

Information Circular 8765

# Projects To Expand Fuel Sources in Eastern States—An Update of Information Circular 8725

Survey of Planned or Proposed Coal Mines, Coal  
and Noncoal Conversion Plants, Electric  
Generating Plants, Oil Refineries, Uranium  
Enrichment Facilities, and Related Infrastructure,  
in States East of the Mississippi River  
(as of July 1977)

By David C. Benson and Frank J. Doyle

With contributions by Bureau of Mines Eastern State  
Liaison Officers



UNITED STATES DEPARTMENT OF THE INTERIOR  
Cecil D. Andrus, Secretary  
BUREAU OF MINES

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Territories under U.S. administration.

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# PROJECTS TO EXPAND FUEL SOURCES IN EASTERN STATES--AN UPDATE OF INFORMATION CIRCULAR 8725

Survey of Planned or Proposed Coal Mines, Coal and Noncoal Conversion Plants,  
Electric Generating Plants, Oil Refineries, Uranium Enrichment Facilities,  
and Related Infrastructure, in States East of the Mississippi River (as of July 1977)

by

David C. Benson<sup>1</sup> and Frank J. Doyle<sup>2</sup>

With contributions by Bureau of Mines Eastern State Liaison Officers

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## ABSTRACT

This Bureau of Mines report is an update of IC 8725 and comprises tables listing the name, location, and other pertinent data concerning certain fuel-related projects. The tables include information on projects involving the proposed or planned development of fuel resources, as well as the development of storage, transportation, and conversion facilities; the report covers the 26 States east of the Mississippi River. Of the total 535 projects for which information is provided, 429 concern coal mines and electric generating plants (including Energy Supply and Environmental Coordination Act (ESECA) coal conversion notices).

## INTRODUCTION

As the demand for energy increases, there is a greater need for comprehensive information regarding fuel resources and what is being done to develop them. The Bureau of Mines is continually assessing the Nation's mineral fuel resources from the standpoint of supply and demand. This report is an overview and update of how industry and Government plan to develop these resources into new or additional sources of energy; it includes information on projects proposed, planned, or under development. The report also includes information on the completion or cancellation of projects reported previously.<sup>3</sup> Information was collected and compiled for (1) coal mines, (2) electric generating plants, (3) coal conversion plants, (4) waste-to-fuel conversion plants, (5) pipelines, (6) terminal facilities, (7) oil refineries, (8) natural gas processing and storage facilities, (9) uranium enrichment facilities, and (10) electric generating plants receiving coal conversion notices. The information can be used to appraise the type and amount of fuel-related resource development that may be anticipated within the next several years. The data comprise information collected during last year's survey for IC 8725 (May-June 1976) and information made available up to July 1977 and covers the 26 States east of the Mississippi River.

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<sup>3</sup>Staff, Eastern Field Operations Center. Projects To Expand Fuel Sources in Eastern States. BuMines IC 8725, 1976, 114 pp.

There are two major limitations to the data in this updated report.

(1) Only projects that have been publicly announced are listed; unannounced plans are not included because no direct survey of industry was conducted.

(2) Some of the projects that have been proposed and listed may never come into being. Within these limitations, the information provides a view of current activities in the Eastern United States to increase the energy supplied by mineral fuels. The Bureau of Mines welcomes corrections or additions to the tables that follow. Please notify the Eastern Field Operations Center or the appropriate State Liaison Officer (addresses in appendix).

#### ACKNOWLEDGMENTS

Bureau of Mines State Liaison Officers and State Liaison Program Assistants gathered the majority of the data given in this report. The officers, program assistants, and the States for which they provided information are

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#### CHANGES IN REPORTING OF DATA

A comparison of this report with IC 8725 shows several changes in the method of reporting data and the addition of two information categories. The changes include (1) elimination of employment estimates (2) listing all proposed units of an electric generating plant as one project, (3) listing only the destination State and origin for interstate pipeline routes, (4) renaming "noncoal conversion" plants "waste-to-fuel conversion" plants, and (5) providing a list of data sources. The two additional information categories are (1) electric generating plants receiving preliminary ESECA coal conversion notices, and (2) previously reported energy development projects that were completed or canceled.

SUMMARY OF CERTAIN FUTURE FUEL-RELATED PROJECTS IN THE EASTERN UNITED STATES

As of July 1977, the Bureau of Mines had compiled a list of 535 future fuel-related projects in 26 Eastern States. The projects involve the proposed or planned development of resources, the development of storage, transportation, and conversion facilities, and electric generating plants required to convert to coal under ESECA notice. Projects on oil wells, oil shale, tar sand, or coal slurry pipelines are not reported here because plans for developing such projects in the Eastern United States have not been revealed.

Over half of the future projects are in seven States: Alabama, Illinois, Kentucky, New York, Ohio, Pennsylvania, and West Virginia. Table 1 indicates the number of projects in each of the Eastern States, while figure 1 is a summary by State and fuel-related category.

TABLE 1. - Number of future fuel-related projects, by State

State	Number of projects	State	Number of projects
Alabama.....	35	New Hampshire.....	5
Connecticut.....	6	New Jersey.....	18
Delaware.....	4	New York.....	26
Florida.....	23	North Carolina.....	9
Georgia.....	23	Ohio.....	33
Illinois.....	32	Pennsylvania.....	51
Indiana.....	20	Rhode Island.....	4
Kentucky.....	43	South Carolina.....	8
Maine.....	7	Tennessee.....	11
Maryland.....	20	Vermont.....	4
Massachusetts.....	21	Virginia.....	20
Michigan.....	20	West Virginia.....	71
Mississippi.....	6	Wisconsin.....	15
		Total projects.....	535

Of the 535 projects for which information is provided, 429 concern coal mines and electric generating plants including ESECA coal conversion notices. The full distribution of projects by type of development is shown in table 2.

TABLE 2. - Number of future fuel projects, by type of facility

Type of facility	Number of projects
Coal mines.....	189
Electric generating plants.....	208
Coal conversion plants.....	16
Waste-to-fuel conversion plants.....	9
Pipelines.....	19
Terminal facilities.....	18
Oil refineries.....	13
Natural gas processing and storage facilities.....	24
Uranium enrichment facilities.....	7
Electric generating plants ordered to convert to coal (ESECA notice).....	32
Total projects.....	535

Future fuel-related project categories	Number of projects - Eastern States															Totals											
	Albany	Connecticut	Delaware	Florida	Georgia	Illinois	Indiana	Kentucky	Maryland	Massachusetts	Michigan	Mississippi	New Hampshire	New Jersey	New York		Ohio	Pennsylvania	Rhode Island	South Carolina	Tennessee	Virginia	West Virginia	Wisconsin			
Underground coal mines (169.5 million tons)	13			9	1	19	1								10	28		2	10	50				143			
Surface coal mines (54.1 million tons)	6			5	6	4	5								2	2		1		12				43			
Surface/underground coal/mines (230 million tons)							3																	3			
Coal electric generating plants (53,120 Mw)	2	1	5	3	6	8	7	1	1	7	2	1	3	2	5	4	2	2	4	1	2	2	8	70			
Nuclear electric generating plants (134,410 Mw)	3	1	1	2	2	4	2	1	5	2	4	2	6	8	6	3	3	1	3	4	1	2	2	69			
Hydroelectric generating plants (17,445 Mw)	1		1	7	1	1	1	1	3	1	1	2	3	2	3	1	1	1	2	1	2	1	2	25			
Oil or gas electric generating plants (18,806 Mw)									5	7	2	2	4	2	4	2	1	1						38			
Solid waste electric generating plants (382 Mw)	1	3	1	2	1			4	4	1	1	3	4	1	1	1					3	1	1	32			
ESECA oil/gas to coal electric generating plants									2															16			
Coal conversion plants									2															9			
Waste-to-fuel conversion plants									2															2			
Pipelines	1	1	1	1	2	1	1	1	1	1	1	1	1	1	4	5	1	1	2	1	2	1	2	19			
Terminal facilities	3	3	1	1	2	1	2	1	1	1	2	2	2	3	3	1	1	1	4	1	1	1	1	13			
Oil refineries	2	1	2					1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	6			
Natural gas processing facilities	3			2											1	2	1	1	1	1	1	1	1	18			
Natural gas storage facilities				1	1	3		1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	7			
Uranium enrichment facilities			5												1	1	1	1	1	1	1	1	1	7			
<b>Total projects</b>	<b>35</b>	<b>6</b>	<b>4</b>	<b>23</b>	<b>23</b>	<b>32</b>	<b>20</b>	<b>43</b>	<b>7</b>	<b>20</b>	<b>21</b>	<b>20</b>	<b>6</b>	<b>5</b>	<b>18</b>	<b>26</b>	<b>9</b>	<b>33</b>	<b>51</b>	<b>4</b>	<b>8</b>	<b>11</b>	<b>4</b>	<b>20</b>	<b>71</b>	<b>15</b>	<b>535</b>

FIGURE 1: - Summary of future fuel-related projects in the Eastern United States.

### Future Coal Mines

Information is provided for 189 mines: 43 surface mines, 143 underground mines, and 3 combination surface/underground mines. Included within this total are both entirely new developments and mines which are projected to significantly increase existing capacity. The listing does not include the hundreds of relatively small and short-term surface mines which will be opened (and closed) in the next several years in the Appalachian coalfield; these were considered normal startups of continuing operations, and therefore not pertinent to this report.

Table 3 indicates anticipated additional capacity and potential markets. Although added capacity is shown to be 247 million tons, realistically this should be reduced by an amount equal to production losses occasioned by mine closings caused by economic conditions, depletion, production problems, and other factors. About one-third of the indicated added capacity is slated for metallurgical use.

TABLE 3. - Future coal mines, capacities and markets, by State

State	Number of mines <sup>1</sup>	Capacity, million tons/yr	Market	
			Steam, million tons/yr	Metallurgical, million tons/yr
Alabama.....	19	24.5	8.3	<sup>3</sup> 16.2
Georgia.....	5 (5)	-	-	-
Illinois.....	15	32.2	32.2	-
Indiana.....	5	12.6	12.6	-
Kentucky.....	27 (2)	45.7	39.9	5.8
Maryland.....	1	1.8	.9	.9
Ohio.....	12	<sup>2</sup> 21.7	19.2	-
Pennsylvania.....	30 (2)	26.5	16.3	10.2
Tennessee.....	3	2.7	-	2.7
Virginia.....	10	8.9	3.1	<sup>4</sup> 5.8
West Virginia.....	62	70.0	22.6	47.4
Total.....	189	246.6	155.1	89.0

<sup>1</sup>Numbers in parentheses indicate the number of mines not included in capacity and market data.

<sup>2</sup>Includes production of 1 mine, 2.5 million tons annually, to be used by a gasification plant.

<sup>3</sup>Total includes 6 million tons to be exported to Japan.

<sup>4</sup>Total includes 1.2 million tons to be exported to Romania.

### Future Electric Generating Plants and Expansions

There are 208 generating plant projects consisting of 359 units listed in this report. As indicated in table 4, New York, New Jersey, North Carolina, Illinois, Tennessee, and Maryland account for about 43 percent of anticipated added capacity. Ultimate capacity of all projects is 224,163 megawatts. Of these 70 would depend on coal as an energy source and would yield 53,120 megawatts or about 24 percent of ultimate capacity. Proposed nuclear electric generating plants account for 60 percent of ultimate capacity (134,410 megawatts).

TABLE 4. - Future electric generating plants and capacities, by State

State	Sited projects	Capacity, megawatts	Unsited projects	Capacity, megawatts	Total projects	Total units	Total capacity, megawatts
Alabama.....	6	12,178	-	-	6	16	12,178
Connecticut...	1	1,150	-	-	1	1	1,150
Delaware.....	3	1,970	-	-	3	3	1,970
Florida.....	14	9,211	-	-	14	20	9,211
Georgia.....	11	10,097	-	-	11	24	10,097
Illinois.....	11	14,569	-	-	11	22	14,569
Indiana.....	8	9,362	2	905	10	15	10,267
Kentucky.....	9	5,033	-	-	9	13	5,033
Maine.....	6	3,195	-	-	6	6	3,195
Maryland.....	12	14,108	-	-	12	18	14,108
Massachusetts.	12	4,168	-	-	12	17	4,168
Michigan.....	13	10,019	-	-	13	19	10,019
Mississippi...	4	6,460	-	-	4	8	6,460
New Hampshire.	1	2,300	-	-	1	2	2,300
New Jersey....	10	14,741	2	610	12	19	15,351
New York.....	17	15,585	2	6,340	19	32	21,925
North Carolina	6	12,851	2	2,230	8	15	15,081
Ohio.....	9	11,215	-	-	9	16	11,215
Pennsylvania..	9	9,499	1	800	10	18	10,299
Rhode Island..	2	2,314	-	-	2	6	2,314
South Carolina	6	8,366	-	-	6	20	8,366
Tennessee.....	6	14,433	-	-	6	12	14,433
Vermont.....	4	1,501	-	-	4	4	1,501
Virginia.....	4	7,744	-	-	4	13	7,744
West Virginia.	3	3,552	-	-	3	4	3,552
Wisconsin.....	11	7,357	1	300	12	16	7,657
Total....	198	212,978	10	11,185	208	359	224,163

Future Coal Conversion Plants

Sixteen coal conversion plants are listed in this report. The total includes 11 gasification plants, 2 liquefaction plants, 2 combination gasification/liquefaction plants, and 1 project to produce solvent refined coal. Table 5 shows that the coal conversion facilities are now being developed on a small scale and proposed and planned projects would yield relatively minor quantities of processed energy.

TABLE 5. - Future coal conversion plants and capacities, by State

State	Gasification		Liquefaction	
	Number of projects	Capacity, million cu ft/day	Number of projects	Capacity, bbl/day
Illinois.....	<sup>1</sup> 3	232	-	6,300
Kentucky.....	4	( <sup>2</sup> )	1	( <sup>2</sup> )
Massachusetts.....	2	( <sup>2</sup> )	-	-
Ohio.....	2	113	1	2,600
Pennsylvania.....	<sup>3</sup> 1	( <sup>2</sup> )	-	-
West Virginia.....	1	( <sup>2</sup> )	-	-
Total.....	13	345	2	8,900

<sup>1</sup> 2 plants produce both gas and liquids.

<sup>2</sup> Not available.

<sup>3</sup> Does not include one proposed plant in Pennsylvania to produce solvent refined coal and chemical byproducts, capacity not available.

#### Future Waste-to-Fuel Conversion Plants and Capacities

Waste-to-fuel conversion plants are not abundant in the Eastern States; however, increasing attention is being given to the concept. Table 6 indicates only nine projects are proposed at this time--none of which is of any appreciable size. The major assets of this type of energy source lie in its service as a disposal operation and its applicability as an alternate energy source to individual or small groups of industrial consumers.

TABLE 6. - Future waste-to-fuel conversion plants and capacities, by State

State	Number of projects	Capacity, million cu ft/day
Connecticut.....	1	<sup>1</sup> 34.0
Florida.....	1	( <sup>2</sup> )
Indiana.....	1	60.0
Massachusetts.....	1	31.5
Michigan.....	1	( <sup>3</sup> )
New Jersey.....	1	125.0
New York.....	1	125.0
Wisconsin.....	2	( <sup>2</sup> )
Total.....	9	375.5

<sup>1</sup> Gas equivalent of solid fuel product.

<sup>2</sup> Solid fuel product--gas equivalent unknown.

<sup>3</sup> Waste mixed with coal.

#### Future Pipelines

Nineteen pipeline projects are identified; these include 10 intrastate lines and 8 interstate lines for a combined total length of 4,447.7 miles. Not included in the tabulation presented in table 7 is a 15-mile pipeline from Michigan to Ontario, Canada. These pipelines would carry gas, crude oil, and petroleum products; no coal slurry pipeline projects are reported for the Eastern States.

TABLE 7. - Future pipelines, by State

State	Intrastate pipelines	Total length, miles	Interstate pipelines		Total length, miles
			Number	Origin	
Alabama.....	-	-	1	Indiana...	500
Georgia.....	1	105	-	-	-
Illinois.....	2	147	-	-	-
Indiana.....	1	7	-	-	-
Ohio.....	2	56	2	W. Canada.	2,717
Pennsylvania.....	1	22	1	Virginia	190
	-	-	1	E. Canada <sup>1</sup>	500
	-	-	2	New York..	28.2
Tennessee.....	1	60	-	-	-
Virginia.....	1	8.5	1	Maryland..	87
West Virginia.....	1	20	-	-	-
Total.....	10	425.5	<sup>2</sup> 8	-	4,022.2

<sup>1</sup>The origin of this interstate pipeline may be relocated in Maine (See Maine table).

<sup>2</sup>Not included is a 15-mile pipeline project from Sault Ste. Marie, Mich., to Sault Ste. Marie, Ontario, Canada (See Michigan table.).

#### Future Terminal Facilities

Terminal facilities of various types are summarized in table 8. Four of them involve unloading facilities for crude oil and liquefied natural gas; 14 projects would be concerned with coal handling facilities.

TABLE 8. - Future terminal facilities, by State

State	Number of projects	Type of facility
Alabama.....	3	Coal transloading (2), coal storage and transloading (1).
Georgia.....	1	Liquefied natural gas, offshore.
Kentucky.....	2	Coal transloading.
Maryland.....	1	Liquefied natural gas, offshore.
Massachusetts.....	1	Coal transloading.
New Jersey.....	2	Liquefied natural gas, offshore, crude oil unloading (deepwater port).
Ohio.....	3	Coal transloading (2), barge fleeting area.
Pennsylvania.....	1	Coal transloading.
West Virginia.....	4	Coal transloading (3), coal preparation plant.
Total.....	18	

#### Future Oil Refineries

Thirteen new oil refineries or expansions are listed in this report. If completed, the planned refinery projects would result in additional throughput of 2.3 million barrels per day. Table 9 lists the number of projects and the capacity by State.

TABLE 9. - Future oil refineries, by State

State	Number of projects	Additional throughput, thousand bbl/day
Alabama.....	2	35
Connecticut.....	1	400
Florida.....	2	265
Maine.....	1	425
Maryland.....	1	200
Mississippi.....	1	( <sup>1</sup> )
New Hampshire.....	2	414
New York.....	1	100
Rhode Island.....	1	250
Virginia.....	1	183
Total.....	13	2,272

<sup>1</sup>Capacity unavailable.

Future Natural Gas Processing and Storage Facilities

Six future natural gas processing plants and 18 future storage projects have been identified in 14 States (table 10). Additional processing capacity would amount to the 475.5 million cubic feet of gas and 450,000 barrels of liquefied gas (either LNG or LPG); similarly, capacity expansions of 178.3 billion cubic feet of gas and 7,600 barrels of liquefied gas are planned for natural gas storage.

TABLE 10. - Future natural gas processing and storage facilities, by State

State	Processing			Storage		
	Number of projects	Capacity, million cubic feet	Capacity, thousand barrels	Number of projects	Capacity, billion cubic feet	Capacity, thousand barrels
Alabama.....	3	119	-	-	-	-
Georgia.....	2	350	450	1	-	450
Indiana.....	-	-	-	3	7.8	500
Maryland.....	-	-	-	1	5	-
Massachusetts..	-	-	-	1	-	974
Michigan.....	-	-	-	4	19.8	-
Mississippi...	-	-	-	1	-	3,000
New Hampshire..	-	-	-	1	-	300
New York.....	-	-	-	1	22	-
Ohio.....	-	-	-	1	115	-
Pennsylvania..	-	-	-	2	2.7	1,186
Rhode Island..	-	-	-	1	6	-
South Carolina	-	-	-	1	-	1,190
Tennessee.....	1	5.5	-	-	-	-
Total.....	6	474.5	450	18	178.3	7,600

Future Uranium Enrichment Facilities

Seven uranium enrichment plants are planned or are awaiting start up orders in the Eastern States. Five would be located in Florida, one in Ohio, and one has been completed in South Carolina and awaits a Federal decision as to final disposition of the facility.

Electric Generating Plants Receiving Coal Conversion Notices

Between June 30, 1975, and June 30, 1977, the Federal Energy Administration (FEA) in accordance with the Energy Supply and Environmental Coordination Act (ESECA), released lists of electric generating plants and units receiving coal conversion notices. Table 11 indicates that 32 plants (72 units) in 16 of the Eastern States are affected by these notices. Connecticut, Massachusetts, Maryland, New York, and Virginia account for 18 plants (43 units). A generating capacity of 12,802 megawatts with a potential annual demand of 29.1 million tons of coal is involved.

TABLE 11. - Electric generating plants receiving coal conversion notices, by State

State	Number of plants	Number of units	Total capacity affected, megawatts	Total additional coal demand, million tons/yr
Alabama.....	1	1	25	0.1
Connecticut.....	3	8	1,381	3.4
Delaware.....	1	4	357	.8
Florida.....	1	2	965	2.2
Georgia.....	2	5	351	.8
Illinois.....	1	4	28	.1
Maryland.....	4	8	2,064	4.4
Massachusetts.....	4	8	1,731	3.7
Michigan.....	1	1	358	.8
New Hampshire.....	1	2	100	.2
New Jersey.....	3	5	582	1.0
New York.....	4	9	1,367	3.3
North Carolina.....	1	3	646	1.5
Pennsylvania.....	1	1	392	1.1
Virginia.....	3	10	2,380	5.5
Wisconsin.....	1	1	75	.2
Total.....	32	72	12,802	29.1

Previously Reported Energy Development Projects Which Are Completed or Canceled

Table 12 indicates that of the 594 energy development projects listed in IC 8725, 87 were completed and 19 were canceled.

TABLE 12. - Previously reported energy development projects which are completed or canceled, by State

State	Number of projects completed	Number of projects canceled	Total
Alabama.....	2	-	2
Connecticut.....	1	-	1
Delaware.....	-	1	1
Florida.....	9	3	12
Georgia.....	4	2	6
Illinois.....	8	1	9
Indiana.....	4	-	4
Kentucky.....	15	3	18
Maryland.....	2	-	2
Massachusetts.....	-	1	1
Michigan.....	5	-	5
Mississippi.....	-	1	1
New Jersey.....	3	-	3
New York.....	1	-	1
North Carolina.....	2	-	2
Ohio.....	1	1	2
Pennsylvania.....	8	2	10
South Carolina.....	2	-	2
Tennessee.....	-	2	2
West Virginia.....	19	-	19
Wisconsin.....	1	2	5
Total.....	87	19	106

#### LISTING OF FUTURE FUEL-RELATED PROJECTS IN THE EASTERN STATES

This section is an individual listing of fuel-related projects in the Eastern States (tables 13-149). The listing is segregated by State and by type of project. At the beginning of each State segment is an index map that indicates project locations (figs. 2-27). At the end of each State segment is a list of data sources.

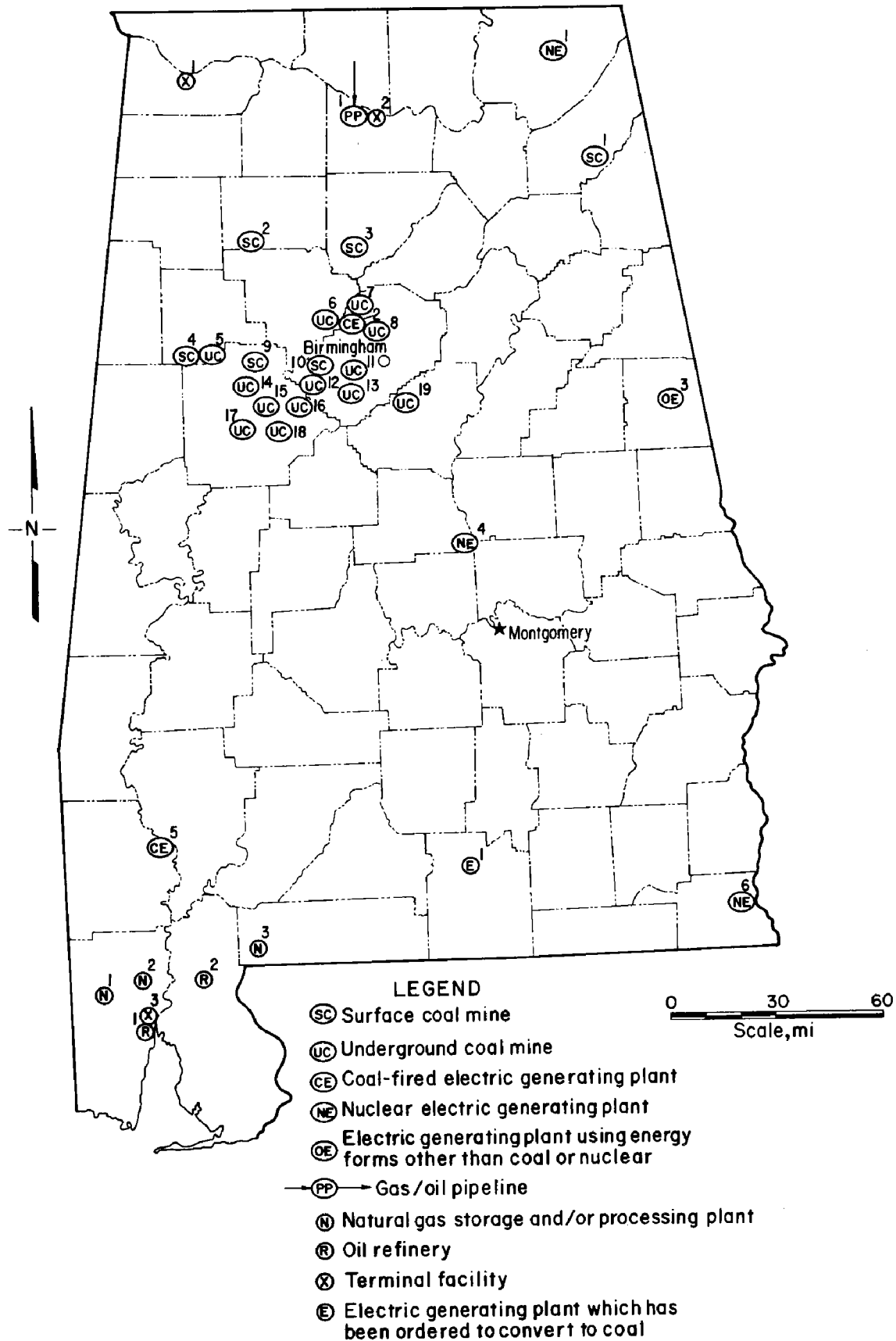


FIGURE 2: - Future fuel-related projects in Alabama.

