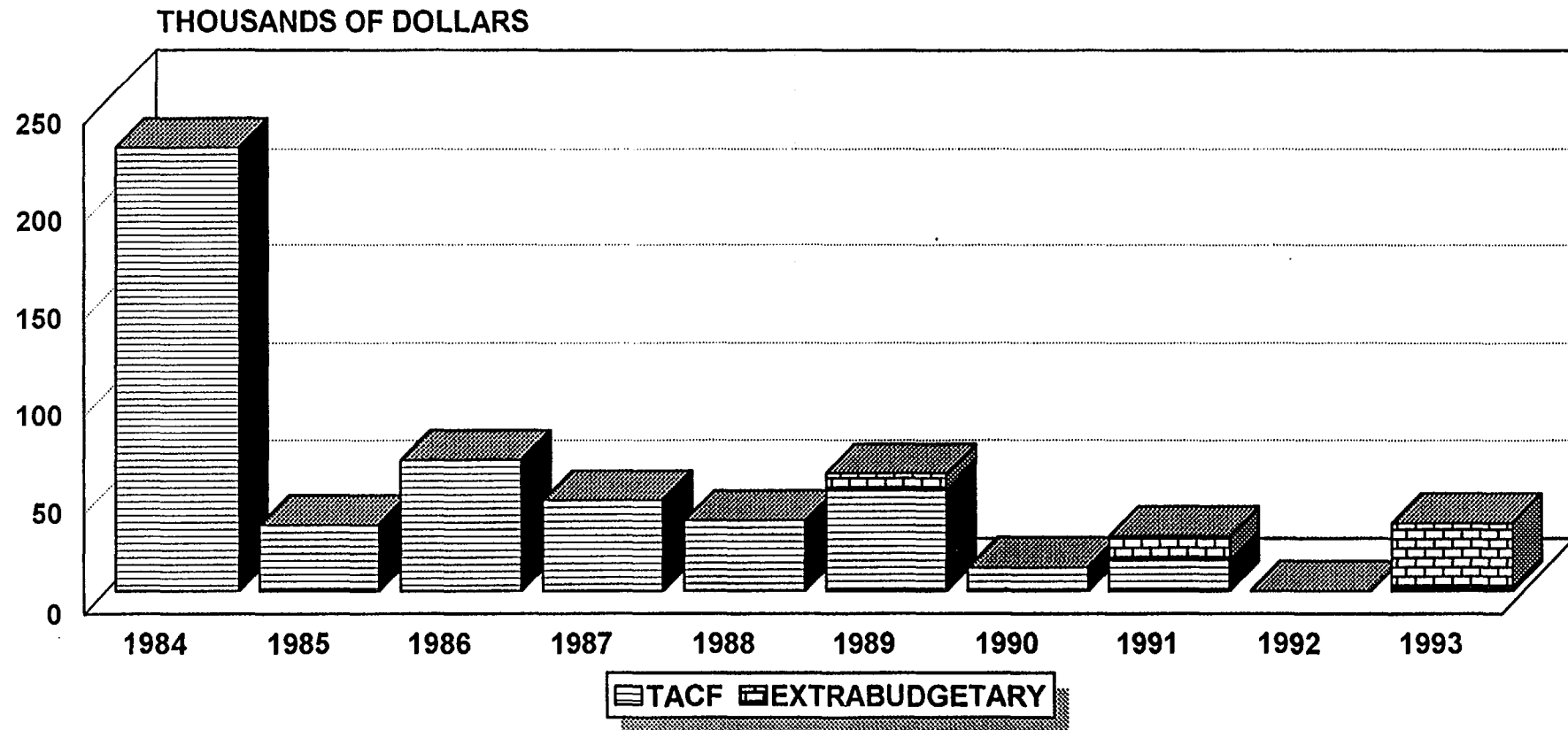
The country programme summary reported on here is one in the series of such studies being undertaken of the Agency's TC programme with Member States. With over \$1 million of Agency support received, Iceland ranks 73rd among all recipients of technical assistance during the period 1958 through 1993.

The bulk of the assistance received over the past ten years has been provided in the form of equipment (96%), with comparatively insignificant amounts spent for expert services (2%) and training (2%). The best part of the resources was made available through the TACF (90%), the remainder was provided through extrabudgetary contributions (10%). In-kind assistance amounted to less than one-half per cent.

