

ACC

10000/136/448

ADVISORY COM
(NORTHERN I
AUG. - OCT. 194

10000/136/448

ADVISORY COMMITTEE ON ELECTRIC POWER
(NORTHERN ITALY)
AUG. - OCT. 1945

5404-3/CG

Office of the
Chief Commissioner

=ALLIED COMMISSION=

LIST OF PAPERS

File under No. 5404-3 ADVISORY COMMITTEE ON ELECTRIC POWER
(NORTHERN ITALY)

SERIAL NUMBER	FROM—	DATE	TO—	SYNOPSIS
1	Minutes 1st Meeting	19 Jul 45		
2	Minutes 2nd Meeting	30 Aug 45		
3	Minutes 3rd Meeting	6 Oct 45		
4	Minutes 4th Meeting	15 Nov 45		

3476

NORTHERN ITALY - ELECTRICITY SCHEME

JAN 14 RECD

Advisory Committee on Electric Power

(Northern Italy)

MINUTES

The fourth meeting of the Advisory Committee on Electric Power (Northern Italy) was held in the offices of Edison Co. - Milan, at 0900 hrs on November 15, 1945.

Present :

Dr. Eng. Benedetto	-	Acting Chairman
Prof. Eng. A. Asta	-	Vice Chairman
Dr. Eng. Rossi	-	Member
Dr. Eng. Brunetti	-	"
Dr. Eng. Selmo	-	"
Dr. Eng. Dezza	-	"
Dr. Eng. Merle	-	"
Dr. Eng. Castellani	-	"
Dr. Eng. Emanueli	-	"
Dr. Eng. Bersari	-	Acting Secretary
It. Col. Parker	-	in attendance
Lieut. Jackson	-	"
Capt. Burns	-	"
Dr. Eng. Merini	-	"
Dr. Eng. Genesio	-	"
Dr. Eng. Interlenghi	-	"
Dr. Eng. Facconi	-	"
Dr. Eng. Losotovich	-	"

20) - Minutes of the last meeting, held on October 4, 1945

The minutes were received.

21) - To receive reports on war damage, repairs already carried out and rehabilitation programmes.

347 Eng. Asta - reported that new suggestions had been made in connection with the official reports on war damages and repairs already carried out. Those reports will be submitted to the next annual convention of the Associazione Elettrotecnica Italiana.

The rehabilitation programmes will be discussed at the Advisory Committees' meetings.

Milan, at 0900 hrs on November 15, 1945.

Present :

Dr. Eng. Benedetto	-	Acting Chairman
Prof. Eng. A. Asta	-	Vice Chairman
Dr. Eng. Rossi	-	Member
Dr. Eng. Brunetti	-	"
Dr. Eng. Selmo	-	"
Dr. Eng. Dezza	-	"
Dr. Eng. Merla	-	"
Dr. Eng. Castellani	-	"
Dr. Eng. Emenueli	-	"
Dr. Eng. Bersari	-	Acting Secretary
Lt. Col. Parker	-	in attendance
Maj. Jackson	-	"
Capt. Burns	-	"
Dr. Eng. Marini	-	"
Dr. Eng. Genesio	-	"
Dr. Eng. Interlenghi	-	"
Dr. Eng. Facconi	-	"
Dr. Eng. Iosotovich	-	"

20) - Minutes of the last meeting, held on October 4, 1945

The minutes were received.

21) - To receive reports on war damage, repairs already carried out and rehabilitation programmes.

347 Eng. Asta - reported that new suggestions had been made in connection with the official reports on war damages and repairs already carried out. Those reports will be submitted to the next annual convention of the Associazione Elettrotecnica Italiana.
The rehabilitation programmes will be discussed at the Advisory Committees' meetings.

22) - To review progress of repairs to generating plants and transmission systems.

Eng. Selmo (S.I.P.) reported that Cosens station is now in operation. Ponte is still out of service because the necessary material is not available.
Turbigo transformer has been repaired; Cislago transformer being heated up.

Eng. Marini (Adriatico Co.) reported that all repairs are delayed by the shortage of copper conductor and transformer oil.

Eng. Bened. cto (Edison) informed the Committee that the second circuit of the 130 KV line Rubiera - Bologna had been reactivated. The power transmission from Trentino area is limited by the capacity of the available lines. Several transformers at Ligonchio station have been repaired. Repair work at the Medio Adige dam is proceeding slowly due to shortage of manpower; the power plant will come into operation by December 15.

Eng. Brunetti (AEM-Turin) reported that all plants have been repaired with the only exception of a conversion substation.

Eng. Interlenghi (AEM-Milan) reported that all plants are operating.

Eng. Castellani (Montecatini Co.) reported that repairs to transmission lines have been completed. Prigliese station will come into operation in November.

Eng. Dezza (Falck Co) reported that all plants are operating porcelain bushings needed.

23) - Operation programme and availability of power for the month of November and December 1945.

Eng. Selmo (SIP) reported that the hydrological situation is good; rationing will probably be necessary due to the large increase of power demand.

Eng. Merin (Adriatica) reported that the reservoir storage is now less than the average; the demand is increasing and curtailment of power will be necessary.

Eng. Genesio (CIELI) reported that some damage had been caused by flooding at Morigello station; this is the junction point between CIELI and Edison. Only one 25 MVA transformer is still efficient at this plant. One 8,000 KVA unit at S. Dalmezzo is supplying 4,000 KW to Franco, thus wasting the available water.

Eng. Benedetto (Edison) reported that serious frequency drops had been experienced, due to increased power demand; curtailment is necessary but can only be effected when the gas supply to Milan will be started.

Eng. Brunetti (AEM - Turin) reported that no power can now be taken from Rosone station (54 KW) due to a landslide obstructing the gallery; he agreed with Eng. Benedetto as to the necessity of an electricity rationing plan.

Eng. Interlenghi (AEM-Milan) reported that, following the increased demand, an abnormal amount of water is drawn from

substation.

Eng. Interlenghi (AEM-Milan) reported that all plants are operating.

Eng. Castellani (Montecatini Co.) reported that repairs to transmission lines have been completed. Friglieno station will come into operation in November.

Eng. Dezza (Felck Co) reported that all plants are operating porcelain bushings needed.

23) - Operation programme and availability of power for the month of November and December 1945.

Eng. Selmo (SIP) reported that the hydrological situation is good; rationing will probably be necessary due to the large increase of power demand.

Eng. Merin (Adriatica) reported that the reservoir storage is now less than the average; the demand is increasing and curtailment of power will be necessary.

Eng. Genesio (CIELI) reported that some damage had been caused by flooding at Morigallo station; this is the junction point between CIELI and Edison. Only one 25 MVA transformer is still efficient at this plant. One 8,000 KVA unit at S. Dalmezzo is supplying 4,000 KW to France, thus wasting the available water.

Eng. Benedetto (Edison) reported that serious frequency drops had been experienced, due to increased power demand; curtailment is necessary but can only be effected when the gas supply to Milan will be started.

Eng. Brunetti (AEM - Turin) reported that no power can now be taken from Rosone station (54 KW) due to a landslip obstructing the gallery; he agreed with Eng. Benedetto as to the necessity of an electricity rationing plan.

Eng. Interlenghi (AEM-Milan) reported that, following the increased demand, an abnormal amount of water is drawn from the reservoirs; more assistance from Edison is needed and power curtailment must be adopted.

Eng. Castellani (Montecatini Co.) informed the Committee that some industrial plants of Montecatini, will reduce their demand in order that no power supply be needed from other Coys.

Eng. Dezza (Falck) reported that the Falck Co requirement is being met with the assistance of Montecatini. No assistance will be needed during the next months if rainfall is sufficient.