TABLE 13. - Future coal mines in Alabama

Map ref. No.	Mine name and location	Operating company	Mine type	Planned capacity, million tons, and year	Bureau of Mines as-received analytical information	Coalbed thickness, inches	Depth or overburden thickness, feet	Remarks	Data sources
SC1	Unnamed mines (5) -- De Kalb and Cherokee Counties.	Canamex Coal Corp., subs. of Canamex Commodity Corp., San Francisco, CA	Strip.....	1.0 --1977	S--0.7-1.3% Btu--14,000-15,000 Ash--2.7-7.3 Moisture--1.0-2.5	Several beds totaling 40	-	Marketed as metallurgical and steam grade coal.	1, 2
SC2	Brilliant--Winston County.	Coalite, Inc., Div. Brilliant Coal Co., subs. of Great Northern Nekoosa Corp., Jasper, AL	...do.....	1.0 --1980	S--0.5-2.5% Btu--13,330-14,850 Ash--1.2-8.0 Moisture--1.9-5.8	28	-	Expansion of existing capacity. Marketed as steam grade coal.	1, 2
SC3	Unnamed--Cullman County.	King Coal Co., subs. of U.S. Home Corp., Clearwater, FL	...do.....	.3 --1977	S--0.8% Btu--14,230 Ash--4.9 Moisture--4.0	20	-	Marketed as metallurgical coal.	1
SC4	Unnamed mines (4-5) -- Tuscaloosa and Fayette County.	Alabama Fuel Sales Co., Birmingham, AL	...do.....	1.0 --1978	-	-	-	-	1
UC5	North River No. 1-- Fayette County.	Republic Steel, Cleveland, OH	Underground	2.0 --1978	S--0.5-2.7% Btu--12,800-14,060 Ash--3.5-13.9 Moisture--0.8-2.8	52	525	Expansion of existing capacity. Marketed as steam coal.	1, 2
UC6	North Mulga-- Jefferson County.	Mead Corp.-- Woodward, AL	...do.....	.5 --1980	S--0.5-2.7% Btu--12,800-14,060 Ash--3.5-13.9 Moisture--0.8-2.8	34-66	-	New mine. Marketed as metallurgical coal.	1, 2
UC7	Mary Lee No. 2-- Walker County.	Alabama Byproducts Corp. Birmingham, AL	...do.....	.75--1978	S--0.5-2.6% Btu--11,660-13,800 Ash--6.8--16.7 Moisture--1.2-4.0	42	580	Expansion of existing capacity. Marketed as metallurgical coal.	1, 2
UC8	Nebo--Jefferson County	Jim Walter Resources, Inc., Birmingham, AL	...do.....	.25--1977	S--0.5--2.6% Btu--12,800 Ash--6.8--16.7 Moisture--1.2-4.0	52	500	Marketed as metallurgical coal.	1
SC9	Unnamed mines-- Tuscaloosa, Walker, and Cullman Counties.	Drummond Co., Jasper, AL	Strip.....	3.0 --1983	S--0.7-1.5% Btu--12,230-14,630 Ash--5.2-16.3 Moisture--1.8-5.7	-	-	Marketed as steam and metallurgical coal.	1
SC10	Unnamed--Jefferson County.	Burgess Mining & Construction Co., Birmingham, AL	...do.....	.25 --1978	-	30	-	New mine	1

TABLE 13. - Future coal mines in Alabama--Continued

Map ref. No.	Mine name and location	Operating company	Mine type	Planned capacity, million tons, and year	Bureau of Mines as-received analytical information	Coalbed thickness, inches	Depth or overburden thickness, feet	Remarks	Data sources
UC11	Mary Lee--Jefferson County.	Mead Corp., Woodward, AL	Underground	1.0 --1984	S--0.5-2.6% Btu--11,600-13,800 Ash--6.8-16.7 Moisture--1.2-4.0	42	-	New mine still in planning stage. Marketed as metallurgical coal.	1, 2
UC12	Oak Grove--Jefferson County.	U.S. Steel Corp., Pittsburgh, PA	.....do.....	3.0 --1978	S--0.7-1.0% Btu--13,340-13,790 Ash--8.7-19.8 Moisture--2.4-3.9	54	1,300	Expansion of existing capacity. Marketed as metallurgical coal.	1, 2
UC13	Blue Creek No. 3--Jefferson County.	Jim Walter Resources, Inc., Birmingham, AL	.....do.....	1.5 --1979	S--0.7-1.0% Btu--13,530 Ash--8.7-19.8 Moisture--2.4-3.9	41-78	1,500	Expansion of existing capacity. Marketed as metallurgical and steam coal.	1, 2
UC14	Blue Creek--Tuscaloosa County.	Mead Corp., Woodward, AL	.....do.....	.4 --1985	S--0.7-1.0% Btu--13,340-13,790 Ash--6.8-19.8 Moisture--2.4-3.9	41-78	-	New mine. Marketed as metallurgical coal.	1, 2
UC15	Blue Creek No. 7--Tuscaloosa County.	Jim Walter Resources, Inc., Birmingham, AL	.....do.....	2.0 --1981	S--0.7-1.0% Btu--13,530 Ash--6.8-19.8 Moisture--2.4-3.9	41-78	2,500	.....do.....	1, 2
UC16	Blue Creek No. 4--Tuscaloosa County.	Jim Walter Resources, Inc., Birmingham, AL	.....do.....	2.0 --1980	S--0.7-1.0% Btu--13,530 Ash--8.7-19.8 Moisture--2.4-3.9	41-78	2,000	New mine. Marketed as steam coal.	1, 2
UC17	Tuscaloosa--Kellerman, Tuscaloosa County.	Federal Resources Corp., Salt Lake City UT	.....do.....	2.0 --1981	S--0.7% Btu--14,000 Ash--9.5	-	1,500	New mine. Marketed as metallurgical coal.	1, 2
UC18	Blue Creek No. 5--Tuscaloosa County.	Jim Walter Resources, Inc., Birmingham, AL	.....do.....	2.0 --1981	S--0.7-1.0% Btu--13,530 Ash--8.7-19.8 Moisture--2.4-3.9	41-78	2,500	New mine. Marketed as metallurgical coal.	1, 2
UC19	Gurnee, Shelby County.	United States Steel Corp., Pittsburgh, PA	.....do.....	.5 --?	S--0.7% Btu--14,150 Ash--3.1 Moisture--4.0	40	-	Planning stage....	1

TABLE 14. - Future electric generating plants in Alabama

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
NE1	Bellefonte-Scottsboro, Jackson County.	Tennessee Valley Authority, Chattanooga, TE	Nuclear.....	1	1,213	1980	-	1, 3
				2	1,213			
					2,426			
CE2	James Miller (West Jefferson)--Jefferson County.	Alabama Power Co., Birmingham, AL	Coal--3.8.....	1	662	1978	-	1, 3
				2	662	1981		
				3	662	1982		
				4	662	1983		
					2,648			
OE3	Harris--Wedowee, Randolph County.	.....do.....	Hydroelectric	1	135	1979	-	1
				2	135	1979		
					270			
NE4	Alan Barton--Chilton County.	.....do.....	Nuclear.....	1-4	4,800	-	Postponed indefinitely	1
CE5	Tombigbee--Washington County.	Alabama Electric Cooperative Inc., Andalusia, AL	Coal--0.6.....	2	210	1978	-	1, 3
				3	210	1979		
					420			
NE6	Joseph Farley--Dontham, Houston County.	Alabama Power Co., Birmingham, AL	Nuclear.....	1	807	1977	-	1, 3
				2	807	1979		
					1,614			

TABLE 15. Future petroleum and natural gas pipelines in Alabama

Map ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Remarks	Data sources
		Origin	Destination						
PP1...	Amoco Pipeline Co., Chicago, IL	Whiting, IN	Decatur, AL	500	Oil	Jan. 1978	8	-	4

TABLE 16. - Future terminal facilities in Alabama

Map ref. No.	Terminal location	Operating company	Type	Capacity	Initial operating date	Remarks	Data sources
X1..	Pride, Colbert County.	Southern Railway, Washington, D.C.	Coal transloader	10-12 MM tons/yr	1977	Barge to rail, full capacity expected in 5 years.	1, 5
X2..	Decatur, Morgan County.	Alabama State Docks Dept. Mobile, AL	.....do.....	80,000 tons/yr.	1977	Rail to barge, mile 301.3 on the Tennessee River.	6
X3..	Jacintoport, Mobile County.	Mobile River Coal Handling Facility, Inc., Mobile, AL	Coal storage and handling	10 MM tons/yr	-	Storage facility for McDuffie Terminal near Mobile, AL.	1

TABLE 17. - Future oil refineries in Alabama

Map ref. No.	Refinery name and location	Operating company	Initial operating date	Throughput thousand bbl/day of crude oil	Remarks	Data sources
R1..	Jacintoport--near Saraland, Mobile County.	Louisiana Land and Exploration Co., New Orleans, LA	1977	30	-	1
R2..	Stockton--Baldwin County....	Tensaw Refining Co.	-	5	-	1

TABLE 18. - Future natural gas processing and storage facilities in Alabama

Map ref. No.	Facility name and location	Operating company	Initial operating date	Throughput or storage capacity, Mcf	Remarks	Data sources
N1..	Mallard--near Atmore, Escambia County.	Mallard Exploration, Inc., Midland, TX	1977	70,000+	Expansion of capacity to 130,000 Mcf.	1
N2..	Hatters Pond--Mobile County.	Getty Oil Co., Houston, TX	1978	35,000+	Expansion of capacity to 50,000 Mcf.	1
N3..	Chunchula--Mobile County..	Union Oil Co., Los Angeles, CA	1977	14,000	-	1

TABLE 19. - Generating plants receiving preliminary ESECA notice to convert to coal in Alabama

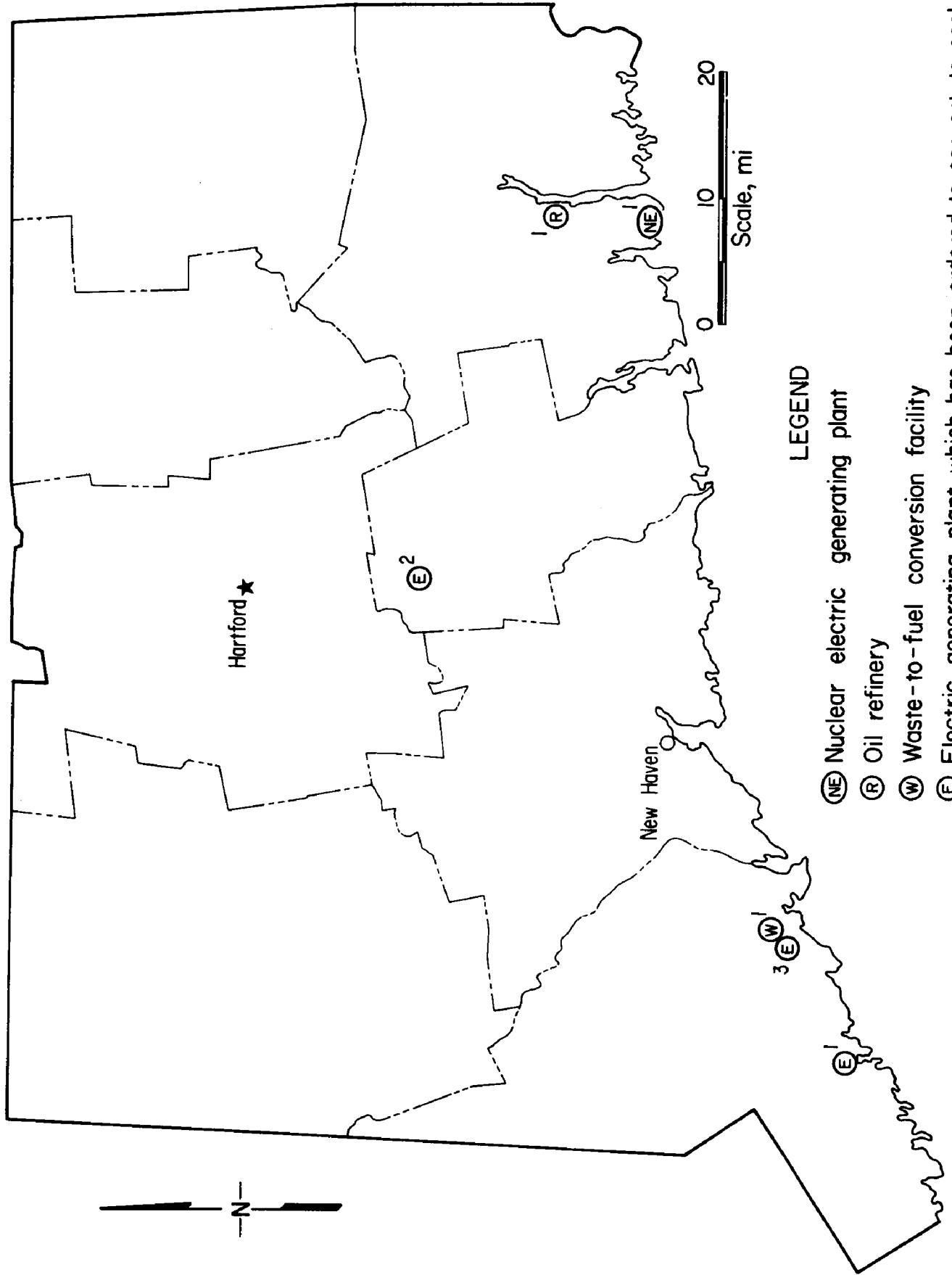
Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity, megawatts	Remarks	Data sources
E1..	McWilliams No. 3-- Gantt, Covington County.	Alabama Power Cooperative, Inc., Andalusia, AL	Gas to coal-- 0.1.	25	Received prohibition order June 30, 1975.	7

TABLE 20. - Previously reported energy development projects which have been completed or canceled in Alabama

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Alabama Byproducts Corp., Birmingham, AL	Unnamed surface mine-- Jefferson County.	-	1977	Now operating at full capacity.
Tennessee Valley Authority, Chattanooga, TN	Browns Ferry--Decatur, Morgan County.	-	1976	Unit 3 now operational.

## List of Data Sources for Alabama

1. U.S. Bureau of Mines State Liaison Officer for Alabama.
2. Coal Age, February 1977.
3. National Coal Association. Steam-Electric Plant Factors, 1976. 128 pp.
4. Oil and Gas Journal, Oct. 6, 1975.
5. Coal Age, November 1975.
6. American Waterways Operators, Inc. 1973 Waterside Plant Locations and Expansions. A study of Economic Growth, Apr. 1, 1974. 9 pp.
7. Federal Energy Administration. Implementing Coal Utilization Provisions of Energy Supply and Environmental Coordination Act, April 1976.



LEGEND

- Ⓝ Nuclear electric generating plant
- Ⓜ Oil refinery
- Ⓜ Waste-to-fuel conversion facility
- Ⓝ Electric generating plant which has been ordered to convert to coal

FIGURE 3. - Future fuel-related projects in Connecticut.

TABLE 21. - Future electric generating plants in Connecticut

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
NE1.	Millstone Nuclear Power Station--Hartford, New London County.	Northeast Utilities Service Co., Hartford, CT	Nuclear.....	3	1,150	1982	-	1, 2

TABLE 22. - Future waste-to-fuel conversion plants in Connecticut

Map ref. No.	Plant name and location	Operating company	Type and feedstock	Initial operating date	Estimated capacity	Remarks	Data sources
W1..	Unnamed--Bridgeport, Fairfield County.	Connecticut Resources Recovery Authority, Hartford, CT	Solid waste.	1978	1,700 tons per day.	Will yield 34 billion Btu's per day in powdered waste to be used as boiler fuel.	1

TABLE 23. - Future oil refineries in Connecticut

Map ref. No.	Refinery name and location	Operating company	Initial operating date	Throughput capacity, thousand bbl/day of crude oil	Remarks	Data sources
R1..	IN-O-VEN--New London, New London County.	IN-O-VEN Corp., Old Greenwich, CT (International Oil Ventures).	-	400	Proposed--site would include a tanker terminal.	1

TABLE 24. - Generating plants receiving preliminary ESECA notice to convert to coal in Connecticut

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity, megawatts	Remarks	Data sources
E1..	Norwalk Harbor Fairfield County.	Northeast Utilities Service Company Hartford, CT	Oil to coal-- 0.9.	322	Received prohibition order June 30, 1977.	3, 4
E2..	Middletown (3 units)-- Middletown, Middlesex County.	.....do.....	Oil to coal-- 1.2.	416	.....do.....	3, 4
E3..	Bridgeport Harbor (3 units)--Bridgeport, Fairfield County.	United Illuminating Co., New Haven, CT	Oil to coal-- 1.3.	643	Received notice of intent April 25, 1977.	3, 5

TABLE 25. - Previously reported energy development projects which have been completed or canceled in Connecticut

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Combustion Engineering, New York, NY	Coal conversion plant-- Windsor, Hartford County	-	1976	-

## List of Data Sources for Connecticut

1. U.S. Bureau of Mines State Liaison Officer for Connecticut.
2. National Coal Association. Steam-Electric Plant Factors, 1976. 128 pp.
3. Coal Age, June 1977.
4. Federal Energy Administration. Federal Energy News, June 30, 1977.
5. \_\_\_\_\_. Federal Energy News, Apr. 25, 1977.

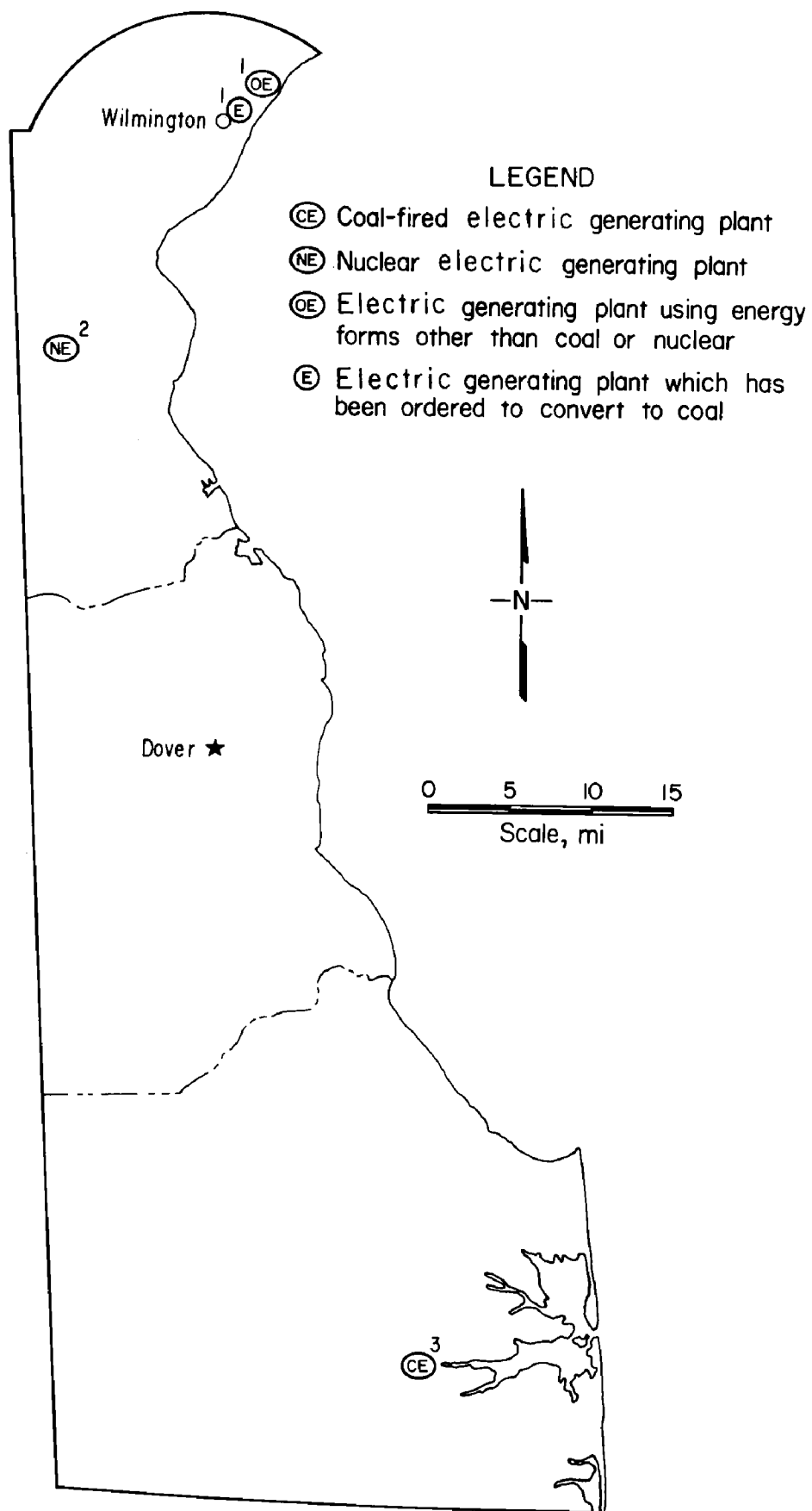


FIGURE 4. - Future fuel-related projects in Delaware.

TABLE 26. - Future electric generating plants in Delaware

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
OE1.	Edge Moor--Edge Moor, New Castle County.	Delmarva Power and Light Co. (Northern Div.), Wilmington, DE	Oil.....	5	800	-	4 of the 5 units located at this site can be converted to coal.	1, 4
NE2.	Summit Power--Summit, New Castle County.	.....do.....	Nuclear..	1	770	1987	Site location has been approved by the board of directors; awaiting licensing by the Nuclear Regulatory Commission.	1, 2
CE3.	Indian River-- Millsboro, Sussex County.	Delmarva Power and Light Co. (Southern Div.), Salisbury, MD	Coal.....	4	400	1979	Addition of new unit at existing facility.	1, 3

TABLE 27. - Generating plants receiving preliminary ESECA notice to convert to coal in Delaware

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity, megawatts	Remarks	Data sources

TABLE 28. - Previously reported energy development projects which have been completed or canceled in Delaware

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Delmarva Power and Light Co., Wilmington, DE	Summit Power Unit 2--Summit, New Castle County.	1977	-	-

## List of Data Sources for Delaware

1. U.S. Bureau of Mines State Liaison Officer for Delaware.
2. U.S. Energy Research and Development Administration. Nuclear Power Reactors in the United States, Dec. 31, 1975.
3. National Coal Association. Steam-Electric Plant Factors, 1976. 128 pp.
4. Electrical World. New Capacity Additions Planned or in Construction (as of April 1, 1975). 65 pp.
5. Federal Energy Administration. Implementing Coal Utilization Provisions of Energy Supply and Environmental Coordination Act, April 1976.

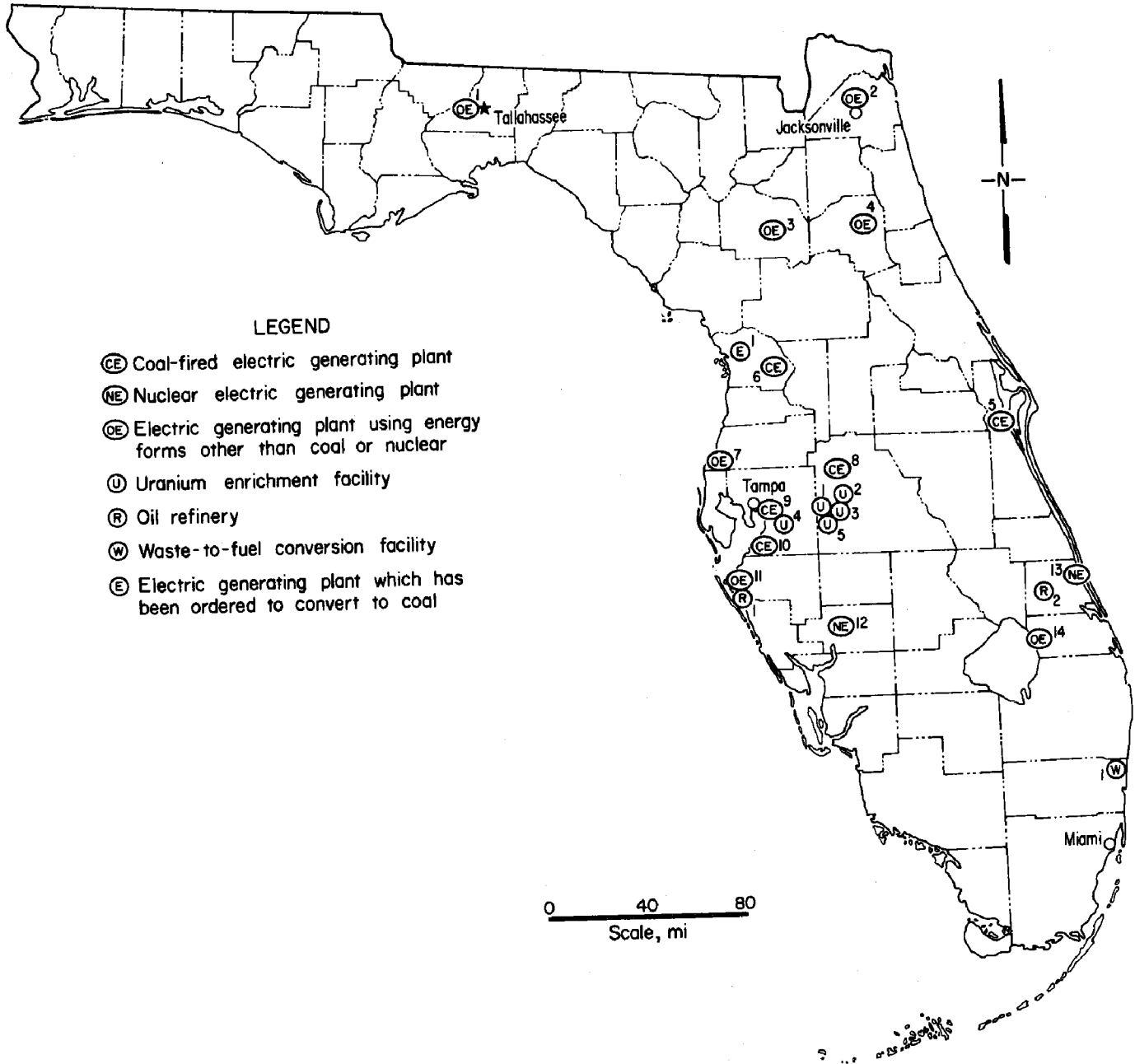


FIGURE 5. - Future fuel-related projects in Florida.

TABLE 29. - Future electric generating plants in Florida

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
OE1.	Hopkins--Tallahassee, Leon County.	City of Tallahassee, Tallahassee, FL	Oil.....	2	235	1977	-	1, 2
				3	50	1984		
OE2.	Northside--Jacksonville, Duval County.	Jacksonville Electric Authority, Jacksonville, FL	Oil.....	3	285	1977	-	1, 2
					518			
OE3.	Dearhaven--Gainesville, Alachua County.	City of Gainesville, Gainesville, FL	Oil.....	2	235	1981	-	1, 2
OE4.	Putnam--Palatka, Putnam County.	Florida Power & Light Co., Miami, FL	Oil.....	1	290	1977	Combined cycle.	1
				2	290	1977		
CE5.	Indian River--Rockledge, Brevard County.	Orlando Utilities Commission, Orlando, FL	Coal or nuclear.	1	580	1982	-	1
					108			
CE6.	Crystal River Plant--Crystal River, Citrus County.	Florida Power Corp., St. Petersburg, FL	Coal--1.4	4	600	1982	-	1, 2
				5	600	1984		
OE7.	Anclote--New Port Richey, Pasco County.	.....do.....	Oil.....	1	1,200	1978	-	1, 2
					515			
CE8.	McIntosh--Lakeland, Polk County.	City of Lakeland, Lakeland, FL	Coal--0.3	3	250	1982	-	1, 2
CE9	Big Bend--Tampa, Hillsborough County.	Tampa Electric Co., Tampa, FL	Coal--0.6	1c	25	1977	-	1
				2c	25	1977		
				4	425	1986		
CE10	Beakon Key--Ruskin, Hillsborough County.	.....do.....	Coal--0.5	-	475	1985	-	1, 2
					425			
OE11	Manatee--Port Manatee, Manatee County.	Florida Power & Light Co., Miami, FL	Oil.....	2	850	1977	-	1, 2
NE12	De Soto--Arcadia, De Soto County.	.....do.....	Nuclear..	1	1,250	1985	-	1
NE13	St. Lucie Plant--Fort Pierce, St. Lucie County.	.....do.....	.....do.....	2	820	1983	-	1, 2
OE14	Martin--Lake Okeechobee, Martin County.	.....do.....	Oil.....	1	850	1981	-	1, 2
				2	850	1982		
					1,700			

TABLE 30. - Future waste-to-fuel conversion plants in Florida

Map ref. No.	Plant name and location	Operating company	Type and feedstock	Initial operating date	Estimated capacity	Remarks	Data sources
W1..	Ref Com--Pompano Beach, Broward County	Waste Management, Inc., Pompano Beach, FL	Gasification	1978	100 tons of solid waste per day.	Construction started Feb. 2, 1977. Project is federally funded by ERDA.	1

TABLE 31. - Future oil refineries in Florida

Map ref. No.	Refinery name and location	Operating company	Initial operating date	Throughput capacity, thousand bbl/day of crude oil	Remarks	Data sources
R1..	Belcher--Port Manatee, Manatee County.	Belcher Oil Co., Miami, FL	-	15	Proposed.....	1
R2..	Unnamed--Radenburg Ranch, St. Lucie County.	Ashland Petroleum Co., Ashland, KY	-	250	Land has recently been acquired.	1

TABLE 32. - Future uranium mills and enrichment facilities in Florida

Map ref. No.	Plant name and location	Operating company	Type	Initial operating date	Planned capacity, lb/yr concentrated	Remarks	Data sources
A1..	Unnamed--Mulberry, Polk County.	United Nuclear Corp., Elmstead, NY, and International Minerals and Chemical Co., Libertyville, IL	Acid separation	1977	300,000	Two modules to be installed at the IMC Co. phosphoric acid plant in Mulberry, FL	1, 3, 4, 5.
A2..	Unnamed--Bartow, Polk County.	United Nuclear Corp., Elmstead, NY, and W. R. Grace Co., Cambridge, MA	.....do.....	1977	300,000	One module completed and another being built at the Grace phosphoric acid plant in Bartow, FL. First commercial production reported.	1, 3, 4, 5.
A3..	Unnamed--near Bartow Polk County.	United Nuclear Corp., Elmstead, NY	.....do.....	1977	450,000	Secondary concentration facility.	1, 3, 4, 5.
A4..	Unnamed--East Tampa, Hillsborough County	Gardiner, Inc., East Tampa, FL	.....do.....	-	-	Permitted by Florida Department of Health Services.	1
A5..	Unnamed--Mulberry, Polk County.	Westinghouse Electric Corp., Lakeland FL, and Farmland Industries, Mulberry, FL	.....do.....	1979	400,000	Applied for operating permit from the Florida Department of Health Service.	1

TABLE 33. - Generating plants receiving preliminary ESECA notice to convert to coal in Florida

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity, megawatts	Remarks	Data sources
El..	Crystal No. 1 and 2--Red Level, Citrus County.	Florida Power Corp., St. Petersburg, FL	Oil to coal-- 2.2.	965	Received prohibition notice June 30, 1975.	6

TABLE 34. - Previously reported energy development projects which have been completed or canceled in Florida

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
City of Gainesville, Gainesville, FL	Deer Haven Units A and B-- Gainesville, Alachua County.	-	1976	-
Florida Power Corp., St. Petersburg, FL	Crystal River Plant Unit 3--Red Level, Citrus County.	-	1976	Went on-stream early 1977.
Do.....	DeBary Units 1-6-- Volusia County.	-	1976	-
City of Lakeland, Lakeland, FL	Plant No. 3, Unit 2-- Lakeland, Polk County.	-	1976	-
Tampa Electric Co., Tampa, FL	Big Bend Unit 3--Tampa, Hillsborough County.	-	1976	-
Florida Power & Light Co., Miami, FL	Manatee Unit 1-- Port Manatee, Manatee County.	-	1976	-
City of Vero Beach, Vero, Beach, FL	Municipal Plant Unit No. 4--Vero Beach, Indian River County.	-	1976	-
City of Ft. Pierce, Ft. Pierce, FL	King Unit No. 8-- Fort Pierce, St. Lucie County.	-	1976	-
Florida Power & Light Co., Miami, FL	St. Lucie Plant, Unit 1-- Fort Pierce, St. Lucie County.	-	1976	-
Florida Power & Light Co., Miami FL	South Dade Unit 1-- South Dade, Dade County.	1976	-	-
Do.....	South Dade Unit 2-- South Dade, Dade County.	1976	-	-
Key West Utilities Board, Key West, FL	Unnamed--Key West, Monroe County.	1976	-	-

## List of Data Sources for Florida

1. U.S. Bureau of Mines State Liaison Officer for Florida.
2. National Coal Association. Steam-Electric Plant Factors, 1976. 128 pp.
3. Engineering and Mining Journal, October 1975.
4. \_\_\_\_\_. March 1976.
5. \_\_\_\_\_. January 1976.
6. Federal Energy Administration. Implementing Coal Utilization Provisions of Energy Supply and Environmental Coordination Act, April 1976.

