

# COMMISSION OF THE EUROPEAN COMMUNITIES

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Brussels, 15th February 1980

ANNUAL REPORT OF MEMBER STATES  
IN ACCORDANCE WITH ARTICLE 70 OF THE EAEC TREATY

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(Communication from the Commission to the Council)

COM(80) 56 final

VOLUME I

The Opinion of the Commission

and

The Summaries of the Annual Reports

of the Member States

FOREWORD TO

THE MEMBER STATES' REPORTS SENT TO THE COUNCIL BY THE COMMISSION  
IN ACCORDANCE WITH ARTICLE 70 OF THE EAEC TREATY

OPINION

1. In accordance with the provision of Article 70 of the Treaty establishing the EAEC , the Member States have forwarded to the Commission the annual reports on prospecting, production and investment in mining which has been made or had been planned in their territories in respect of uranium.
2. The Commission in this document summarises the information from these reports and gives its opinion.

The outline of the summary has been prepared by the geologists' group of the Working Party on natural uranium of the Euratom Supply Agency's Consultative Committee. This was done to facilitate a quicker and more uniform response from the Member States so that reports could be prepared on a more timely basis in future with less problems of translation. The geologists' group have kept the Commission up-to-date on the progress of uranium exploration in each of the Member States.

3. This document deals with the annual reports for the years 1973, 1974 and 1975, which are summarised in Annex I. This period is of interest because it was during this time, particularly on the basis of information submitted from the Member States under Article 70, that the Commission decided to recommend financial support for uranium exploration in the Community. This funding commenced in 1976 with an initial level of support of 1 m.u.a. for one year. In 1977, 5 m.u.a. were committed to cover a period from 1977-79. In 1978, 5 m.u.a. were also made available by the budgetary authorities to financially support uranium exploration ventures between 1978-80.

4. From the reports it can be seen that expenses for prospecting for uranium deposits in Member States' territories during this period was as follows :-

See Table I.

5. During the period 1973-75, the uranium exploration and exploitation activity can be summarised as follows .

REMARKS

6. There was no uranium exploration activity reported in Belgium, mainland Denmark, Ireland, Luxembourg and the Netherlands. However, it would be worthwhile carrying out an evaluation of those areas that have some potential for uranium mineralisation, especially in the case of Ireland and Belgium.
7. In Italy, although considerable work has been carried out, particularly at Novazza, in the province of Bergamo, there is still significant uranium potential to be evaluated beyond the work that has been carried out in the Provinces of Viterbo and Sardinia.
8. In the United Kingdom uranium exploration dropped significantly following the UKAEA-sponsored uranium reconnaissance programme that ended in March 1973. The Institute of Geological Sciences itself continued a number of investigations but several of the uranium anomalies identified remain untested. The reconnaissance survey itself did not cover the whole of the area with uranium potential. Thus there remain a number of uranium targets to be tested.
9. In Greenland the main exploration effort was centred in S.W. Greenland on Illimaussaq Intrusion. Although work was initiated in Eastern Greenland there remain large areas of significant uranium potential untested, especially in Western Greenland.

10. In Germany, in fact, a number of programmes have been initiated and continued during this period. The programmes have met with some limited success and should be encouraged.
11. In France considerable uranium exploration work has been carried out, both by the Government and by private organisations. This exploration effort, in the country that is the only significant uranium producer in the Community at present, continued to be productive. The spread of prospecting activities, especially towards the end of this period, was carried out mainly in the vicinity of known deposits.
12. Following examination of the reports forwarded by the Member States, the Commission :-
  - a) considers that an extensive evaluation of the uranium potential of the Community, besides increasing the uranium reserves within the Community, would form a sound basis on which a long-term uranium supply policy could be based and that there is uranium potential outside the targets now being examined within the Community and evaluation of this potential should be carried out;
  - b) notes with satisfaction that during the period under consideration the overall prospecting effort has increased considerably, but it nevertheless feels that this effort should be pursued, especially in countries where no prospecting has yet taken place.

TABLE I

ARTICLE 70 - EURATOM TREATY

ANNUAL EXPENDITURE ON PROSPECTING FOR URANIUM - 1973 - 1975

	1972 (for information)	1973	1974	1975
Belgium	-	-	-	-
Denmark	13,500 u.a. (100,000 Dkr)	13,200 u.a. (100,000 Dkr)	132,000 u.a. (1,000,000 Dkr)	119,000 u.a. (900,000 Dkr)
Federal Republic of Germany	1,079,200 u.a. (3,950,000 DM)	1,224,300 u.a. (3,942,000 DM)	1,579,500 u.a. (5,085,810 DM)	2,000,000 u.a.
France	2,723,400 u.a. (15,126,000 FF)	2,964,000 u.a. (16,463,000 FF)	4,562,000 u.a. (26,915,000 FF)	10,000,000 u.a.
Ireland	-	-	-	-
Italy	560,000 u.a. (350 m. lira)	353,400 u.a. (223 m. lira)	271,000 u.a.	262,000 u.a.
Luxembourg	-	-	-	-
Netherlands	-	-	-	-
United Kingdom	120,000 u.a. (£50,000)	98,000 u.a. (£50,000)	77,000 u.a. (£41,000)	84,000 u.a. (£50,000)
	4,500,000 u.a.	4,700,000 u.a.	6,600,000 u.a.	12,500,000 u.a.