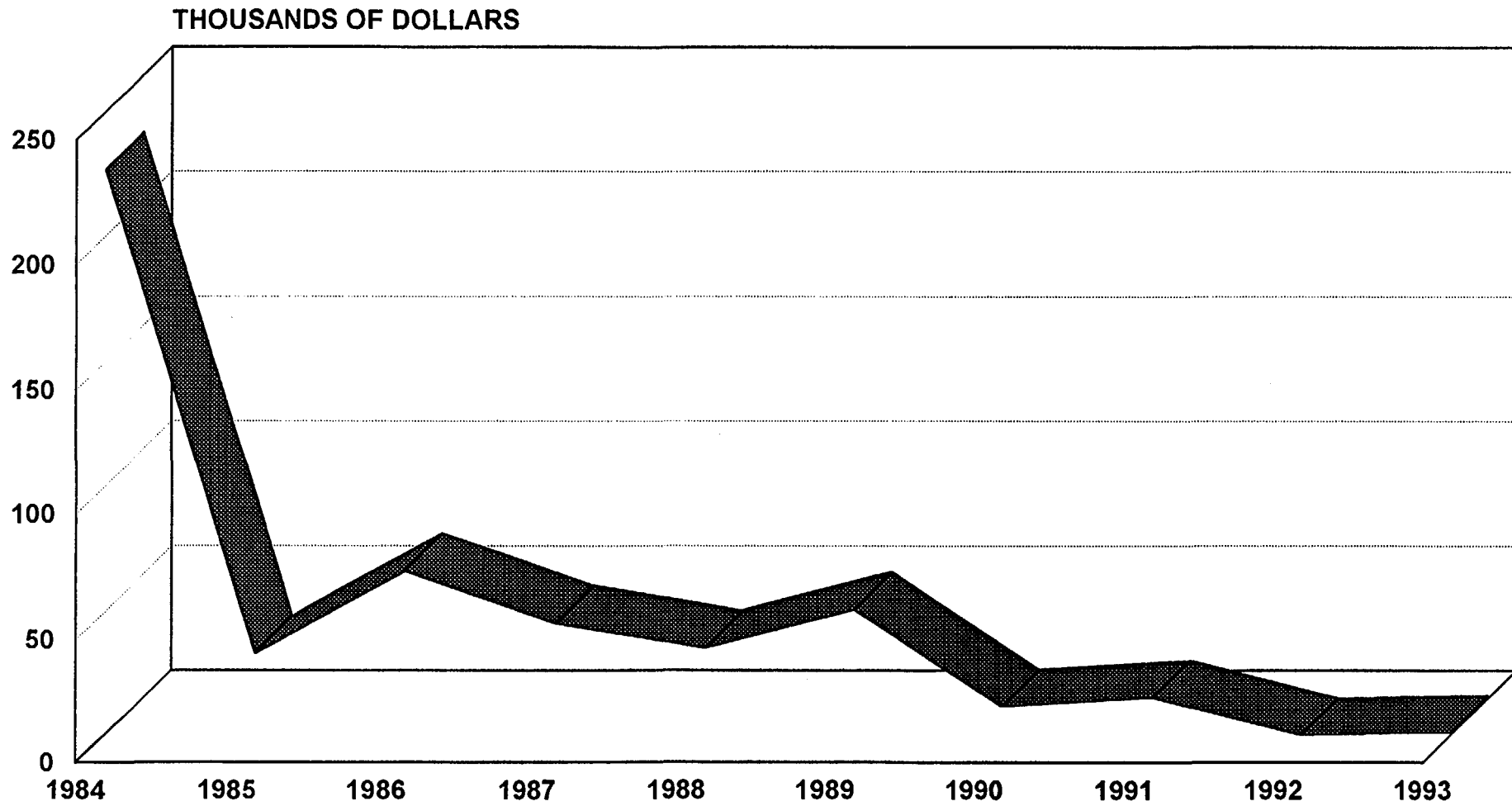
Only three sectors share in one on-going project and three projects completed during the period 1984 through the end of September 1994: Industry and hydrology (58%), nuclear safety (31%) and agriculture (11%).

Since 1984, Iceland has provided scientists for eight expert/lecturer assignments and has hosted four scientific visits.