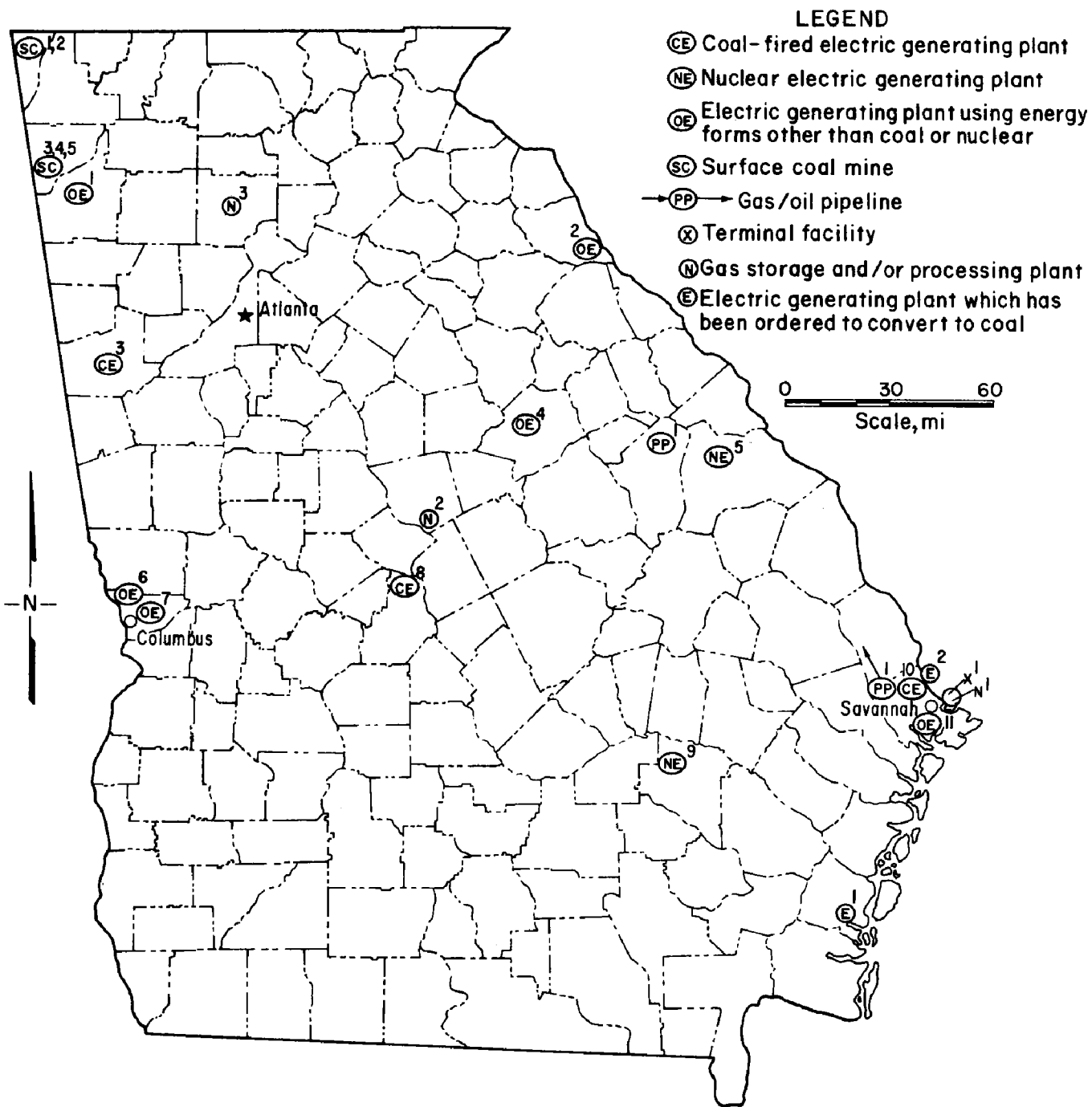


FIGURE 6. - Future fuel-related projects in Georgia.

TABLE 35. - Future coal mines in Georgia

Map ref. No.	Mine name and location	Operating company	Mine type	Planned capacity, million tons, and year	Analytical information	Coalbed thickness, inches	Depth or overburden thickness, feet	Remarks	Data sources
SC1.	H.M.R. mine--Dade County.	H.M.R. Coal Co., Chattanooga, TN	Surface	0.05	-	22	75	Etna coalbed. New mine.	1
SC2.	Unnamed--Dade County...	International Resources, Inc., Chattanooga, TN	...do..	-	-	-	-	Permit application has been filed for 6 acres.	1
SC3.	Southeastern Metallurgical.	Southeastern Metallurgical....	...do..	-	-	10-12	50	Permit application has been filed for 15 acres.	1
SC4.	Unnamed--Chattooga County.	Morcoal, Inc., Menlo, GA.....	...do..	-	-	-	-	Permit application has been filed for 85 acres.	1
SC5.	Unnamed--Chattooga County.	Allied Associates, Montgomery, AL	...do..	-	-	-	-		1

TABLE 36. - Future electric generating plants in Georgia

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
OE1.	Rocky Mountain--Rome, Floyd County.	Georgia Power Co., Atlanta, GA	Hydroelectric	2	675	1981	Encountering environmental opposition.....	1
OE2.	Richard B. Russell Dam--Elberton, Elbert County.	U.S. Army Corps of Engineers.	.....do.....	-	600	?	Project under review by Executive Branch, U.S. Govt. will include pumped storage facility.	1
CE3.	Wansley Plant--Carroll and Heard Counties.	Georgia Power Co., Atlanta, GA	Coal--1.5.....	2	865	1978	Oglethorpe Electric Membership Corp. (OEMC) owns 30% undivided interest. Municipal Electric Authority of Georgia (MEAG) will purchase 10%. Application has been made to the Federal Power Commission for new units.	1, 2
OE4.	Wallace Dam--Sparta, Hancock County.	.....do.....	Hydroelectric	1-6	321	1980	Application has been made to the Federal Power Commission for new units.	1
NE5.	Alvin W. Vogtle--Waynesboro, Burke County.	.....do.....	Nuclear.....	2	1,160	1983	OEMC plans to purchase 30% interest. Contingent on financing, MEAG and the city of Dalton, GA, will purchase 17.7% and 1.6% interest, respectively.	1, 2
OE6.	Bartlett's Ferry--Harris County, GA, and Lee and Chambers Counties, AL	.....do.....	Hydroelectric	5-6	2,320	1980	Application has been made to the Federal Power Commission for new units.	1
OE7.	Goat Rock--5 mi N of Columbus, Harris County, GA and Lee County, AL	.....do.....	.....do.....	7-8	67	1980	.....do.....	1
CE8.	Scherer Plant--Forsyth, Monroe County.	.....do.....	Coal--4.8.....	1	818	1981	Georgia Power proposes to sell 30% interest to OEMC.	1, 2
NE9.	Edwin I. Hatch Baxley, Appling County.	.....do.....	Nuclear.....	2	818	1982		1, 2
CE10.	Port Wentworth--Savannah, Chatham County.	Savannah Electric and Power Co., Savannah, GA	Coal--0.4.....	1	818	1984		1, 2
OE11.	Effingham--near Savannah, Chatham County.	.....do.....	Oil.....	3	818	1985		1, 2
				1	3,272	1977	OEMC owns 30% undivided interest. Contingent on financing, MEAG and the city of Dalton, GA, will purchase 10% and 2.2%, respectively.	1
				2	820	1978		1, 2
				1	50	1978		1, 2
				2	54	1978		1, 2
				3	103	1978		1, 2
				1	207	1978		1, 2
				1	850	1978		1, 2

TABLE 37. Future petroleum and natural gas pipelines in Georgia

Map ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Remarks	Data sources
		Origin	Destination						
PPI.	Southern Natural Gas Co., Birmingham, AL	Savannah, Chatham County	Wrens, Jefferson County	105	Gas.	1978	30	-	7

TABLE 38. - Future terminal facilities in Georgia

Map ref. No.	Terminal location	Operating company	Type	Capacity	Initial operating date	Remarks	Data sources
X1..	Elba Island, near Savannah, Chatham County	Southern Natural Gas Co., Birmingham, AL	Offshore LNG.	Storage in three 169-ft-diam tanks, 113 ft deep	1978	Gas originates at Hassi R 'Mel in Sahara and is piped 315 mi to Arzew, Algeria, for liquid conversion at -250° F. 9 tankers will make 142 round trips/year.	6

TABLE 39. - Future natural gas processing and storage facilities in Georgia

Map ref. No.	Facility name and location	Operating company	Initial operating date	Throughput or storage capacity, thousand cu ft	Remarks	Data sources
N1..	Elba Island LNG project-- Savannah, Chatham County	Southern Natural Gas Co., Birmingham, AL	1978	350,000/day	Facility 85% complete as of 3/1977.	1, 3, 4, 5.
N2..	Macon LNG Plant-- Jones County.	Atlanta Gas Light Co., Atlanta, GA	1978	450,000 bbl	Storage.....	1
N3..	Cherokee LNG Storage Facility--Cherokee County	.....do.....	-	450,000 bbl	Land acquisition complete.	1

TABLE 40. - Generating plants receiving preliminary ESECA notice to convert to coal in Georgia

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity, megawatts	Remarks	Data sources
E1..	McManus No. 1 and 2-- Brunswick, Glynn County	Georgia Power Co., Atlanta, GA	Oil to coal-- 0.3.	144	Received prohibition order June 30, 1975.	10
E2..	Port Wentworth No. 1, 2, and 3--Port Wentworth, Chatham County.	Savannah Electric & Power Co., Savannah, GA	Oil and gas to coal--0.5	207	.....do.....	10

TABLE 41. - Previously reported energy development projects which have been completed or canceled in Georgia

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Colonial Pipeline Co., Atlanta, GA	Origin--Powder Springs, Cobb County.	-	1976	-
Southern Natural Gas Co., Birmingham, AL	Origin--Elba Island.....	-	1976	-
Georgia Power Co., Atlanta, GA	McManus --Brunswick, Glynn County	-	1976	Conversion from oil to coal complete.
Alabama Metallurgical Coals Inc., Montgomery, AL	Unnamed--near Cloudland, Chattooga County.	1976	-	-
Hoover Co.....	Unnamed--near Trenton, Dade County.	1976	-	-
Georgia Power Co., Atlanta, GA	Wansley Plant; Unit 1-- Carrollton, Carroll County.	-	1976	-

## List of Data Sources for Georgia

1. U.S. Bureau of Mines State Liaison Officer for Georgia.
2. National Coal Association. Steam-Electric Plant Factors, 1976. 128 pp.
3. Engineering News Record. June 26, 1975.
4. Business Week, Oct. 13, 1975.
5. Savannah Morning News, Mar. 29, 1977.
6. \_\_\_\_\_. Apr. 22, 1977.
7. Oil and Gas Journal, Oct. 6, 1975.

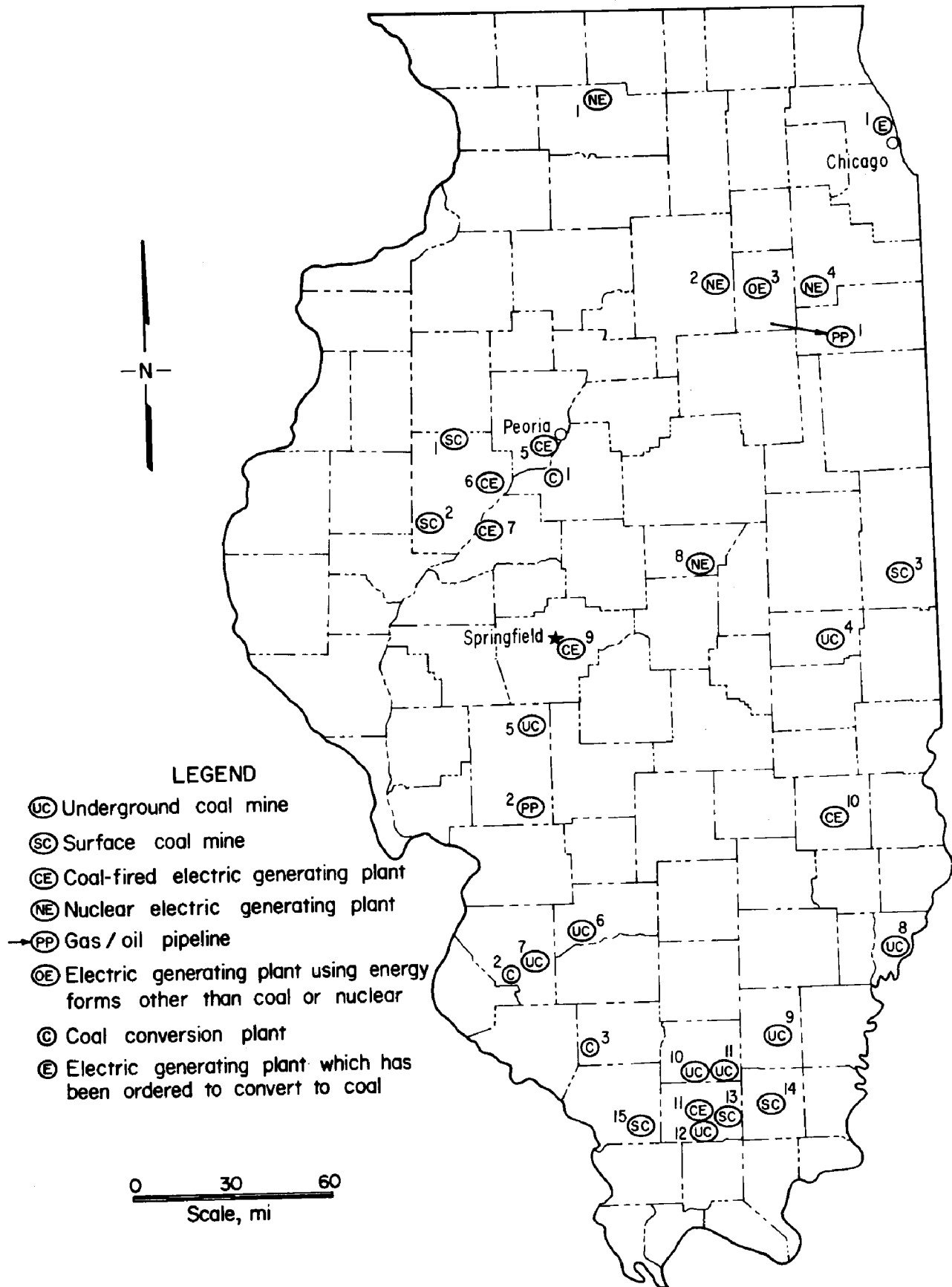


FIGURE 7. - Future fuel-related projects in Illinois.

TABLE 42. - Future coal mines in Illinois

Map ref. No.	Mine name and location	Operating company	Mine type	Planned capacity, million tons, and year	Bureau of Mines as-received analytical information	Coalbed thickness, inches	Depth or overburden thickness, feet	Remarks	Data sources
SC1.	Repatee--Fulton County...	Midland Coal Co., Trivoli, IL	Surface....	0.2--1976 .7--1978	-	V and VI--48	65	New mine. Marketed as steam coal.	1, 3
SC2.	Sunset--Vermont, Fulton County.	Amax Coal Co., Indianapolis, IN	....do.....	1.2--1978	-	-	-	Expansion of existing capacity. Marketed as steam coal	3
SC3.	Ayreat--Catlin, Vermilion County.	.....do.....	....do.....	1.5--?	-	-	-	New mine planned. Still does not have permit to mine coal	1, 3
UC4.	Zeigler No. 5--Murdock, Douglas County.	Zeigler Coal Co., Chicago, IL	Underground	2.2--1976 3.0--1977	-	VI	-	Expansion of existing capacity. Marketed as steam coal	1, 3
UC5.	Crown No. 2--Macoupin County.	Freeman--United Coal Mining Co., Chicago, IL	....do.....	.5--1976 2.0--1977 2.4--1978	-	VI--84	330	New mine. Marketed as steam coal.	1, 3
UC6.	Monterey No. 2--Clinton County.	Monterey Coal Co., Carlinville, IL	....do.....	.1--1976 .6--1977 3.6--1980	-	VI--88	320	.....do.....	1, 3
UC7.	Zeigler No. 11--St. Clair County.	Zeigler Coal Co., Chicago, IL	....do.....	.3--1976 .7--1977 1.5--1979	-	84	200	.....do.....	1, 3
UC8.	Wabash--Wabash County....	Amax Coal Co., Indianapolis, IN	....do.....	2.6--1977 3.6--1979	S--2.5% Ash--10.0% Btu--11,000	V--80	800	Expansion of existing capacity. Marketed as steam coal	1, 3
UC9.	Inland No. 2--McLeansboro, Hamilton County.	Inland Steel Co., Chicago, IL	....do.....	.5--1978 1.5--1979 2.5--1981	-	V--66	950	New mine. Marketed as steam coal.	1, 3
UC10.	Old Ben No. 25--West Frankfort, Franklin County.	Old Ben Coal Co., Chicago, IL	Underground	2.0--1979	-	VI--96	600	New mine. Marketed as steam coal.	1, 3
UC11.	Old Ben No. 27--West Frankfort, Franklin County.	.....do.....	....do.....	2.0--1979	-	VI--86	600	.....do.....	1, 3
UC12.	Zeigler No. 6--Marion, Williamson County.	Zeigler Coal Co., Chicago, IL	....do.....	.5--1978 2.0--1981	-	-	-	New mine. Planned to replace No. 4 mine.	1, 3
SC13.	Crab Orchard--Grab Orchard, Williamson County.	Amax Coal Co., Indianapolis, IN	Surface.....	1.0--1981	-	-	-	New mine. Very tentative.	1, 3
SC14.	New Delta--Saline County.	.....do.....	....do.....	.8--1976 2.4--1978	-	-	-	Expansion of existing capacity. Marketed as steam coal	1, 3
SC15.	Burningstar No. 5--De Soto, Jackson County.	Consolidation Coal Co., Pittsburgh, PA	....do.....	1.0--1976 2.8--1977	-	-	100	New mine. Marketed as steam coal.	1, 3

TABLE 43. - Future electric generating plants in Illinois

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
NE1.	Byron Station--Byron, Ogle County.	Commonwealth Edison Co., Chicago, IL	Nuclear.....	1	1,120	1980	-	2, 8
				2	1,120	1982	-	2, 8
					2,240			
NE2.	La Salle County Nuclear Station--La Salle County.	Commonwealth Edison Co., Hammond, IN	.....do.....	1	1,078	1979	-	2, 8
				2	1,078	1979	-	
					2,156			
OE3.	Collins--Morris, Grundy County.	Commonwealth Edison Co., Chicago, IL	Oil.....	1	515	1978	-	2
				2	510	1977		
				3	500	1977		
				4	505	1978		
				5	505	1979		
					2,535			
NE4.	Braidwood--Braidwood, Will County.	.....do.....	Nuclear.....	1	1,120	1981	-	2, 8
				2	1,120	1982		
					2,240			
				4	500	1982	-	6
CE5.	Edwards--Bartonville, Peoria County.	Central Illinois Light Co., Peoria, IL	Coal--1.3.....	2	400	1982	-	2
CE6.	Duck Creek--Canton, Fulton County.	.....do.....	Coal--1.1.....	2	400	1982	-	2
CE7.	Havana--Havana, Mason County.	Illinois Power Co., Decatur, IL	Coal--1.2.....	6	450	1978	-	2, 8
NE8.	Clinton Nuclear Power Plant--Clinton, De Witt County.	.....do.....	Nuclear.....	1	950	1981	-	2, 8
				2	950	1984		
					1,900			
CE9.	V. Y. Dallman--Springfield, Sangamon County.	City of Springfield, Springfield, IL	Coal--0.5.....	3	175	1978	-	2
CE10	Newton--Newton, Jasper County.	Central Illinois Public Service, Springfield, IL	Coal--3.3.....	1	550	1977	-	2
				2	550	1981		
				3	550	1984		
					1,650			
CE11	Marion--Marion, Williamson County.	Southern Illinois Power Corp., Marion, IL	Coal--0.8.....	4	173	1978	-	2, 6
				5	150	1983		
					323			

TABLE 44. - Future coal conversion plants in Illinois

Map ref. No.	Plant name and location	Operating company	Type and process	Initial operating date	Estimated capacity	Remarks	Data sources
C1..	Powerton Project-- Pekin, Tazewell County. Coal Conversion Demonstration Plant--New Athens, St. Clair County.	Commonwealth Edison Co., Chicago, IL Coalcon, New York, NY	Gasification-- Lurgi.  Hydrocarbonization	1978  ?	192 MMcf/day (low--Btu gas). 22 MMcf/day 3,900 bbl/day	Demonstration.....  Would have consumed 2,600 tons of coal per day. Demonstration has turned up design/process defi- ciencies. Future opera- tion and assessment contingent upon resolu- tion of problems. 20-month design period if contract is awarded. 2,000 tons of Perry County coal would be used per day in the demonstration plant.	1, 4  1, 7
C3..	Illinois Coal Gasification Group (ICGG)-- Near Cutler, Perry County.	ERDA contract with (1) Northern Illinois Gas Co., Aurora, IL (2) Peoples Gas, Light & Coke Co., Chicago, IL (3) Central Illinois Public Service Co., Springfield, IL (4) Central Illinois Light Co., Peoria, IL (5) North Shore Gas Co., Waukegan, IL	High--Btu gasifi- cation--COGAS.	?	18 MMcf/day 2,400 bbl/day syncrude.		1

TABLE 45. - Future petroleum and natural gas pipelines in Illinois

Map ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Remarks	Data sources
		Origin	Destination						
PP1.	Northern Border Pipeline Project.	Cordova, Rock Island County	Kankakee, Kankakee County	140	Gas.	?	-	Segment of a joint Canadian-American gas distribution proposal.	1, 5
PP2.	Illinois Power Co., Decatur, IL	Staunton, Macoupin County.	Gillespie, Macoupin County	7	Gas.	1978	6	-	5

TABLE 46. - Generating plants receiving preliminary ESECA notice to convert to coal in Illinois

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity, megawatts	Remarks	Data sources
E1..	Winnetka No. 5, 6, 7, and 8--Winnetka, Cook County.	Village of Winnetka, Winnetka, IL	Oil and gas to coal--0.1.	28	Received prohibition notice June 30, 1975.	9

TABLE 47. - Previously reported energy development projects which have been completed or canceled in Illinois

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Freeman-United Coal Mining Co., Chicago, IL	Orient No. 5 mine--Franklin County.	1976	-	Coal mine was never reopened as planned.
Central Illinois Light Co., Peoria, IL	Duck Creek Unit 1--Canton, Fulton County.	-	1976	Generator on-stream.
Illinois Power, Decatur, IL	Baldwin Unit 3--Baldwin, Randolph County.	-	1976	Do.
American Electric Power System, New York, NY	Coal Transloader in Metropolis, Massac County.	-	1976	-
Clark Oil and Refining Corp., Milwaukee, WI	Blue Island Refinery--Hartford, Madison County	-	1976	Expansion complete.
Texaco, New York, NY	Refinery--Lockport, Will County.	-	1976	Do.
Union Oil of California, Los Angeles, CA	Refinery--Lemont, Cook County.	-	1976	Do.
Marathon Oil Co., Findlay, OH	Refinery--Robinson, Crawford County.	-	1976	Do.
Mid-Continent Gas Co.	Media Gas Storage Field--Henderson County.	-	1976	-

## List of Data Sources for Illinois

1. U.S. Bureau of Mines Liaison Officer for Illinois.
2. National Coal Association. Steam-Electric Power Plant Factors, 1976.
3. Coal Age, February 1977.
4. Journal Star, March 24, 1976.
5. Oil and Gas Journal, October 6, 1975.
6. National Coal Association. Steam-Electric Power Plant Factors, 1975 (25th Edition). 112 pp.
7. Coal Age, December 1975.
8. U.S. Energy Research and Development Administration. Nuclear Power Reactors in the United States, December 31, 1975.
9. Federal Energy Administration. Implementing Coal Utilization Provisions of Energy Supply and Environmental Coordination Act, April 1976.

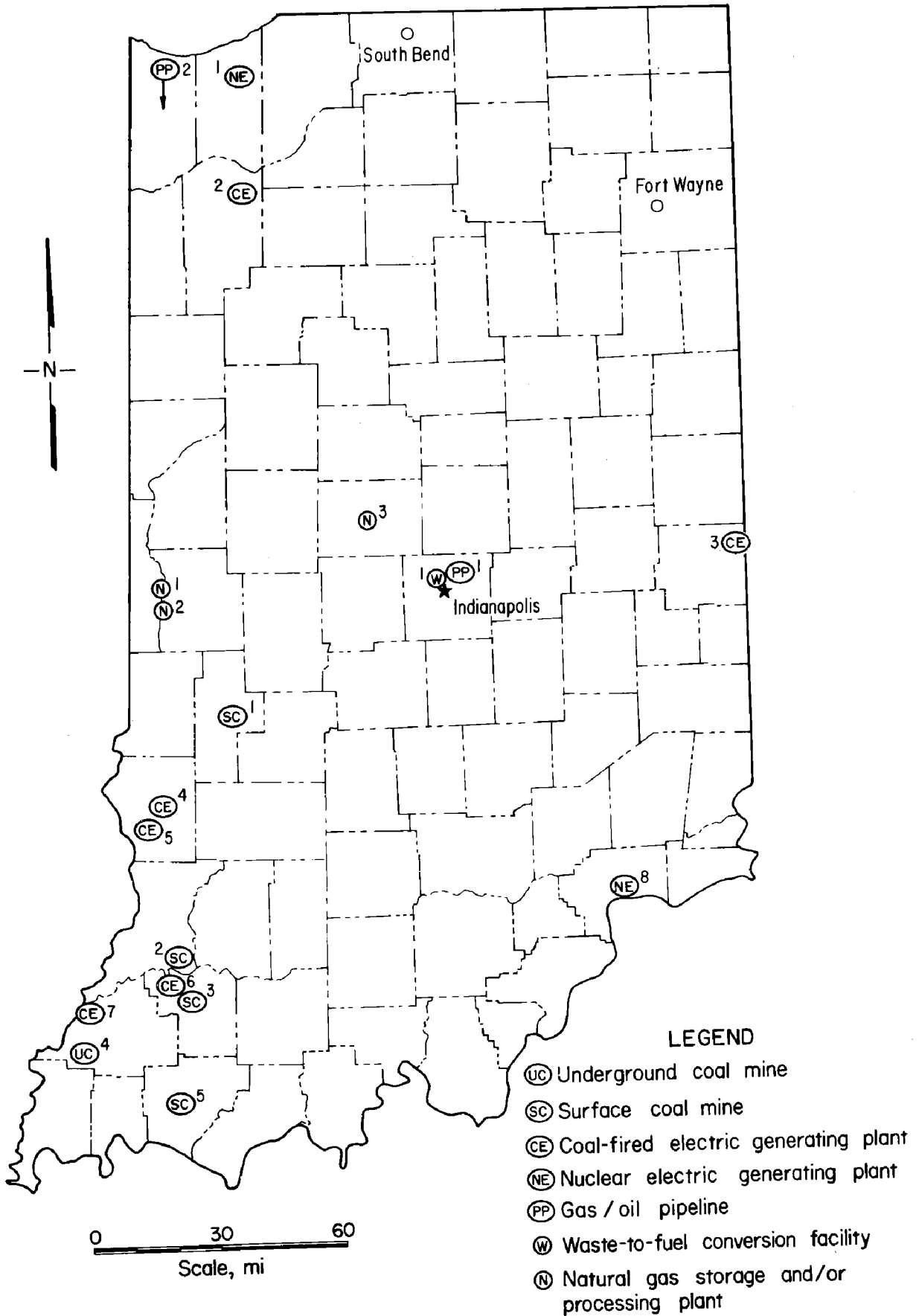


FIGURE 8. - Future fuel-related projects in Indiana;

TABLE 48. - Future coal mines in Indiana

Map ref. No.	Mine name and location	Operating company	Mine type	Planned capacity, million tons, and year	Bureau of Mines as-received analytical information	Coalbed thickness, inches	Depth or overburden thickness, feet	Remarks	Data sources
SC1.	Chinook mine -- Clay County	Amax Coal Co., Indianapolis, IN	Surface.....	1.0--1976 1.7--1977 2.4--1979	-	65	100	Expansion of existing capacity. Marketed as steam coal.	5
SC2.	Wilson -- Southeast Knox County	.....do.....	.....do.....	1.1--1982	-	48- 60	100	New mine. Marketed as steam coal.	5
SC3.	Old Ben No. 2 -- 4 miles south of Petersburg, Pike County	Old Ben Coal Co., Chicago, IL	.....do.....	2.2--1976 2.6--1977	S--1.0-1.5% Btu--11,000 Ash--8.5% Moisture--14.5%	108-120 (two seams)	60-100	V seam--72"; VI seam--36/48". Expansion of existing capacity. Marketed as steam coal.	1, 5
UC4.	Unnamed -- Southwest Gibson County.	.....do.....	Underground	2.0--1982	-	72	450	New mine. Marketed as steam coal.	5
SC5.	Ayshire -- Warrick County.	Amax Coal Co., Indianapolis, IN	Surface.....	2.6--1976 3.2--1978 4.5-1980	-	54- 60	30- 90	Expansion of existing capacity. Marketed as steam coal.	1, 5

TABLE 49. - Future electric generating plants in Indiana

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
NE1.	Baily Generating Station--Westchester, Porter County	Northern Indiana Public Service, Hammond, IN	Nuclear.....	1	645	1982	-	2, 3
CE2.	R. M. Schahfer--Wheatfield, Jasper County.	.....do.....	Coal--1.2.....	15	527	1979	-	3
CE3.	Whitewater Valley--Whitewater, Wayne County.	Richmond Power & Light--Richmond, IN	Coal--0.2.....	3	100	1985	-	3
CE4.	Sullivan--Sullivan, Sullivan County.	Indiana and Michigan Electric Co., Fort Wayne, IN	Coal--6.0.....	1	1,300	1978	-	6
				2	1,300	1979		
					2,600			
CE5.	Merom--Sullivan County.....	Hoosier Energy, Petersburg, IN	Coal--2.0.....	1	450	1981	-	3
				2	450	1980		
					900			
CE6.	Petersburg--Petersburg, Pike County.	Indianapolis Power & Light, Indianapolis, IN	Coal--2.4.....	3	515	1977	-	3
				4	515	1982		
					1,030			
CE7.	Gibson--Princeton, Gibson County.	Public Service of Indiana, Plainfield, IN	Coal--3.0.....	3	650	1978	-	3
				4	650	1979		
					1,300			
NE8.	Marble Hill Nuclear Station--Madison, Jefferson County.	Public Service of Indiana, Plainfield, IN	Nuclear.....	1	1,130	1982	-	2, 3
				2	1,130	1984		
					2,260			
	A. B. Brown--unlocated.....	Southern Indiana Gas & Electric, Evansville, IN	Coal--0.5.....	1	255	1979	-	3
	Unnamed--Unlocated.....	Indianapolis Power & Light, Indianapolis, IN	Coal--1.5.....	1	650	1985	-	3

TABLE 50. - Future waste-to-fuel conversion plants in Indiana

Map ref. No.	Plant name and location	Operating company	Type and feedstock	Initial operating date	Estimated capacity	Remarks	Data sources
W1..	Synthetic Gas Plant/Rock Island Refinery-- Indianapolis, Marion County.	Indiana Gas Co., Indianapolis, IN and Central Indiana Gas Co., Muncie, IN	Gas from naphtha.	1979-81	60 million cu ft from 10,000 bbl naphtha per day.	Construction delayed by environmental controversy.	1

TABLE 51. - Future petroleum and natural gas pipelines in Indiana

Map ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Remarks	Data sources
		Origin	Destination						
PP1.	Indiana Gas Co., Indianapolis, IN	Indianapolis, Marion County.	1 mi north of Brownsburg, Marion County.	7	Off gas from refinery	1977	16	Line will carry SNG if and when FEA approves fuel allocation for Indiana Gas Co.'s proposed SNG plant.	1
PP2 <sup>1</sup>	Amoco Pipeline Co., Chicago, IL	Whiting, Lake County, IN	Decatur, Morgan County, AL	500	Oil.....	1978	8	Petroleum product line.	7

<sup>1</sup>The origin is indicated on figure 8, but interstate pipelines are only included as a project in the destination State to avoid duplication.