Summary of  
Annual Report of Member States  
in accordance with Article 70  
of the EAEC Treaty

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Country: BELGIUM

Year 1973

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
- 2.a Number of applications for prospecting licences
- 2.b Number of prospecting licences granted
- 2.c Number of prospecting licences expiring
- 3.a Number of applications for mining licences
- 3.b Number of mining licences granted
- 3.c Number of mining licences expiring
4. Areas submitted to regional reconnaissance
5. Areas submitted to detailed reconnaissance
- 6.a Total exploration drilling (meters)
- 6.b Total development drilling (meters)
- 6.c Total (6a + 6b) drilling
7. Exploration types:
  - Airborne (km<sup>2</sup>)
  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(1) Including underground exploration (meters)

(\*) Indicates work of this type was carried out.

Current year	Previous year	Remarks
No activity reported		



B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 \$ / kg U		between 80 and 130 \$ / kg U	
—	—	—	—

Reasonably assured resources  
 Estimated additional resources

C. Additional comments

1. Main events influencing current progress

2. Environmental considerations

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3. Any other relevant comment

D. Map

1. A map is attached to this summary report

XSS/no

Country: DENMARK

Year 1973

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
- 2.a Number of applications for prospecting licences
- 2.b Number of prospecting licences granted
- 2.c Number of prospecting licences expiring
- 3.a Number of applications for mining licences
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  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(1) Including underground exploration (meters)

(\*) Indicates work of this type was carried out.

Current year	Previous year	Remarks
No activity reported		

.../...

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B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 \$ / kg U		between 80 and 130 \$ /kg U	

Reasonably assured resources  
 Estimated additional resources

C. Additional comments

1. Main events influencing current progress

2. Environmental considerations

3. Any other relevant comment

D. Map

1. A map is attached to this summary report

~~Yes~~/no

A. Statistical data

1. Number of enterprises active in U prospecting
- 2.a Number of applications for prospecting licences
- 2.b Number of prospecting licences granted
- 2.c Number of prospecting licences expiring
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  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

	Current year	Previous year	Remarks
1.	3		
2.a	9		
2.b			
2.c			
3.a			
3.b			
3.c			
4.			
5.			
6.a			
6.b			
6.c			
7.			
	* *		
	* *		
8.a			
8.b			
8.c	+ 3,942,000 DM	2,923,434 DM	
9.			Under active exploration

(1) Including underground exploration (meters)  
 (\*) Indicates work of this type was carried out.

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 t / kg U		between 80 and 130 t / kg U	
300		1500	

Reasonably assured resources

Estimated additional resources

C. Additional comments

**1. Main events influencing current progress**

The firms engaged in prospecting in 1973 were : Saarbergwerke AG, Gesellschaft Brunhilde and Uranerzbergbau GmbH & Co. KG. The geological office of the Land Baden-Württemberg as Leader of the Project "Uranium prospecting in the Black Forest", supervised, by agreement with the mining office of the Land Baden-Württemberg, the work in this area. The Bavarian Land Office performed no prospecting work of its own in 1973. The status presented in the 1972 Annual report is valid here, except for the prospecting work carried out by the abovementioned firms in the region of Bavaria. The Bundesanstalt für Bodenforschung carried out hydro-geochemical prospecting in the Black Forest.

**2. Environmental considerations**

### 3. Any other relevant comment

The prospects of finding economically workable deposits have increased somewhat in comparison with the previous year. Prospecting in the Black Forest will be continued in view of the promising results so far. Unusually high radon contents, particularly in the water of the Belchen region, legitimate the conclusion that uranium concentrations exist, possibly in the nature of deposits. Two further uranium ore lodes were discovered in the "Krunkelbach" mine. In the region of the upper carboniferous in the Baden-Baden-Gernsbach exploration field, shafts were sunk in a radiation anomaly. Geochemical analyses of the drill cuttings revealed uranium contents of up to 0.2%. In 1974, it is intended to drive an explanatory gallery there.

Mining operations were carried out only in the Belchen region, in the "Krunkelbach" mine. Here 148 m of gallery were driven. In addition 38 m of dummy shaft were sunk.

The exploratory trenches were part of the prospecting operations. The resulting costs are not indicated separately. The results achieved by the end of 1973 do not provide any basis for precise economic calculations. It is, however, certain that, at a price of below 8 u.a./lb  $U_3O_8$ , there are no known workable reserve deposits at the present time.

### D. Map

table

1. A map is attached to this summary report

Yes/No



Country: FRANCE

Year 1973

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data:

1. Number of enterprises active in U prospecting
- 2.a Number of applications for prospecting licences
- 2.b Number of prospecting licences granted
- 2.c Number of prospecting licences expiring
- 3.a Number of applications for mining licences
- 3.b Number of mining licences granted
- 3.c Number of mining licences expiring
4. Areas submitted to regional reconnaissance
5. Areas submitted to detailed reconnaissance
- 6.a Total exploration drilling (meters)
- 6.b Total development drilling (meters)
- 6.c Total (6a + 6b) drilling
7. Exploration types:
  - Airborne (km<sup>2</sup>)
  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

Current year	Previous year	Remarks
3 +		
16,463,000 FF	15,126,000 FF	
1,578.		

(1) Including underground exploration (meters)  
(\* ) Indicates work of this type was carried out.

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 g / kg U		between 80 and 130 g / kg U	
38,000		23,000	

Reasonably assured resources

Estimated additional resources

C. Additional comments

1. Main events influencing current progress

As in preceding years, the CEA carried out a considerable amount of prospecting on French territory, both in the granitic regions near the veinstone strata of its three mining divisions (La Crouzille, Perez, Vendée) and in the Permian or Eocene sedimentary formations, where prospecting expeditions are currently at work.