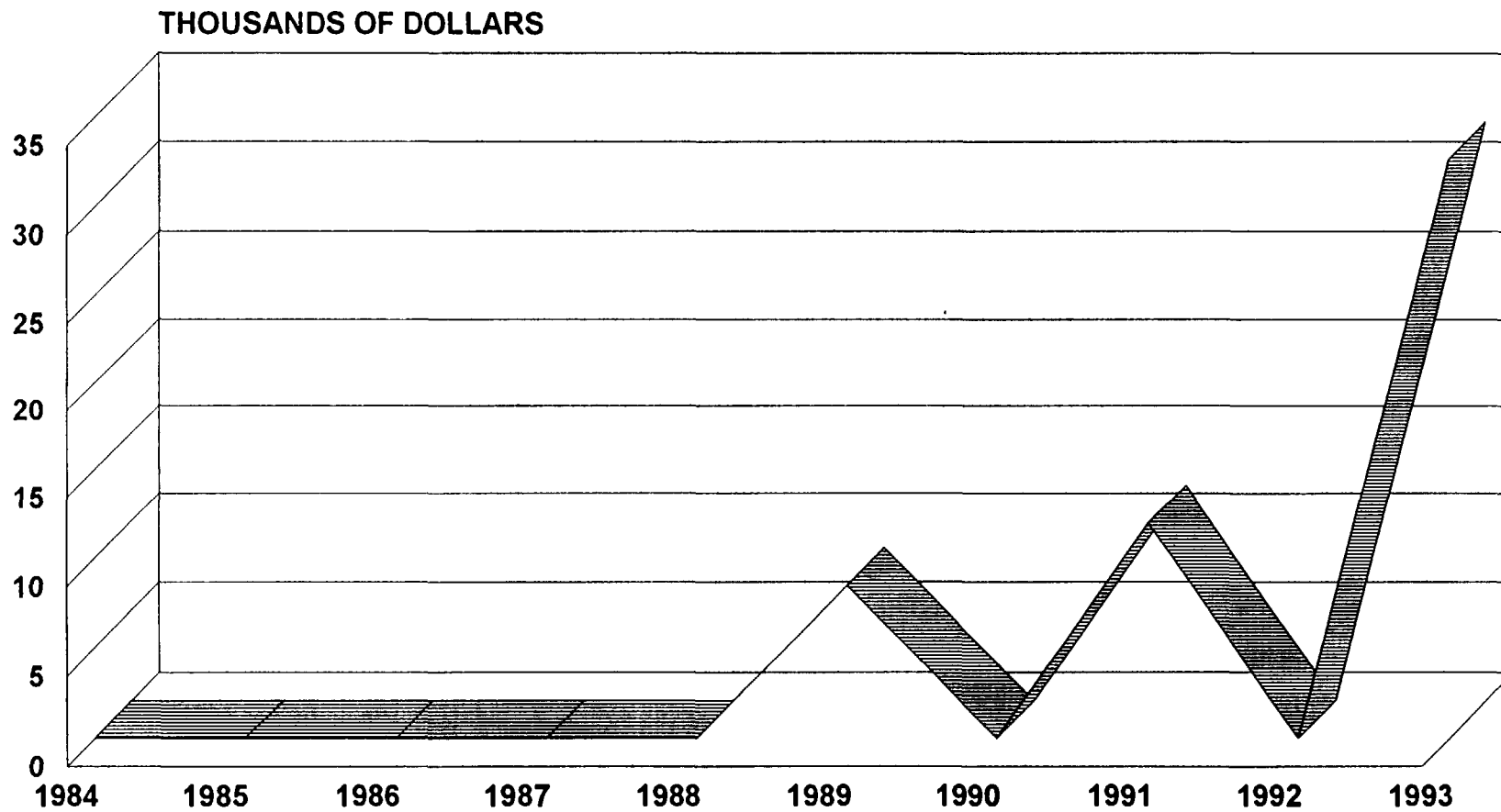
ASSISTANCE PROVIDED BY THE AGENCY TO ICELAND BY SOURCE (1984 - 1993)



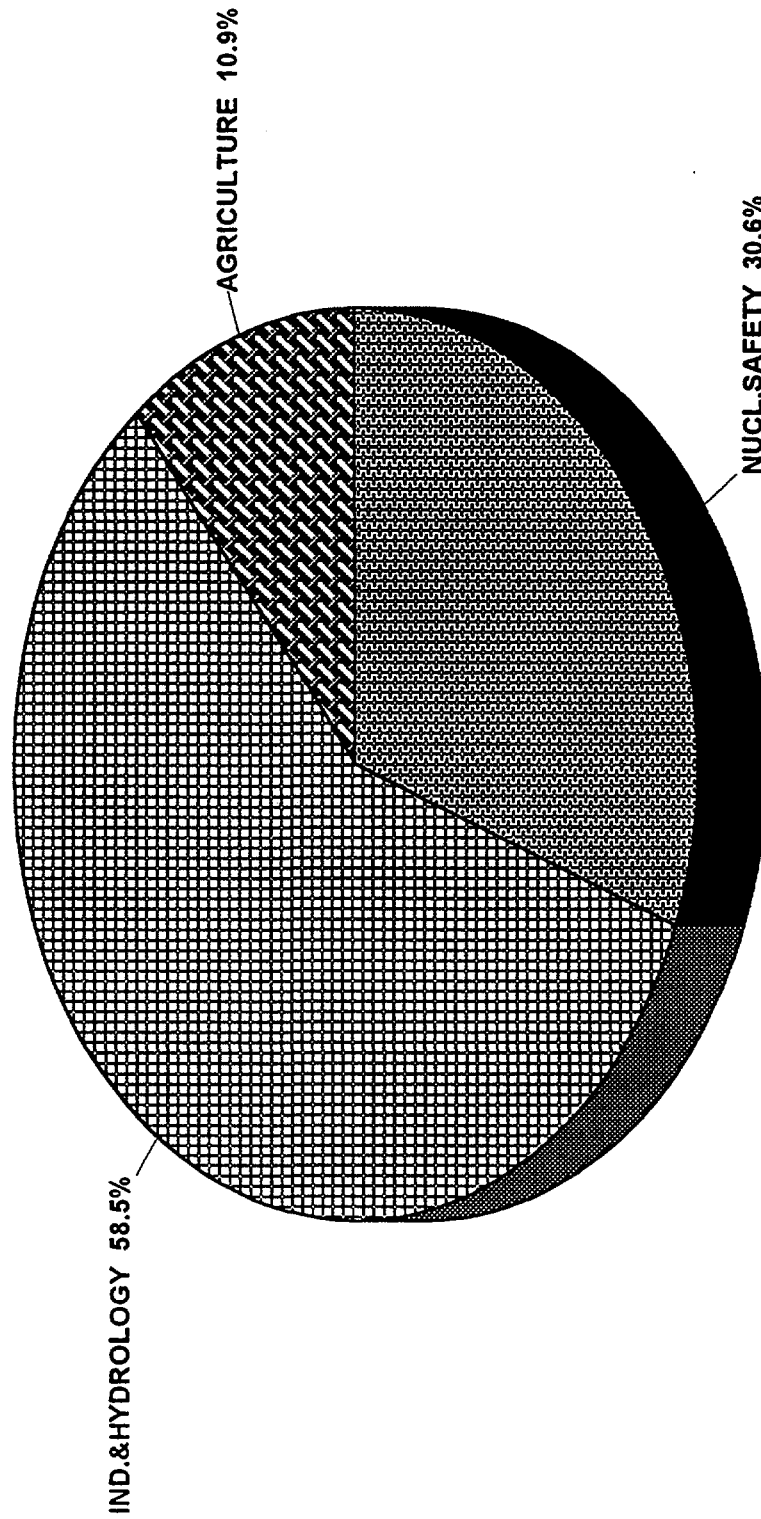
TACF ASSISTANCE PROVIDED TO ICELAND (1984 - 1993)