TABLE 52. - Future natural gas processing and storage facilities in Indiana

Map ref. No.	Facility name and location	Operating company	Initial operating date	Throughput or storage capacity, thousand cu ft	Remarks	Data sources
N1..	Montezuma--Vermillion and Parke Counties.	Panhandle Eastern Pipeline Co., Houston, TX	-	3,400,000	Expansion of existing storage capacity.	4
N2..	South Alta--Vermillion and Parke Counties.	.....do.....	-	4,400,000	.....do.....	4
N3..	Lebanon--Boone County.....	Indianapolis Gas Co., Indianapolis, IN and Texax Eastern Transmission Corp., Houston, TX	1978	500,000 bbl of propane	Underground cavern	1

TABLE 53. - Previously reported energy development projects which have been completed or canceled in Indiana

Company	Project name and location	Change in status		Remarks
		Canceled	completed	
Public Service of Indiana, Plainfield, IN	Gibson Unit No. 2--Princeton, Gibson County.	-	1976	Generator on line.
Northern Indiana Public Service, Hammond, IN	Schahfer Unit No. 14--Wheatfield, Jasper County.	-	1976	Do.
Peabody Coal Co., St. Louis, MO	Spur Mine--Warrick County.....	-	1976	Expansion complete.
Texas Eastern Transmission Corp., Houston, TX	Reddington gas storage caverns--Reddington, Jackson County.	-	1976	Gas stored underground

## List of Data Sources for Indiana

1. U.S. Bureau of Mines State Liaison Officer for Indiana.
2. U.S. Energy Research and Development Administration. Nuclear Power Reactors in the United States, December 31, 1975.
3. National Coal Association, Steam-Electric Plant Factors, 1976. 128 pp.
4. Federal Power Commission.
5. Coal Age, February 1977.
6. Electrical World. New Capacity Additions Planned or in Construction (as of April 1, 1975).
7. Oil and Gas Journal, October 6, 1975.

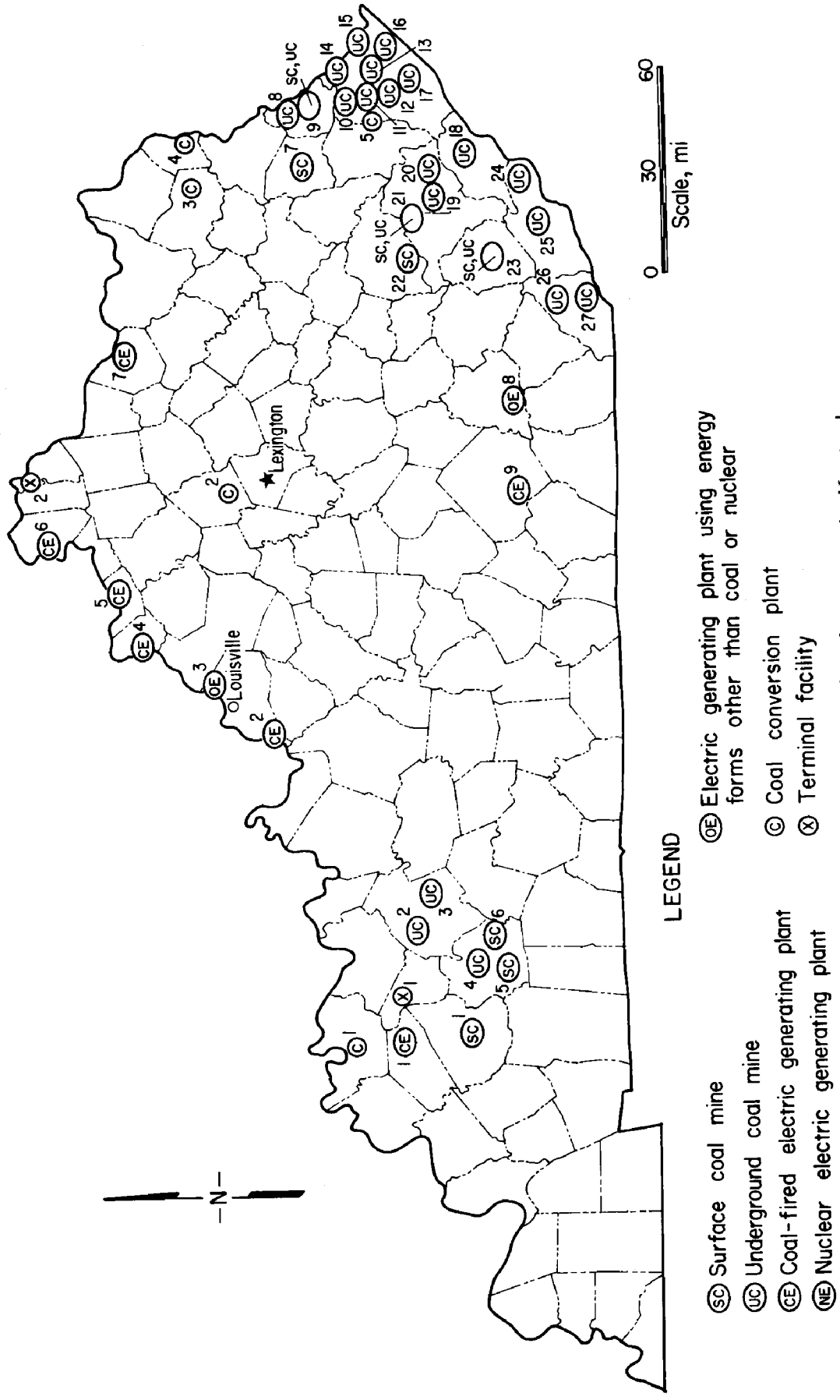


FIGURE 9. - Future fuel-related projects in Kentucky.

TABLE 54. - Future coal mines in Kentucky

Map ref. No.	Mine name and location	Operating company	Mine type	Planned capacity, million tons, and year	Bureau of Mines as-received analytical information	Coalbed thickness, inches	Depth or overburden thickness, feet	Remarks	Data sources
UC1.	Nortonville--Hopkins County.	Pittsburgh and Midway Coal Mining Co., Kansas City, MO	Strip.....	1.0 --1979	Btu--12,000	72	75-100	New mine. Marketed as steam coal.	1, 5
UC2.	Alston No. 4--Ohio County.	Peabody Coal Co., St. Louis, MO	Underground.	1.0 --1976 1.5 --1977	Btu--over 12,900	60	300-400	Expansion of existing capacity. Marketed as steam coal.	1, 5
UC3.	Alston No. 3--Ohio County.	.....do.....	.....do.....	1.0 --1976	Btu--over 12,900	60	300-400	.....do.....	1, 5
UC4.	Drake No. 5--Muhlenberg County.	Pittsburgh and Midway Coal Mining Co., Kansas City, MO	.....do.....	.25--1978 .5 --1979	Btu--12,000	72	400	New mine. Marketed as steam coal.	1, 5
UC5.	Gibraltar--Muhlenberg County.	Gibraltar Coal Corp., Indianapolis, IN	Strip.....	2.0 --?	Btu--over 13,000	60	50-125	.....do.....	1
UC6.	Sinclair--Muhlenberg County.	Peabody Coal Co., St. Louis, MO	.....do.....	.75--1976 1.15--1977	Btu--13,000	130 (includes 3 seams)	50-125	Expansion of existing capacity. Marketed as steam coal.	1, 5
UC7.	Unnamed--Johnson County.	Addington Bros. Mining Co.	.....do.....	.5 --?	Btu--over 13,000	40	40	Marketed as steam coal.	1
UC8.	Pontiki--Martin County	Pontiki Coal Corp., subs. of MAPCO, Inc., Tulsa, OK	Underground.	.1 --1976 .5 --1977 1.5 --1979	Vol--35% FC--54% S--0.8% Btu--13,200 Ash--6%	50	-	New mine. Marketed as metallurgical and steam coal.	1, 5
UC9.	Martiki--Martin County	Martiki Coal Corp., subs. of MAPCO, Inc., Tulsa, OK	Strip and underground	2.0 --1976 3.0 --1977	Vol--38% FC--54% S--0.9% Btu--12,500 Ash--9%	246 (includes 4 seams)	Up to 700	Expansion of existing capacity. Marketed as steam coal.	1, 5
UC10.	Unnamed--Pike County.	A. T. Massey Coal Co., subs. of St. Joe Minerals Corp., Richmond, VA	Underground.	.5 --1977 1.0 --1978	-	-	-	New mine. Marketed as metallurgical coal.	5
UC11.	Scotts Branch--Pike County.	Pickards Mather Co., Cleveland, OH	.....do.....	.06--1976 1.10--1978 1.30--1979	Btu--14,500	-	-	New mine. Marketed as steam coal.	1, 5
UC12.	McInnes--Pike County.	.....do.....	.....do.....	1.0 --1979	-	-	-	New mine to be 80% owned by Carolina Power and Light Co. Coal will be used for steam generation.	5
UC13.	Leslie--Pike County.	.....do.....	.....do.....	.1 --1976 .4 --1977 1.0 --1979	S--0.6% Btu--14,500	-	-	New mine. Marketed as steam coal.	1, 5

TABLE 54. - Future coal mines in Kentucky--Continued

Map ref. No.	Mine name and location	Operating company	Mine type	Planned capacity, million tons, and year	Bureau of Mines as-received analytical information	Coalbed, thickness, inches	Depth or overburden, thickness, feet	Remarks	Data sources
UC14.	Big Creek No. 1 and No. 2--Pike County.	Island Creek Coal Co., Lexington, KY	Underground.	0.1 --1976 .5 --1977 1.2 --1979	Btu--14,500	52	600-800	New mines. Marketed as steam and metallurgical coal	1, 5
UC15.	No. 1--Pike County.	Mary Helen Coal Co., Inc., Indianapolis, IN	....do.....	-	S--0.9% Btu--14,000 Ash--6%	-	-	Marketed as steam coal.	1
UC16.	No. 2--Pike County.	Canada Coal Co., Inc., Pikeville, KY	....do.....	.5 --1976 1.0 --1978	Btu--12,700 Ash--7.7%	-	-	Expansion of existing capacity. Marketed as steam and metallurgical coal	1, 5
UC17.	No. 3--Pike County.	Chapperal Coal Corp., Virgie, KY	....do.....	.4 --1977	-	-	-	New mine. Marketed as steam coal.	5
UC18.	Caudill's Branch--Letcher County.	Southeast Coal Co., Irvine, KY	....do.....	.25--1978 .75--1982	S--1.3% Btu--13,800 Ash--5.8%	42	Over 800	New mine. Marketed as metallurgical coal.	1, 5
UC19.	Premium--Knott County.	.....do.....	....do.....	.25--1977	-	-	-	.....do.....	5
UC20.	406 mine--Knott County.	.....do.....	....do.....	.5 --1979 .1 --1978	-	-	-	New mine. Marketed as steam coal.	5
SC, UC21	Various mines in Breathitt, Perry, and Knox Counties	Subsidiaries of American Electric Power Co., New York, NY	Surface and underground	1.0 --1976 5.0 --1980 20.0 --1985	-	-	-	New mines.....	5
SC22.	Unnamed (2 mines)--Breathitt County.	Kaneb Services Inc., Lexington, KY	Surface.....	1.0 --1979	-	-	-	New mines. Marketed as steam coal.	5
SC, UC23	Campbell Creek Job--Leslie County	Stansburg & Co., Inc., Cumberland, KY	Surface and underground	-	S--0.9% Btu--14,000 Ash--7%	84	-	Surface operation active--underground mine under construction.	1
UC24.	Lynch--Harlan County.	U.S. Steel Corp., Pittsburgh, PA	Underground.	1.6 --1977	-	-	-	Expansion of existing capacity. Marketed as metallurgical coal.	5
UC25.	Brookside No. 4--Harlan County	Eastover Mining Co., Brookside, KY	....do.....	.5 --1984	-	-	-	New mine. Marketed as steam coal.	5
UC26.	Bell No. 7--Bell County.	.....do.....	....do.....	.1 --1978 1.0 --1982	-	-	-	.....do.....	5
UC27.	Unnamed--Bell County.	Bell Company Coal Corp., subs. of General Energy Corp., Kansas City, MO	....do.....	Initial production 0.3 in 1977.	-	-	-	.....do.....	1

TABLE 55. - Future electric generating plants in Kentucky

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
CE1.	Robert Reid-- Sebree, Webster County.	Big Rivers Electrical Corp., Henderson, KY	Coal--0.5.....	-	200	1978	-	2
				-	200	1979		
					400			
CE2.	Mill Creek-- Kosmosdale, Jefferson County.	Louisville Gas and Electric Co., Louisville, KY	Coal--0.6.....	4	495	1979	-	2, 3
OE3.	Kentucky-- Louisville, Jefferson County.	.....do.....	Gas.....	-	72	1984	-	3
CE4.	Wise's Landing-- Wise's Landing, Trimble County.	.....do.....	Coal--1.2.....	1	495	1981	-	4
				2	500	1983		
					995			
CE5.	Ghent--Ghent, Carroll County.	Kentucky Utilities Co., Lexington, KY	Coal--1.2.....	2	511	1977	-	2, 3
				-	500	1981		
					1,011			
CE6.	East Bend-- Rabbit Hash, Boone County.	Cincinnati Gas and Electric Co., Cincinnati, OH	Coal--1.4.....	1	600	1980	-	2
				-	600	1982		
					1,200			
CE7.	Charleston Bottoms-- Maysville, Mason County.	East Kentucky Rural Electric Cooperative, Winchester, KY	Coal--0.4.....	2	300	1980	Also known as the H.L. Spurlock plant.	2
OE8.	Laurel River-- Laurel County.	U.S. Army Corps of Engineers.	Hydroelectric	1	60	1977	-	3
CE9.	John Sherman Cooper-- Burnside, Pulaski County.	East Kentucky Rural Electric Cooperative, Winchester, KY	Coal--0.6.....	-	500	1980	-	4

TABLE 56. - Future coal conversion plants in Kentucky

Map ref. No.	Plant name and location	Operating company	Type and process	Initial operating date	Estimated capacity, MMcf/day	Remarks	Data sources
C1..	Unnamed--unlocated Tentative site in Henderson County.	Texas Gas Transmission Co., Houston, TX, in conjunction with Commonwealth of Kentucky and ERDA	Gasification..	-	80	Plant is expandable to 250 MMcf/day. Maximum production will require about 17,000 tons of coal per day.	9
C2..	Unnamed--Georgetown, Scott County.	Irvin Industries Corporation, Lexington, KY	Gasification--low-Btu.	1979	-	Plant will process 36 tons of coal per day to fuel a nearby industrial park complex. Cost--\$7.6 million.	1
C3..	Unnamed--Hitchins, Carter County.	Pike County Government.	.....do.....	1979	-	Plant will process 500 tons of coal per year to fuel a housing development, school, and medical facility.	1
C4..	Unnamed--Catlettsburg, Boyd County.	ERDA contract with Hydrocarbon Research, Inc.	Liquefaction--H-coal.	Mid-1978	-	Pilot plant will burn 600 tons of coal per day with 1,800 bbl of petroleum liquids.	8
C5..	Unnamed--Pikeville, Pike County.	General Refractories Co., Bala Cynwyd, PA	Gasification--low-Btu.	1978	-	Plant will convert 2 tons of coal per hour to fuel a nearby brickmaking facility.	1

TABLE 57. - Future terminal facilities in Kentucky

Map ref. No.	Terminal location	Operating company	Type	Capacity, MM tons/yr	Initial operating date	Remarks	Data sources
X1..	Calhoun, McLean County.	Aquarius II.....	Coal transloader.	-	-	Rail to barge, mile 66.4 on the Green River.	6
X2..	Wilders, Campbell County.	Oglebay--Norton Co., Ceredo, WV	.....do.....	8	-	Rail to barge.....	7

TABLE 58. - Previously reported energy development projects which have been completed or canceled in Kentucky

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Peabody Coal Co., St. Louis, MO	Panama Mine-- Henderson County.	1976	-	Closed indefinitely
Island Creek Coal Co., Lexington, KY	No. 9 Mine--Hopkins County.	-	1976	-
Peabody Coal Co., St. Louis, MO	Alston 1--East mine-- Ohio County.	1976	-	Very indefinite.
Do.....	Alston 1--West mine-- Ohio County.	1976	-	Do.
Falcon Coal Co., Inc., Jackson, KY	Oldhouse Branch mine-- Breathitt County.	-	1976	Expansion complete.
Do.....	Falcon No. 1 mine-- Breathitt County.	-	1976	Do.
Kentucky Carbon Corp., subs. Carbon Fuel Co., Charleston, WV	Coal mine--Pike County.....	-	1976	Do.
Chapperal Coal Corp., Virgie, KY	No. 2 mine--Pike County....	-	1976	Do.
Blue Diamond Coal Co., Knoxville, TN	Coal mine--Perry County....	-	1976	Do.
Tampa Electric Co., Tampa, FL	Coal mine--Harlan County...	-	1976	Do.
Blue Diamond Coal Co., Knoxville, TN	Justus mine-- McCreary County.	-	1976	Do.
Big Rivers Electrical Corp., Henderson, KY	Robert Reid Gas turbine-- Sebree, Webster County.	-	1976	Do.
Louisville Gas and Electric Co., Louisville, KY	Mill Creek Unit 3-- Kosmosdale, Jefferson County.	-	1976	Do.
Do.....	Kentucky Unit 3--Louisville, Jefferson County.	-	1976	Do.
East Kentucky Rural Electric Cooperative, Winchester, KY	Charleston Bottoms Unit 1-- Maysville, Mason County.	-	1976	Do.
Do.....	John Sherman Cooper 610-Mw unit--Burnside, Pulaski County.	-	1976	Do.
Norfolk and Western Railway Co., Roanoke, VA	Spur Line to Carolina Power and Light Co.'s Leslie Mine--Pike County.	-	1976	Do.
Cleancoal Terminals	Rail-to-barge terminal-- Ghent, Carroll County.	-	1976	Do.

## List of Data Sources for Kentucky

1. U.S. Bureau of Mines State Liaison Officer for Kentucky.
2. National Coal Association. Steam-Electric Plant Factors, 1976. 128 pp.
3. Electrical World. New Capacity Additions Planned or in Construction (as of April 1, 1975). 65 pp.
4. National Coal Association. Steam-Electric Plant Factors (25th Edition), 1975. 112 pp.
5. Coal Age, February 1977.
6. American Waterways Operators, Inc. 1973 Waterside Plant Locations and Expansions. A Study of Economic Growth, April 1, 1974. 9 pp.
7. U.S. Bureau of Mines, Minerals Yearbook 1973.
8. Oil and Gas Journal, October 6, 1975.
9. Coal Age, September 1974.
10. Federal Energy Administration. Implementing Coal Utilization Provisions of Energy Supply and Environmental Coordination Act. April 1976.

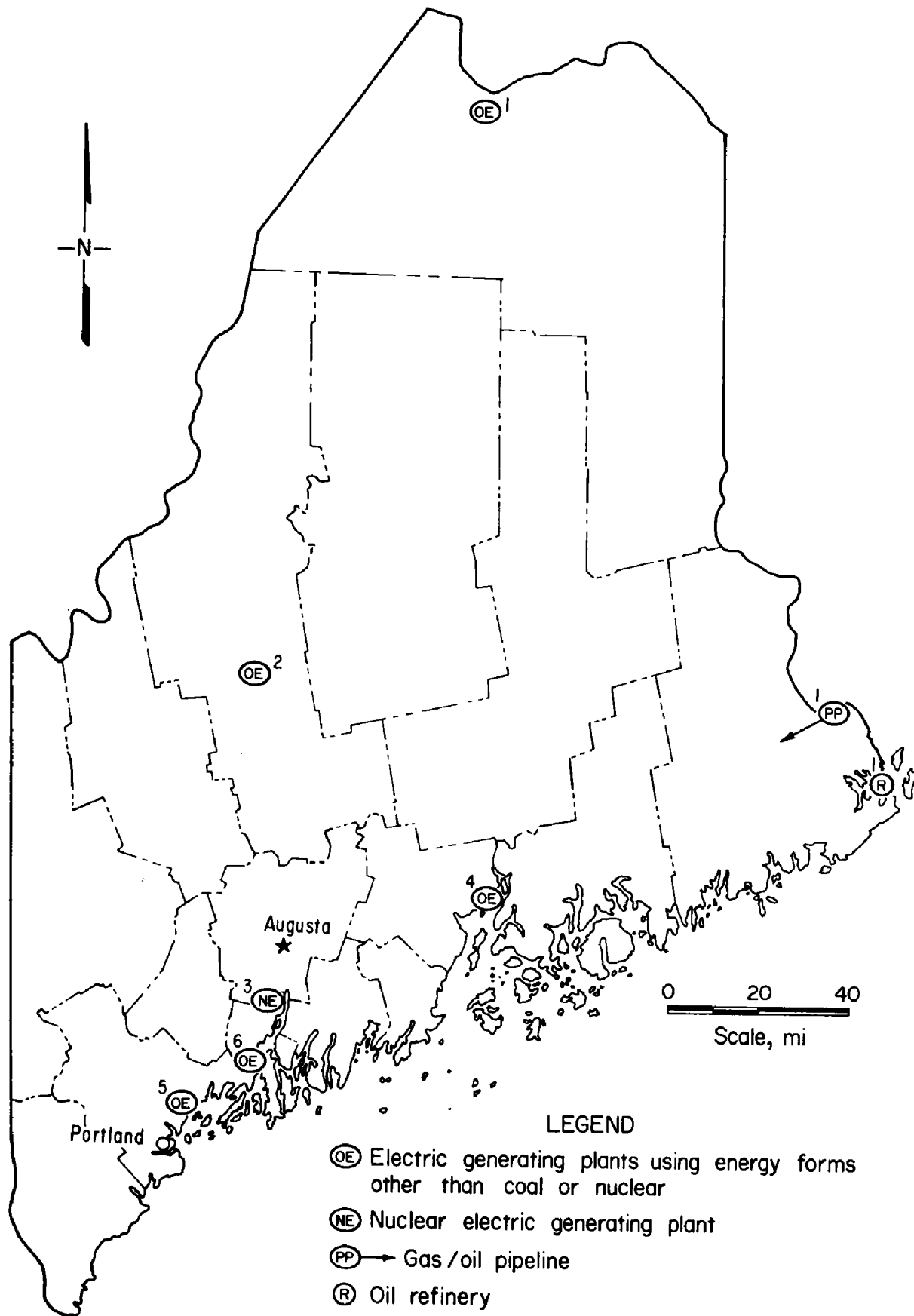


FIGURE 10. - Future fuel-related projects in Maine;

TABLE 59. - Future electric generating plants in Maine

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
OE1.	Dickey--Lincoln Hydroelectric Power Project--Allagash, Aroostook County.	U.S. Department of the Interior.	Hydroelectric	-	800	1980's	Plant is designed to supply peaking power. Feasibility studies by the Corps of Engineers due summer 1977; Interior's complete environmental study due in Nov. 1977. Plant will eventually be sold to private utilities. New construction.....	1
OE2.	Coldstream Hydroelectric--West Forks, Somerset County	Central Maine Power Co., Augusta, ME	.....do.....	-	83	1987		1
NE3.	Richmond Nuclear Power Plant--Richmond, Sagadahoc County.	.....do.....	Nuclear.....	-	1,150	1990's	Geologic studies to begin in 1977.	1
CE4.	Unnamed--Sears Island, Waldo County.	.....do.....	Coal--1.4.....	-	500-600	1986	Replaces the Sears Island Nuclear Plant.	1
OE5.	William F. Wyman--Yarmouth, Cumberland County.	Central Maine Power Co., Augusta, ME	Oil.....	4	600	1978	Addition to three existing units. Total capacity will be 813 megawatts.	2
OE6.	Brunswick--Topsham--Sagadahoc County.	.....do.....	Hydroelectric	-	12	1981	Expansion of present generation from 2.3 to 9.7 megawatts.	1

TABLE 60. - Future petroleum and natural gas pipelines in Maine

Map ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating dated 1980's	Pipe diameter, inches	Remarks	Data sources
		Origin	Destination						
PPI <sup>1</sup>	Tenneco Atlantic Pipeline Co., Concord, NH	St. John, New Brunswick, Canada.	Nassau, NY Milford, PA with an inter-connect at Concord, NH	500	Natural gas.	1980's	36	Algerian LNG will be shipped to St. John, regasified, and fed into the pipeline. Plans are still tentative. Capacity = 1,140,000 mcf/day; cost = \$546,366,000 (1976). Latest report indicates Canadian firm has dropped out. If new Canadian backing is not found, Canadian ownership rules will force relocation of terminal to U.S. Sears Island, ME and Prudence Island, RI currently being studied as backup locations.	1, 4, 5

<sup>1</sup>The possible origin is indicated on figure 10, but interstate pipelines are only included as a project in the destination State to avoid duplication, which in this case is Pennsylvania.

TABLE 61. - Future oil refineries in Maine

Map ref. No.	Refinery name and location	Operating company	Initial operating date	Throughput capacity, thousand bbl/day of crude oil	Remarks	Data sources
R1..	Unnamed-- Eastport, Washington County.	Pittston Co., New York, NY	-	425	EPA approval expected summer 1977. The Canadian government has not as yet extended permission for tankers to use Head Harbour Passage enroute to the refinery.	3

## List of Data Sources for Maine

1. U.S. Bureau of Mines State Liaison Officer for Maine.
2. Electrical World. New Capacity Additions Planned or in Construction  
(as of April 1, 1975), 65 pp.
3. Bangor Daily News, April 9-10, 1977.
4. \_\_\_\_\_. July 15, 1977.
5. Portland (Maine) Press Herald, July 16, 1977.