Private firms also continued and intensified their work, particularly in the departments of La Creuse, Zvevron and Haute-Vienne and in Brittany.

In 1973, the French production of uranium contained in the ores and leaching waters amounted to 1,563 tonnes, that is, 1,527 tonnes by the mining divisions of the CEA and 51 tonnes by the private firms.

2. Environmental considerations

3. Any other relevant comment

The uranium resources potential in France itself increased during 1973 despite a rise in production.

D. Map

1. A map is attached to this summary report

Yes/no - see annex.

Country: IRELAND

Year 1973

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
2. Number of applications for prospecting licences
  - 2.a Number of applications for prospecting licences
  - 2.b Number of prospecting licences granted
  - 2.c Number of prospecting licences expiring
3. Number of applications for mining licences
  - 3.a Number of mining licences granted
  - 3.b Number of mining licences expiring
  - 3.c Number of mining licences expiring
4. Areas submitted to regional reconnaissance
5. Areas submitted to detailed reconnaissance
6. Total exploration drilling (meters)
  - 6.a Total exploration drilling (meters)
  - 6.b Total development drilling (meters)
  - 6.c Total (6a + 6b) drilling
7. Exploration types:
  - Airborne (km<sup>2</sup>)
  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
8. Drilling cost
  - 8.a Drilling cost
  - 8.b Underground exploration cost
  - 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(1) including underground exploration (meters)

(\*) Indicates work of this type was carried out.

Current year	Previous year	Remarks
No activity reported		

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 g / kg U		between 80 and 130 g / kg U	
—	—	—	—

Reasonably assured resources

Estimated additional resources

C. Additional comments

1. Main events influencing current progress

2. Environmental considerations

..f..

3. Any other relevant comment

D. Map

1. A map is attached to this summary report

~~yes~~/no

Country: ITALY

Year

1973

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
2. Number of applications for prospecting licences
- 2.a Number of prospecting licences granted
- 2.b Number of prospecting licences expiring
- 2.c Number of prospecting licences expiring
- 3.a Number of applications for mining licences
- 3.b Number of mining licences granted
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  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(1) Including underground exploration (meters)  
(\* ) Indicates work of this type was carried out.

Current year	Previous year	Remarks
2		
223,000,000 Lit.	500,000,000 Lit.	

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 \$ / kg U		between 80 and 130 \$ / kg U	
1,200			
2,500			

Reasonably assured resources

Estimated additional resources

C. Additional comments

**1. Main events influencing current progress**

Prospecting work was carried out in 1973 at Novazza, in Valgoglio (Bergamo), by ENI acting through AGIP Nucleare, and in the province of Viterbo in northern Latium, by CNEN.

AGIP's prospecting work in 1973 was confined to the 'Cima di Dani' concession in the province of Bergamo, where the uranium-bearing deposit situated above the hamlet of Novazza in the municipality of Valgoglio was investigated. This deposit is associated with a vitric prophyritic tuff layer in the Collio series, which is datable to the Upper Middle Carboniferous.

In northern Latium, particularly in the sedimentary zone to the east and south-east of Lake Bolsena as far as and including an area to the south of the city of Tuscania, uranium mineralisations occur embedded in lacustrine and tuff formations.

No external prospecting was carried out in the Novazza deposit zone in 1973. 250 metres of exploratory tunnels was carried out. This marked the virtual completion of the exploratory stage.

**2. Environmental considerations**



3. Any other relevant comment

No estimates of investment required for extracting the ore have been made; a feasibility study on the deposit is in progress and will be completed during 1974. Preliminary estimates put the amount of uranium in the 'feasible' category at 6,000-10,000 metric tons.

D. Map

1. A map is attached to this summary report

Yes/xx -- see annex.

Country: LUXEMBOURG

Year 1973

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
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- 2.b Number of prospecting licences granted
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  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(1) Including underground exploration (meters)

(\*) Indicates work of this type was carried out.

Current year	Previous year	Remarks
No activity reported		

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 g / kg U		between 80 and 130 g / kg U	
—	—	—	—

Reasonably assured resources

Estimated additional resources

C. Additional comments

1. Main events influencing current progress

2. Environmental considerations

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3. Any other relevant comment

D. Map

1. A map is attached to this summary report

ref/no

A. Statistical data

1. Number of enterprises active in U prospecting
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  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(1) Including underground exploration (meters)  
 (\*) Indicates work of this type was carried out.

Current year	Previous year	Remarks
No activity reported		

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 \$ / kg U		between 80 and 130 \$ / kg U	
—	—	—	—

Reasonably assured resources  
 Estimated additional resources

C. Additional comments

1. Main events influencing current progress

2. Environmental considerations

3. Any other relevant comment

D. Map

1. A map is attached to this summary report

YES/no

Country: UNITED KINGDOM

Year 1973

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
- 2.a Number of applications for prospecting licences
- 2.b Number of prospecting licences granted
- 2.c Number of prospecting licences expiring
- 3.a Number of applications for mining licences
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  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

Current year	Previous year	Remarks
5,250 km <sup>2</sup>		2 areas under active exploration
*		
*		
£41,000		

(1) Including underground exploration (meters)  
(\* ) Indicates work of this type was carried out.



2.-

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 \$ / kg U		between 80 and 130 \$ / kg U	

Reasonably assured resources

Estimated additional resources

C. Additional comments

1. Main events influencing current progress

In the year 1973, prospecting activity by the Institute of Geological Sciences concerning uranium specifically was at a much lower level of expenditure and was restricted to two regions of interest (a) Northern Scotland and (b) South-west England.