After much discussion on the electric power situation, the Committee recommended that following measures be taken:

- 1) To limit the power consumption by adopting a general rationing scheme.
- 2) To disconnect, with some special exceptions, all the electric furnaces.
- 3) To expedite the delivery of imported coal for the Gas Works and to increase the production of Sardinian coal in order that a certain amount (43,000 tons) be allocated to the steam plants.
- 4) To prevent, for the time being, the influx of displaced persons from the country into the cities.
- 5) To support any possible supply of fuel to the cities.

Col. Parker reported that, if coal of better quality than Sardinian coal is obtained, the above figure of 43,000 tons should be reduced and a larger amount allocated to the Gas Works.

24) - Interchange of power between Northern and Central Italy.

Prof. Asta reported on the very critical situation for the electric power in Central Italy; the shortage of electricity is very serious, due to delay in the rehabilitation of plants and to the lack of water.

Prof. Asta suggested that the matter of supplying some 30 millions KWH per month (60 MW peak) to Central Italy be discussed by the Committee.

This figure may be much reduced when new plant will be coming in and more water is available in Central Italy. The Power Coys representatives pointed out that serious troubles could be experienced in Northern Italy, if more than 15 millions KWH per month were sent to Central Italy. This matter will be discussed further by the Ministry of Public Works in agreement with the Advisory Committees.

3473

25) - Any other business

The Committee recommended that the delivery of copper conductor and transformer oil to the Electric Coys. be expedited.

Also, vehicles and tires are urgently needed.

- the electric furnaces.
- 3) To expedite the delivery of imported coal for the Gas Works and to increase the production of Sardinian coal in order that a certain amount (43,000 tons) be allocated to the steam plants.
 - 4) To prevent, for the time being, the influx of displaced persons from the country into the cities.
 - 5) To support any possible supply of fuel to the cities.

Col. Parker reported that, if coal of better quality than Sardinian coal is obtained, the above figure of 43,000 tons should be reduced and a larger amount allocated to the Gas Works.

24) - Interchange of power between Northern and Central Italy.

Prof. Aste reported on the very critical situation for the electric power in Central Italy; the shortage of electricity is very serious, due to delay in the rehabilitation of plants and to the lack of water.

Prof. Aste suggested that the matter of supplying some 30 millions KWH per month (60 MW peak) to Central Italy be discussed by the Committee.

This figure may be much reduced when new plant will be coming in and more water is available in Central Italy. The Power Coys representatives pointed out that serious troubles could be experienced in Northern Italy, if more than 15 millions KWH per month were sent to Central Italy. This matter will be discussed further by the Ministry of Public Works in agreement with the Advisory Committees.

25) - Any other business

The Committee recommended that the delivery of copper conductor and transformer oil to the Electric Coys. be expedited.

Also vehicles and tires are urgently needed.

26) - Date and time of the next meeting.

Next meeting will be held in the offices of Edison Co - Milan at 0900 hrs on Thursday December 20, 1945.

Dr. Eng. FRANCESCO BARLUZZI
Secretary to the Committee.

DISTRIBUTION LIST

C.A.O. - AFHQ
 C in Mediterranean Station AFHQ
 C-5 AFHQ 512
 C-4 (A) AFHQ (2)
 C-4 (B) AFHQ
 Director of Works (B) AFHQ - CMF (2)
 C.E., AFHQ - AFHQ 512
 C (Asint), Gd., CMF
 Fiscal Director, LTOUSA
 L.F. (Italy) Tn. Increment, CMF
 C.S. Taranto
 Eng. Section AFHQ/ATO - AFHQ 528
 Eng. Ser. Southern District FBS - AFHQ 782
 C.E. - FBS - AFHQ 782 (2)
 HQ #1 District
 C.E. #3 District
 C.C. - F.A.A.C. (2)
 AFHQ - F.A.C. - CMF
 H. Adriatic Depot - AFHQ 388 USA (2)
 Chief Commissioner .C
 Executive Commissioner HQ AC
 Vice President - Economic Section HQ AC (2)
 Commerce S/C - Coal Division
 Public Relations Br. HQ AC
 Agriculture Sub-Commission HQ AC
 Food Sub-Commission HQ AC
 Labour Sub-Commission HQ AC
 Trans. Sub-Commission HQ AC
 Industry Sub-Commission HQ AC
 Regional Commissioner Piemonte Region
 (Att. Reg. Engineer) Liguria Region
 Lombardia Region
 Venezia Region

File
 Spares.

Fiscal Director, Lucca
 L.R. (Italy) Ta. Increment, CMT
 C.S. Taranto
 Eng. Section ARS/IO - AFO 528
 Eng. Ser. Southern District P.S. - AFO 782
 C.E. - P.S. - AFO 782 (2)
 HQ #1 District
 C.E. #3 District
 C.G. - R.A.A.C. (2)
 AIRS - L.M.C. - CMT
 HQ Adriatic Depot - AFO 388 USA (2)
 Chief Commissioner AC
 Executive Commissioner HQ AC
 Vice President - Economic Section HQ AC (2)
 Commerce S/C - Coal Division
 Public Relations Br. HQ AC
 Agriculture Sub-Commission HQ AC
 Food Sub-Commission HQ AC
 Labour Sub-Commission HQ AC
 Trans. Sub-Commission HQ AC
 Industry Sub-Commission HQ AC
 Regional Commissioner Piemonte Region
 Regional Commissioner Liguria Region
 (Att: Reg. Engineer)
 Lombardy Region
 Venezia Region

File
 Spares.

3472

4

NORTHERN ITALY ELECTRICITY SCHEME

Telephone
Rome 489081 - Ext 317

6 October 1945

EDISON COMMITTEE ON ELECTRIC POWER (NORTHERN ITALY)

M I N U T E S

The third meeting of the Advisory Committee on Electric Power (North Italy) was held in the offices of Edison Co. - Milan - at 10,000 hrs. on Thursday October 4th, 1945.

Present:

Dr. Eng.	F. Benedetto	- Active Chairman
Prof. Eng.	A. Asta	- Vice Chairman
Dr. Eng.	A. Maria	- Member
Dr. Eng.	A. Brunetti	- "
Dr. Eng.	E. Solari	- represen. Dr. Eng. Selmo
Dr. Eng.	G. Dezza	- Member
Dr. Eng.	G. Maria	- "
Dr. Eng.	Berni	- represen. Dr. Eng. Castellani
Dr. Eng.	F. Baruzzi	- Secretary
lt-Col.	G. F. Parker	- In attendance
Major	C. S. Wilcox	- "
Dr. Eng.	F. Racconi	- "
Dr. Eng.	Genesio	- "
Dr. Eng.	Chierichetti	- "

13) - Minutes of the last meeting, held on August 20, 1945

The minutes were received.

Page 3 - Eng. Lezza's report should read: daily consumption of Falck Co. furnaces is now 120,000 KWH.

Page 4 - Eng. Genesio's report should read: repairs of Levera and Airone stations will require a long time.

14) - Report on war damage to electric systems and on repair work already carried out.

Reports will be submitted according to schemes suggested by Ministry of Public Works in agreement with A.C. The Committee agreed that also the causes of destruction be shown in the report (war action, mines, air bombing, partisan action).

15) - To review progress of repairs to electric systems.

The third meeting of the Advisory Committee on Electric Power (North Italy) was held in the offices of Edison Co. - Milan - at 10,000 hrs. on Thursday October 4th, 1945.

Present:

Dr. Eng.	F. Benedetto	- Acting Chairman
Prin. Eng.	A. Asta	- Vice Chairman
Dr. Eng.	E. Martin	- Member
Dr. Eng.	M. Brunetti	- "
Dr. Eng.	E. Solari	- represen. Dr. Eng. Selmo
Dr. Eng.	C. Lezza	- Member
Dr. Eng.	G. Lerla	- "
Dr. Eng.	berni	- represen. Dr. Eng. Castellani
Dr. Eng.	F. Barluzzi	- Secretary
lt-Col.	G. F. Parker	- In attendance
Major	G. S. Wilcox	- "
Dr. Eng.	F. Macconi	- "
Dr. Eng.	Genesio	- "
Dr. Eng.	Ciaerichetti	- "

13) - Minutes of the last meeting, held on August 30, 1945

The minutes were received.