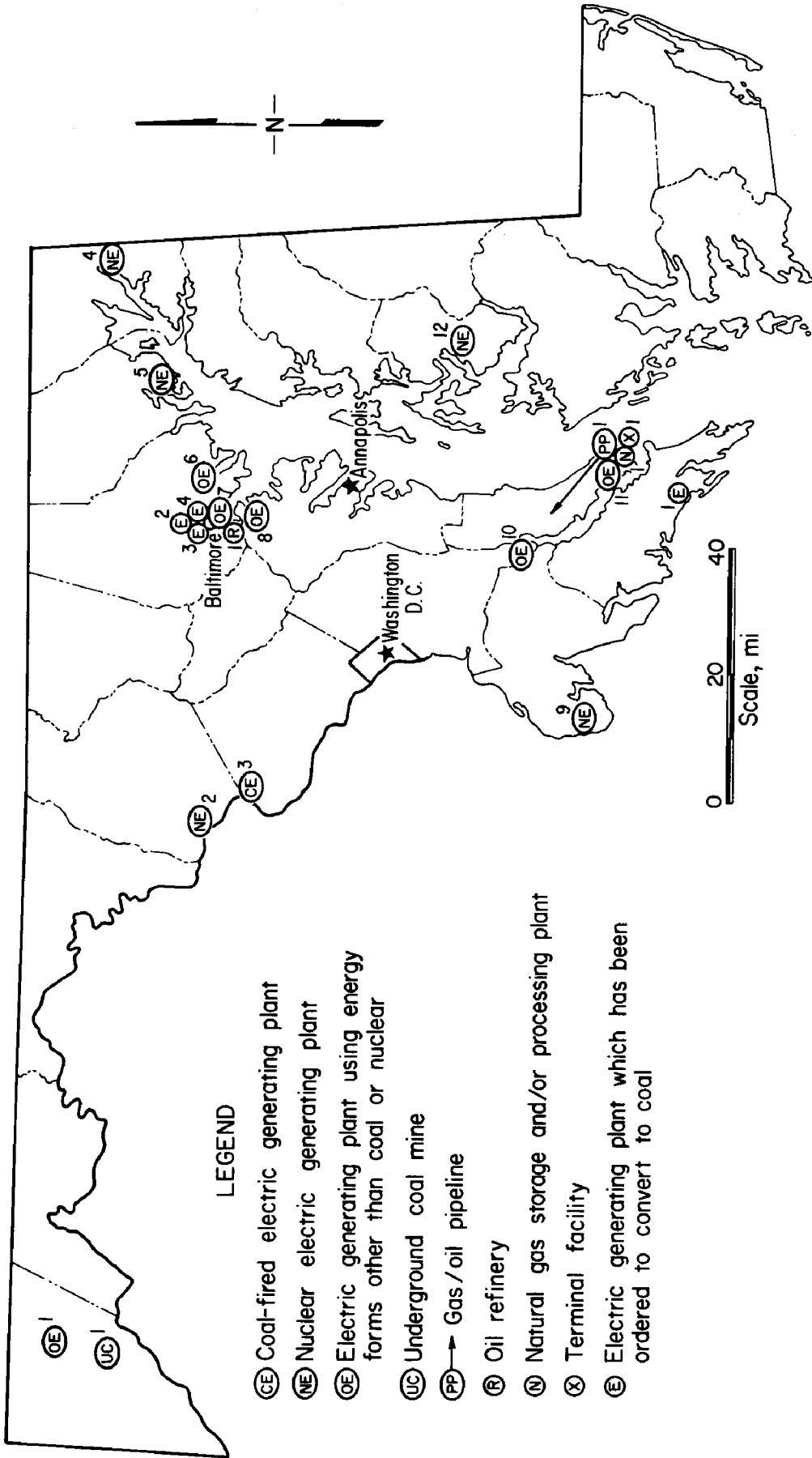


FIGURE 11. - Future fuel-related projects in Maryland.

TABLE 62. - Future coal mines in Maryland

Map ref. No.	Mine name and location	Operating company	Mine type	Planned capacity, million tons, and year	Bureau of Mines as-received analytical information	Coalbed thickness, inches	Depth or overburden thickness, feet	Remarks	Data sources
UC1.	Mettiki--Garrett County	Mettiki Coal Corp., subs. of Mapco, Inc., Tulsa, OK	Underground	0.2--1977 .7--1978 1.8--1980	Moist--6% Vol. mat.--20.5% F.C.--65.3% Ash--8.2% S--1.08% Btu--13,395 AST--2,630°	(2 seams)	-	New mine. Marketed as steam and metallurgical coal.	1, 3

TABLE 63. - Future electric generating plants in Maryland

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
OE1.	Pepco "J"--Garrett County.....	Potomac Electric Power Co., Washington, DC	Hydroelectric	-	1,000	-	Pumped storage. Will not be completed within 10 years.	2
NE2.	Point of Rocks--Frederick County.	The Potomac Edison Co., Hagerstown, MD	Nuclear.....	-	2,500	-	No active plans to proceed with construction as yet.	2
CE3.	Dickerson--Montgomery County....	Potomac Electric Power Co., Washington, DC	Coal--3.0.....	4	800	1982	Initial construction--1978.....	2
NE4.	Chesapeake City--Cecil County..	Susquehanna Electric Co., Conowingo, MD	Nuclear.....	-	3,000	-	Will not be completed within 10 years.....	1, 2
NE5.	Perryman--Harford County.....	Baltimore Gas & Electric Co., Baltimore, MD	.....do.....	-	1,200	1986	As of November 12, 1976, the company has not filed an application for a certificate with the PSC.	1, 2
OE6.	Sollers Point--Turner's Station, Baltimore County.	.....do.....	Oil (preliminary fuel).	-	200	1984	-	2
OE7.	Northwest Substation (Wagner)--Baltimore County.	.....do.....	Oil.....	-	300	1985	-	1, 2
OE8.	Brandon Shores--Hawkins Point, Anne Arundel County.	.....do.....	Oil.....	1	610	1980	-	1, 2
				2	610	1982		
					1,178			
NE9.	Douglas Point--Charles County..	Potomac Electric Power Co., Washington, DC	Nuclear.....	1	1,178	1985	Joint NRC/PSC hearing on the environmental impact of this plant has been held. Construction is scheduled to start in 1980.	2
OE10	Chalk Point--Prince Georges County.	.....do.....	Oil.....	4	2,356	1980	-	2
					630			
OE11	Easton Plant No. 2--Easton, Talbot County.	Easton Municipal Utility, Easton, MD	Diesel.....	-	12.5	1977	-	2
				-	12.5	1982		
				-	12.5	1986		
NE12	Calvert Cliffs--Lusby, Calvert County.	Baltimore Gas & Electric Co., Baltimore, MD	Nuclear.....	2	37.5	1977	-	2

TABLE 64. - Future petroleum and natural gas pipelines in Maryland

Map ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Remarks	Data sources
		Origin	Destination						
PP1 <sup>1</sup>	Columbia LNG Corp., Wilmington, DE	Cove Point, Calvert County.	Loudoun County, VA	87	Gas.	1978	36	Gas enters Columbia's main line system in Loudoun County. Consolidated Natural Gas also removes its share of the gas in Loudoun County for shipment north to Doyleburg, PA. Target date is March of 1978.	1, 5

<sup>1</sup>Origin indicated on figure 11, but interstate pipelines are only included as a project in the destination State to avoid duplication.

TABLE 65. - Future terminal facilities in Maryland

Map ref. No.	Terminal location	Operating company	Type	Capacity, billion cu ft/day	Initial operating date	Remarks	Data sources
X1..	Cove Point, Calvert County.	Columbia LNG Corp., Wilmington, DE	Offshore LNG terminal	1	1978	Natural gas drawn from the Sahara Desert's huge Hassi R'Mel field and liquefied at one of three liquefaction plants being built along the Mediterranean by Sonatrach, Algeria's state-owned oil and gas development company, is expected to leave Algeria's Arzew liquefaction plant in mid-February 1978 and is to arrive at Cove Point in mid-March 1978.	1, 5

TABLE 66. - Future oil refineries in Maryland

Map ref. No.	Refinery name and location	Operating company	Initial operating date	Throughput capacity, thousand bbl/day of crude oil	Remarks	Data sources
R1..	Crown Central Refinery-- Curtis Bay Area, Baltimore County.	Crown Central Petroleum Corp., Baltimore, MD	1978--80	200	-	1, 4

TABLE 67. - Future natural gas processing and storage facilities in Maryland

Map ref. No.	Facility name and location	Operating company	Initial operating date	Throughput or storage capacity thousand cu ft	Remarks	Data sources
N1..	Cove Point, Calvert County	Columbia LNG Wilmington, DE	1978	5,000,000	4 storage tanks hold the gas in liquid form until it is regasified. Each tank holds 375,000 bbl of LNG.	1, 5, 6

TABLE 68. - Generating plants receiving preliminary ESECA notice to convert to coal in Maryland

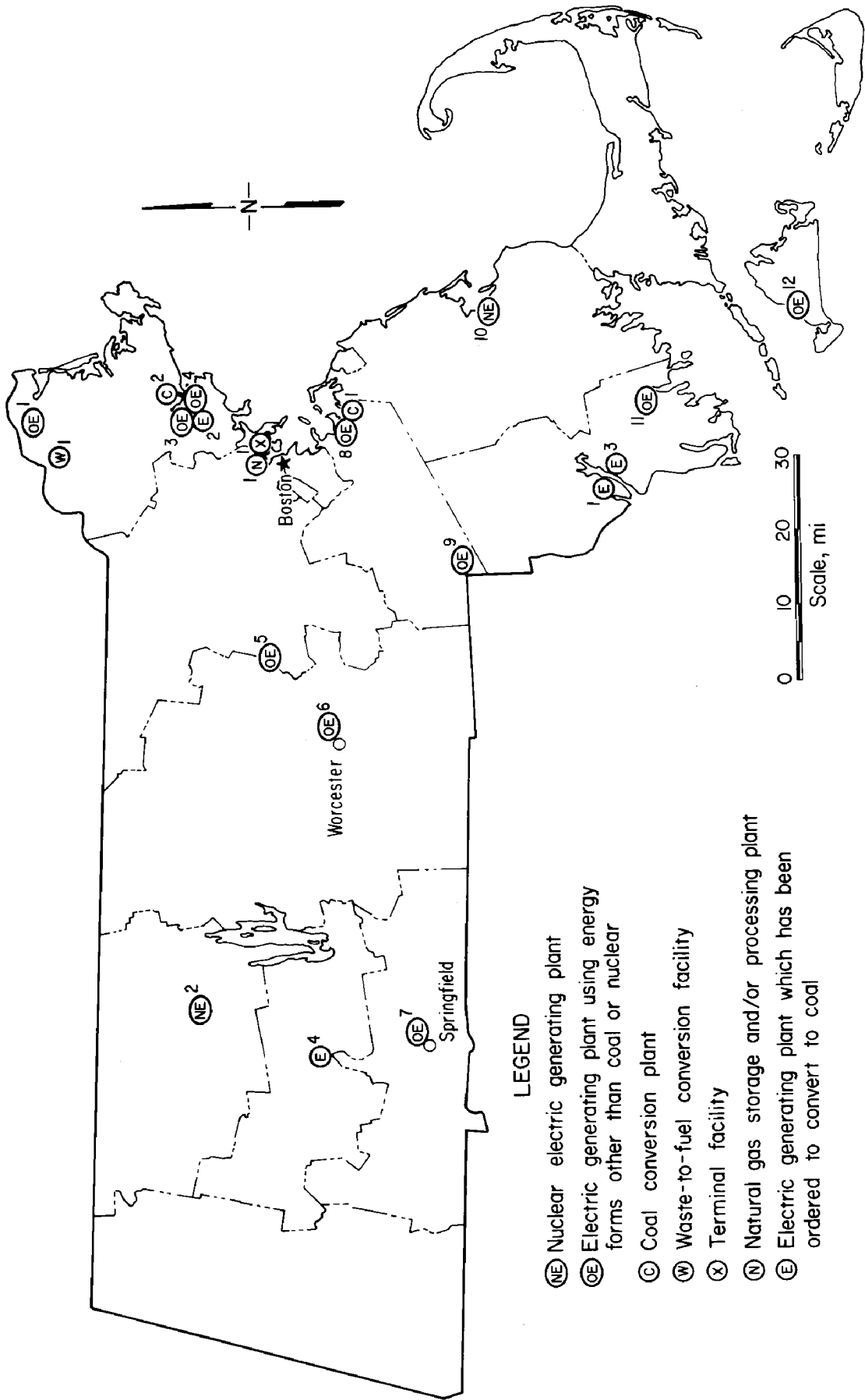
Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity, megawatts	Remarks	Data sources
E1..	Morgantown Nos. 1 and 2-- Newburg, Charles County.	Potomac Electric Power Co., Washington, DC	Oil to coal-- 2.9.	1,252	Received prohibition order June 30, 1975	7
E2..	Crane No. 1 and 2-- Baltimore, Baltimore County.	Baltimore Gas & Electric Baltimore, MD	Oil to coal-- 0.5.	391	.....do.....	7
E3..	Riverside Nos. 4 and 5-- Baltimore, Baltimore County.	.....do.....	Oil to coal-- 0.4.	153	.....do.....	7
E4..	Wagner Nos. 1 and 2-- Baltimore, Baltimore County.	.....do.....	Oil to coal-- 0.6.	268	.....do.....	7

TABLE 69. - Previously reported energy development projects which have been completed or canceled in Maryland

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Potomac Electric Power Co., Washington, DC	Sandy Point Generating Station-- Anne Arundel County.	-	1976	-
The Potomac Edison Co., Hagerstown, MD	Black Oak property, Allegany County.	-	1976	The company has no plans to develop the 1,094-acre Black Oak site for power generation during the 1977-86 period.

List of Data Sources for Maryland

1. U.S. Bureau of Mines State Liaison Officer for Maryland. Public Service Commission of Maryland.
2. Ten-Year Plan of Maryland Electric Utilities, Possible and Proposed Power Plants, 1977 through 1986.
3. Coal Age, February 1977.
4. Oil and Gas Journal, October 6, 1975.
5. Engineering News Record, June 26, 1975.
6. Business Week, October 13, 1975
7. Federal Energy Administration. Implementing Coal Utilization Provisions of Energy Supply and Environmental Coordination Act, April 1976.



LEGEND

- ⊙ NE Nuclear electric generating plant
- ⊙ OE Electric generating plant using energy forms other than coal or nuclear
- ⊙ C Coal conversion plant
- ⊙ W Waste-to-fuel conversion facility
- ⊙ X Terminal facility
- ⊙ N Natural gas storage and/or processing plant
- ⊙ E Electric generating plant which has been ordered to convert to coal

FIGURE 12: - Future fuel-related projects in Massachusetts.

TABLE 70. - Future electric generating plants in Massachusetts

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
OE1.	Lawrence Hydro--Lawrence, Essex County.	Essex Development Assoc.	Hydroelectric	-	14	1982	-	1
NE2.	Montague--Montague, Franklin County.	Northeast Utilities, Hartford, CT	Nuclear.....	1	1,150	1986	-	1, 2
OE3.	Danvers/Peabody--Peabody, Essex County.	Massachusetts Municipal Light Companies.	Solid waste..	-	2,300	1980	-	1
OE4.	Waters River--Peabody, Essex County.	Peabody Municipal Light Co., Peabody, MA	Oil.....	-	17	1981	-	1
OE5.	Cherry Street--Hudson, Middlesex County.	Hudson Light and Power Dept., Hudson, MA	Oil.....	-	6 12 18	1980 1984	-	1
OE6.	Peaking Station--Shrewsbury, Worcester County.	Shrewsbury Electric Light Department, Shrewsbury, MA	Oil.....	-	2.75	1978	-	1
OE7.	Stonybrook--Ludlow, Hampden County.	Massachusetts Municipal Light Companies.	Oil.....	1	230	1981	-	1
OE8.	Potter--Braintree, Norfolk County.	Braintree Electric Light Co., E. Braintree, MA	Gas or oil...	2	84 314 95	1982	-	1
OE9.	Unnamed--Plainville, Norfolk County.	Massachusetts Municipal Light Companies.	Solid waste..	-	75	1981	-	1
NE10	Pilgrim Station--Plymouth, Plymouth County.	Boston Edison Co., Boston, MA	Nuclear.....	2	1,180	1984	-	1, 2
OE11	Cannon Street--New Bedford, Bristol County.	New England Gas and Electric Association, Cambridge, MA	Oil.....	-	69	1982	-	1
OE12	West Tisbury--Martha's Vineyard.	.....do.....	Oil.....	3	2.75	1979	Proposed	1
				4	2.75	1981		
				5	2.75	1983		
					8.25			

TABLE 71. - Future coal conversion plants in Massachusetts

Map ref. No.	Plant name and location	Operating company	Type and process	Initial operating date	Estimated capacity	Remarks	Data sources
C1..	Combustion Conditioner, Braintree, Norfolk.	Columbia Chase Corp., Braintree, MA	Coal-oil--water slurry	1978	-	Will manufacture a fine coal--No. 6 oil--water slurry emulsion for utility or industrial boiler feedstock.	1
C2..	Unnamed--Beverly, Essex County	USM Corp., Boston, MA	Fluidized bed combustion.	1978	Will result in steam generation yielding 100 hp.	Involves the retrofiting of a current manufacturing plant with this type of power source. Will burn approx. 3,000 tons of coal per year. Wormser Engineering performing the retrofit.	1

TABLE 72. - Future waste-to-fuel conversion plants in Massachusetts

Map ref. No.	Plant name and location	Operating company	Type and feedstock	Initial operating date	Estimated capacity, MMcf/day	Remarks	Data sources
W1..	Lowell Synthetic Gas Plant--Haverhill, Essex County.	Lowell Gas Co., Lowell, MA	Gasification; solid waste.	-	31.5	Proposed--plant will convert 1,700 tons of solid waste per day into gas.	1

TABLE 73. - Future terminal facilities in Massachusetts

Map ref. No.	Terminal location	Operating company	Type	Capacity	Initial operating date	Remarks	Data sources
X1..	Chelsea, Suffolk County	Boston and Maine Corp., Boston, MA	Coal transloader	-	-	Rail to barge. Proposed; study conducted by C. E. Maguire.	1

TABLE 74. - Future natural gas processing and storage facilities in Massachusetts

Map ref. No.	Facility name and location	Operating company	Initial operating date	Throughput or storage capacity, thousand cu ft	Remarks	Data sources
N1..	Everett LNG Storage Facility--Everett, Middlesex County.	Cabot Corp., Boston, MA	1977	974,000 bbl (additional)	Expansion of facility to be run by Cabot's Distrigas Division. Facility will be able to deliver 75,000 cu ft/month.	1

TABLE 75. - Generating plants receiving preliminary ESECA notice to convert to coal in Massachusetts

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity, megawatts	Remarks	Data sources
E1..	Brayton Point (3 units)--Somerset, Bristol County.	New England Electric Power Co., Boston, MA	Oil to coal-- 2.6.	1,157	Received prohibition order June 30, 1977.	3, 4
E2..	Salem Harbor (3 units)--Salem, Essex County.	.....do.....	Oil to coal-- 0.5.	305	Received notice of intent April 25, 1977.	3, 5
E3..	Somerset (1 unit)--Somerset, Bristol County.	Montaup Electric Co., Fall River, MA	Oil to coal-- 0.2.	122	.....do.....	3, 5
E4..	Mt. Tom (1 unit)--Holyoke, Hampden County.	Northeast Utilities Service Co., Hartford, CT	Oil to coal-- 0.4.	147	Received prohibition order June 30, 1977.	3, 4

TABLE 76. - Previously reported energy development projects which have been completed or canceled in Massachusetts

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
New England Electric System, Boston, MA	Salem Harbor Unit 5--Salem Essex County.	1976	-	-

## List of Data Sources for Massachusetts

1. U.S. Bureau of Mines State Liaison Officer for Massachusetts.
2. National Coal Association. Steam-Electric Plant Factors, 1976. 128 pp.
3. Coal Age, June 1977.
4. Federal Energy Administration. Federal Energy News, June 30, 1977.
5. \_\_\_\_\_. Federal Energy News, April 25, 1977.

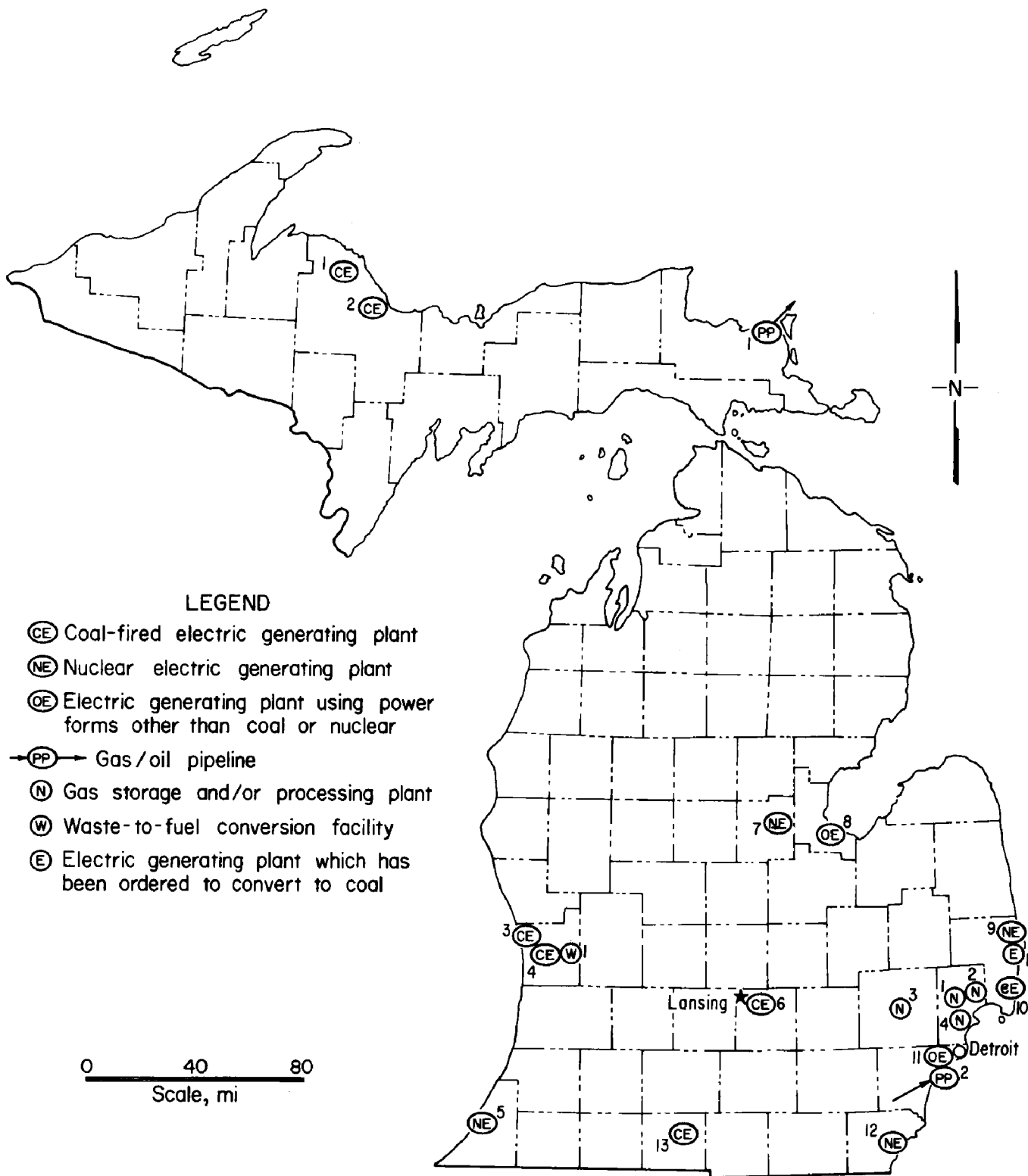


FIGURE 13. - Future fuel-related projects in Michigan.

TABLE 77. - Future electric generating plants in Michigan

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
CE1.	Shiras--Marquette, Marquette County.	Marquette Board of Light and Power, Marquette, MI	Coal--0.05....	3	41	1980	-	1, 4
CE2.	Presque Isle--Marquette, Marquette County.	Upper Peninsula Generating Co., Houghton, MI	Coal--0.3....	7	80	1978	-	1, 4
				8	80	1978		
				9	80	1979		
					240			
CE3.	Island--Grand Haven, Ottawa County.	Grand Haven Board of Light & Power, Grand Haven, MI	Coal--0.1....	3	80	1982	-	1, 4
CE4.	James H. Campbell--Port Sheldon, Ottawa County.	Consumers Power Co., Jackson, MI	Coal--1.0....	3	802	1980	-	1, 4
NE5.	Donald C. Cook Plant--Bridgeman, Berrien County.	Indiana & Michigan Electric Co., Fort Wayne, IN	Nuclear.....	2	1,060	1980?	Work has been temporarily postponed.	1, 4
CE6.	Erickson--Lansing, Ingham County.	Lansing Board of Water & Light, Lansing, MI	Coal--0.2....	2	160	1982	-	1
NE7.	Midland Nuclear Power Plant--Midland, Midland County.	Consumers Power Co., Jackson, MI	Nuclear.....	1	460	1982	Construction 20% completed....	
				2	811	1981		
OE8.	Dan E. Karn--Essesville, Bay County.	.....do.....	Oil.....	4	1,271	1977	-	1, 4
					652			
NE9.	Greenwood--Port Huron, St. Clair County.	Detroit Edison Co., Detroit, MI	Oil and nuclear.	1	780	1979	Unit 1 will be oil-fired; units 2 and 3 are nuclear.	1, 4
				2	1,208	1987	Initial operating date of unit 1 has been advanced.	
				3	1,208	1989	Project is 18% complete.	
					3,188			
CE10	Belle River--St. Clair, St. Clair County.	Detroit Edison Co., Detroit, MI	Coal--1.8....	1	676	1983	-	1, 4
				2	676	1983		
OE11	Mistersky--Detroit, Wayne County.	Detroit Public Lighting Commission, Detroit, MI	Oil.....	7	1,352	1978	-	1, 4
NE12	Enrico Fermi Atomic Power Plant--Lagoon Beach, Monroe County.	Detroit Edison Co., Detroit, MI	Nuclear.....	2	1,093	1980	Construction resumed--45% complete.	1, 4
CE13	Coldwater Plant--Coldwater, Branch County.	Coldwater Board of Public Utility, Coldwater, MI	Coal--0.03....	7	20	1982	-	1, 4

TABLE 78. - Future waste-to-fuel conversion plants in Michigan

Map ref. No.	Plant name and location	Operating company	Type and feedstock	Initial operating date	Estimated capacity	Remarks	Data sources
W1..	James H. Campbell Power Plant--Port Sheldon, Ottawa County.	Consumers Power Co., Jackson, MI	Waste mixed with coal.	-	-	Under consideration; no definite plans.	1

TABLE 79. - Future petroleum and natural gas pipelines in Michigan

Map ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Remarks	Data sources
		Origin	Destination						
PP1 <sup>1</sup>	Great Lakes Transmission Co., Detroit, MI	Sault Ste. Marie, Chippewa County, MI	Sault Ste. Marie, Ontario, Canada.	15	Gas....	1977	12	Natural gas--\$2.5 million.	1
PP2 <sup>2</sup>	Dome Pipeline Calgary, Alberta, Canada.	Fort Saskatchewan, Alberta, Canada.	Green Springs, OH, and Sarnia, Ontario, Canada.	1,167	Light hydro-carbon	1977	12	Pipeline will enter United States near Sherwood, ND, divide at Detroit and terminate in Sarnia and Green Springs. Cost of American portion--\$140 million; total cost--\$300 million.	2

<sup>1</sup>Indicated on figure 13 and listed as a project but destination is Canada.

<sup>2</sup>Indicated on figure 13 because pipeline bifurcates at Detroit, but listed as an Ohio project.

TABLE 80. - Future natural gas processing and storage facilities in Michigan

Map ref. No.	Facility name and location	Operating company	Initial operating date	Throughput or storage capacity, thousand cu ft	Remarks	Data sources
N1..	Marysville/Morton--St. Clair County.	Southeastern Michigan Gas Co., Port Huron, MI Consumers Power Co., Jackson, MI	1978	3,200,000	Under development.....	1
N2..	Marsac Creek--St. Clair County.	Michigan--Wisconsin Pipeline Co., Detroit, MI	1978	3,300,000	Operating date is tentative. Plant is still in planning stages. Early planning.....	1
N3..	Leonard--Oakland County...	Southeastern Michigan Gas Co., Port Huron, MI	-	12,800,000		1
N4..	Yankee--St. Clair County..		1978	450,000	Holding public hearings	3

TABLE 81. - Generating plants receiving preliminary ESECA notice to convert to coal in Michigan

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity, megawatts	Remarks	Data sources
E1..	St. Clair No. 5--East China Township, St. Clair County.	Detroit Edison Co., Detroit, MI	Oil and gas to coal--0.8.	358	Received prohibition order June 30, 1975.	5

TABLE 82. - Previously reported energy development projects which have been completed or canceled in Michigan

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Michigan Consolidated Gas Co., Detroit, MI	Taggart/Isabella gas storage project-- Montcalm and Mecosta Counties	-	1976	-
Do.....	Lee (Cortright) gas storage project. Muttonville gas storage project-- Macomb County.	-	1976	-
Michigan--Wisconsin Pipeline Co., Detroit, MI	Hessen gas storage project-- St. Clair County.	-	1976	-
Consumers Power Co., Jackson, MI	Dan E. Karn Power Plant-- Unit 3--Essexville, Bay County.	-	1976	-

List of Data Sources for Michigan

1. U.S. Bureau of Mines State Liaison Officer for Michigan.
2. Skillings ' Mining Review, October 10, 1976.
3. Oil and Gas News (Michigan), March 18, 1977.
4. National Coal Association. Steam-Electric Factors, 1976, 128 pp.
5. Federal Energy Administration. Implementing Coal Utilization Provisions of Energy Supply and Environmental Coordination Act. April 1976.