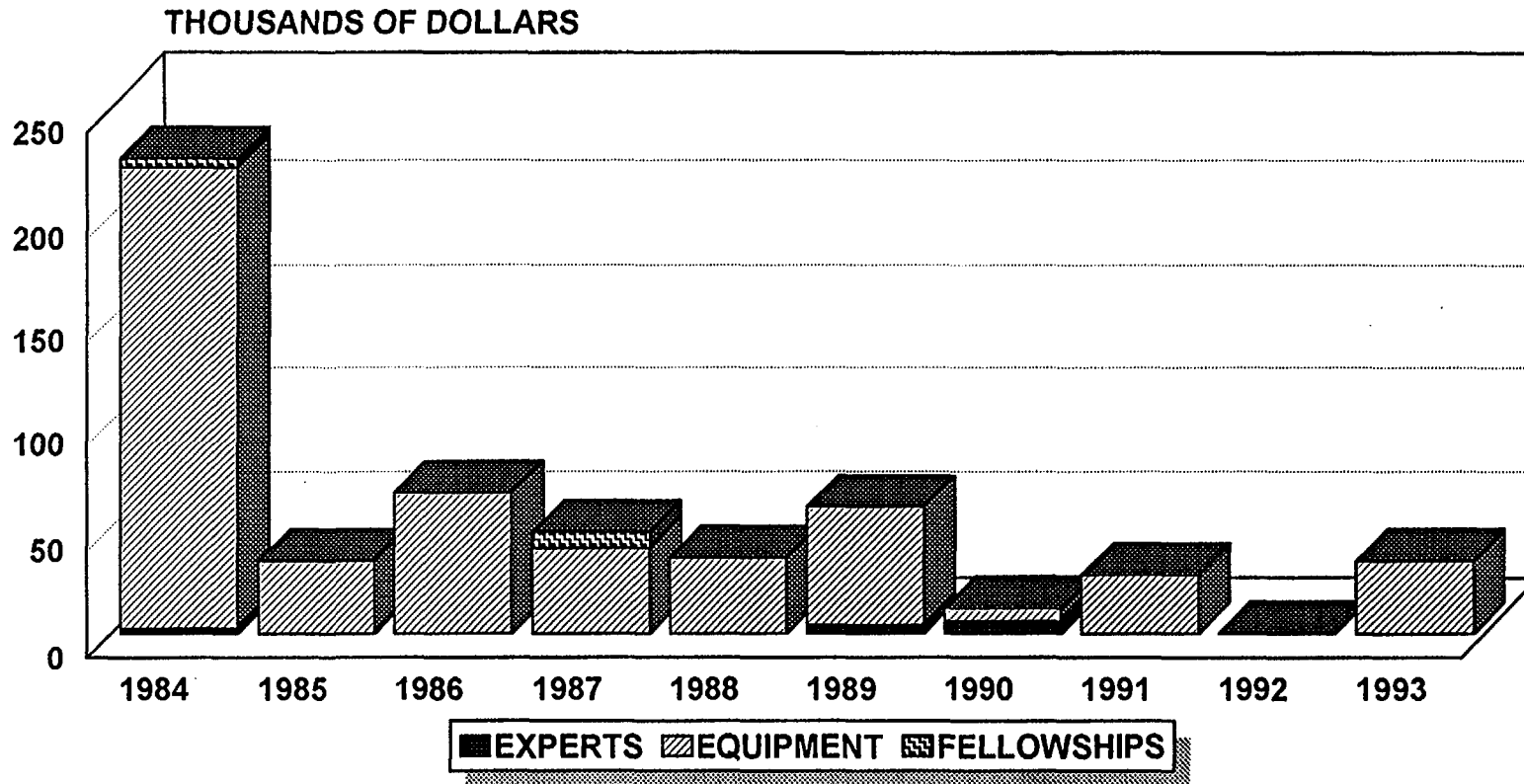
EXTRABUDGETARY ASSISTANCE PROVIDED TO ICELAND (1984 - 1993)