Page 3 - In Lezza's report should read: daily consumption of Falck Co. furnaces is now 120,000 KWH.

Page 4 - Engr. Genesis's report should read, repairs of Levera and Airole stations will require a long time.

117) - Report on war damage to electric systems and on repair work already carried out.

Reports will be submitted according to schemes suggested by Ministry of Public Works in agreement with A.C.

The Committee agreed that also the causes of destruction be shown in the report (war action, mines, air bombing, partisan action).

15) - To review progress of repairs to electric systems.
New reconstruction programmes.

reference Lin 7) Production programme of Aluminum Wks. will not be submitted as no electric power is available for this purpose.

" " ") A.C. is looking into the matter of supplying copper
USA. The Committee was of the opinion that Elect.
Coys. should be granted the highest priority in co-
nection with the allocation of this material.

Reference Lin. 7) A.C. is following the matter of insulating oil availability.

Eng. Benedetto (Edison Co.) reported that Bonico station is now in operation; only one transformer is still to be repaired. One penstock at Tiam station is in good condition, another one will shortly be ready. Luchioso, Strattera and S. Michele plants are being repaired. Repairs to transmission lines are proceeding; higher priority is given to most important lines.

Eng. Solari of S.I. F. reported that Fungera and Castiglione Lora plants (24 MW) are now in operation; third penstock at Venau plant will be ready about November 15. Minor damages also under repair; energy production now normal.

Torino-Asti 70 KV line now in service; delay in other lines due to shortage of copper conductor.

Cisalego substation is operating with 2 transformers; Turbigo to be ready at the end of October with second 230 KV transformer completed.

Eng. Marin (Adriatica Co.) reported that Doblari plant cannot be operated at full capacity due to insufficient transmission line. Only 148 Kms. out of 1,000, of 130 KV line still to be repaired. Copper conductor needed.

Eng. Brunetti (AEM Turin) reported that only a few Kms of 90 KV and 100 of 50 KV damaged lines still remain unrepaired.

Eng. Chiarichetti (AEL Milan) reported that transmission lines are now repaired.

Eng. Iezza (Salck Co.) stated that Tavezzano substation is still out of service; high voltage insulators needed. Genova-Spigno transmission line is now operated with single circuit; second circuit ready in October.

Eng. Berni (Montecatini Co.) reported that Lari station has now only 11 MW output following some damage. Repairs probably completed in December.

Repairs to substation are proceeding; transformer oil needed.

Col. Parker reported that approximately 20,000 tons of copper have been requisitioned in U.S.A. for Italy; no information available yet as to actual delivery.

3479) - Priority order in repair work and construction of new machinery and equipment.

The Committee agreed that this matter be discussed at the next meeting, when reports on this subject and on war damage will be available.

17) - General situation of transport and allocation of vehicles.

New vehicles manufactured in Italy are now free for delivery but short of tires.

The Committee recommended that lists of vehicles required be prepared.

ready about November 19. Minor changes also under repair; energy production now normal.

Torino-Asti 70 KV line now in service; delay in other lines due to shortage of copper conductor.

Cislego substation is operating with 2 transformers; Turbigo to be ready at the end of October with second 230 KV transformer completed.

Eng. Marin (Adriatica Co.) reported that Doblari plant cannot be operated at full capacity due to insufficient transmission line. Only 148 Kms, out of 1,000, of 150 KV line still to be repaired. Copper conductor needed.

Eng. Brunetti (AEM Turin) reported that only a few Kms of 90 KV and 100 of 50 KV damaged lines still remain unrepaired.

Eng. Chierichetti (AEM Milan) reported that transmission lines are now repaired.

Eng. Dezza (Falck Co.) stated that Tavazzano substation is still out of service; high voltage insulators needed. Genova-Spigno transmission line is now operated with single circuit; second circuit ready in October.

Eng. Dorni (Montecatini Co.) reported that Mori station has now only 11 MW output following some damage. Repairs probably completed in December.

Repairs to substation are proceeding; transformer oil needed.

Col. Parker reported that approximately 20,000 tons of copper have been requisitioned in U.S.A. for Italy; no information available yet as to actual delivery.

3470) - Priority order in repair work and construction of new machinery and equipment.

The Committee agreed that this matter be discussed at the next meeting, when reports on this subject and on war damage will be available.

17) - General situation of transport and allocation of vehicles.

New vehicles manufactured in Italy are now free for delivery but short of tires.

The Committee recommended that lists of vehicles required be Electrical Coys, not yet submitted to the Ministry of Public Wks, be sent within next week.

18) - Operation programme and availability of power for the month of October.

Eng. Conedetto (Edison Co.) reported on the serious situation arising from the increasing demand for domestic services. Present weekly production is 16-18 millions KWH more than last year; a very high rate is absorbed in Milan during cooking hours.

Much anxiety exists as to power demand situation of next winter considering the actual overloading of distribution systems.

Eng. Solari (SIP) reported that an output increase of 18% is observed in September as compared to 1944 also due to steel-works operation. Estimated increase in October is 30%. A shortage of 50 to 60 millions KWH is anticipated for the next winter.

Eng. Marin (Adriatica Co.) reported that daily production is now 4 millions KWH. (3.2 millions on the beginning of September); high peak loads are observed during cooking hours. Arrangements are now being made by Adriatica Co. in order to take more power from Montecatini Co., thus relieving Edison Co.

Eng. Brunetti (AEM Turin) reported that an increase of 100% is observed in energy distributed now, as compared with 1944 figure. Outages of distributing cabin transformers (about 50 per day) are due to excessive overloading.

Eng. Chierichetti (AEM Milan) reported on the insufficient production of electric power for the month of October. Electric furnaces for pig iron could be replaced by Martin furnaces if iron scraps were avail

Eng. Berni (Montecatini Co.) reported that the Montecatini Co. production will possibly be sufficient considering on average year as to rainfall situation.

Eng. Benedetto resumed situation stating that a shortage of some hundred millions KWH is anticipated for the next winter. Also peak load demand will not be met unless some provisions are made. Gas distribution for hours a day will not sufficiently relieve the power situation; fuel should also be provided for the thermal generating plants.

Col Parker informed the Committee on the coal allocations to Gas Works October, and also advised that no fuel would probably be available for thermal stations.

After much discussion the Committee agreed and recommended that following steps be taken to improve the electric power situation in Northern Italy:

- 1) Sufficient supply of coal to gas works.
- 2) Fuel to thermal stations in order to meet emergency situation.
- 3) Iron scraps for foundries in order not to operate electric furnaces.
- 4) Investigation on industry and steelworks power requirements.
- 5) General rationing of consumers.
- 6) Prefects and Genio Civile to be informed on the situation.
- 7) Articles to be published in newspapers, in order to inform all people on the seriousness of this matter.
- 8) Full utilization of any available source of hydro power.

3469

Arrangements are now being made by Ansaldo Co. in order to take power from Montecatini Co., thus relieving Edison Co.

Eng. Brunetti (ANL Turin) reported that an increase of 100% is observed in energy distributed now, as compared with 1944 figure. Outages of distributing cable transformers (about 50 per day) are due to excessive overloading.

Eng. Chierichetti (ANL Milan) reported on the insufficient production of electric power for the month of October. Electric furnaces for pig iron could be replaced by Martin furnaces if iron scraps were available.

Eng. Berali (Montecatini Co.) reported that the Montecatini Co. production will possibly be sufficient considering on average year as to rainfall situation.

Eng. Benedetto resumed situation stating that a shortage of some hundred millions kWh is anticipated for the next winter. Also peak load demand will not be met unless some provisions are made. Gas distribution for hours a day will not sufficiently relieve the power situation; fuel should also be provided for the thermal generating plants.

Col Parker informed the Committee on the fuel allocations to Gas Works October, and also advised that no fuel would probably be available for thermal stations.