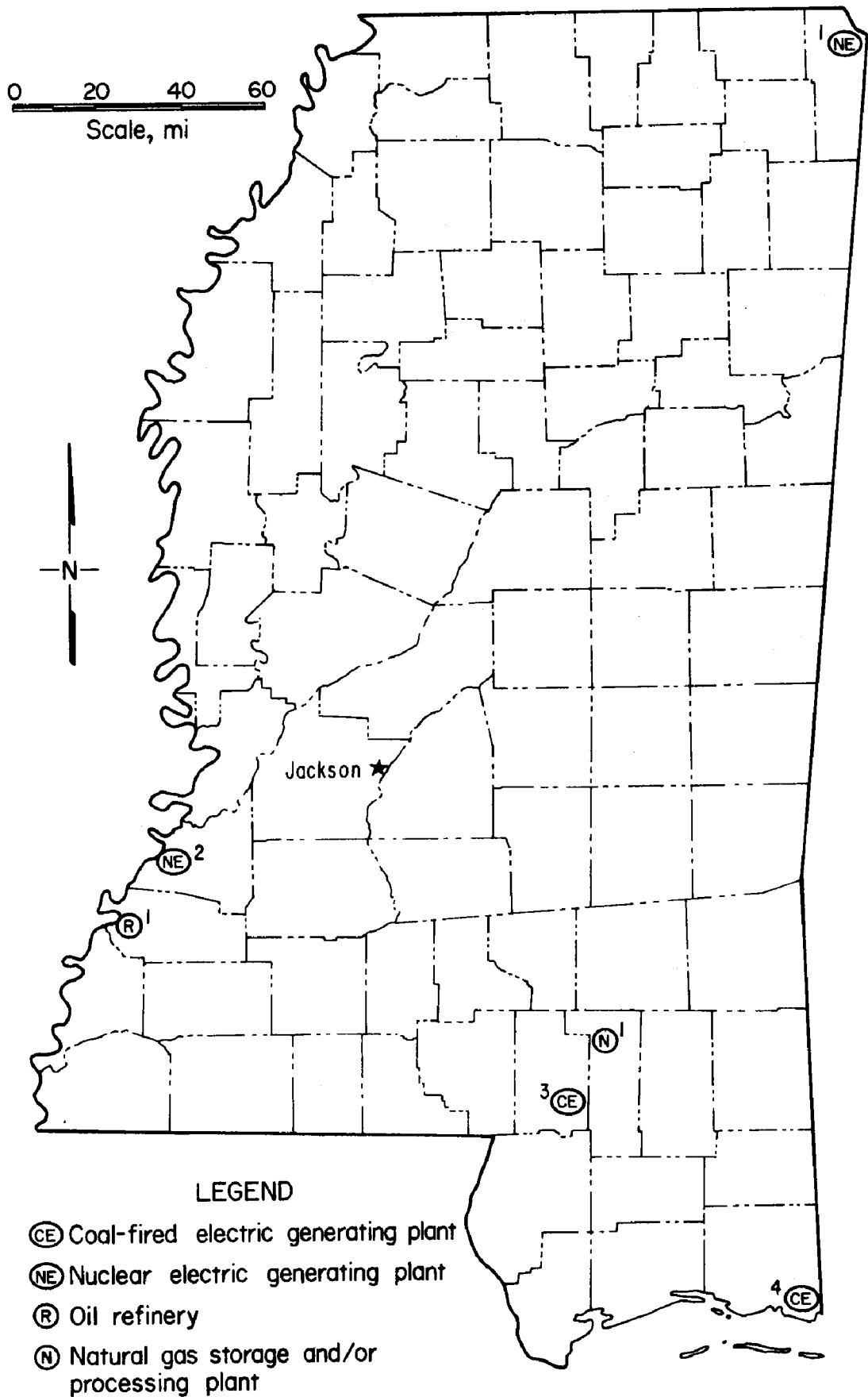


FIGURE 14. - Future fuel-related projects in Mississippi.

TABLE 83. - Future electric generating plants in Mississippi

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
NE1.	Yellow Creek Nuclear Plant, Iuka, Tishomingo County.	Tennessee Valley Authority, Knoxville, TN	Nuclear.....	1	1,300	1985	Construction permit expected in mid-1978.	1, 2
				2	1,300	1986		
					2,600			
NE2.	Grand Gulf Nuclear Station, Port Gibson, Claiborne County.	Mississippi Power and Light Co., Jackson, MS	.....do.....	1	1,250	1980	Unit 1--45% complete. Unit 2--3% complete.	1, 2
				2	1,250	1984		
					2,500			
CE3.	R. D. Morrow, Sr. Generating Plant, Purvis, Lamar County.	South Mississippi Electric Power Assoc., Hattiesburg, MS	Coal--0.8.....	1	180	1978	Overall project is 65% complete.	1, 2
				2	180			
					360			
CE4.	Jackson County Steam Plant, Moss Point, Jackson County.	Mississippi Power Co., Gulfport, MS	Coal--1.5.....	1	500	1977	Unit 1 will burn fuel oil until November of 1978. Unit 2 is 10% complete.	1, 2
				2	500	1980		
					1,000			

TABLE 84. - Future oil refineries in Mississippi

Map ref. No.	Refinery name and location	Operating company	Initial operating date	Throughput capacity, thousand bbl/day of crude oil	Remarks	Data sources
R1..	Unnamed--Natchez, Adams County.	Mid Continent Systems, Inc., West Memphis, AR	-	-	New refinery planned..	1

TABLE 85. - Future natural gas processing and storage facilities in Mississippi

Map ref. No.	Facility name and location	Operating company	Initial operating date	Throughput or storage capacity, thousand cu ft	Remarks	Data sources
N1..	Unnamed--Hattiesburg, Forrest County.	Lampton--Love, Inc., Jackson, MS	1978	1978--42 million gallons 1979--126 million gallons	Petal Salt Dome will be utilized as a propane storage facility.	-

TABLE 86. - Previously reported energy development projects which have been completed or canceled in Mississippi

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Fuel Desulfurization, Inc., Pascagoula, MS	Unnamed--Pascagoula, Jackson County.	-	-	-

## List of Data Sources for Mississippi

1. U.S. Bureau of Mines State Liaison Officer for Mississippi.
2. National Coal Association. Steam-Electric Plant Factors, 1976. 128 pp.
3. Federal Energy Administration. Implementing Coal Utilization Provisions of Energy Supply and Environmental Coordination Act, April 1976.
4. Coal Age, June 1977.
5. Federal Energy Administration. Federal Energy News, Apr. 25, 1977.
6. \_\_\_\_\_. Federal Energy News, June 30, 1977.

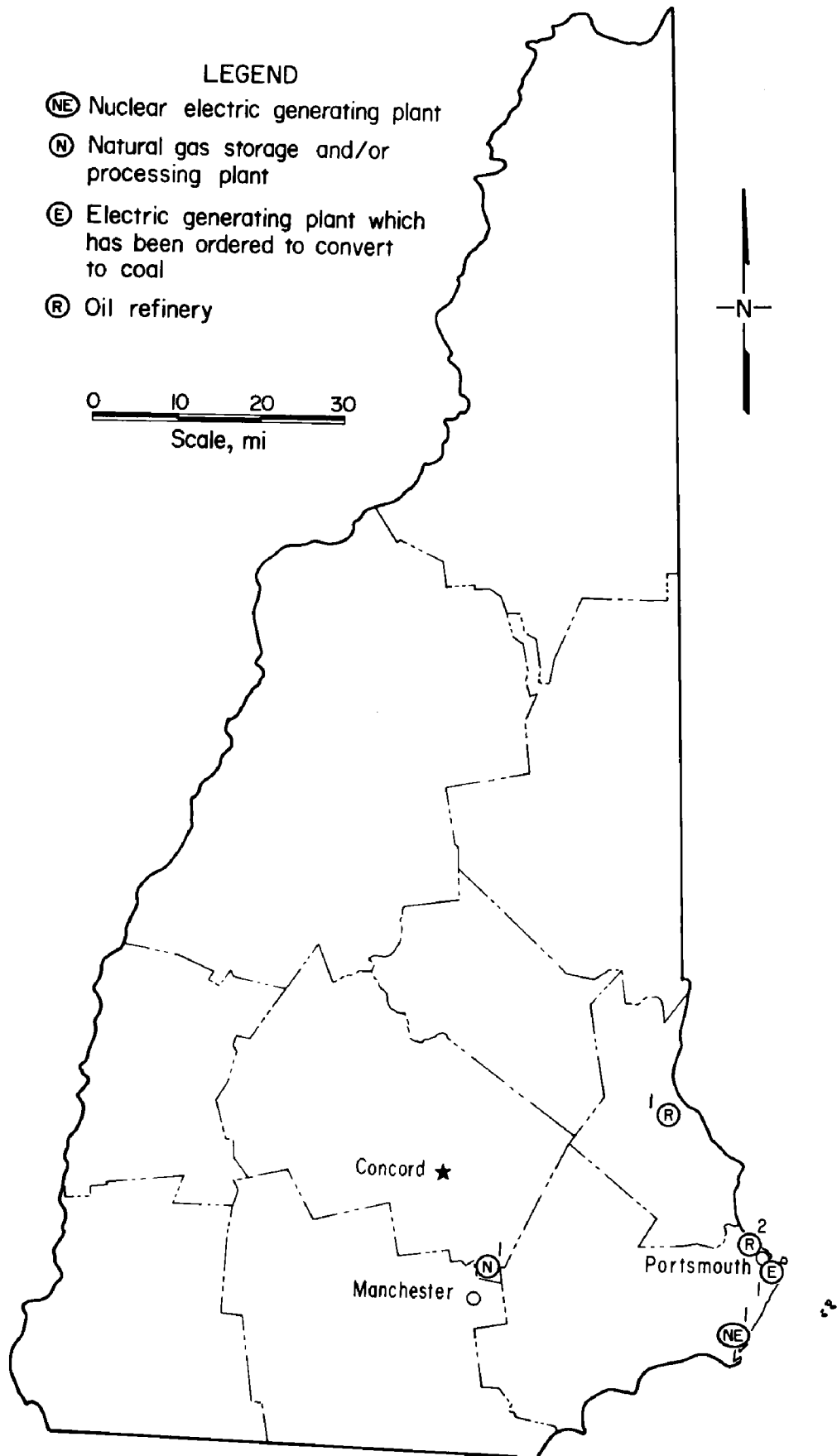


FIGURE 15. - Future fuel-related projects in New Hampshire.

TABLE 87. - Future electric generating plants in New Hampshire

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Megawatts			
NE1.	Seabrook Nuclear Station-- Seabrook, Rockingham County.	Public Service Co. of New Hampshire, Portsmouth, NH	Nuclear.....	1	1,150	1981	-	3
				2	1,150	1983		
					2,300			

TABLE 88. - Future oil refineries in New Hampshire

Map ref. No.	Refinery name and location	Operating company	Initial operating date	Throughput capacity, thousand bbl/day of crude oil	Remarks	Data sources
R1..	Unnamed--Rochester, Strafford County.	Granite State Refineries, Inc., Rochester, NH	-	400	Proposed new refinery.....	2
R2..	Newington-- Newington, NH	C. H. Sprague & Sons, Inc., subs. Axel Johnson, Inc., Stockholm, Sweden.	-	14	Increasing existing facility to include No. 2 oil in addition to present No. 6 oil and naphtha refining capacity. Has encountered delays in their permitting process.	1

TABLE 89. - Future natural gas processing and storage facilities in New Hampshire

Map ref. No.	Facility name and location	Operating company	Initial operating date	Throughput or storage capacity, thousand cu ft	Remarks	Data sources
N1..	Hooksett--Merrimack County, NH	Manchester Gas Co., Manchester, NH	1981	300,000 bbl storage capacity	\$30 million LNG compression, cooling, storage, and distribution center planned in conjunction with the pro- posed Tenneco, Inc., St. John, New Brunswick plant.	1

TABLE 90. - Generating plants receiving preliminary ESECA notice to convert to coal in New Hampshire

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity, megawatts	Remarks	Data sources
E1..	Schiller units 4 and 5-- Portsmouth, Rockingham County.	Public Service Co. of New Hampshire, Portsmouth, NH	Oil to coal-- 0.2.	100	Received prohibition order June 30, 1975.	4

List of Data Sources for New Hampshire

1. U.S. Bureau of Mines State Liaison Officer for New Hampshire.
2. Oil and Gas Journal, October 6, 1975.
3. National Coal Association. Steam-Electric Plant Factors, 1976, 128 pp.
4. Federal Energy Administration. Implementing Coal Utilization Provisions of Energy Supply and Environmental Coordination Act, April 1976.

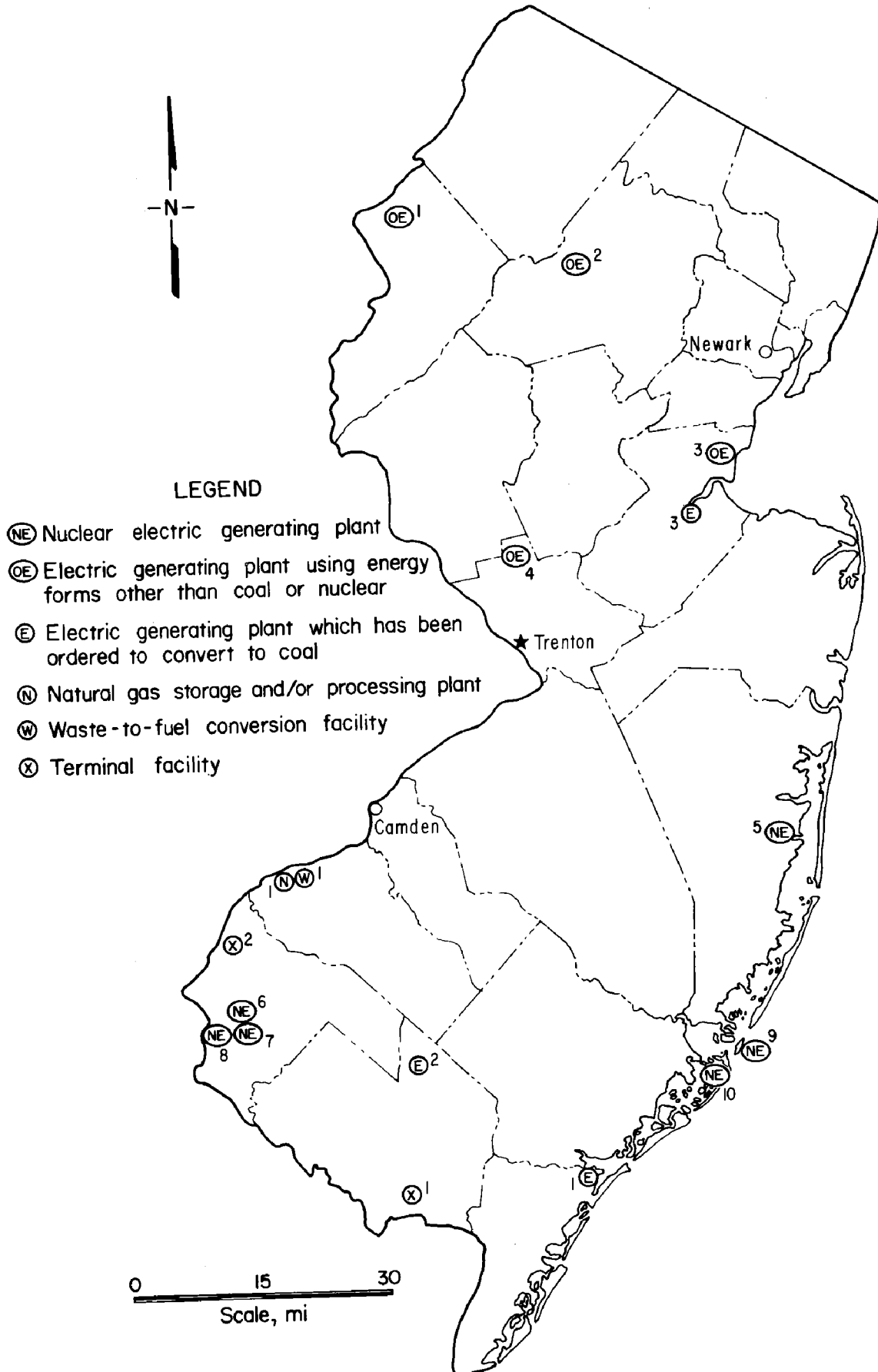


FIGURE 16. - Future fuel-related projects in New Jersey.

TABLE 91. - Future electric generating plants in New Jersey

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
OE1	Kittanning Mountain--Blairstown, Warren County.	Public Service Electric and Gas Co., Newark, NJ	Hydroelectric	2	500	1977	Pumped storage	5, 7
				3	800	1979		
					1,300			
OE2	Mt. Hope Lake--Middletown, Morris County.	Jersey Central Power and Light Co., Morristown, NJ	.....do.....	-	1,000	1992	.....do.....	4
OE3	Sewarren--Sewarren, Middlesex County.	Public Service Electric and Gas Co., Newark, NJ	Oil.....	7	400	1977	-	1, 7
				8	400	1978		
					800			
OE4	Thuerk--Hopewell, Mercer County.	General Public Utility, Reading, PA	Gas or oil....	1	316	1979	-	1, 7
				2	316	1979		
					632			
NE5	Forked River Generating Station--Forked River, Ocean County.	Jersey Central Power and Light Co., Morristown, NJ	Nuclear.....	1	1,070	1983	Under D.E.P. review.....	2, 3
NE6	Salem Nuclear Generating Station--Salem, Salem County.	Public Service Electric and Gas Co., Newark, NJ	.....do.....	1	1,090	1977	-	2, 3
				2	1,115	1979		
					2,205			
NE7	Hope Creek Generating Station--Salem County.	.....do.....	.....do.....	1	1,067	1984	-	2, 3
				2	1,067	1984		
					2,134			
NE8	Unnamed--Artificial Island, Salem County.	Delmarva Power and Light Co. (Northern Div.), Wilmington, DE	.....do.....	1	1,000	-	-	2
NE9	Atlantic Generating Station--Little Egg Inlet, Ocean County.	Public Service Electric and Gas Co., Newark, NJ	.....do.....	1	1,150	1985	Offshore power system.....	1, 2, 3
				2	1,150	1987		
					2,300			
NE10	Unnamed--12 mi NE of Atlantic City, Atlantic County.	.....do.....	.....do.....	-	1,150	1990	Offshore power system. Construction of Unit 2 to begin in 1985.	1, 2
				-	1,150	-		
					2,300			
-	Unnamed--unlocated.....	Jersey Central Power and Light Co., Morristown, NJ	Solid waste..	-	110	-	Initially will consume 2,000 tons refuse per day with an ultimate design capacity of 4,000 tons per day.	6
-	Unnamed--unlocated.....	Curtis Wright and Co., Woodbridge, NJ	Coal.....	-	13-500	1980	Research project to determine use of high sulfur.	1

TABLE 92. - Future waste-to-fuel conversion plants in New Jersey

Map ref. No.	Plant name and location	Operating company	Type and feedstock	Initial operating date	Estimated capacity, million cu ft/day	Remarks	Data sources
W1..	Unnamed--Gibbstown, Gloucester County.	South Jersey Industries, Inc.	Gasification	1977	125	-	8

TABLE 93. - Future terminal facilities in New Jersey

Map ref. No.	Terminal location	Operating company	Type	Capacity, bbl	Initial operating date	Remarks	Data sources
X1..	Delaware Bay-- Cumberland County.	Intercontinental Pipeline Co., Vineland, NJ	Deepwater port/tank farm.	862,000	-	Deepwater port to be connected with tank farm via two 48-in-diam pipelines.	1
X2..	West Deptford-- Gloucester County.	El Paso Natural Gas Co., El Paso, TX	LNG.....	-	-	Planned construction of a terminal and plant.	1

TABLE 94. - Generating plants receiving preliminary ESECA notice to convert to coal in New Jersey

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity, megawatts	Remarks	Data sources
E1..	B. L. England Nos. 1 and 2--Beesley's Point, Cape May County.	Atlantic City Electric Co., Atlantic City, NY	Oil to coal-- 0.4.	299	Received prohibition order June 30, 1975.	9
E2..	Down (1 unit)--Vineland, Cumberland County.	City of Vineland, Vineland, NJ	Oil to coal-- 0.1.	35	Received prohibition order June 30, 1977.	10, 11
E3..	Sayreville (2 units)--Sayreville, Middlesex County.	General Public Utilities, Parsippany, NJ	Oil to coal-- 0.5.	248	Received notice of intent April 25, 1977.	10, 12

TABLE 95. - Previously reported energy development projects which have been completed or canceled in New Jersey

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Exxon Corp., Houston, TX.....	Oil Refinery--Linden, Union County	-	1976	Expansion complete.
Jersey Central Power and Light Co., Morristown, NJ	Gilbert Generating Station--Milford, Hunterdon County.	-	1976	-
Transco Energy Co., Houston, TX	Gloucester County LNG Terminal....	-	1976	-

## List of Data Sources for New Jersey

1. U.S. Bureau of Mines State Liaison Officer for New Jersey.
2. U.S. Energy Research and Development Administration. Nuclear Power Reactors in the United States, December 31, 1975.
3. National Coal Association. Steam-Electric Plant Factors, 1976. 128 pp.
4. Constructioner. May 26, 1975.
5. \_\_\_\_\_. Oct. 13, 1975.
6. \_\_\_\_\_. June 9, 1975.
7. Electrical World. New Capacity Additions Planned or in Construction (as of April 1, 1975). 65 pp.
8. Oil and Gas Journal, Oct. 6, 1975.
9. Federal Energy Administration. Implementing Coal Utilization Provisions of Energy Supply and Environmental Coordination Act, April 1976.
10. Coal Age, June 1977.
11. Federal Energy Administration. Federal Energy News, June 30, 1977.
12. \_\_\_\_\_. Federal Energy News, April 25, 1977.

FIGURE 17: - Future fuel-related projects in New York;

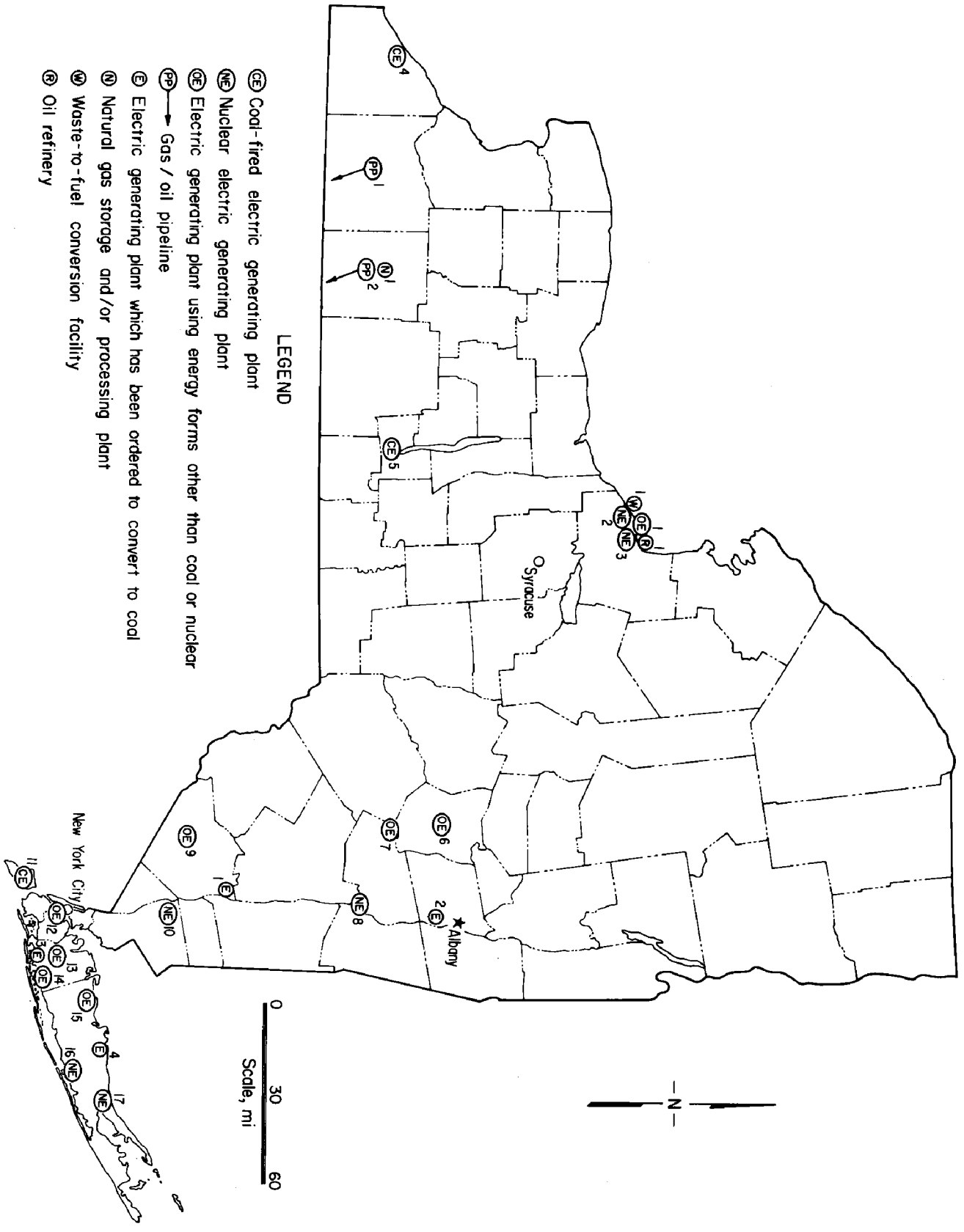


TABLE 96. - Future electric generating plants in New York

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
OE1.	Oswego--Oswego, Oswego County.	Niagara Mohawk Power Corp., Syracuse, NY	Oil.....	6	850	1979	Joint participation between Niagara Mohawk and Rochester Gas and Electric; shares will be 76% and 24%, respectively.	2, 3
NE2.	Nine Mile Point Nuclear Station--Oswego County.	.....do.....	Nuclear.....	2	1,080	1982	Joint participation between Niagara Mohawk, Rochester Gas and Electric, New York State Electric and Gas, Central Hudson Gas & Electric Corp., and Long Island Lighting Co.; shares will be 41%, 14%, 18%, 9%, and 18%, respectively.	2, 3
NE3.	Sterling Nuclear Station--Oswego, Oswego County.	Rochester Gas and Electric Corp., Rochester, NY	.....do.....	1	1,150	1984	Joint participation between Central Hudson, Orange & Rockland, Niagara Mohawk, and Rochester Gas and Electric; shares will be 17%, 33%, 22%, and 28%, respectively.	2, 3
CE4.	Lake Erie--Pomfret, Chautauqua County	Niagara Mohawk Power Corp., Syracuse, NY	Coal--4.0.....	1 2	850 850	1985 1987		2, 3
CE5.	Cayuga Lake--Ithaca, Tompkins County.	New York State Electric and Gas Corp., Binghamton, NY	Coal--2.0.....	1	1,700 850	1983		2, 3
OE6.	Breakabeen--Breakabeen, Schoharie County.	.....do.....	Hydroelectric	-	1,000	1982	Pumped storage. Postponed indefinitely due to environmental considerations.	1
OE7.	Prattsville--Prattsville, Greene County.	Power Authority for the State of New York, New York City, NY	.....do.....	2	1,000	1983	Pumped storage.....	3
NE8.	Greene County Nuclear Power Plant, Cementon, Greene County.	Power Authority for the State of New York, New York City, NY	Nuclear.....	-	1,200	1984		2, 3
OE9.	Cornwall Units--Cornwall, Orange County.	Consolidated Edison Co. of New York, Inc., New York City, NY	Hydroelectric	1-8	2,000	1988-89	Eight units at 250 Mw per unit; to be used for peaking service.	3

NE10	Indian Point-- Buchanan, Westchester County.	.....do.....	Nuclear.....	3	873	1977	Plant operates for the benefit of Power Authority of the State of New York.	1
CE11	MTA (700) Fossil-- Arthur Kill, Richmond County.	Power Authority for the State of New York, New York City, NY	Coal--1.7.....	-	700	1982	-	2, 3
OE12	Astoria--Astoria, Queens County.	.....do.....	Oil.....	6	775	1977	-	3
OE13	Mitchel Gardens-- Hempstead, Nassau County.	Long Island Lighting Co., Mineola, NY	Solid waste..	1-2	32	1978	Plant is being built in conjunction with the town of Hempstead.	3
OE14	Freeport-- Freeport, Nassau County.	City of Freeport, Freeport, NY	Gas.....	3-4	20	1978	-	1
OE15	Northport-- Northport, Suffolk County.	Long Island Lighting Co., Mineola, NY	Oil.....	4	386	1977	-	2, 3
NE16	Shoreham Nuclear Power Station, Brookhaven, Suffolk County.	.....do.....	Nuclear.....	-	819	1979	-	2, 3
NE17	Jamesport-- Jamesport, Suffolk County.	.....do.....	.....do.....	1	1,150	1984	Joint participation between Long Island Lighting Co. and New York State Electric and Gas; will be shared on a 50-50 basis.	2, 3
-	Unnamed-- unlocated.	New York State Electric and Gas, Binghamton, NY	.....do.....	1	1,220	1988	Joint participation between Long Island Co. and New York State Electric and Gas; will be shared on a 50-50 basis. New Haven and Stuyvesant being studied as possible sites. Fuel type has not formally been announced; nuclear is assumed.	3
-	Mid-Hudson-- unlocated.	-	.....do.....	E1	1,300	1988	Unit ownership not determined at this time. Studies of location to be undertaken.	3
				E2	1,300	1990		
				W1	1,300	1991		
					3,900			

TABLE 97. - Future waste-to-fuel conversion plants in New York

Map ref. No.	Plant name and location	Operating company	Type and feedstock	Initial operating date	Estimated capacity	Remarks	Data sources
W1..	Unnamed--Oswego, Oswego County.	NEPCO Energy Corp., New York City, NY	Gasification	1981	125 MM cu ft/day SNG	Feedstock not yet identified and/or contracted.	6

TABLE 98. - Future petroleum and natural gas pipelines in New York

Map ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Remarks	Data sources
		Origin	Destination						
PP1 <sup>1</sup>	Columbia Gas Transmission Corp., Wilmington, DE	Chautauqua County, NY	Warren County, PA	10.5	Natural	-	6	-	4
PP2 <sup>1</sup>	National Fuel Gas Supply Corp., Oil City, PA	Allegany County, NY	Ellisburg, Potter County, PA	17.7	..do...	1979	-	Line from Allegany County storage pools to interstate transmission facilities.	5

<sup>1</sup>Indicated on figure 17 but listed as Pennsylvania projects to avoid duplication.