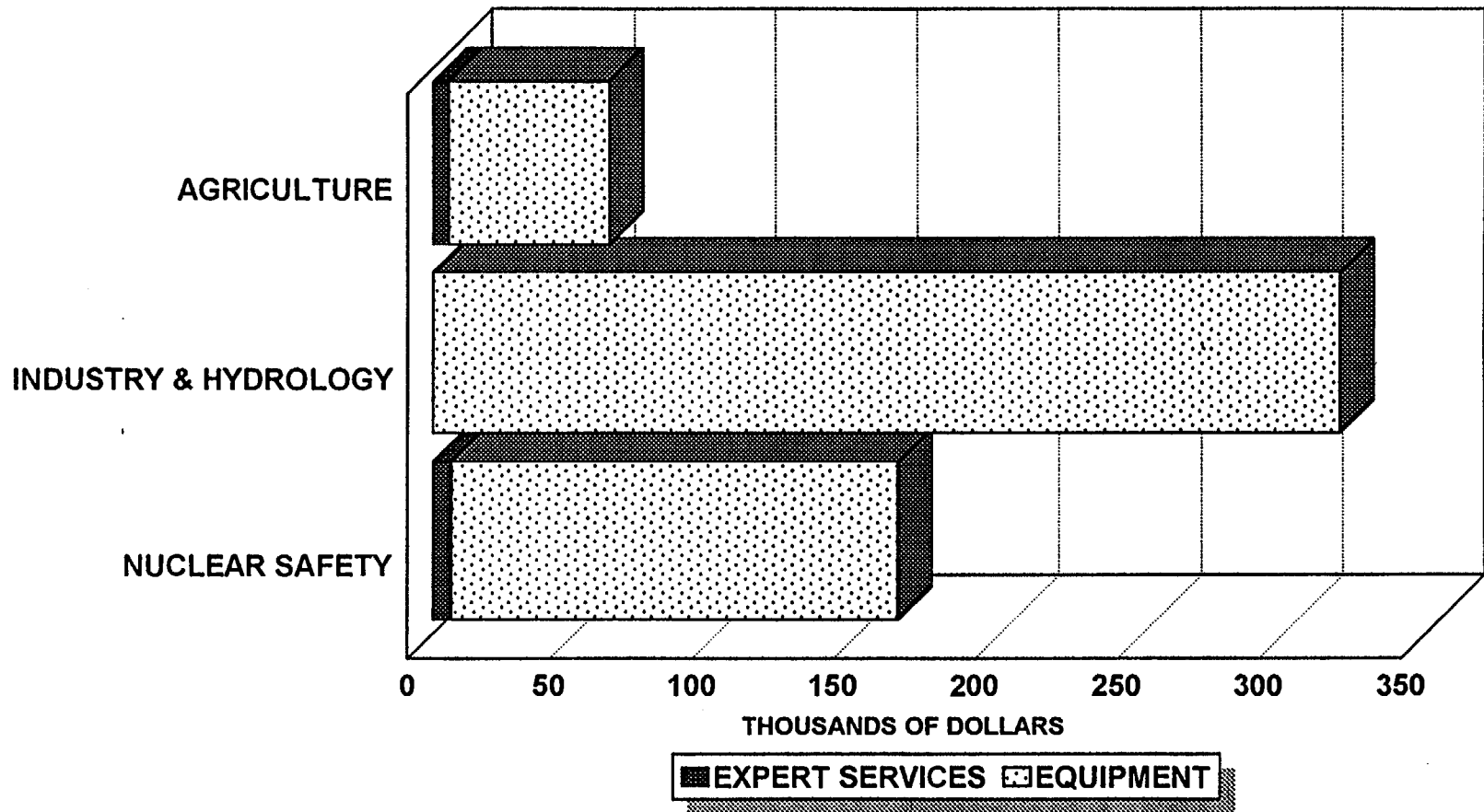
TC PROJECT DISBURSEMENTS IN ICELAND BY SECTOR (1984 - 1994)



ASSISTANCE PROVIDED BY THE AGENCY TO ICELAND BY TYPE (1984 - 1993)



EXPERT SERVICES, EQUIPMENT AND PROJECT-FUNDED TRAINING PROVIDED TO ICELAND BY SECTOR (1984 - 1994)



THE AGENCY'S TECHNICAL CO-OPERATION PROGRAMME WITH ICELAND

ALL SOURCES

ICELAND'S RANKING AS A TC RECIPIENT
1958 - 1993
(in \$1000)