After much discussion the Committee agreed and recommended that following steps be taken to improve the electric power situation in Northern Italy:

- 1) Sufficient supply of coal to gas works.
- 2) Fuel to thermal stations in order to meet emergency situation.
- 3) Iron scraps for foundries in order not to operate electric furnaces.
- 4) Investigation on industry and steelworks power requirements.
- 5) General rationing of consumers.
- 6) Prefects and Genio Civile to be informed on the situation.
- 7) Articles to be published in newspapers, in order to inform all people on the seriousness of this matter.
- 8) Full utilization of any available source of hydro power.

19) - Any other business

The Committee recommended that coal for forges and gasoline be supplied to Electrical Co's. with high priority.

20) - Date and time of the next meeting.

Next meeting will be held in the offices of Edison Co. Milan at 0900 hrs. on Thursday, November 15th 1945.

[Signature]
Dr. Eng. FRANCESCO FARLUZZI
Secretary to the Committee

DISTAL UNION LIST

C.A.O. - AFHQ
 C in C Mediterranean Station AFHQ
 G-5 AFHQ 512
 G-4 (A) AFHQ (2)
 G-4 (B) AFHQ
 Director of Works (L) AFHQ - CMF (2)
 C.E., AFHQ - AFO 512
 Q (Maint), CMF, CMF
 Fiscal Director, MFCUSA
 L.A. (Italy) Tn. Increment, CMF
 C.S. Taranto
 Eng. Section AFSCC/MFO - AFO 528
 Eng. Sec. Southern District FBS - AFO 782
 C.E. - FBS - AFO 782 (2)
 HQ #1 District
 C.E. #3 District
 C.C. - R.A.A.C. (2)
 AFHS - L.A.C. - CMF
 HQ Adriatic Depot - AFO 388 USA (2)
 Chief Commissioner .C
 Executive Commissioner HQ AC
 Vice President - Economic Section HQ AC (2)
 Commerce S/C - Coal Division
 Public Relations Lr. HQ AC.
 Agriculture Sub-Commission HQ AC
 Food Sub-Commission HQ AC
 Labour Sub-Commission HQ AC
 Trans. Sub-Commission HQ AC
 Industry Sub-Commission HQ AC
 Regional Commissioner Piemonte Region
 (Att: Reg. Engineer) Liguria Region
 Lombardina Region
 Venezia Region

File
 Spares.

3408

SEP 13 1945

NORTHERN ITALY ELECTRICITY SCHEME

Telephone
Rome 489084 - Ext. 317

10 September 1945

ADVISORY COMMITTEE ON ELECTRIC POWER (NORTHERN ITALY)

MINUTES

The second meeting of the Advisory Committee on Electric Power (Northern Italy) was held at 1000 hrs on Thursday August 30th, 1945 in the offices of Società Edison - Milan.

Present :

Dr. Eng. E. Benedetto	- Acting Chairman
Prof. Eng. A. Asta	- Vice-Chairman
Dr. Eng. R. Merin	- Member
Dr. Eng. M. Brametti	- "
Dr. Eng. I. Audoly	- "
Dr. Eng. G. Dezzo	- "
Dr. Eng. L. Selma	- "
Dr. Eng. L. Tenuelli	- "
Dr. Eng. G. Meria	- "
Dr. Eng. L. Meggi	- Acting Secretary
Lt. Col. G. F. Parker	- In Attendance
Maj. R. A. Ryan	- "
Maj. G. S. Wilcox	- "
Dr. Eng. E. Soleri	- "
Dr. Eng. C. Genesio	- "

3467

Lt. Col. Parker reported, that, in agreement with Prof. Eng. M. Visentini, General Inspector for Electricity, Water and Gas of the Ministry of Public Works, he had decided to appoint Dr. Eng. E. Benedetto, Acting Chairman to the Committee until the matter of Advisory Committees in Italy would be settled by the Italian Government.

Eng. Benedetto expressed his thanks to Col. Parker and Prof. Eng. Visentini.

6) - Minutes of the 1st meeting of the Committee held on July 19th, 1945

5404-3/4

The second meeting of the Advisory Committee on Electric Power (Northern Italy) was held at 1000 hrs on Thursday August 30th, 1945 in the offices of Società Edison - Milan.

Present :

Dr. Eng. F. Benedetto	- Acting Chairman
Prof. Eng. A. Asta	- Vice-Chairman
Dr. Eng. R. Marin	- Member
Dr. Eng. M. Brunetti	- "
Dr. Eng. I. Andely	- "
Dr. Eng. G. Dezza	- "
Dr. Eng. I. Selmo	- "
Dr. Eng. I. Tenucci	- "
Dr. Eng. S. Marle	- "
Dr. Eng. L. Meggi	- Acting Secretary
Lt. Col. G. E. Parker	- In Attendance
Maj. R. A. Ryan	- "
Maj. C. S. Wilcox	- "
Dr. Eng. E. Soleri	- "
Dr. Eng. C. Genesio	- "

367

Lt. Col. Parker reported, that, in agreement with Prof. Eng. M. Visentini, General Inspector for Electricity, Water and Gas of the Ministry of Public Works, he had decided to appoint Dr. Eng. F. Benedetto, Acting Chairman to the Committee until the matter of Advisory Committees in Italy would be settled by the Italian Government.

Eng. Benedetto expressed his thanks to Col. Parker and Prof. Eng. Visentini.

6) - Minutes of the 1st meeting of the Committee held on July 19th, 1945

The minutes were approved.

(7)

- 1 -

5404-3/LL

(P)

7) - Matters arising from previous minutes

Min. 2) - page 3 second para should read: "South of the Po the situation is much worse due to destruction of stations on Brasinone River and of medium and high voltage electric systems."

Min. 2) Lt. Col. Parker reported that data on coal requirement for a daily 3-hours supply of gas in the largest towns, are now available. The responsible Allied Coal Allocation Authorities will shortly have a meeting on this matter and the Committee will be informed of any decision taken.

Min. 2) It was reported that large stocks of aluminum ore are now available at Porto Marghera but cannot be treated by the local plant which is out of service due to war damage. It would be advisable to take the ore to Meri and Bolzano now that electric power is largely available.

The Committee recommended that Eng. Dezza and Eng. Benadetto collect all necessary data in order to arrange with Major Wilcox (Milan Office of the Electrical Division, A.C.) for necessary transport.

Copper conductor is urgently needed especially for machinery repairs and some transmission line wires are now employed for this purpose. The Committee recommended that A.C. take some steps to see whether this material can be supplied from United States.

Lt. Col. Parker reported that a certain amount of imported mica, probably sufficient for the most important works would shortly be available. Magnetic sheets have also been shipped but will not be sufficient to meet the main requirements.

Eng. Aste informed the Committee that Tarni Co. will shortly resume the production of magnetic sheets and Eng. Dezza reported that Falck Steelworks will be able to produce 300 tons of dynamo type and 100 tons of transformer type magnetic sheets per month, starting from October.

The Committee agreed that the operation of Electrosiderurgica Works should not be prolonged beyond November the 15th. **3400** Lt. Col. Parker reported that it is effected that the production of gas will be started in advance so as to have metallurgical coke available at an early date.

Insulating oil is urgently required for transformers and oil switches and no allocation has so far been made. Lubricating oil is also very urgent. The Committee recommended that A.C. look into this matter.

Min. 2) It was reported that large stocks of aluminum ore are now available at Porto Marghera but cannot be treated by the local plant which is out of service due to war damage. It would be advisable to take the ore to Mori and Bolzano now that electric power is largely available.

The Committee recommended that Eng. Dezza and Eng. Benedetto collect all necessary data in order to arrange with Major Wilcox (Milan Office of the Electrical Division, A.C.) for necessary transport.

Copper conductor is urgently needed especially for machinery repairs and some transmission line wires are now employed for this purpose. The Committee recommended that A.C. take some steps to see whether this material can be supplied from United States.