TABLE 99. - Future oil refineries in New York

Map ref. No.	Refinery name and location	Operating company	Initial operating date	Throughput capacity, thousand bbl/day of crude oil	Remarks	Data sources
R1..	Unnamed--Oswego, Oswego County.	NEPCO Energy Corp., New York City, NY	1981	100	New refinery...	6

TABLE 100. - Future natural gas processing and storage facilities in New York

Map ref. No.	Facility name and location	Operating company	Initial operating date	Throughput or storage capacity, thousand cu ft	Remarks	Data sources
N1..	West Independence Pool, East Independence Pool, Beech Hill Pool-- Allegany County.	National Fuel Gas Supply Corp., Oil City, PA	1979	22,000,000	Cost--\$49,618,051 (1976).	5

TABLE 101. - Generating plants receiving preliminary ESECA notice to convert to coal in New York

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity, megawatts	Remarks	Data sources
E1..	Danskammer Nos. 3 and 4--Roseton, Orange County.	Central Hudson Gas & Electric Corp., Poughkeepsie, NY	Oil and gas to coal--0.9	386	Received prohibition order June 30, 1975.	3
E2..	Albany Nos. 1, 2, 3, and 4--Bethlehem, Albany County.	Niagara Mohawk Power Co., Syracuse, NY	Oil to coal--0.9.	400	.....do.....	3
E3..	E. F. Barrett (1 unit)--Island Park, Nassau County.	Long Island Lighting Co., Mineola, NY	Oil to coal--0.4.	189	Received notice of intent April 25, 1977.	4, 5
E4..	Port Jefferson (2 units)--Port Jefferson, Suffolk County.	.....do.....	Oil to coal--1.1.	392	Received prohibition order June 30, 1977.	4, 6

TABLE 102. - Previously reported energy development projects which have been completed or canceled in New York

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Consolidated Edison Co. of New York, Inc., New York City, NY	Indian Point Nuclear Generator--Unit 2.....	-	1976	-

## List of Data Sources for New York

1. U.S. Bureau of Mines State Liaison Officer for New York.
2. National Coal Association. Steam-Electric Plant Factors, 1976, 128 pp.
3. Report of Member Electric Systems of the New York Power Pool--Summary of Long Range 1977-92 Plan.
4. Oil and Gas Journal, April 25, 1977.
5. Federal Power Commission. Certified Pipeline Docket CP 76-492.
6. Oil and Gas Journal, October 6, 1975.

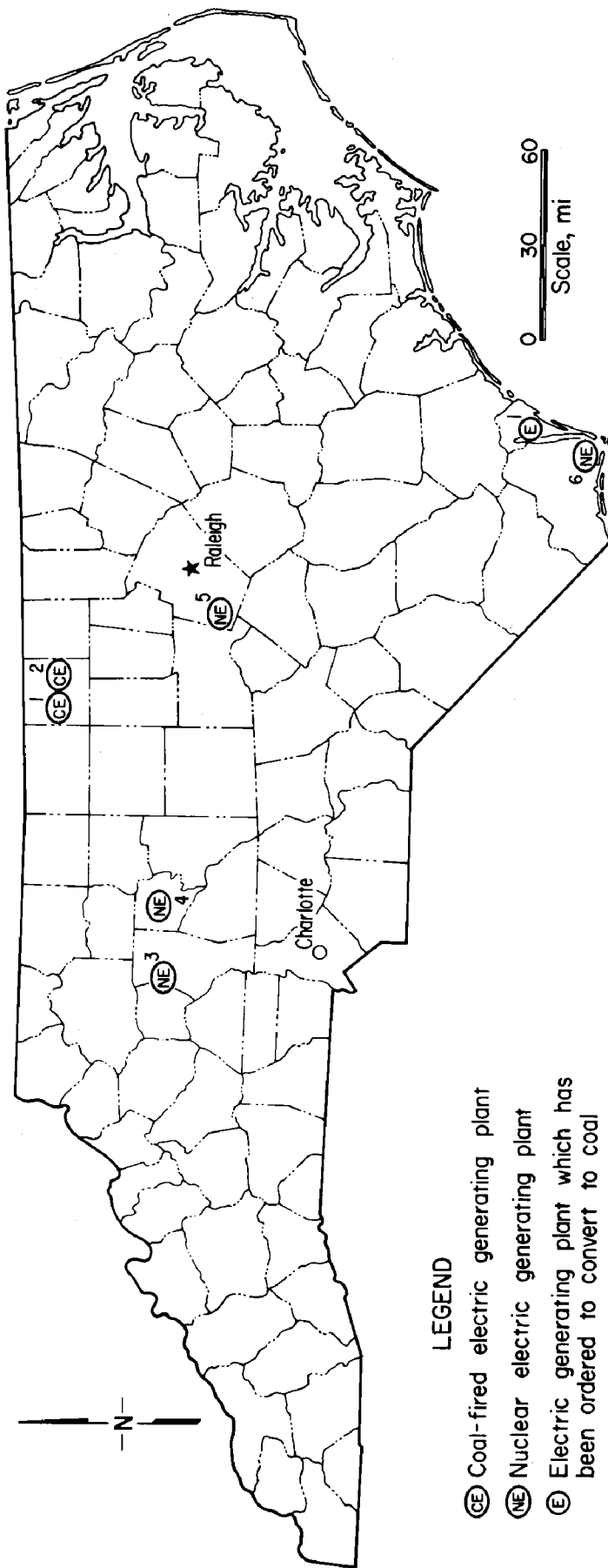


FIGURE 18. - Future fuel-related projects in North Carolina.

TABLE 103. - Future electric generating plants in North Carolina

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Megawatts			
CE1.	Mayo--Person County.....	Carolina Power and Light Co., Raleigh, NC	Coal--1.7...	1	720	1983	-	1, 2
				2	720	1985		
				4	1,440	1980		1, 2
CE2.	Roxboro--Roxboro, Person County.	.....do.....	Coal--0.9....	1	720	1979	-	1, 2
NE3.	William B. McGuire Nuclear Station--Covans Ford Dam, Iredell County.	Duke Power Co., Charlotte, NC	Nuclear.....	2	1,180	1980	-	1, 2
				2	1,180			
				1	2,360			
NE4.	Perkins Nuclear Station--Davie County.	.....do.....	.....do.....	1	1,280	1985	-	1, 2
				2	1,280	1987		
				3	1,280	1990		
				1	3,840			
NE5.	Shearon Harris Plant--Bonsal, Wake County.	Carolina Power and Light Co., Raleigh, NC	.....do.....	1	900	1984	-	1, 2
				2	900	1986		
				3	900	1990		
				4	900	1988		
NE6.	Brunswick Steam Electric Plant--Southport, Brunswick County.	.....do.....	.....do.....	1	3,600	1977	-	1, 2
				1	821			
-	Unnamed--Unlocated.....	.....do.....	.....do.....	-	1,150	1989	-	1
-	.....do.....	.....do.....	.....do.....	-	1,150	1991	-	1

TABLE 104 - Generating plants receiving preliminary ESECA notice to convert to coal in North Carolina

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity, megawatts	Remarks	Data sources
E1..	Sutton Nos. 1, 2, and 3--Wilmington, New Hanover County.	Carolina Power and Light Co., Raleigh, NC	Oil and gas to coal--1.5.	646	Received prohibition order June 30, 1975.	3

TABLE 105. - Previously reported energy development projects which have been completed or canceled in North Carolina

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Duke Power Co., Charlotte, NC.....	Dam River--Eden, Rockingham County.	-	1976	Units 7-10 on line.
Public Service Company of North Carolina, Inc., Raleigh, NC	Charles Branson Zeigler Energy Center--Wake County.	-	1976	LNG storage facility.

List of Data Sources for North Carolina

1. U.S. Bureau of Mines State Liaison Officer for North Carolina.
2. National Coal Association. Steam-Electric Plant Factors, 1976. 128 pp.
3. Federal Energy Administration. Implementing Coal Utilization Provisions of Energy Supply and Environmental Coordination Act, April 1976.

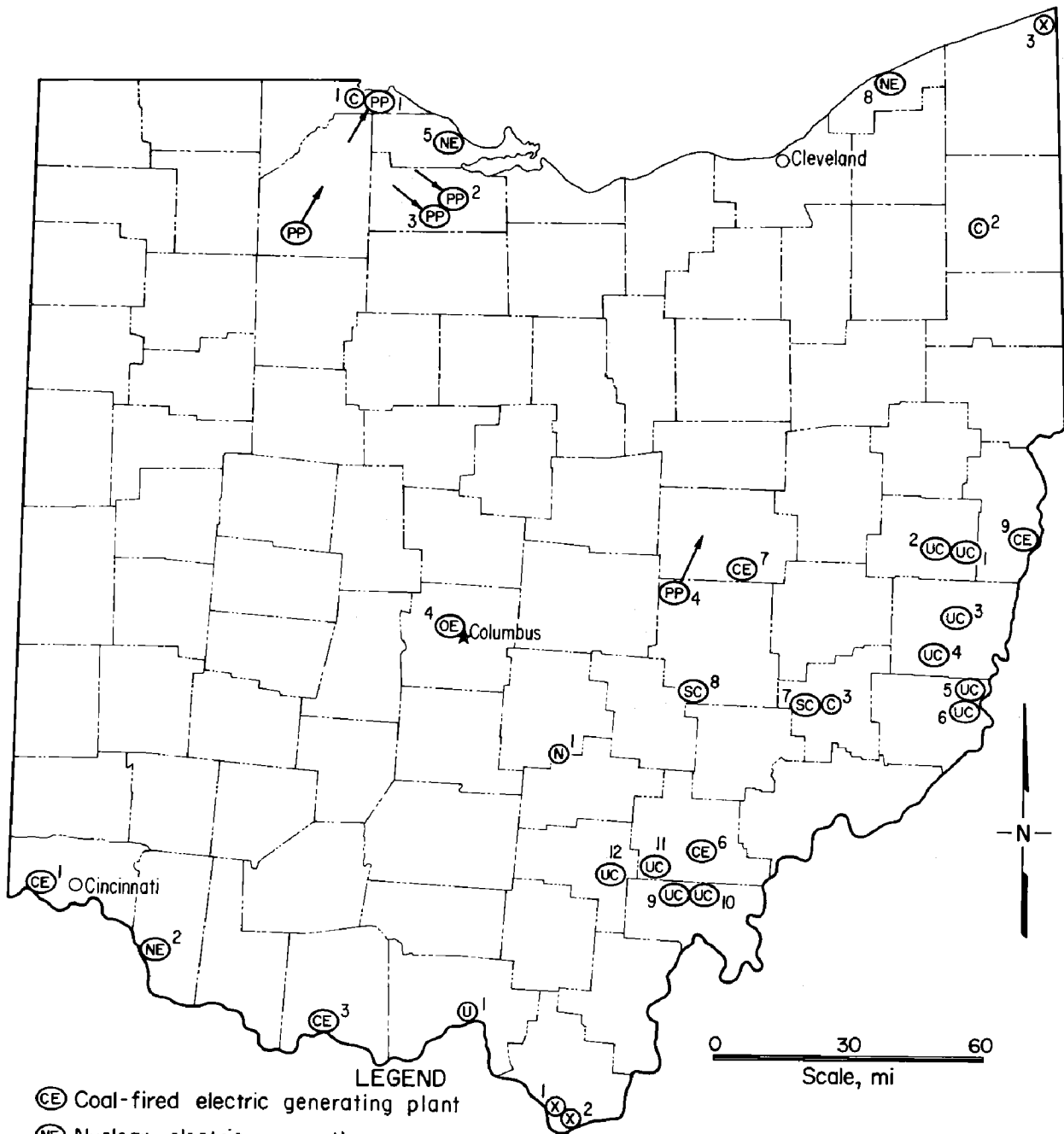


FIGURE 19. - Future fuel-related projects in Ohio.

TABLE 106. - Future coal mines in Ohio

Map ref. No.	Mine name and location	Operating company	Mine type	Planned capacity, million tons, and year	Bureau of Mines as-received analytical information	Coalbed thickness, inches	Depth or overburden thickness, feet	Remarks	Data sources
UC1.	Nelms No. 2 Mine-- Green Twp., Harrison County.	Youghiogeny and Ohio Coal Co., Cleveland, OH	Underground	1.2 --1978	-	56	-	Expansion of existing capacity.	1
UC2.	Cadiz Portal-- Cadiz, Harrison County.	.....do.....	.....do.....	1.0 --1980	-	66	530	Marketed as steam coal. New mine.	1
UC3.	Saginaw Mine-- Belmont Twp., Belmont County.	Saginaw Mining Co., Cleveland, OH	.....do.....	1.0 --1979	-	60	-	Expansion of existing capacity.	1
UC4.	Allison Mine-- Wayne Twp., Belmont County.	Youghiogeny and Ohio Coal Co., Cleveland, OH	.....do.....	1.8 --1978	-	66	-	.....do.....	1
UC5.	Powhattan No. 4-- Northeast Monroe County.	Quarto Mining Co. (North American Coal), Cleveland, OH	.....do.....	3.2 --1978	-	48	-	Marketed as steam coal. Expected life of 30 yr.	1
UC6.	Powhattan No. 7-- Northeast Monroe County.	.....do.....	.....do.....	3.2 --1979	-	48	-	.....do.....	1, 11
SC7.	Unnamed--near Caldwell, Noble County.	Consolidation Coal Co., Pittsburgh, PA	Surface.....	2.5 --1980	-	-	-	Output will be used by proposed gasification facility nearby. New mine.	1, 11
SC8.	Roseville Mine-- Clay Twp., Muskingum County.	Horizon Coal Corp.	.....do.....	.15--1978	-	48	60	New mine. Possible expansion to 0.3 mil- lion tons by 1979.	1
UC9.	Meigs No. 2-- Meigs County.	Southern Ohio Coal Co., New York, NY	Underground	2.0 --1976	-	54	250	Expansion of existing capacity. Marketed as steam coal.	1, 11
UC10	Meigs No. 1-- Meigs County.	.....do.....	.....do.....	1.1 --1976	-	54	300	.....do.....	1, 11
UC11	Albany-- Athens County.	American Electric Power Corp., New York, NY	.....do.....	2.2 --1978 .3 --1976 1.5 --1979	-	-	-	New mine. Marketed as steam coal.	11
UC12	Raccoon No. 3-- Vinton County.	Southern Ohio Coal Co., New York, NY	.....do.....	.3 --1976 1.5 --1978	-	54	70	Expansion of existing capacity. Marketed as steam coal.	1, 11

TABLE 107. - Future electric generating plants in Ohio

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
CE1.	Miami Fort--North Bend, Hamilton County.	Cincinnati Gas & Electric Co., Cincinnati, OH	Coal--1.2.....	8	500	1978	-	2, 3
NE2.	Wm. H. Zimmer Nuclear Station--Moscow, Clermont County.	.....do.....	Nuclear.....	1	792	1979	-	2, 3
				2	1,150	1986	-	
CE3.	Wrightsville (Killen)--Manchester, Adams County.	Cincinnati Gas & Electric Co., Cincinnati, OH, and Dayton Power and Light, Dayton, OH	Coal--2.8.....	1	1,942	1983	-	2, 3
				2	600	1981	-	
OE4.	Unnamed--Columbus, Franklin County.	City of Columbus, Columbus, OH	Coal and trash.	-	90	1980	Facility was designed to replace all existing city generating equipment by 1980. However, voter repeal in November 1976 election has severely clouded its future.	3
NE5.	Davis--Beese Nuclear Power Station--Oak Harber, Ottawa County.	Central Area Power Coordination Group (CAPCO)	Nuclear.....	1	906	1977	CAPCO consists of Cleveland Electric Illuminating Co., Duquesne Light, Ohio Edison, Pennsylvania Power and Toledo Edison.	2, 3
				2	906	1983		
				3	906	1985		
CE6.	Poston--Athens, Athens County.	Columbus & Southern Ohio Electric Co., Columbus, OH	Coal--2.0.....	5	375	1981	-	2, 3
				6	375	1983	-	
CE7.	Conesville--Conesville, Coshocton County.	.....do.....	Coal--1.0.....	6	750	1978	-	2, 3
					375			
NE8.	Perry Nuclear Power Plant--Perry, Lake County.	Central Area Power Coordination Group (CAPCO)	Nuclear.....	1	1,205	1981	-	2, 3
				2	1,205	1983	-	
CE9.	Cardinal--Brilliant, Jefferson County.	Ohio Power Co., Canton, OH	Coal--3.0.....	3	2,410	1977	-	2, 3
				4	615	1984		

TABLE 108. - Future coal conversion plants in Ohio

Map ref. No.	Plant name and location	Operating company	Type and process	Initial operating date	Estimated capacity	Remarks	Data sources
C1..	Clean Fuels From Coal, Toledo, Lucas County.	Standard Oil of Ohio, Cleveland, OH, and Old Ben Coal Co., Chicago, IL	Liquefaction-- noncatalytic hydrogenation	-	2,600 bbl	Proposed prototype plant.....	1
C2..	Unnamed--Warren, Trumbull County.	Consolidated Natural Gas Co., Pittsburgh, PA	Gasification..	-	53 MMcf	Application for supporting grant from ERDA.	1
C3..	Unnamed--Caldwell, Noble County.	9-company consortium headed by Continental Oil Co., Stamford, CT	.....do.....	1981	60 MMcf per day-- high Btu	Plant will use 3,800 tons of coal per day and will cost \$165 million. Output will meet the needs of 100,000 east Ohio residents.	7

TABLE 109. - Future petroleum and natural gas pipelines in Ohio

Map ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Remarks	Data sources
		Origin	Destination						
PP1.	Buckeye Pipeline Co., Emmaus, PA	Cygnets, Wood County, OH	Toledo, Lucas County, OH	34	Oil.....	1977	-	Consumption of crude requires more pipeline capacity. Company may build new crude line or may convert existing product line to crude and build new product line.	1
PP2.	Anglo Pipeline Co., Calgary, Alberta, Canada.	Kerrobot, Saskatchewan, Canada.	Green Springs, Sandusky County, OH	1,550	Gas ..	-	16	Gas liquids line.....	9
PP3.	Dome Pipeline Corp...	Fort Saskatchewan, Alberta, Canada.	Green Springs, OH, and Sarnia, Canada.	1,167	Light hydrocarbon	1977	12	Pipeline will enter United States near Sherwood, ND, divide at Detroit, and terminate in Sarnia and Green Springs. Cost of American portion--\$140 million; total cost--\$300 million.	10
PP4.	Natural Gas & Oil Corp., Newark, OH	Jackson Twp., Muskingum County, OH	Jackson Twp., Coshocton County, OH	22	Gas.....	1977	8	Gathering line.....	1

TABLE 110. - Future terminal facilities in Ohio

Map ref. No.	Terminal location	Operating company	Type	Capacity	Initial operating date	Remarks	Data sources
X1..	Sheridan, Lawrence County. Chesapeake, Lawrence County.	Tri-State Mining..... Transfer Terminal Corp. Jeffersonville, IN Pittsburgh & Conneaut Dock Co., subs. U.S. Steel Corp., Pittsburgh, PA	Coal transloader Barge fleetling. Coal transloader	10 MM tons/yr 36 barges 13.5 MM tons/yr	Unknown Unknown 1978	Construction permit pending with the Corps of Engineers. Public hearing was held by C.O E. in June 1977. Environmental impact statements have been prepared. Increased capacity from the present 9 million tons 6 per year. Dock also has ore transloading systems.	1 5 6

TABLE 111. - Future natural gas processing and storage facilities in Ohio

Map ref. No.	Facility name and location	Operating company	Initial operating date	Throughput or storage capacity, thousand cu ft	Remarks	Data sources
N1..	Crawford Storage Field, Fairfield and Hocking Counties.	Columbia Gas Transmission Corp., Wilmington, DE	1981	115,000,000	Field will cover a 5- by 12-mile area and will contain approximately 230 wells upon completion. Total cost will be \$80 million.	1, 4

TABLE 112. - Future uranium mills and enrichment facilities in Ohio

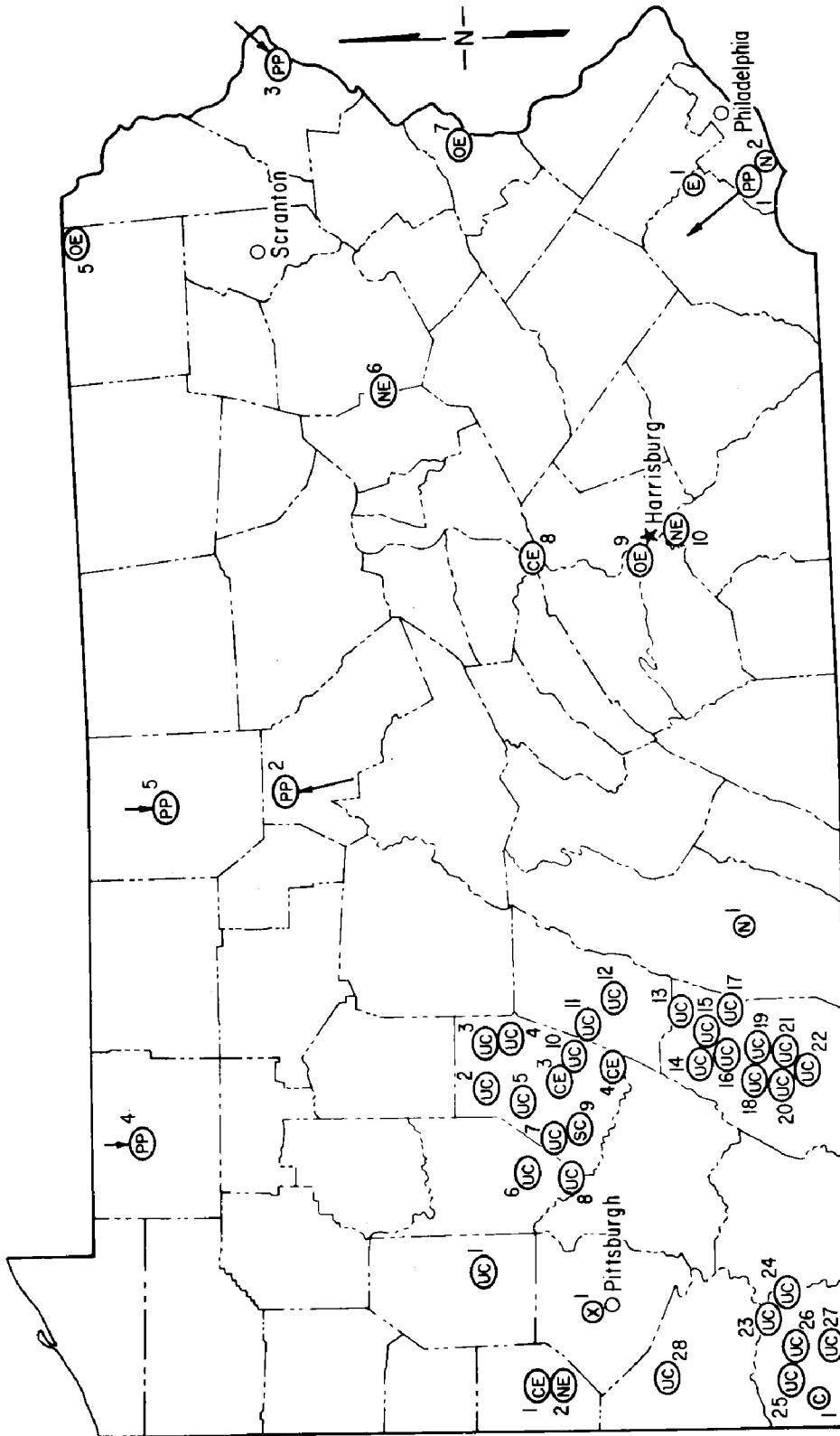
Map ref. No.	Plant name and location	Operating company	Type	Initial operating date	Planned capacity	Remarks	Data sources
U1..	Pike-ton Uranium Enrichment Plant--Portsmouth, Scioto County.	Goodyear Atomic Corp. under contract with Energy Research Development Administration (ERDA).	Gaseous diffusion	?	9 million separative work units.	Expansion plans are very tentative. Recent decision was made to locate a new centrifuge facility at Pike-ton. Not clear at this time whether the centrifuge project will preempt this one or whether both will be constructed concurrently.	1, 8

TABLE 113. - Previously reported energy development projects which have been completed or canceled in Ohio

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Island Creek Coal Co., Lexington, KY Gilbert Fuel Co., Bloomington, OH	Vail No. 20 mines--Southwest Harrison County. Crown City Mine--4 miles northwest of Crown City, Gallia County.	1976	- 1976	Closed Feb. 27, 1976. No indication that it will be reopened. Capacity reached.

## List of Data Sources for Ohio

1. U.S. Bureau of Mines State Liaison Officer for Ohio.
2. National Coal Association. Steam-Electric Power Plant Factors, 1976.  
128 pp.
3. Ohio Power Siting Commission. Review of Forecast Reports, 1976.
4. Columbus Dispatch, March 22, 1977.
5. The Herald-Dispatch (Huntington, W. Va.), June 3, 1977.
6. Cleveland Plain Dealer, March 9, 1977.
7. \_\_\_\_\_. June 25, 1976.
8. \_\_\_\_\_. Columbus Dispatch, Apr. 24, 1977.
9. Oil and Gas Journal, October 6, 1975.
10. U.S. Bureau of Mines State Liaison Officer for Michigan.
11. Coal Age, February 1977.



LEGEND

- UC Underground coal mine
- SC Surface coal mine
- CE Coal-fired electric generating plant
- NE Nuclear electric generating plant
- PP Gas / oil pipeline
- OE Electric generating plant using energy forms other than coal or nuclear
- ⊙ Coal conversion plant
- Ⓝ Natural gas storage and/or processing plant
- ⊗ Terminal facility
- ⓔ Electric generating plant which has been ordered to convert to coal

FIGURE 20: - Future fuel-related projects in Pennsylvania.