YEAR	RANKING	AMOUNT
1958-83	67 th	486.8
1984	34 th	226.7
1985	69 th	33.1
1986	64 th	66.0
1987	71 st	47.2
1988	72 nd	35.2
1989	69 th	59.1
1990	82 nd	11.8
1991	76 th	27.4
1992	-	-
1993	79 th	33.9
1958-93	73 rd	1027.2

**"TOP FIVE" RECIPIENTS OF AGENCY ASSISTANCE
1958 - 1993 (in \$1000)**

ALL SOURCES

Year	I	II	III	IV	V	ICELAND
1958-83	BRA 8887.6	IND 7197.4	EGY 7024.5	PAK 6008.9	ARG 5912.2	67 th - 486.8
1984	EGY 3625.9	PER 1750.4	THA 1094.6	CUB 1028.7	PHI 881.2	34 th - 226.7
1985	EGY 2494.8	PER 1120.7	THA 1117.4	BGD 1068.2	PHI 963.7	69 th - 33.1
1986	EGY 2317.0	BRA 1452.9	THA 1169.4	POL 1050.3	BGD 896.4	64 th - 66.0
1987	HUN 3452.6	EGY 1775.4	THA 1742.4	INS 1312.5	YUG 1223.2	71 st - 47.2
1988	EGY 1486.9	BUL 1361.6	CPR 1278.5	THA 1158.7	BRA 1096.7	72 nd - 35.2
1989	CPR 1542.3	EGY 1505.1	THA 1205.3	BRA 1096.5	INS 999.1	69 th - 59.1
1990	POL 2308.1	CPR 2005.0	VIE 1589.2	INS 1412.6	BRA 1229.1	82 nd - 11.8
1991	INS 1305.2	CPR 975.0	EGY 959.8	BRA 951.2	BUL 934.7	76 th - 27.4
1992	EGY 1586.3	INS 1342.1	CPR 1328.8	MEX 1127.8	POL 1036.4	.
1993	INS 1285.9	CPR 1091.7	PAK 1012.2	EGY 905.3	IRA 810.1	79 th - 33.9
1958-93	EGY 24713.9	BRA 18541.4	THA 16125.1	INS 15011.8	PER 13772.0	73 rd - 1027.2

**"TOP FIVE" RECIPIENTS OF AGENCY ASSISTANCE
1958 - 1993 (in \$1000)**

TECHNICAL ASSISTANCE AND CO-OPERATION FUND

Year	I	II	III	IV	V	ICELAND
1958-83	EGY 3455.2	HUN 3221.6	PAK 2839.0	THA 2354.1	BRA 2158.9	63 rd - 361.5
1984	EGY 1197.2	CUB 655.6	ECU 565.6	BGD 506.3	BUL 472.4	29 th - 226.7
1985	BGD 991.8	VIE 745.0	THA 708.7	BRA 571.8	POR 538.7	67 th - 35.1
1986	BRA 1381.8	THA 871.9	POL 833.5	BGD 823.9	SYR 751.8	62 nd - 66.0
1987	HUN 3305.2	DRK 986.8	BUL 888.5	INS 885.8	EGY 878.9	69 th - 45.4
1988	BUL 1195.6	PER 856.5	EGY 768.6	INS 751.7	MAL 656.0	71 st - 35.2
1989	EGY 990.9	CPR 868.2	POR 769.6	CHI 756.9	MAL 619.4	68 th - 50.6
1990	POL 1562.3	VIE 1518.8	DRK 1156.2	IRA 958.0	YUG 933.4	81 st - 11.8
1991	BUL 893.1	PAK 868.8	INS 855.1	VIE 817.6	CPR 814.5	77 th - 15.4
1992	EGY 1255.7	CPR 1009.0	VIE 872.8	INS 826.6	IRA 795.5	-
1993	INS 1040.5	CPR 896.5	PAK 847.6	IRA 807.4	THA 721.5	86 th - 1.2
1958-93	EGY 11549.2	PAK 8963.2	VIE 8908.2	POL 8820.1	INS 8814.1	72 nd - 846.9

ASSISTANCE PROVIDED BY THE AGENCY TO ICELAND

Financial Summary 1984 - 1993
(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
1984	2.4	220.1	4.2	-	-	226.7	-	226.7	-	-	-	226.7
1985	-	33.7	(0.6)	-	-	33.1	-	33.1	-	-	-	33.1
1986	-	66.0	-	-	-	66.0	-	66.0	-	-	-	66.0
1987	-	39.8	7.4	-	-	47.2	-	45.4	-	-	1.8	47.2
1988	-	35.2	-	-	-	35.2	-	35.2	-	-	-	35.2
1989	3.9	55.2	-	-	-	59.1	-	50.6	-	8.5	-	59.1
1990	5.8	6.0	-	-	-	11.8	-	11.8	-	-	-	11.8
1991	-	27.4	-	-	-	27.4	-	15.4	-	12.0	-	27.4
1992	-	-	-	-	-	-	-	-	-	-	-	-
1993	-	33.9	-	-	-	33.9	-	1.2	-	32.7	-	33.9
1984-93	12.1	517.3	11.0	-	-	540.4	-	485.4	-	53.2	1.8	540.4