The I.G.S., Geochemical Division, continued a regional geochemical reconnaissance of Northern Scotland. This survey was based primarily upon the collection of stream sediment samples, stream water samples and heavy mineral concentrates producing analyses for approximately forty elements per sample site. Uranium, in particular, was measured systematically in both the stream sediment and the stream water while ground traverses in the field were carried out using portable scintillation counters.

2. Environmental considerations

3. Any other relevant comment

As stated in the report for 1972, much of the uranium found elsewhere in Northern Scotland is concentrated in thin phosphatic horizons, but local enrichments tested to shallow depth in arenaceous sediments and discordant structures probably represent resources of a few thousand tons of U<sub>3</sub>O<sub>8</sub>.

D. Map

- 1. A map is attached to this summary report

Yes/no

A. Statistical data

1. Number of enterprises active in U prospecting
- 2.a Number of applications for prospecting licences
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  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (#)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(\*) Including underground exploration (meters)

Current year	Previous year	Remarks
No activity reported		

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 \$ / kg U		between 80 and 130 \$ / kg U	
—	—	—	—

Reasonably assured resources  
 Estimated additional resources

C. Additional comments

1. Main events influencing current progress

2. Environmental considerations

3. Any other relevant comment

D. Map

1. A map is attached to this summary report

Yes/no

Country: DENMARK

Year 1974

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
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  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(1) Including underground exploration (meters)

(\*) Indicates work of this type was carried out.

Current year	Previous year	Remarks
2	-	Under active exploration
*		
*		
*		

B. Situation of uranium resources (Metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 g / kg U		between 80 and 130 g / kg U	
5,600	—	9,400	—

Reasonably assured resources

Estimated additional resources

C. Additional comments

1. Main events influencing current progress

Illimaussaq Intrusion : no uranium prospecting since 1969.

East central Greenland : a. Systematic airborne gamma spectrometry. Helicopterborne scintillometry, field spectrometry and geochemical prospecting.

b. Uranium mineralisation was detected in acid volcanites of the Devonian period in both Giesecke Bjerge and Hudson Land. More intensive surveys are planned for 1975.

2. Environmental considerations

3. Any other relevant comment

Illimaussaq Intrusion

- a. The pilot ore sulphating plant is still planned.
- b. Proven reserves : 5,600 tons of uranium. Purity approx. 300 ppm uranium. The thorium/uranium ratio is about 2.6:1.
- c. Probable reserves : 15,000 tons of uranium (including proven reserves). Purity approx. 300 ppm U. Thorium/uranium ratio approx 2.6:1.

D. Map

- 1. A map is attached to this summary report

Yes/no



## A. Statistical data

1. Number of enterprises active in U prospecting
- 2.a Number of applications for prospecting licences
- 2.b Number of prospecting licences granted
- 2.c Number of prospecting licences expiring
- 3.a Number of applications for mining licences
- 3.b Number of mining licences granted
- 3.c Number of mining licences expiring
4. Areas submitted to regional reconnaissance
5. Areas submitted to detailed reconnaissance
- 6.a Total exploration drilling (meters)
- 6.b Total development drilling (meters)
- 6.c Total (6a + 6b) drilling
7. Exploration types:
  - Airborne (km<sup>2</sup>)
  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

Current year	Previous year	Remarks
3	3	
7	9	under active exploration
3,056 km <sup>2</sup>		
*		
*		
5,085,810 DM	3,942,000 DM	
2,592.26		

(1) Including underground exploration (meters)  
 (\*) Indicates work of this type was carried out.

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 t / kg U		between 80 and 130 t / kg U	
	300		1500

Reasonably assured resources  
Estimated additional resources

C. Additional comments

**1. Main events influencing current progress**

The prospects of discovering economically useable deposits have improved to some extent in comparison with the previous year. The prospecting work in the Black Forest will be continued because of the promising results hitherto. In the Krunkelbach mine, partial determination of the deposit content will be carried out by means of borehole prospecting along the strike of the veins to enable a more accurate feasibility study to be prepared.

In the Upper Carboniferous region in the Baden-Baden Gernsbach prospecting area, the exploratory drift was driven further up, and a number of ore zones with contents of about 0.3% U<sub>3</sub>O<sub>8</sub> were encountered. It is not yet possible to calculate the available reserves on the basis of the opening-up work carried out so far.

**2. Environmental considerations**

3. Any other relevant comment

Mining operations were carried out in the "Krunkelbach" mine and in the Baden-Baden Gernsbach prospecting area. In the "Krunkelbach" mine, 335.3 m of drifts were driven, 30 m of staple shaft were sunk and 56.5 m of rises were driven up.

In the Baden-Baden Gernsbach prospecting area, 190.3 m of exploratory drifts were driven.

Surface digs are included under exploration. The relevant expenditure is not indicated separately.

As a result of the altered situation caused by the increase in the uranium price, the Krunkelbach/Black Forest mine and the Tirschenreuth uranium deposits were subjected to another profitability survey. This, however, only revealed that further intensive exploration is necessary to enable more accurate data to be obtained in respect of the deposits.

Direct extraction was not carried out. Only the large amounts of ore extracted during the sinking of the drifts and shafts in the "Krunkelbach" mine were brought to the Ellweiler dressing plant, where they were experimentally dressed. This ore amounted to 2,592.26 tonnes of raw ore.