It. Col. Parker reported that a certain amount of imported wire, probably sufficient for the most important works would shortly be available. Magnetic sheets have also been shipped but will not be sufficient to meet the main requirements.

Eng. Aste informed the Committee that Terni Co. will shortly resume the production of magnetic sheets and Eng. Dezza reported that Falck Steelworks will be able to produce 300 tons of dynamo type and 100 tons of transformer type magnetic sheets per month, starting from October.

The Committee agreed that the operation of Electrosiderurgica Works should not be prolonged beyond November the 15th. of gas will be started in advance so as to have metallurgical coal coke available at an early date.

Insulating oil is urgently required for transformers and oil switches and no allocation has so far been made. Lubricating oil is also very urgent. The Committee recommended that A.C. look into this matter.

Min. 2) Transport situation is still extremely serious especially for the shortage of tyres. Eng. Emanueli reported on the estimated production of Pirelli and Michelin factories. It. Col. Parker informed the Committee that arrangements are being made by A.S.G. and the Italian Government to make available a certain number of military vehicles. The electric companies should submit now the lists of their requirements to the Ministry of Transport through the Ministry of Public Works.

The Committee recommended that a high priority be granted to the Electrical Companies in connection with the allocation of those vehicles.

The procedure to be followed when making application for cars and trucks was explained by Eng. Asta.

6) - To review progress and make recommendations in connection with the rehabilitation of generating plants and transmission systems

Eng. Selmo (S.I.P.) reported that Castiglione Dora Station will be in operation on September 10; Torino-Asti transmission line will be ready about September 15th.

All plants should be in operation by the end of the year. Present day production is less than last year and namely 25% less in Piedmont; 70% less in Alto Adige; 28% less in Lombardia. Water is being regularly stored.

Breda and Fiat Steelworks have now resumed operation at reduced load.

Eng. Marin (Adriatica Co.) reported that the main problem is now the electric power supply to Romagna. One line has been reactivated and arrangements are being made to provide suitable transformers.

An emergency supply on a reduced base, will probably be made throughout Romagna within this year.

Present day production is 3.2 millions kWh a day (1944 figure : 4 millions).

All reservoirs are normally being impounded.

Thermal station at Ford is now out of service.

Eng. Dezza (Tosco Co.) reported that the daily consumption of Tosco Co. is now 120,000 kWh (normal : 1.8 millions) but will be increased up to 1 million in 20 days, when the workshops are reactivated.

A large amount of electric power is also available at Montecatini Co. plants.

Eng. Benedetto (Edison Co.) reported that Sonico Station started operation a week ago and Temù will again be in service in September. Strettera plant will probably be reactivated within this year.

Transmission line repairs are proceeding slowly, due to shortage of conductor, clamps and insulators.

37693

Eng. Selmo (S.I.P.) reported that Cestiglione Dam Station will be in operation on September 10; Torino-1st transmission line will be ready about September 15th.

All plants should be in operation by the end of the year. Present day production is less than last year and namely 25% less in Piedmont; 70% less in Alto Adige; 28% less in Lombardy. Water is being regularly stored.

Breda and Fiat Steelworks have now resumed operation at reduced load.

Eng. Marin (Adriatica Co.) reported that the main problem is now the electric power supply to Remagne. One line has been reactivated and arrangements are being made to provide suitable transformers.

An emergency on a reduced base, will probably be made throughout Remagne within this year.

Present day production is 3.2 millions kWh a day (1944 figure: 4 millions).

All reservoirs are normally being impounded.

Thermal station at Pohl is now out of service.

Eng. Dezza (Falck Co.) reported that the daily consumption of Falck Co. is now 120,000 kWh (normal: 1.8 millions) but will be increased up to 1 million in 20 days, when the workshops are reactivated.

A large amount of electric power is also available at Montecatini Co. plants.

Eng. Bonedetto (Edison Co.) reported that Sonico Station started operation a week ago and Temù will again be in service in September. Strettera plant will probably be reactivated within this year.

Transmission line repairs are proceeding slowly, due to shortage of conductor, clamps and insulators.

Two transmission lines (Mori-S.Palo and Mese-Arquate) will shortly be reactivated using all available line conductor to restore one circuit.

Three lines are now available to supply Toscana; a fourth line, shortly to be in operation, will permit the sending of a larger block of power to that region. Another line is being repaired by Italian Co.

Industrial customers load is now slightly increasing; much anxiety exists as to the electrodomestic service consumption which, in some areas, has already exceeded the normal winter peak.

Material for maintenance and for extension of distribution network is still short and in some instances the necessary parts are taken from stand-by units.

Water is being regularly stored.

Eng. Genesio (C.I.E.L.I.) reported that repairs of Bivera station will require a long time. The whole C.I.E.L.I. grid has been reactivated with means on hand.

Load reduction, compared with 1940, is 20% due to reduced operation of railways which is partially compensated by electrodomestic demand. The electric power supply to France is regularly maintained.

Eng. Brunetti (ATM) reported that the whole Turin network is now in operation. Rosone Station is operating at reduced load due to one 20,000 KVA unit being out of service.

Water reservoir situation is normal. Similar situation for ATM at Milan.

9) - Operation programme and availability of power for the month of September 1945

It was reported that sufficient energy will be available during the next month.

C.I.E.L.I. will be short of 23 millions kWh during September, due to lack of rainfall; this energy will be supplied by Edison Company.

10) - Overloading on distribution systems due to large demand for domestic services

The matter of relieving the electrodomestic load by supplying gas for cooking was discussed.

It was shown that the electric heating load will still be very high and it would be advisable to permit free transport of wood for domestic heating into the large towns.

Lt. Col. Parker drew the Committee's attention on the shortage of coal which will occur during the next several years advising the Companies to follow a wise policy of extension of distributing networks in view of a large demand for

Eng. Genesio (C.I.E.L.I.) reported that repairs of BiVare station will require a long time. The whole C.I.E.L.I. grid has been reactivated with means on hand.

Load reduction, compared with 1940, is 20% due to reduced operation of railways which is partially compensated by electrodomestic demand. The electric power supply to France is regularly maintained.

Eng. Brunetti (ARM) reported that the whole Turin network is now in operation. Rosone Station is operating at reduced load due to one 20,000 KVA unit being out of service. Water reservoir situation is normal. Similar situation for AEM at Milan.

9) - Operation programme and availability of power for the month of September 1945

It was reported that sufficient energy will be available during the next month.

C.I.E.L.I. will be short of 23 millions kwh during September, due to lack of rainfall; this energy will be supplied by Edison Company.

10) - Overloading on distribution systems due to large demand for domestic services

The matter of relieving the electrodomestic load by supplying gas for cooking was discussed.

It was shown that the electric heating load will still be very high and it would be advisable to permit free transport of wood for domestic heating into the large towns.

Lt. Col. Parker drew the Committee's attention on the shortage of coal which will occur during the next several years advising the Companies to follow a wise policy of extension of distributing networks in view of a large demand for electrodomestic services.

11) - Any other business

The functions and purpose of the Advisory Committee and the Electric Industrial Committee were discussed by Eng. Asta, Eng. Benedetto and Eng. Brunetti; it was agreed that any interference between these Committees should carefully be avoided.

12) - Date and time of the next meeting

The Committee agreed that the next meeting would be held in the Offices of the Edison Company. All members will be notified of the date in due time.