TECHNICAL CO-OPERATION PROJECTS IN ICELAND
BY SECTOR

PROJECTS COMPLETED AND OPERATIONAL 1984 - 1994

TOTAL PROJECT ALLOTMENTS AND DISBURSEMENTS
(as of 30 September 1994)

SECTOR	NO. OF PROJECTS	ALLOTMENTS \$	% OF TOTAL	DISBURSEMENTS \$	% OF TOTAL
General atomic energy development	-	-	-	-	-
Nuclear physics and chemistry	-	-	-	-	-
Nuclear raw materials	-	-	-	-	-
Nuclear engineering and technology	-	-	-	-	-
Nuclear techniques in agriculture	1	61 900	11.3	59 864	10.9
Nuclear medicine	-	-	-	-	-
Nuclear techniques in biology	-	-	-	-	-
Nuclear techniques in industry and hydrology	1	319 808	58.6	319 808	58.5
Nuclear safety	2	163 970	30.1	167 424	30.6
TOTAL	4	545 678	100.0	547 096	100.0

TECHNICAL CO-OPERATION PROJECTS IN ICELAND
 COMPLETED AND OPERATIONAL, BY SECTOR, 1984 - 1994
 (As of 30 September 1994)

Sector	No. of projects	Total project allotments \$	Total project disbursements \$
<u>Completed projects</u>			
General atomic energy development	-	-	-
Nuclear physics and chemistry	-	-	-
Nuclear raw materials	-	-	-
Nuclear engineering and technology	-	-	-
Nuclear techniques in agriculture	1	61 900	59 864
Nuclear medicine	-	-	-
Nuclear techniques in biology	-	-	-
Nuclear techniques in industry & hydrology	1	319 808	319 808
Nuclear safety	1	130 334	133 547
TOTAL	3	512 042	513 219
<u>Operational projects</u>			
General atomic energy development	-	-	-
Nuclear physics and chemistry	-	-	-
Nuclear raw materials	-	-	-
Nuclear engineering and technology	-	-	-
Nuclear techniques in agriculture	-	-	-
Nuclear medicine	-	-	-
Nuclear techniques in biology	-	-	-
Nuclear techniques in industry & hydrology	-	-	-
Nuclear safety	1	33 636	33 877
TOTAL	1	33 636	33 877

**EXPERT SERVICES, EQUIPMENT AND PROJECT-FUNDED TRAINING PROVIDED TO ICELAND, BY SECTOR
PROJECTS COMPLETED AND OPERATIONAL 1984 - 1994
(As of 30 September 1994 1994)**

FIELD	TOTAL PROJECT ALLOTMENTS				TOTAL PROJECT DISBURSEMENTS			
	EXPERT SERVICES		EQUIPMENT	TRAINING	EXPERT SERVICES		EQUIPMENT	TRAINING
	M/M	\$	\$	\$	M/M	\$	\$	\$
General atomic energy development	-	-	-	-	-	-	-	-
Nuclear physics and chemistry	-	-	-	-	-	-	-	-
Nuclear raw materials	-	-	-	-	-	-	-	-
Nuclear engineering and technology	-	-	-	-	-	-	-	-
Nuclear techniques in agriculture	1/00	5 400	56 500	-	0/27	4 581	55 283	-
Nuclear medicine	-	-	-	-	-	-	-	-
Nuclear techniques in biology	-	-	-	-	-	-	-	-
Nuclear techniques in industry & hydrology	-	-	319 808	-	-	-	319 808	-
Nuclear safety	0/27	6 480	157 490	-	0/27	9 693	157 731	-
TOTAL	1/27	11 880	533 798	-	1/24	14 274	532 822	-

AGENCY FELLOWS FROM ICELAND

1984 - 1994¹
(As of 30 September 1994)

Sector	No. of fellowships	No. of months/days	Host countries
General atomic energy development	-	-	-
Nuclear physics	-	-	-
Nuclear chemistry	-	-	-
Nuclear raw materials	-	-	-
Nuclear engineering and technology	-	-	-
Nuclear techniques in agriculture	2	7/00	SWE
Nuclear medicine	-	-	-
Nuclear techniques in biology	-	-	-
Nuclear techniques in industry and hydrology	-	-	-
Nuclear safety	2	2/01	DEN, UK
TOTAL	4	9/01	

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

ICELAND

LONG-TERM FELLOWSHIPS

1984 - 1994

(As of 30 September 1994)

NONE

**ICELANDIC NATIONALS WHO WERE AWARDED MORE THAN
ONE FELLOWSHIP OR SCIENTIFIC VISIT**

**1984 - 1994
(As of 30 September 1994)**

NONE

AGENCY TRAINING COURSES WITH ICELANDIC PARTICIPATION

1984 - 1994
(As of 30 September 1994)