D. Map

1. A map is attached to this summary report

xRes/no

Country: FRANCE

Year 1974

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
- 2.a Number of applications for prospecting licences
- 2.b Number of prospecting licences granted
- 2.c Number of prospecting licences expiring
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- 3.b Number of mining licences granted
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- 6.c Total (6a + 6b) drilling
7. Exploration types:
  - Airborne (km<sup>2</sup>)
  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

Current year	Previous year	Remarks
3 + + 30	3 +	
199,866 metres		
* *		
17,943,964 FF		
26,915,000 FF	16,463,000 FF	
1,669	1,578	

(1) Including underground exploration (meters)

(\*) Indicates work of this type was carried out.

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 \$ / kg U		between 80 and 130 \$ /kg U	
37,000	38,000	25,500	23,000

Reasonably assured resources

Estimated additional resources

C. Additional comments

**1. Main events influencing current progress**

During the year the CEA carried out extensive prospecting for uranium on the national territory, both in granite country (in the neighbourhood of the vein deposits in the Mining Divisions of La Crouzille, Vendée and Forez) and over the primary, secondary and tertiary sedimentary formations where prospecting missions already operating had their staff and funds increased, and where new missions were also established.

Private companies also continued and stepped up their work in the prospecting areas, where they had already carried out activities (in the departments of Creuse, Aveyron and Haute Vienne) and submitted about thirty applications for a licence during the year.

**2. Environmental considerations**

...

3. Any other relevant comment

In 1974, the French production of uranium contained in ores and waters containing leached salts was 1,669 metric tons, i.e., 1,525 metric tons by the CEA Mining Divisions and 144 metric tons by private companies.

A prospecting group was set up during the year for the purpose of drawing up as comprehensive an inventory as possible of all the formations likely to contain uranium even with very low contents, appreciably lower, perhaps than those of ores nowadays considered to be workable.

Potential Metropolitan reserves of uranium increased (by 1,571 t) in 1974.

The funds committed by the CEA to general prospecting in Metropolitan territory in 1974 amounted to FF 14,955,720.

Taking into account the funds committed to prospecting around deposits now being worked as well as general prospecting activities, the total amount is FF 26,915,000.

This figure may be broken down as follows :

Region of the Division of Forez	5,312,000
Region of the Division of La Crouzille	3,662,000
Region of the Division of Vendée	2,986,000
Prospecting Mission	14,955,720
	<hr/>
Total	26,915,000

D. Map

1. A map is attached to this summary report

Yes/MS -- see annex

A. Statistical data

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  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(1) Including underground exploration (meters)

(\*) Indicates work of this type was carried out.

Current year	Previous year	Remarks
No activity reported		

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 g / kg U		between 80 and 130 g / kg U	
—	—	—	—

Reasonably assured resources  
 Estimated additional resources

C. Additional comments

1. Main events influencing current progress

2. Environmental considerations

..f..



3. Any other relevant comment

D. Map

1. A map is attached to this summary report

yes/no

Country: ITALY

Year 1974

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
- 2.a Number of applications for prospecting licences
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  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

Current year	Previous year	Remarks
2	2	
5		Under active exploration
* *		
130,000,000 Lit.	223,000,000 Lit.	

(1) Including underground exploration (meters)  
(\* Indicates work of this type was carried out.

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 \$ / kg U		between 80 and 130 \$ / kg U	
1,500	1,200		
	2,500		

Reasonably assured resources

Estimated additional resources

C. Additional comments

**1. Main events influencing current progress**

No facilities have yet been installed for processing uranium ores. The areas in which the prospecting work has been situated are those covered by the "Gromo" and "Gandellino" concessions facing the Novazza deposit in the Val Seriana in Lombardy, and by the already mentioned "La Carbonara", "Macchia Grande" and "Pontane" concessions at Latium in the Viterbo region.

Prospecting work in the Val Seriana has been carried out by ENI through AGIP Mineraria (Mining Division of AGIP), whilst CNEN has worked in the Viterbo region.

The prospecting work in the Val Seriana and the detailed geological surveys are giving clearer meaning to the surface radiometric anomalies observed in the sandstones of the Collic formation.

In the Viterbo region, the prospecting area consists of quaternary potassium alkali volcanic rock and, more especially, continental sedimentary-volcanic basins.

**2. Environmental considerations**

3.-

3. Any other relevant comment

There are in store, for the purpose of processing trials, 160 metric tons of ore at 0.2% of U<sub>3</sub>O<sub>8</sub>. No investments have been planned for mining extraction processes. For the Novazza deposit, a feasibility study was completed with ore processing trials.

D. Map

1. A map is attached to this summary report

Yes/no -- see annex

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Country: LUXEMBOURG

Year 1974

EURATOM TREATY ART. 70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
2. Number of applications for prospecting licences
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- 6.c Total (6a + 6b) drilling
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  - Airborne (km<sup>2</sup>)
  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(1) Including underground exploration (meters)

(\*) Indicates work of this type was carried out.

Current year	Previous year	Remarks
No activity reported		

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 g / kg U		between 80 and 130 g / kg U	

Reasonably assured resources  
Estimated additional resources

C. Additional comments

1. Main events influencing current progress

2. Environmental considerations

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3. Any other relevant comment

D. Map

1. A map is attached to this summary report

Yes/no

A. Statistical data

1. Number of enterprises active in U prospecting
- 2.a Number of applications for prospecting licences
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  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(1) Including underground exploration (meters)

(\*) Indicates work of this type was carried out.