[Signature]
Dr. Eng. FRANCESCO BARIUZZI
Secretary to the Committee

4943

SECRETARY TO THE COMMITTEE

4973



DISTRIBUTION LIST

C.A.O. - AFHQ
 C-1 in C Mediterranean Station AFHQ
 C-5 AFHQ APO 512
 C-4 (A) AFHQ (2)
 C-4 (B) AFHQ
 Director of Works (B) AFHQ - CIV (2)
 C.E., AFHQ - APO 512
 QM, Coal Section AFHQ
 Fiscal Director, WFOUSA
 DMR (Italy) In. Increment, CMT
 C.S. Taranto
 Eng. Section AAFSCG/WFO - APO 528
 Eng. Ser. Southern District PBS - APO 782
 C.E. - PBS - APO 782 (2)
 HQ No 1 District
 C.E. No 3 District
 C.E. - R.A.A.C. (2)
 AFIRS - RMAC - CMT
 HQ Adriatic Depot - APO 388 USA (2)
 Chief Commissioner AC
 Executive Commissioner HQ AC
 Vice President - Economic Section HQ, AC (2)
 Commerce S/C - Coal Division
 Public Relations Br. HQ, AC
 Agriculture Sub-Commission HQ, AC
 Food Sub-Commission HQ, AC
 Labour Sub-Commission HQ, AC
 Trans. Sub-Commission HQ, AC
 Industry Sub-Commission HQ, AC
 Regional Commissioner Piemonte Region
 (Att. Reg. Engineer) Liguria Region
 Lombardia Region
 Venetia Region

File
 Spares

3463

QM, Coal Section AFHQ
 Fiscal Director, NTUSA
 TMR (Italy) Tn. Increment, CMF
 C.S. Taranto
 Eng. Section AFSCO/MTD - APO 528
 Eng. Ser. Southern District PBS - APO 782
 C.E. - PBS - APO 782 (2)
 HQ No 1 District
 C.T. No 3 District
 C.C. - R.A.A.C. (2)
 AFHS - RAC - CMF
 HQ Agristie Depot - APO 388 US: (2)
 Chief Commissioner AC
 Executive Commissioner HQ AC
 Vice President - Economic Section HQ, AC (2)
 Commerce S/C - Coal Division
 Public Relations Br. HQ, AC
 Agriculture Sub-Commission HQ, AC
 Food Sub-Commission HQ, AC
 Labour Sub-Commission HQ, AC
 Trans. Sub-Commission HQ, AC
 Industry Sub-Commission HQ, AC
 Regional Commissioner Piemonte Region
 (Att. Reg. Engineer) Liguria Region
 Lombardia Region
 Venezia Region

File
 Spores

3943

2

Advisory Commission

SICILY ELECTRICITY SCHEME

Telephone
Rome 489081 - Ext. 317

4 September 1945

ADVISORY COMMITTEE ON ELECTRIC POWER (SICILY)

M I N U T E S

The third meeting of the Advisory Committee on Electric Power (Sicily) was held at 0900 hrs on Tuesday July 3rd, 1945.

Present

Dr. Eng. S. TRICOMI	- Chairman
Dr. Eng. C. SCARFARI	- Member
Dr. Eng. F. ABEADESSA	- "
Prof. Eng. RUBINO	- "

Eng. Tricomi reported that he had been asked by Lt. Col. Lapper of Allied Commission and Prof. Eng. Visentini, General Inspector for Electricity, Water and Gas of the Ministry of Public Works to be the Chairman of the Advisory Committee for Sicily.

Eng. Tricomi said he was very pleased of his appointment and stated that meetings of the Committee would be held regularly every month, and minutes sent to the Ministry of Public Works.

12) - Minutes of the meeting held on Monday April 9, 1945

The minutes were approved.

13) - Matters arising from previous minutes

Min. 8) Financial assistance by Italian Government for the extension of Piano del Leone and Gammata dams, in hand by Ministry of Public Works.

Min. 8) Rationing scheme for Sicily submitted by Società Generale Elettrica della Sicilia, has already been approved by the High Commissioner.

14) - To review progress and make recommendations in connection with electric power generation and transmission in Sicily

Eng. Tricomi reported that the matter of Piano del Leone

The third meeting of the Advisory Committee on Electric Power (Sicily) was held at 0900 hrs on Tuesday July 3rd, 1945.

Present

Dr. Eng. S. TRICOMI	- Chairman
Dr. Eng. C. SCIACCA	- Member
Dr. Eng. P. ABBADESSA	- "
Prof. Eng. RUBINO	- "

Eng. Tricomi reported that he had been asked by Lt. Col. Lapper of Allied Commission and Prof. Eng. Visentini, General Inspector for Electricity, Water and Gas of the Ministry of Public Works to be the Chairman of the Advisory Committee for Sicily.

Eng. Tricomi said he was very pleased of his appointment and stated that meetings of the Committee would be held regularly every month, and minutes sent to the Ministry of Public Works.

12) - Minutes of the meeting held on Monday April 9, 1945

The minutes were approved.

13) - Matters arising from previous minutes

Min. 8) Financial assistance by Italian Government for the extension of Piano del Leone and Gammate dams, in hand by Ministry of Public Works.

346 Min. 8) Rationing scheme for Sicily submitted by Società Generale Elettrica della Sicilia, has already been approved by the High Commissioner.

14) - To review progress and make recommendations in connection with electric power generation and transmission in Sicily

Eng. Tricomi reported that the matter of Piano del Leone dam is being discussed with the Ente Acquedotti Siciliani. An agreement will possibly be reached within a short time. Some hydraulic works were completed at the Sosio River Plants but they were hampered by the fact that the matter of financial assistance by the Italian Government as well as many other legal questions had not yet been settled by the Ministry of Public Works.

15) - Allocation of power and programme for the month of July 1945

Eng. Scimemi reported that a rationing decree had already been approved and applied throughout Sicily since the end of April but little effect observed as to the load of the whole system due to insufficient enforcement of the decree. The power demand was met by drawing more water from reservoirs than estimated. The storage of water will practically be exhausted about 15 August if no improvement can be obtained in the rationing scheme.

It was reported that coal is now regularly supplied; present allocation is 370 tons a day but at least 500 tons would be required following the curtailment scheme.

The Committee recommended that this question be examined by the High Commissioner and then submitted to the Ministry of Public Works in order to take necessary steps.

16) - Any other business

There was no other business.

17) - Date and time of the next meeting

Next meeting will be held as soon as a report will be received from the High Commissioner on the matter of energy curtailment.

of 13 July
Dr. Eng. FRANCESCO CARLUZZI
Secretary to the Committee

1945

reservoirs than estimated. The storage of water will practically be exhausted about 15 August if no improvement can be obtained in the rationing scheme.

It was reported that coal is now regularly supplied; present allocation is 370 tons a day but at least 500 tons would be required following the curtailment scheme.

The Committee recommended that this question be examined by the High Commissioner and then submitted to the Ministry of Public Works in order to take necessary steps.

16) - Any other business

There was no other business.

17) - Date and time of the next meeting

Next meeting will be held as soon as a report will be received from the High Commissioner on the matter of energy curtailment.

[Signature]
Dr. Eng. FRANCESCO BARIUZZI
Secretary to the Committee

3461

DISTRIBUTION LIST

C.A.O. - ATHQ
 C-in C Mediterranean Station ATHQ
 G-5 ATHQ APO 512
 G-4 (A) ATHQ (2)
 G-4 (B) ATHQ
 Director of Works (B) ATHQ - ONF (2)
 C.E. ATHQ - APO 512
 CN, Coal Section ATHQ
 Fiscal Director, MICUSA
 DMR (Italy) Th. Increment, ONF
 C.S. Taranto
 Eng. Section AIRSCO/MTO - APO 528
 Eng. Ser. Southern District PBS - APO 782
 C.E. - PBS - APO 782 (2)
 HQ No 1 District
 C.E. No 3 District
 C.G. - R.A.A.C. (2)
 AIRS - R.A.C. - ONF
 HQ Adriatic Depot - APO 388 US: (2)
 Chief Commissioner AC ✓
 Executive Commissioner HQ AC
 Vice President - Economic Section HQ, AC (2)
 Commerce S/C - Coal Division HQ, AC
 Public Relations Br. HQ, AC
 Agriculture Sub-Commission HQ, AC
 Food Sub-Commission HQ, AC
 Labour Sub-Commission HQ, AC
 Trans. Sub-Commission HQ, AC
 Industry Sub-Commission HQ, AC
 Regional Commissioner Piemonte Region
 (Att. Reg. Engineer) Liguria Region
 Lombardie Region
 Venezia Region