Field	Number of participants	Number of courses
General atomic energy development	-	-
Nuclear physics	-	-
Nuclear chemistry	-	-
Nuclear raw materials	-	-
Nuclear engineering and technology	-	-
Nuclear techniques in agriculture	-	-
Nuclear medicine	-	-
Nuclear techniques in biology	-	-
Nuclear techniques in industry & hydrology	-	-
Nuclear safety	1	1
TOTAL	1	1

MULTIPLE PARTICIPATION IN AGENCY TRAINING COURSES

BY ICELANDIC NATIONALS

**1984 - 1994
(As of 30 September 1994)**

NONE

PROJECTS COMPLETED IN ICELAND SINCE 1984
(As of 30 September 1994)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS				COMPLETED
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING	
			M/M	\$	\$	\$	M/M	\$	\$	\$	
1982	ICE/5/004	Radioisotopes in animal science	1/00	5 400	56 500	-	0/27	4 581	55 283	-	1986
1984	ICE/8/004	Isotopes in geothermal studies	-	-	319 808	-	-	-	319 808	-	1988
1987	ICE/9/002	Radiation protection	0/27	6 480	123 854	-	0/27	9 693	123 854	-	1993
	TOTAL	3 Projects	1/27	11 880	500 162	-	1/24	14 274	498 945	-	

OPERATIONAL PROJECTS IN ICELAND
(As of 30 September 1994)

STARTED	PROJECT NO.	TITLE	ALLOTMENTS				DISBURSEMENTS			
			EXPERTS		EQUIPMENT	TRAINING	EXPERTS		EQUIPMENT	TRAINING
			M/M	\$	\$	\$	M/M	\$	\$	\$
1993	ICE/9/003	Establishment of early warning system ^{1/}	-	-	33 636	-	-	-	33 877	-
	TOTAL	1 Project	-	-	33 636	-	-	-	33 877	-

^{1/} Totals for equipment include \$32 706 Funds-In-Trust.

COUNTERPART INSTITUTIONS IN ICELAND (I)
(By Project)

<u>Project No.</u>	<u>Institute</u>	<u>Counterpart(s)</u>
<u>AGRICULTURE</u>		
ICE/5/004	University of Iceland, Institute for Experimental Pathology, Keldur	PETURSSON
<u>NUCLEAR APPLICATIONS IN INDUSTRY AND HYDROLOGY</u>		
ICE/8/004	University of Iceland, Science Institute, Reykjavik	JOHNSEN ARNASON
<u>NUCLEAR SAFETY</u>		
ICE/9/002	National Institute of Radiation Protection, Reykjavik	MAGNUSSON
ICE/9/003	National Institute of Radiation Protection, Reykjavik	MAGNUSSON

COUNTERPART INSTITUTIONS IN ICELAND (II)
(By Institute)

REYKJAVIK

**University of Iceland
Science Institute
Reykjavik**

ICE/8/004 Isotopes in Geothermal Studies

**National Institute of Radiation Protection
Reykjavik**

ICE/9/002 Radiation Protection
ICE/9/003 Establishment of Early Warning System

KELDUR

**University of Iceland
Institute for Experimental Pathology
Keldur**

ICE/5/004 Radioisotopes in Animal Science

**THE AGENCY'S TECHNICAL CO-OPERATION PROGRAMME WITH
ICELAND
(1984 - 1994)**

LONG-TERM EXPERT ASSIGNMENTS

NONE

RESEARCH CONTRACTS/AGREEMENTS IN ICELAND SINCE 1984 ^{1/}
(As of 30 September 1994)

Field of activity	No. of contracts/ agreements	Amount allocated \$
Nuclear techniques in agriculture	1	^{2/}
Nuclear techniques in industry & hydrology	1	^{2/}
TOTAL	2	^{2/}

^{1/} New awards since 1984

^{2/} Cost-free

**SCIENTISTS FROM ICELAND SERVING AS AGENCY
TECHNICAL CO-OPERATION EXPERTS AND
TRAINING COURSE LECTURERS
OR
PARTICIPATING IN CO-ORDINATION MEETINGS
1984 - 1994
(As of 30 September 1994)**

Name	No. of assignments	Project(s)
ARNORSSON	2	COS/8/002, GUA/8/009
GUNNLAUGSSON	2	COS/8/004, GUA/8/009
HARDARSON	4	INT/0/038, INT/5/102, PER/5/014
TOTAL	8	

**AGENCY FELLOWSHIPS AND SCIENTIFIC VISITS
HOSTED BY ICELAND
1984 - 1994
(As of 30 September 1994)**

Recipient country	No. of fellowships	No. of scientific visits	TOTAL ¹
CHINA, PEOPLE'S REPUBLIC	-	2	2
INDONESIA	-	2	2
TOTAL	-	4	4

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

REGIONAL AND INTERREGIONAL GROUP TRAINING EVENTS

HOSTED BY ICELAND

**1984 - 1994
(As of 30 September 1994)**

NONE