Current year	Previous year	Remarks
* No activity reported		



B. Situation of uranium resources

in tonnes U

Current year	Previous year	Current year	Previous year
80 t / kg U	80 t / kg U	80-130 t / kg U	80 t / kg U
—	—	—	—

Reasonably assured resources

Estimated additional resources

C. Additional comments

1. Main events influencing current progress

2. Environmental considerations

3. Any other relevant comment

D. Map

1. A map is attached to this summary report

Yes/no

Country: UNITED KINGDOM

Year 1974

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
2. Number of applications for prospecting licences
- 2.a Number of prospecting licences granted
- 2.b Number of prospecting licences expiring
- 2.c Number of prospecting licences for mining licences
- 3.a Number of applications for mining licences
- 3.b Number of mining licences granted
- 3.c Number of mining licences expiring
4. Areas submitted to regional reconnaissance
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  - Airborne (km<sup>2</sup>)
  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

Current year	Previous year	Remarks
5,250 km <sup>2</sup>	5,250 km <sup>2</sup>	Two areas under active interest
* *		
£41,000	£41,000	

(1) Including underground exploration (meters)  
(\* Indicates work of this type was carried out.

B. Situation of uranium resources

in tonnes U

Current year	Previous year	Current year	Previous year
< 80 g / kg U		80-130 g / kg U	
-	-	-	-

Reasonably assured resources  
Estimated additional resources

C. Additional comments

1. Main events influencing current progress

The IGS, Geochemical Division continued a regional geochemical reconnaissance of Northern Scotland. This survey was based primarily on the collection of stream sediment samples, stream water samples and heavy mineral concentrates producing analyses of approximately forty elements per sample site. Uranium, in particular, was measured systematically in both the stream sediment and stream water while ground traverses in the field were carried out using portable scintillation counters.

Northern Scotland. The geochemical reconnaissance of these areas was based upon the collection of a -150 µm sized stream sediment sample, a stream water sample and a heavy mineral concentrate at a minimum density of 1 sample per 2 km<sup>2</sup>. Uranium was determined using the delayed neutron activation method.

South-west England. Two boreholes were drilled as a result of previous investigations at Tremayne Farm, near St. Columb Major, Cornwall.

2. Environmental considerations

3. Any other relevant comment

Further exploration for uranium and other metals by the IGS has been kept under review as new information has been obtained. Some mining companies showed an interest in the published results of the IGS investigations but this has proved to be ephemeral in the case of uranium.

D. Map

1. A map is attached to this summary report

Yes/No

Country: BELGIUM

Year 1975

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
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- 2.c Number of prospecting licences expiring
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- 3.b Number of mining licences granted
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- 6.c Total (6a + 6b) drilling
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  - Airborne (km<sup>2</sup>)
  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (€)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(\*) Including underground exploration (meters)

Current year	Previous year	Remarks
No activity		

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 78 g / kg U		between 78 and 130 g / kg U	
—	—	—	—

Reasonably assured resources  
 Estimated additional resources

C. Additional comments

1. Main events influencing current progress

2. Environmental considerations

3. Any other relevant comment

No uranium exploration reported

D. Map

1. A map is attached to this summary report

Yes/no

Country: DENMARK

Year: 1975

EURATOM TREATY ART. 70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
- 2.a Number of applications for prospecting licences
- 2.b Number of prospecting licences granted
- 2.c Number of prospecting licences expiring
- 3.a Number of applications for mining licences
- 3.b Number of mining licences granted
- 3.c Number of mining licences expiring
4. Areas submitted to regional reconnaissance
5. Areas submitted to detailed reconnaissance
- 6.a Total exploration drilling (meters)
- 6.b Total development drilling (meters)
- 6.c Total (6a + 6b) drilling
7. Exploration types:
  - Airborne (km<sup>2</sup>)
  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(1) Including underground exploration (meters)

(\*) Indicates work of this type was carried out.

Current year	Previous year	Remarks
1		
1	2	under active exploration
1		
1		
900,000		
-		

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 g / kg U		between 80 and 130 g / kg U	
5,600	5,600	9,400	9,400

Reasonably assured resources  
 Estimated additional resources

C. Additional comments

**1. Main events influencing current progress**

Area A.: Uranium deposit on the Kvanefjeld in the Illimaussaq intrusion. No uranium prospecting since 1969.

Area B.: Prospecting area in east central Greenland. a) Detailed helicopterborne scintillometry, regional geochemical prospecting, field gamma spectrometry and detailed geological surveys.

Devonian period. Carburan is the most important uranium-bearing mineral.

b) Uranium mineralisation was proven in acid vulcanite of the Devonian period.

Area C.: Prospecting area in west central Greenland.

- a) Airborne gamma spectrometry, about 10,000 line kilometres.
- b) No field work has yet been carried out.
- c) Expenditure on expeditions : about DKR 300,000.

**2. Environmental considerations**



3. Any other relevant comment

a) A proposal on a continued drilling programme for 1976 has been put forward. About 5,000 m are to be drilled in order to verify additional reserves to the north of the area known hitherto.

Work on a pilot plant for processing 100 kg of ore per hour was begun in 1975. Results are expected during the first half of 1976.

b) Proven reserves : 5,600 tons of uranium. Purity approx. 300 ppm U. The thorium/uranium ratio is about 2.6:1.

c) Probable reserves : 15,000 tons of uranium (including proven reserves). Purity approx. 300 ppm U. Thorium/uranium ratio approx. 2.6:1.