File

Spares

0040

C.E. AFHQ - APO 512
 CM, Coal Section AFHQ
 Miscel Director, MTOUSA
 DMR (Italy) Tn. Increment, CMT
 C.S. Taranto
 Eng. Section AAFSCG/MTO - APO 528
 Eng. Ser. Southern District PBS - APO 782
 C.E. - PBS - APO 782 (2)
 HQ No 1 District
 C.E. No 3 District
 C.G. - P.A.A.C. (2)
 AFIRS - RAJC - CMT
 HQ Adriatic Depot - APO 388 USA (2)
 Chief Commissioner AG
 Executive Commissioner HQ AG
 Vice President - Economic Section HQ, AG (2)
 Commerce S/C - Coal Division HQ, AG
 Public Relations Br. HQ, AG
 Agriculture Sub-Commission HQ, AG
 Food Sub-Commission HQ, AG
 Labour Sub-Commission HQ, AG
 Trans. Sub-Commission HQ, AG
 Industry Sub-Commission HQ, AG
 Regional Commissioner Piemonte Region
 (Att. Reg. Engineer) Liguria Region
 Lombardia Region
 Venetia Region

File
 Spares

3460

2

5404-3/cc

COPY No. 24

NORTHERN ITALY ELECTRICITY SCHEME

Telephone AUG 7 RECD
Rome 489081 - Ext. 317

3 August 1945

ADVISORY COMMITTEE ON ELECTRIC POWER (NORTHERN ITALY)MINUTES

The first meeting of the Advisory Committee on Electric Power (Northern Italy) was held in the Offices of Allied Commission - Montecatini Bldg. Milan at 1000 hrs on Thursday 19th July 1945.

Present :

Lt.Col.	W.M. Lapper	- Chairman
Prof. Eng. A.	Asta	- Vice-Chairman
Dr. Eng. L.	Emanuelli	- Member
Dr. Eng. F.	Benedetto	- "
Dr. Eng. E.	Soleri	- Representing Dr. Eng. L. Selmo
Dr. Eng. R.	Marin	- " Dr. Eng. A. Rossi
Dr. Eng. M.	Brunetti	- Member
Dr. Eng. I.	Audoly	- "
Dr. Eng. G.	Merla	- "
Dr. Eng. F.	Berluzzi	- Secretary
Lt.Col. G.F.	Parker	- In attendance
Major R.A.	Ryan	- "
Major C.S.	Wilcox	- "
Dr. Eng. L.	Maggi	- "

1) - Explanation by Lt.Col. W.M. Lapper on the functions and purpose of the Committee

Lt.Col. Lapper explained that owing to the serious damages to electrical facilities in Central Italy it had been found desirable to form a Committee of technical experts to consider schemes and make recommendations and to generally advise in the rehabilitation of the electricity supplies.

This Committee proved so successful that it was decided to form similar Committees for Sicily, Sardinia, Southern Italy and later for Northern Italy on liberation.

The Committees were called Advisory Committees on Electric Power and their functions were to advise the General

3454

The first meeting of the Advisory Committee on Electric Power (Northern Italy) was held in the Offices of Allied Commission - Montecatini Bldg. Milan at 1000 hrs on Thursday 19th July 1945.

Present :

Lt. Col.	W.M. Lapper	-	Chairman
Prof. Eng.	A. Asta	-	Vice-Chairman
Dr. Eng.	L. Emanueli	-	Member
Dr. Eng.	F. Benedetto	-	"
Dr. Eng.	E. Soleri	-	Representing Dr. Eng. L. Selmo
Dr. Eng.	R. Marin	-	" Dr. Eng. A. Rossi
Dr. Eng.	M. Brunetti	-	Member
Dr. Eng.	I. Audoly	-	"
Dr. Eng.	G. Merla	-	"
Dr. Eng.	F. Barluzzi	-	Secretary
Lt. Col.	G.F. Parker	-	In attendance
Major	R.A. Ryan	-	"
Major	C.S. Wilcox	-	"
Dr. Eng.	L. Meggi	-	"

1) - Explanation by Lt. Col. W.M. Lapper on the functions and purpose of the Committee

Lt. Col. Lapper explained that owing to the serious damages to electrical facilities in Central Italy it had been found desirable to form a Committee of technical experts to consider schemes and make recommendations and to generally advise in the rehabilitation of the electricity supplies.

This Committee proved so successful that it was decided to form similar Committees for Sicily, Sardinia, Southern Italy and later for Northern Italy on liberation.

The Committees were called Advisory Committees on Electric Power and their functions were to advise the General Inspector for Electricity, Water and Gas of the Ministry of Public Works on all matters connected with the generation and supply of electricity.

Col. Lapper emphasized that it was important that members expressed their own views and not that of any particular company with which they were connected.

5404-3/c

3454

①

After a discussion it was agreed by the Committee that the Advisory Committee on Electric Power for Northern Italy would not in any way interfere with the industrial Committees operating in the North.

2) - To review progress and make recommendations in connection with the rehabilitation of the generating plants and transmission systems.

Eng. Benedetto (Edison Co.) reported that some serious damages to generating stations and transmission lines were due to German and partisan action; minor damage occurred following air raids. About 75% of facilities damaged by partisans have now been repaired with means on hand.

Also 9 out of 12 line-crossings on the Po River have been repaired so that the whole electric system will shortly be entirely reactivated.

A serious problem, now arising from shortage of coal for heating and gas works is the overloading of distribution systems and transformers due to the increased domestic load. The situation will be worse in winter when heating demand will also be considered.

The reduction in load due to big industries not yet reactivated is about 25% compared with normal time. Power supply to Central Italy during summer may be about 100 MW but this amount must be largely reduced during winter (60-70 MW during 1,000 hrs in normal time).

Eng. Soleri (Società Idroelettrice Piemonte - "SIP") reported that some damage to generating stations and transmission systems was due to sabotage by partisans. Repairs are now being carried out and the situation will be normal at the end of 1945. Also 90% of lines have already been repaired.

One 40 MVA transformer from Cislago damaged by a flash-over is being repaired by Compagnia Generale di Elettricità. The 220 KV line Cardano Cislago is operated at 130 KV with capacity reduced to 50%.

Reduction in load is 23% compared with normal time. Similar troubles as for Edison Co. are encountered in distributing systems for domestic appliance overloading.

Eng. Audoly (Compagnie Imprese Elettriche Liguri "CIELI") reported that Airole and Bivera generating stations had been completely destroyed by Germans; clearing of wrecks shortly to begin as the French were now leaving this ter-

were due to German and partisan air raids. About 75% of facilities occurred following air raids. About 75% of facilities damaged by partisans have now been repaired with means on hand.

Also 9 out of 12 line-crossings on the Po River have been repaired so that the whole electric system will shortly be entirely reactivated.

A serious problem, now arising from shortage of coal for heating and gas works is the overloading of distribution systems and transformers due to the increased domestic load. The situation will be worse in winter when heating demand will also be considered.

The reduction in load due to big industries not yet reactivated is about 25% compared with normal time. Power supply to Central Italy during summer may be about 100 MW but this amount must be largely reduced during winter (60-70 MW during 1,000 hrs in normal time).

Eng. Soleri (Società Idroelettrica Piemonte - "SIP") reported that some damage to generating stations and transmission systems was due to sabotage by partisans. Repairs are now being carried out and the situation will be normal at the end of 1945. Also 90% of lines have already been repaired.

One 40 MVA transformer from Cislago damaged by a flash-over is being repaired by Compagnia Generale di Elettrocità. The 220 KV line Cardano Cislago is operated at 130 KV with capacity reduced to 50%.