D. Map

1. A map is attached to this summary report

Yes/~~no~~

## A. Statistical data

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  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

Current year	Previous year	Remarks
5	3	
11	7	under active exploration
11,638 km <sup>2</sup>	3,056 km <sup>2</sup>	
*		
*		
*		
*		
*		
*		
	5,085,810 DM	
	2,592.26	

(1) Including underground exploration (meters)  
 (\*) Indicates work of this type was carried out.

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80g / kg U		between 80 and 130 g /kg U	

Reasonably assured resources  
 Estimated additional resources

C. Additional comments

**1. Main events influencing current progress**

Firms and public bodies working on prospecting and exploration in 1975 were : Bayerisches Geologisches Landesamt (BayGLA); Saarberg-Interplan GmbH (SI); Gewerkschaft Brunhilde (GB); Uranerzbergbau GmbH & Co. KG (UEBG); Urangesellschaft GmbH & Co. KG (UG).

The public bodies in question worked in the following areas :

- (1) "Felkenberger Granit" in the Bergfrei (BayGLA); (2) "Belchen" concession field(GB); (3) "Cham-Roding" prospecting area (GB); (4) "Keuper" exploration project (UG); (5) "Hotzenwald" concession (UEBG); (6) "Murgtal" concession (SI); (7) "Nagoldtal" concession (SI); (8) "Schuttertal" concession (SI); (9) "Elzthal" concession (SI); (10) "Kandertal" concession (SI); (11) "Hessen" concession (SI).

**2. Environmental considerations**

3.-

3. Any other relevant comment

Mining exploration was carried out in the following projects :

"Belchen" exploration area.

An exploratory run of 41 kms has been driven in mining exploration in the "Krundelbach" mine and three boreholes with a total length of 191 m have been sunk into the floor 30 m down.

"Murgtal" concession.

Exploratory galleries have been driven here to a length of 400.7 m.

D. Map

1. A map is attached to this summary report

Yes/no

Country: FRANCE

Year 1975

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
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  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Exploration cost (excluding drilling)
- 8.c Development costs
- 8.d Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

Current year	Previous year	Remarks
5	3 +	
12	42 (1973 + 1974)	
13		
		199,866 metres
342,000 meters		
	17,943,964 FF	
34,400,000 FF		
19,200,000 FF		
53,600,000 FF	26,915,000 FF	
1,730 tonnes	1,669	

(1) Including underground exploration (meters)

(\* ) Indicates work of this type was carried out.

B. Situation of uranium resources (metric tonnes U)

Current year

Proven reserves	38,000
Possible reserves	25,600

C. Additional comments

1. Main events influencing current progress.

Although no new major deposit has been identified, the indications discovered recently have led to numerous applications for licences being filed while the data collected on known deposits or indications has substantially increased knowledge of them and in some cases there are prospects of embarking on the mining stage.

2. Environmental considerations.

3. Any other relevant comment

Prospecting of the French territory has been continued intensively, mainly in the crystalline formations of the Massif Central and the sedimentary formations bordering it to the north and south.

D. Map

1. A map is attached to this summary report

\*  
Yes/~~no~~

\* See annex.

Country: IRELAND

Year 1975

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
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- 2.c Number of prospecting licences expiring
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- 6.b Total development drilling (meters)
- 6.c Total (6a + 6b) drilling
7. Exploration types:
  - Airborne (km<sup>2</sup>)
  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (#)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(\*) Including underground exploration (meters)

Current year	Previous year	Remarks
No activity reported		



B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 \$ / kg U		between 80 and 130 \$ / kg U	
—	—	—	—

Reasonably assured resources

Estimated additional resources

C. Additional comments

1. Main events influencing current progress

2. Environmental considerations

3. Any other relevant comment

D. Map

1. A map is attached to this summary report

yes/no

Country: ITALY

Year 1975

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

- 1. Number of enterprises active in U prospecting
- 2.a Number of applications for prospecting licences
- 2.b Number of prospecting licences granted
- 2.c Number of prospecting licences expiring
- 3.a Number of applications for mining licences
- 3.b Number of mining licences granted
- 3.c Number of mining licences expiring
- 4. Areas submitted to regional reconnaissance
- 5. Areas submitted to detailed reconnaissance
- 6.a Total exploration drilling (meters)
- 6.b Total development drilling (meters)
- 6.c Total (6a + 6b) drilling
- 7. Exploration types:
  - Airborne (km2)
  - Carborne (km2)
  - Field radiometry (km2)
  - Geochemical surveys (km2)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
- 9. Production (metric tonnes uranium)

Current year	Previous year	Remarks
1	2	Refers to areas under active exploration
4	5	
*		
*	*	
*	*	
1,000,000,000 Lit.	130,000,000 Lit.	

(1) Including underground exploration (meters)  
 (\*) Indicates work of this type was carried out.

.../...

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 g / kg U		between 80 and 130 g / kg U	
(1)	1,500		

Reasonably assured resources

Estimated additional resources

C. Additional comments

(1) 1,200,000 metric tons ore - U<sub>3</sub>O<sub>8</sub> content 1%

**1. Main events influencing current progress**

The areas in which prospecting and survey work has been carried out by ENI, acting through AGIP Mineraria (Minerals Division of AGIP), are situated in Lombardy (Val Seriana), Trentino-Alto Adige (Val Rendena), Latium (Viterbo region) and Sardinia.

Particularly interesting results, even though preliminary, were obtained in the Gandellino and Val Vedello areas in the Val Seriana; prospecting in the Viterbo region has revealed rather dispersed mineralisations with low contents (0.4% of U<sub>3</sub>O<sub>8</sub>).

The sole deposit of economic interest is still that of Nevazza in the Bergamo province (Val Seriana), in which the proven reserves total, as already reported in the 1974 report, 1,700,000 metric tons of ore with an average U<sub>3</sub>O<sub>8</sub> content of 1%.

**2. Environmental considerations**

3. Any other relevant comment

There are in store for processing trials, 160 metric tons of ore at 0.2% of U<sub>3</sub>O<sub>8</sub>.  
The development of the Novazze deposit is now at the study and project stage.

The initial estimate of the necessary investments for bringing the mine into production totals US \$ 23 million, broken down as follows:

Mining operations (underground preparation and machinery)	\$ 3,100,000
Processing plant	13,800,000
Supporting services	<u>6,100,000</u>
Total	23,000,000

D. Map

1. A map is attached to this summary report

Yes/na - see annex

Country: LUXEMBOURG

Year 1975

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
- 2.a Number of applications for prospecting licences
- 2.b Number of prospecting licences granted
- 2.c Number of prospecting licences expiring
- 3.a Number of applications for mining licences
- 3.b Number of mining licences granted
- 3.c Number of mining licences expiring
4. Areas submitted to regional reconnaissance
5. Areas submitted to detailed reconnaissance
- 6.a Total exploration drilling (meters)
- 6.b Total development drilling (meters)
- 6.c Total (6a + 6b) drilling
7. Exploration types:
  - Airborne (km<sup>2</sup>)
  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(1) Including underground exploration (meters)

(\*) Indicates work of this type was carried out.

Current year	Previous year	Remarks
No activity		

B. Situation of uranium resources (Metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 \$ / kg U		between 80 and 130 \$ /kg U	
—	—	—	—

Reasonably assured resources  
Estimated additional resources

C. Additional comments

1. Main events influencing current progress

2. Environmental considerations

3. Any other relevant comment

D. Map

1. A map is attached to this summary report

yes/no



Country: NETHERLANDS

Year 1975

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
2. Number of applications for prospecting licences
- 2.a Number of prospecting licences granted
- 2.b Number of prospecting licences expiring
- 2.c Number of applications for mining licences
- 3.a Number of mining licences granted
- 3.b Number of mining licences expiring
- 3.c Number of mining licences expiring
4. Areas submitted to regional reconnaissance.
5. Areas submitted to detailed reconnaissance
- 6.a Total exploration drilling (meters)
- 6.b Total development drilling (meters)
- 6.c Total (6a + 6b) drilling
7. Exploration types:
  - Airborne (km<sup>2</sup>)
  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

(1) Including underground exploration (meters)

(\*) Indicates work of this type was carried out.

Current year	Previous year	Remarks
No activity reported		

B. Situation of uranium resources

in tonnes U

Current year	Previous year	Current year	Previous year
80 \$ / kg U	80 \$ / kg U	80-130 \$ / kg U	80-130 \$ / kg U
-	-	-	-

Reasonably assured resources

Estimated additional resources

C. Additional comments

1. Main events influencing current progress

2. Environmental considerations

3. Any other relevant comment

D. Map

1. A map is attached to this summary report

Yes/no

Country: UNITED KINGDOM

Year 1975

EURATOM TREATY ART.70 SUMMARY REPORT ON URANIUM EXPLORATION AND PRODUCTION

A. Statistical data

1. Number of enterprises active in U prospecting
- 2.a Number of applications for prospecting licences
- 2.b Number of prospecting licences granted
- 2.c Number of prospecting licences expiring
- 3.a Number of applications for mining licences
- 3.b Number of mining licences granted
- 3.c Number of mining licences expiring
4. Areas submitted to regional reconnaissance
5. Areas submitted to detailed reconnaissance
- 6.a Total exploration drilling (meters)
- 6.b Total development drilling (meters)
- 6.c Total (6a + 6b) drilling
7. Exploration types:
  - Airborne (km<sup>2</sup>)
  - Carborne (km<sup>2</sup>)
  - Field radiometry (km<sup>2</sup>)
  - Geochemical surveys (km<sup>2</sup>)
  - Others (1)
- 8.a Drilling cost
- 8.b Underground exploration cost
- 8.c Total exploration cost (including 8.a and 8.b)
9. Production (metric tonnes uranium)

Current year	Previous year	Remarks
6,000 km <sup>2</sup>	5,250 km <sup>2</sup>	Two areas under investigation
* *		
£52,800	£41,000	

(1) Including underground exploration (meters)

(\*) Indicates work of this type was carried out.

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.../...

B. Situation of uranium resources (metric tonnes U)

Current year	Previous year	Current year	Previous year
< 80 \$ / kg U		between 80 and 130 \$ / kg U	
—	—	—	—

Reasonably assured resources

Estimated additional resources

C. Additional comments

**1. Main events influencing current progress**

In 1975, prospecting activity by the Institute of Geological Sciences concerning uranium specifically was at a much lower level of expenditure and was restricted to two regions of interest (a) Northern Scotland and (b) South-west England.

The I.G.S., Geochemical Division continued a regional geochemical reconnaissance of Northern Scotland. This survey was based primarily upon the collection of stream sediment samples, stream water samples and heavy mineral concentrates producing analyses of approximately forty elements per sample site.

South-west England. Types of prospecting : The techniques employed comprised on-foot radiometry, spectrometry, radon monitoring, trenching and shallow drilling.

**2. Environmental considerations**

3. Any other relevant comment

Further exploration for uranium and other metals by the Institute of Geological Sciences has been kept under review as new information has been obtained.

D. Map

1. A map is attached to this summary report

Yes/NO - see annex.