Reduction in load is 23% compared with normal time. Similar troubles as for Edison Co. are encountered in distributing systems for domestic appliance overloading.

Eng. Audoly (Compagnia Imprese Elettiche Liguri "CIELLI") reported that Airole and Bevera generating stations had been completely destroyed by Germans; clearing of wreckagees shortly to begin as the French were now leaving this territory.

Transmission lines have been seriously damaged in the Airole Bevera area; also low voltage line in bad condition, material and transport needed.

At the Concenter steam station the electrical equipment was damaged by bombing; repairs are being carried out and the station will be ready for operation by October-November. Owing to shortage of coal the station will not be used except in case of emergency.

./.

3438

(1)

Eng. Marin (Società Adriatica di Elettricità "S.A.D.") reported that in the area north of Po River Bussolengo Station is the only one to be seriously damaged (dam) and will be repaired within next spring. Marghera steam plant repairs are now at an advanced stage.

South of the Po the situation is much worse due to destruction of stations on Bresimone River and of 15 kv electric system. Steps are now being taken to provide suitable transformers which could be purchased from the Consorzio Formed by Alfa Romeo and Isotta Fraschini, during the German occupation, in order to clear some industrial areas.

Average load is now about 50% of normal time.

It. Col. Lepner reported that the electricity supply in the Venezia Giulia area under the control of the Yugoslav Army would be maintained by the electrical company in the normal way.

Eng. Brunetti (Azienda Elettrica Municipale "A.E.M." Turin) reported on the load increase due to domestic appliances. It was also stated that Montecatini Co. and Felck Co., which are the most important selfproducers are now generating 30% of normal time.

Recommendations

- (a) The Committee recommended that a sufficient amount of coal be supplied to the Gas Plants in order to avoid serious troubles in the distributing systems during next winter. The supply should be commenced in August in order to provide a safe margin of time for the starting of the Gas Plants.
- (b) The Committee recommended that immediate action be taken to supply the Electrical Companies with the following material: copper and aluminum conductor, mica, insulating oil, coal for electromechanical industries and cement factories, porcelain, magnetic sheets and rubber boots.
- (c) The Committee recommended that immediate action be taken to rectify the shortage of transportation which was seriously delaying the repair and rehabilitation work. It was pointed out that 75% of the cars and trucks owned by the electrical companies had been taken by the Germans and 50% of the remaining vehicles were short of tyres.
- (d) The Committee recommended that tyres be made immediately available for transport.

3457

trial areas.

Average load is now about 50% of normal time.

It. Col. Lepner reported that the electricity supply in the Venezia Giulia area under the control of the Yugoslav Army would be maintained by the electrical company in the normal way.

Eng. Brunetti (Azienda Elettrica Municipale, ASEM Turin) reported on the load increase due to domestic appliances. It was also stated that Montecatini Co. and Felck Co., which are the most important selfproducers are now generating 30% of normal time.

Recommendations

- (a) The Committee recommended that a sufficient amount of coal be supplied to the Gas Plants in order to avoid serious troubles in the distributing systems during next winter. The supply should be commenced in August in order to provide a safe margin of time for the starting of the Gas Plants.
- (b) The Committee recommended that immediate action be taken to supply the Electrical Companies with the following material: copper and aluminum conductor, mica, insulating oil, coal for electromechanical industries and cement factories, porcelain, magnetic sheets and rubber boots.
- (c) The Committee recommended that immediate action be taken to rectify the shortage of transportation which was seriously delaying the repair and rehabilitation work. It was pointed out that 75% of the cars and trucks owned by the electrical companies had been taken by the Germans and 50% of the remaining vehicles were short of tyres.
- (d) The Committee recommended that tyres be made immediately available for existing vehicles in order that the normal repair and the work on the damaged plants could be proceeded with.

3457

3) - Operation programme and allocation of power for the month of August 1945

It was reported that sufficient energy will be available during the next month and therefore a large block of power can be supplied to Central Italy.

4) - Any other business

The Committee agreed that Eng. Dezza, of Falck Steel Works, be included in the Advisory Committee for Northern Italy, as a representative of industrial selfproducers of power.

5) - Date and time of the next meeting

Next meeting will be held at 100 hrs on Thursday 30th August 1945 in the offices of Edison Company - Foro Bonaparte - Milan.

Dr. Eng. FRANCESCO B. RLUZZI
Secretary to the Committee

3456

5) - Date and time of the next meeting

Next meeting will be held at 100 hrs on Thursday 30th
August 1945 in the offices of Edison Company - Foro
Bonaparte - Milan.

Dr. Eng. FRANCESCO BARLUZZI
Secretary to the Committee

3458

DISTRIBUTION LISTCOPY No :

1	- C.A.O. - AFHQ
2	- C-in C Mediterranean Station AFHQ
3	- G-5 AFHQ APO 512
4/5	- G-4 (A) AFHQ
6	- G-4 (B) AFHQ
7/8	- Director of Works (B) AFHQ - CMF
9	- C.E., AFHQ - APO 512
10	- QM, Coal Section AFHQ
11/12	- Fiscal Director, MTOUSA
13	- DIR (Italy) Tn. Increment, CMF
14	- C.S. Taranto
15	- Eng. Section AAFSGO/MTO - APO 528
16	- Eng. Ser. Southern District PBS - APO 782
17/18	- C.E. - PBS - APO 782
19	- HQ No 1 District
20	- C.E. No 3 District
21/25	- C.G. - R.A.A.C.
26	- AFLRS - R.A.C. - CMF
27/28	- HQ Adriatic Depot - APO 388 USA
29	- Chief Commissioner AC
30	- Executive Commissioner HQ AC
31/32	- Vice President - Economic Section HQ, AC
33	- Commerce S/C - Coal Division (Att. Lt. Col. Oxley)
34	- Public Relations Br. HQ AC
35	- Agriculture Sub-Commission HQ AC
36	- Food Sub-Commission HQ AC
37	- Labour Sub-Commission HQ AC
38	- Trans. Sub-Commission HQ AC
39	- Industry Sub-Commission HQ AC
40	Regional Commissioner
41	(ATT. Regional Engineer)
42	Emilia Region
43	Piemonte Region
44	Liguria Region
	Lombardia Region
	Venezia Region

3455

4/5 - G-4 (A) AFHQ
 6 - G-4 (B) AFHQ
 7/8 - Director of Works (B) AFHQ - CMF
 9 - C.E., AFHQ - APO 512
 10 - QM, Coal Section AFHQ
 11/12 - Fiscal Director, MFOUSA
 13 - DMR (Italy) Tn. Increment, CMF
 14 - C.S. Taranto
 15 - Eng. Section AAFSGO/LTO - APO 528
 16 - Eng. Ser. Southern District PBS - APO 782
 17/18 - C.E. - PBS - APO 782
 19 - HQ No 1 District
 20 - C.E. No 3 District
 21/25 - C.G. - R.A.A.C.
 26 - AFIRS - RA'C - CMF
 27/28 - HQ Adriatic Depot - APO 388 USA
 29 - Chief Commissioner AO
 30 - Executive Commissioner HQ AC
 31/32 - Vice President - Economic Section HQ, AC
 33 - Commerce S/C - Coal Division (Att.It.Col.Oxley)
 34 - Public Relations Br. HQ AC
 35 - Agriculture Sub-Commission HQ AC
 36 - Food Sub-Commission HQ AC
 37 - Labour Sub-Commission HQ AC
 38 - Trans. Sub-Commission HQ AC
 39 - Industry Sub-Commission HQ AC
 40 - Regional Commissioner
 41 - (ATT. Regional Engineer) Emilia Region
 42 - Piemonte Region
 43 - Liguria Region
 44 - Lombardia Region
 45 - Venezia Region
 46/70 - File
 - Spares

3453

①

No.

785015

LIST OF PAPERS

File under No.

SERIAL NUMBER	FROM—	DATE	TO—	SYNOPSIS
3454				

345¹/₂

0 1 3 3