TABLE 114. - Future coal mines in Pennsylvania

Map ref. No.	Mine name and location	Operating company	Mine type	Planned capacity, million tons, and year	Bureau of Mines as-received analytical information	Coalbed thickness, inches	Depth or overburden thickness, feet	Remarks	Data sources
UC1	No. 91--near Saxonburg, Butler County.	Bethlehem Mines Corp., Bethlehem, PA	Underground	0.3 --1976 .5 --1977	-	Upper Freeport--52	-	Expansion of existing capacity. Marketed as metallurgical coal. Formerly owned by Union Carbide--reopened 1975.	1, 2
UC2	Urling No. 1--Indiana County.	Rochester and Pittsburgh Coal Co., Indiana, PA	...do.....	.3 --1977 .6 --1978 1.0 --1979	-	Lower Freeport--54	332	New mine. Marketed as steam coal to the Keystone Generating Plant, Elderton, PA	1, 2
UC3	Urling No. 2--Indiana County.	.....do.....	...do.....	.01--1976 .3 --1977 .4 --1978	-	Upper Freeport	256	.....do.....	1, 2
UC4	Urling No. 3--Indiana County.	.....do.....	...do.....	.1 --1976 .3 --1977 .5 --1978	-	Lower Freeport--54	210	New mine. Marketed as steam coal.	1, 2
UC5	Tanoma Mine--Dixonville, Indiana County.	Barnes and Tucker Co., Haverford, PA	...do.....	.06--1980 .60--1983	-	-	-	New mine. Marketed as metallurgical coal.	2
UC6	Emilie No. 4--Elderton, Armstrong County	Rochester and Pittsburgh Coal Co., Indiana, PA	...do.....	.1 --1977 .2 --1978	-	Upper Freeport--40	174	New mine. Marketed as steam coal.	1, 2
UC7	Lucerne No. 9--near Clarksburg, Indiana County.	Helvetia Coal Co., Indiana, PA	...do.....	.4 --1977 .7 --1978	-	Lower Freeport	-	New mine. Supplies Homer City Power Plant with steam coal.	1, 2
UC8	Dianne Mine--Avonmore, Armstrong County.	Canterbury Coal Co., Avonmore, PA	...do.....	.25--1977 .4 --1978	-	-	-	New mine. Marketed as steam coal.	2
SC9	Iselin No. 9--Iselin, Indiana County.	Rochester and Pittsburgh Coal Co., Indiana, PA	Surface.....	.4 --1977	-	-	-	.....do.....	2
UC10	No. 4--Five Points, Indiana County.	Old Home Manor, Inc., Homer City, PA	Underground	.2 --1976 .4 --1977	-	44	-	Expansion of existing capacity. Marketed as steam coal.	1, 2
UC11	Yellow Creek Mine--Vintondale, Cambria County.	Barnes and Tucker Co., Haverford, PA	...do.....	.2 --1979 1.0 --1980 1.7 --1982	-	-	-	New mine. Marketed as steam coal.	2
UC12	No. 38E--north of Ehrenfield, Cambria County.	Bethlehem Mines Corp., Bethlehem, PA	...do.....	.1 --1976 .2 --1977 .4 --1978	-	Upper Freeport--41	25-250	Expansion of existing capacity. Marketed as metallurgical coal.	1, 2
UC13	No. 78--Windber, Somerset County.	.....do.....	...do.....	.2 --1976 .5 --1978	-	Upper Kittanning--48	300-500	.....do.....	1, 2
UC14	Grove No. 3--Somerset County.	G. M. & W. Coal Co., Inc., State Line, PA	...do.....	.2 --1976 .6 --1977	-	Upper Freeport--60	-	Expansion of existing capacity. Marketed as steam coal.	1, 2
UC15	Grove No. 4--Somerset County.	.....do.....	...do.....	.4 --1977 .6 --1978	-	Upper Freeport--72	-	New mine. Marketed as steam coal.	1, 2
UC16	North Somerset No. 1--Hooversville, Somerset County.	North Somerset Mining Co., Hooversville, PA	...do.....	.3 --1976 .4 --1978	-	Lower Kittanning--48	-	.....do.....	1, 2
UC17	Laurel Mine--Reels Corners, Somerset County.	Consolidation Coal Co., Pittsburgh, PA	...do.....	.3 --1976 .7 --1977	-	Lower Kittanning--48	176	Mine developed to supply metallurgical coal to National Steel Corp. Expansion of existing capacity.	1, 2

TABLE 114. - Future coal mines in Pennsylvania--Continued

Map ref. No.	Mine name and location	Operating company	Mine type	Planned capacity, million tons, and year	Bureau of Mines as-received analytical information	Coalbed thickness, inches	Depth or overburden thickness, feet	Remarks	Data sources
UC18	Solar Fuel No. 11-- Stoystown, Somerset County.	Solar Fuel Co., Somerset, PA (recently acquired by Gulf & Western).	Underground	0.05--1979 .15--1980 .30--1981	-	-	-	New mine. Marketed as metallurgical coal.	2
UC19	Solar Fuel No. 12-- Stoystown, Somerset County.	.....do.....	.....do.....	.2 --1976 .3 --1977	-	-	-	.....do.....	2
UC20	Solar Fuel No. 7-- Stoystown, Somerset County.	.....do.....	.....do.....	.2 --1976 .3 --1977	-	42	-	.....do.....	1, 2
UC21	Solar Fuel No. 10-- Stoystown, Somerset County.	.....do.....	.....do.....	.1 --1977 .2 --1978 .5 --1981	-	-	-	.....do.....	2
UC22	Solar Fuel No. 9-- Stoystown, Somerset County.	.....do.....	.....do.....	.1 --1976 .2 --1977	-	Upper Freeport--48	-	.....do.....	1, 2
UC23	Henderson Mine-- Northeast Greene County near Monongahela River.	Jones & Laughlin Steel Corp., California, PA	.....do.....	"	-	-	-	37,000 acres acquired. Mining to begin in 1980. Marketed as metallurgical coal.	1, 2
UC24	Dilworth Mine--Rices Landing, Greene County.	U.S. Steel Corp., Pittsburgh, PA	.....do.....	.4 --1976 2.0 --1977 4.0 --1979	-	Pittsburgh--85	160-540	Expansion to full capacity. Supplies Clairton.	1, 2
UC25	Emerald No. 1-- W. Waynesburg, Greene County.	Emerald Corp., Pittsburgh, PA	.....do.....	.2 --1977 .7 --1978 2.0 --1979	-	80	400	New mine. Marketed as metallurgical coal.	1, 2
UC26	Emerald No. 2-- W. Waynesburg, Greene County.	.....do.....	.....do.....	.4 --1977 1.0 --1978 1.6 --1979 2.0 --1980	-	80	-	.....do.....	1, 2
UC27	Cumberland Mine--Kirby, Greene County.	U.S. Steel Corp., Pittsburgh, PA	.....do.....	1.0 --1977 1.6 --1978 3.0 --1980	S--1.8%	Pittsburgh--80	-	Will supply Ontario Hydro's plant at Nanticoke with steam coal. New mine.	1, 2
UC28	Westland--Westland, Washington County.	Consolidation Coal Co., Pittsburgh, PA	.....do.....	.15--1977 .25--1978	-	60	-	Steam coal to be cleaned at Consol's Champion prep. plant. New mine.	1
-	Various operations-- unlocated.	Benjamin Coal Co., LaJose, PA	Surface.....	1.7 --1976 1.8 --1977 2.1 --1980 2.6 --1985	-	-	-	Benjamin coal opens an aver- age of 2 steam coal opera- tions a month. Past operations in Clearfield County.	1, 2
-	Unnamed--unlocated.....	Oak Run Coal Co., Uniontown, PA	Underground	.5 --1977 1.0 --1978	-	-	-	New mine. Marketed as steam coal. Past operations in Butler County.	2

TABLE 115. - Future electric generating plants in Pennsylvania

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
CE1.	Mansfield-- Shippingport, Beaver County.	Duquesne Light Co., Pittsburgh, PA	Coal--4.0....	2 3	825 825	1977 1979	-	3
NE2.	Beaver Valley Power Station-- Shippingport, Beaver County.	Duquesne Light Co., Pittsburgh, PA, and Ohio Edison Co., Akron, OH	Nuclear.....	2	1,650 873	1981	-	3
CE3.	Homer City-- Homer City, Indiana County.	Pennsylvania Electric Co., Johnstown, PA	Coal--1.4....	3	650	1977	-	3
CE4.	Seward--Seward, Indiana County.	General Public Utilities, Reading, PA	Coal--1.8....	7	800	1984	-	3
OE5.	Susquehanna, Susquehanna County.	Pennsylvania Power and Light, Allentown, PA	Oil.....	1-2	16	1980	Diesel engine.....	1
NE6.	Susquehanna Steam Electric Station-- Berwick, Columbia County.	Pennsylvania Power and Light, Allentown, PA	Nuclear.....	1 2	1,050 1,050 2,100	1980 1982	-	3
OE7.	Martins Creek, Martins Creek, Northampton County.	.....do.....	Oil.....	4	820	1977	-	3
CE8.	Z-2--unlocated.....	.....do.....	Coal--1.8....	1	800	1989	Site unspecified as yet. Proposed locations included in the area along the Susquehanna River Bounded by Sunbury, Northumberland County, and Harrisburg, Dauphin County. Pumped storage.....	1, 3
OE9.	Stoney Creek Station-- Harrisburg, Dauphin County.	Pennsylvania Power and Light, Allentown, PA	Hydroelectric	1-3 4-6	855 855 1,710	1987 1989	-	1, 4
NE10	Three Mile Island Nuclear Station-- Goldsboro, York County.	Jersey Central Power, Morristown, NJ	Nuclear.....	2	880	1978	-	3

TABLE 116. - Future coal conversion plants in Pennsylvania

Map ref. No.	Plant name and location	Operating company	Type and process	Initial operating date	Estimated capacity	Remarks	Data sources
Cl..	Unnamed--Greene County.	CNG Coal Co., subs. of Consolidated Natural Gas.	Gasification.	1980's	-	Will adopt a proven process. Operator reportedly owns 300 million tons of recoverable coal and has purchased an additional 29,000 acres of reserves. Clean coal and chemical byproducts produced.	1, 9
-	Unnamed--unlocated.....	Gulf Oil Corp., with MITSUI of Pittsburgh, PA	Solvent refined coal.	-	-		1

TABLE 117. - Future petroleum and natural gas pipelines in Pennsylvania

Map ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Remarks	Data sources
		Origin	Destination						
PP1.	Transcontinental Gas Pipeline Corp., Houston, TX	Marcus Hook, Delaware County, PA	Malvern, Chester County, PA	22	Gas.	1978	36	Petition filed 1975.....	5
PP2.	Consolidated Natural Gas Co., Pittsburgh, PA	Loudoun County, VA	Doyleburg, Clinton County, PA	190	Gas.	1978	-	Distribution of natural gas from Cover Point, MD	6, 11
PP3.	Temeco Atlantic Pipe Line Co., Concord, NH	St. John, New Brunswick, Canada.	Nassau, NY, Milford, PA, with an interconnect at Concord, NH	500	Gas.	1980's	36	Algerian LNG will be shipped to St. John, regasified, and fed into the pipeline. Plans are still tentative. Capacity = 1,140,000 Mcf/day; Cost = \$546,366,000 (1976). (See Maine.)	7
PP4.	Columbia Gas Transmission Corp., Wilmington, DE	Chautauqua County, NY	Warren County, PA	10.5	Gas.	-	6		12
PP5.	Natural Fuel Gas Supply Corp., Oil City, PA	Allegany County, NY	Ellisburg, Potter County, PA	17.7	Gas.	1979	-	Line from Allegany County. Storage pools to inter-state transmission lines.	13

TABLE 118. - Future terminal facilities in Pennsylvania

Map ref. No.	Terminal location	Operating company	Type	Capacity, million tons/yr	Initial operating date	Remarks	Data sources
X1..	Duquesne, Allegheny County.	Union Railroad Co., Pittsburgh, PA	-	12	1978	Coal transfer facility to be built by Holley, Kenney, Schott, Inc. Cost = \$4-\$5 million.	10

TABLE 119. - Future natural gas processing and storage facilities in Pennsylvania

Map ref. No.	Facility name and location	Operating company	Initial operating date	Throughput or storage capacity, thousand cu ft	Remarks	Data sources
N1..	Artemas B Gas Storage, Bedford County.	Columbia Gas Transmission Corp., Wilmington, DE	-	2,700,000	Natural cavern storage facility. Expansion of existing plant.	1, 6
N2..	Located at Sun Oil Co.'s Refinery and tank farm southwest of Philadelphia in Delaware County.	Sun Oil Co., St. Davids, PA	-	1,186,000 bbl of LPG	Largest manmade LPG underground storage facility. Gas stored at 60° F and 90 psi under 420 ft of granite.	8

TABLE 120. - Generating plants receiving preliminary ESECA notice to convert to coal in Pennsylvania

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr for coal)	Capacity, megawatts	Remarks	Data sources
E1..	Cromby (1 unit) -- Phoenixville, Chester County.	Philadelphia Electric Co., Philadelphia, PA	Oil to coal -- 1.1	392	Received prohibition order June 30, 1977.	4, 5

TABLE 121. - Previously reported energy development projects which have been completed or canceled in Pennsylvania

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Jointly funded by government and private industry.	Coal gasification plant in Homer City, Indiana County.	-	1976	-
Interstate Energy Co.	Oil pipeline--Lower Chichester, Delaware County, to Easton Northampton County.	-	1976	-
U.S. Steel Corp., Pittsburgh, PA	Rail Spur--Kirby, Greene County, to Alicia, Greene County.	-	1976	-
Do.....	Unit train loading facility at Cumberland Mine--Kirby, Greene County.	-	1976	-
Apco Oil Corp., Oklahoma City, OK	Naphtha Refinery--Chester, Delaware County.	1975	-	Suspended.
Philadelphia Electric Co., Philadelphia, PA	Limerick Nuclear Generating Station--Units 1 and 2.	1976	-	-
Rochester and Pittsburgh Coal Co., Indiana, PA	Margaret No. 11 Mine--central Armstrong County.	-	1976	Expansion complete.
North American Coal Co., Cleveland, OH	Josephine No. 2 Mine--Indiana County.	-	1976	Do.
Helvetia Coal Co., Indiana, PA	Lucerne No. 8 Mine--near Clarksburg, Indiana County.	-	1976	Do.
Old Home Manor, Inc., Homer City, PA	No. 8 mine--Brush Valley, Indiana County.	-	1976	Expansion complete.

## List of Data Sources for Pennsylvania

1. U.S. Bureau of Mines State Liaison Officer for Pennsylvania.
2. Coal Age, February 1977.
3. National Coal Association. Steam-Electric Power Plant Factors, 1976. 128 pp.
4. Electrical World. New Capacity Additions Planned or in Construction (as of April 1, 1975). 65 pp.
5. Oil and Gas Journal, October 6, 1975.
6. Engineering News Record, June 26, 1975.
7. U.S. Bureau of Mines State Liaison Officer for Maine.
8. Federal Power Commission.
9. Coal Age, mid-May 1975.
10. Pittsburgh Post Gazette, March 13, 1976.
11. U.S. Bureau of Mines State Liaison Officer for Delaware.
12. Oil and Gas Journal, April 25, 1977.
13. Federal Power Commission. Certified Pipeline Docket CP 76-492.

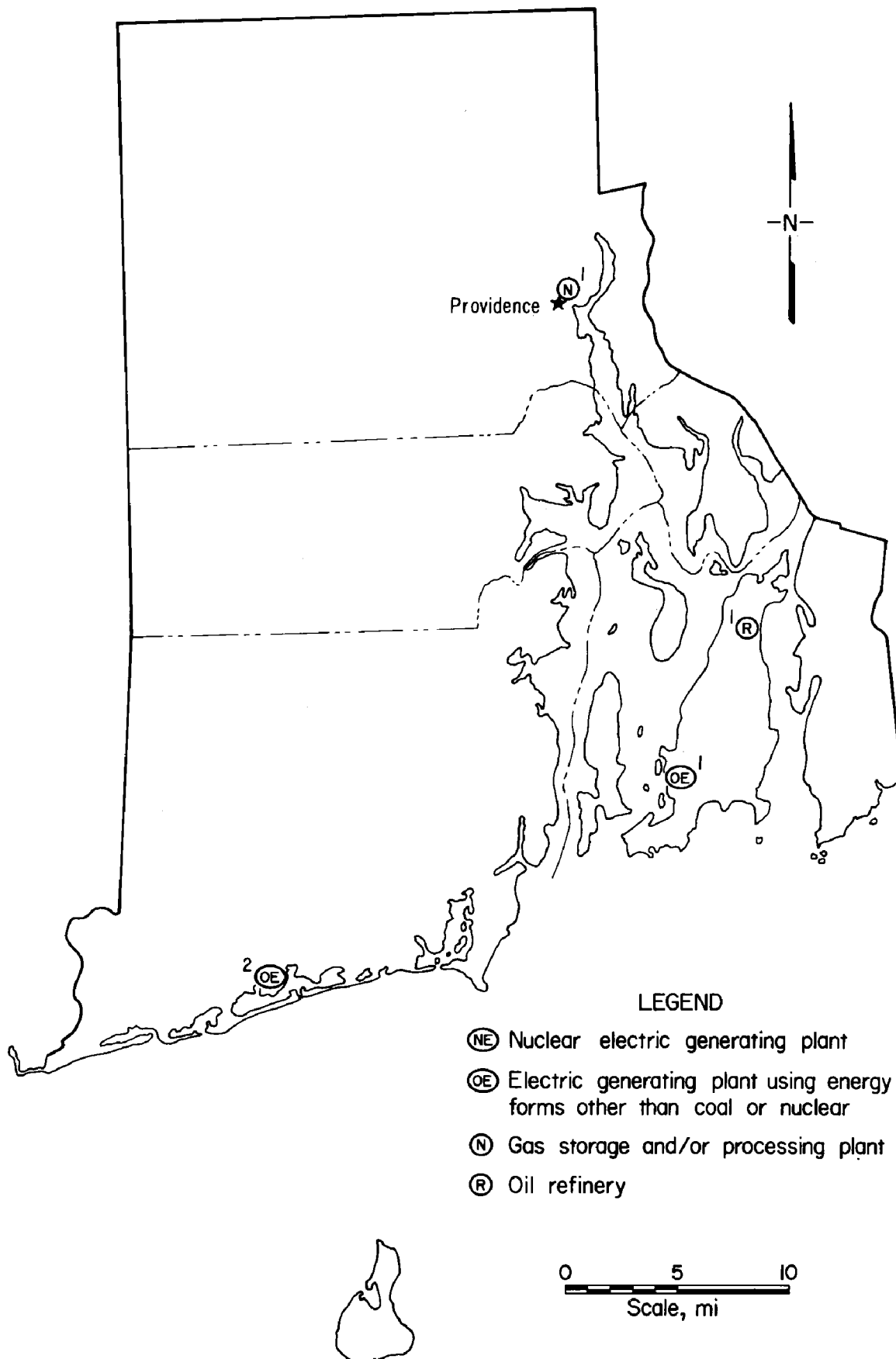


FIGURE 21. - Future fuel-related projects in Rhode Island.

TABLE 122. - Future electric generating plants in Rhode Island

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
OE1.	Unnamed --Newport, Newport County.	Newport Electric Co., Newport, RI	Diesel....	-	5.5	1978	Under study.	1
				-	2.8	1980		
				-	2.8	1981		
				-	2.8	1982		
NE2.	NEPCO--Charlestown, Washington County.	New England Power Co., Boston, MA	Nuclear..	1	1,150	1984	-	1, 3
				2	1,150	1986		
					2,300			

TABLE 123. - Future oil refineries in Rhode Island

Map ref. No.	Refinery name and location	Operating company	Initial operating date	Throughput capacity, thousand bbl/day of crude oil	Remarks	Data sources
R1.....	Unnamed --Portsmouth, Newport County.	Cumberland Farms, Inc., Canton, MA	-	250	Permit sought. New refinery.	1, 2

TABLE 124. - Future natural gas processing and storage facilities in Rhode Island

Map ref. No.	Facility name and location	Operating company	Initial operating date	Throughput or storage capacity, thousand cu ft	Remarks	Data sources
NI..	Providence Plant-- Providence, Providence County.	Algonquin LNG, Inc., Providence, RI.	-	6,000,000	Expansion of existing facility to double capacity. Peak load deliverability--24 MMcf/day.	1

List of Data Sources for Rhode Island

1. U.S. Bureau of Mines State Liaison Officer for Rhode Island.
2. Oil and Gas Journal, October 6, 1975.
3. National Coal Association. Steam-Electric Plant Factors, 1976, 128 pp.
4. Coal Age, June 1977.
5. Federal Energy Administration. Federal Energy News, June 30, 1977.

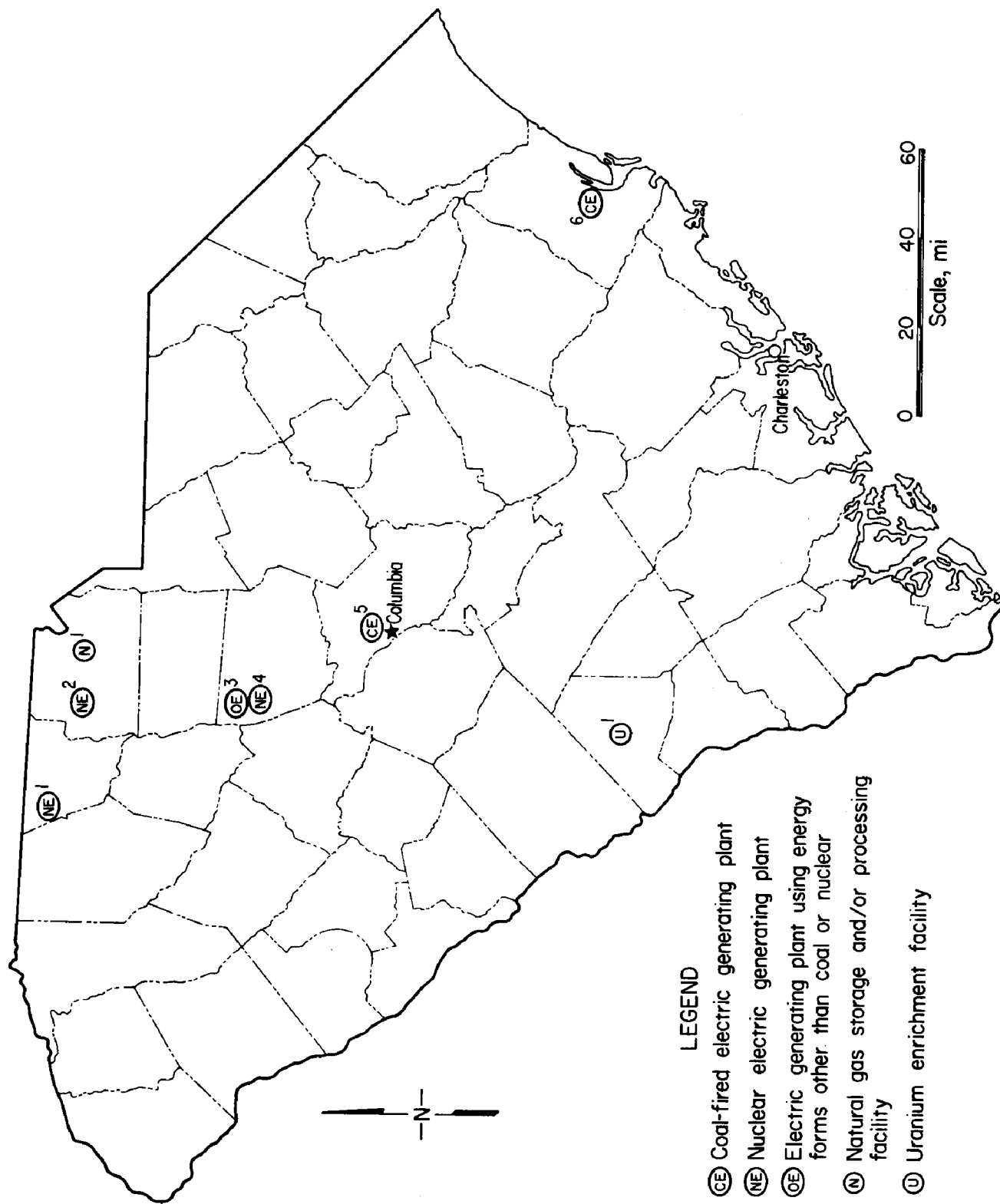


FIGURE 22. - Future fuel-related projects in South Carolina;

TABLE 125. - Future electric generating plants in South Carolina

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
NE1.	Cherokee Nuclear Station-- Cherokee County	Duke Power Co., Charlotte, NC	Nuclear.....	1	1,280	1984	-	1, 2
				2	1,280	1986		
				3	1,280	1989		
					3,840			
NE2.	Catawba Nuclear Station-- Lake Wylie, York County.	.....do.....	.....do.....	1	1,153	1981	-	1, 2
				2	1,153	1983		
					2,306			
OE3.	Fairfield--Parr, Fairfield County.	South Carolina Electric and Gas Co., Columbia, SC	Hydroelectric	1-4	240	1978	Pumped storage...	1
				5-8	240	1979		
					480			
NE4.	Virgil C. Summer, Nuclear Station-- Fairfield County.	.....do.....	Nuclear.....	1	900	1980	-	1, 2
CE5.	Unnamed-- Richland County	.....do.....	Coal.....	1	-	1984	Final site not selected.	1, 2
				2	-	1986		
				2	280	1977		
CE6.	Georgetown-- Georgetown, Georgetown County.	South Carolina Public Service Authority, Moncks Corner, SC	Coal--1.0....	3	280	1982		
				4	280	1984		
					840			

TABLE 126. - Future natural gas processing and storage facilities in South Carolina

Map ref. No.	Facility name and location	Operating company	Initial operating date	Throughput or storage capacity, thousand cu ft	Remarks	Data sources
N1..	Propane Storage Cavern-- York County.	Carolina Pipeline Co., Columbia, S.C., and Transcontinental Gas Pipeline Corp., Houston, TX	1978	50,000,000 gal	Proposed expansion of Carolina Pipeline Co.'s existing 16,000,000-gal cavern. Company produces propane gas to supplement natural gas supplies on cold winter peak days.	1

TABLE 127. - Future uranium mills and enrichment facilities in South Carolina

Map ref. No.	Plant name and location	Operating company	Type	Initial operating date	Planned capacity	Remarks	Data sources
U1..	Barnwell Nuclear Fuel Plant, Barnwell, Barnwell County	Allied General Nuclear Services, Inc. (conglomerate of Allied Chemical, Gulf Oil, and Shell).	Reprocessing plant.	-	-	Construction is complete but operation has been postponed due to uncertain Federal policy. Latest information indicates that the plant will not operate on a commercial basis but may be used as an international training center for the safe reprocessing of plutonium. Construction was privately funded.	1, 3

TABLE 128. - Previously reported energy development projects which have been completed or canceled in South Carolina

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
South Carolina LNG Co., Goose Creek, SC	Bush Park LNG facility-- Goose Creek, SC	-	1976	System is operational.
Duke Power Co., Charlotte, NC	Jocassee Pumped Storage Plant--Units 3 and 4--Oconee County.	-	1975	-

List of Data Sources for South Carolina

1. U.S. Bureau of Mines State Liaison Officer for South Carolina.
2. National Coal Association. Steam Electric Plant Factors, 1976, 128 pp.
3. The Charlotte Observer, June 19, 1977.

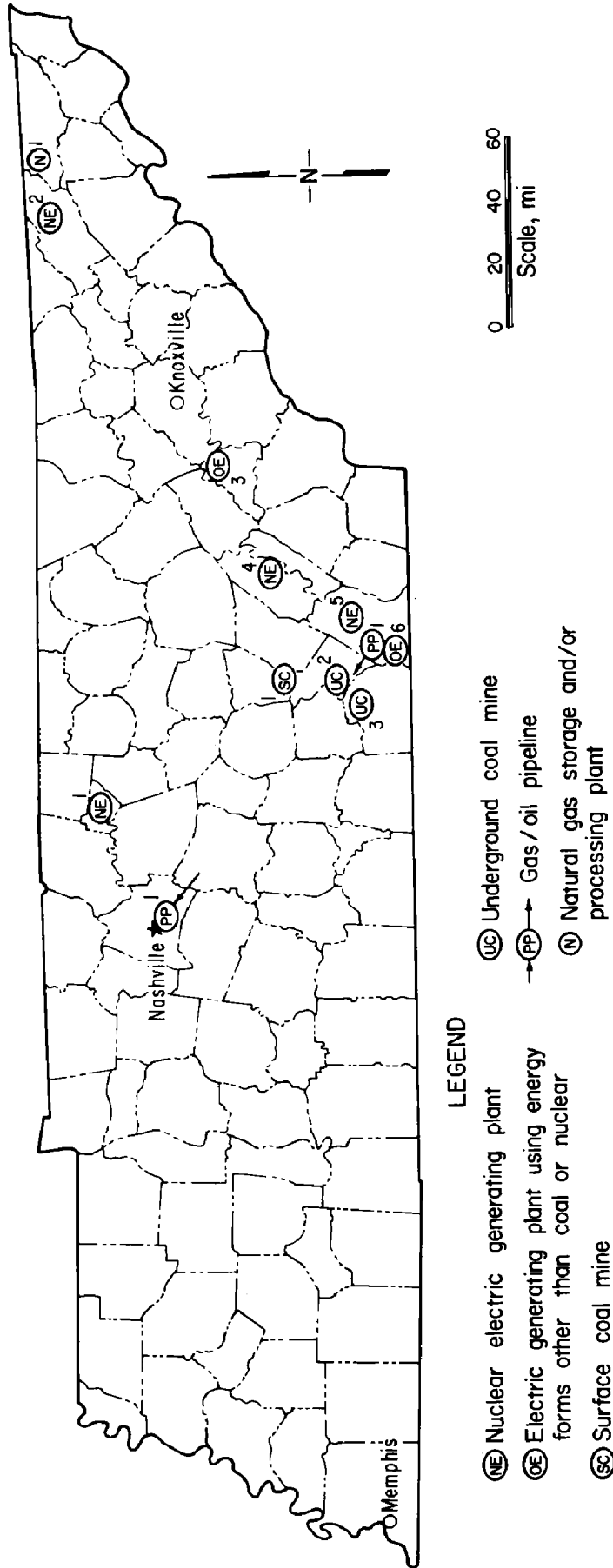


FIGURE 23: - Future fuel-related projects in Tennessee.

TABLE 129. - Future coal mines in Tennessee

Map ref. No.	Mine name and location	Operating company	Mine type	Planned capacity, million tons, and year	Bureau of Mines as-received analytical information	Coalbed thickness, inches	Depth or overburden thickness, feet	Remarks	Data sources
UC1.	Amax--Tenn. No. 1-- Bledsoe, Van Buren and Sequatchie Counties.	Amax--Tenn., Dunlap, TN	Strip.....	0.6--1977 1.4--1978	S--1.6% Btu--13,300 Ash--12.4%	36	150	New mine. Will be Tennessee's largest surface operation. Has been delayed indefinitely because of environmental conflicts. Marketed as metallurgical coal.	1, 2
UC2.	Nos. 24, 28, and 30-- Sequatchie County.	Grundy Mining Co., Jasper, TN	Underground	1.3--1977 (includes No. 21)	S--1.2% Btu--13,500 Ash--10.9%	36-40	-	Subs. of St. Joe Minerals. Expansion of existing capacity. Marketed as metallurgical coal.	1, 2
UC3.	No. 21-- Marion County.	.....do.....	.....do.....	Included in Nos. 24, 28, and 30	S--1.2% Btu--13,500 Ash--10.9%	36-40	-	.....do.....	1, 2

TABLE 130. - Future electric generating plants in Tennessee

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
NE1.	Hartsville Nuclear Plant-- Trousdale County.	Tennessee Valley Authority, Chattanooga, TN	Nuclear.....	-	5,148	1983	Includes 4 units; work began in April 1976.	1, 4
NE2.	Phipps Bend Nuclear Plant-- Hawkins	.....do.....	.....do.....	-	2,574	1984	Includes 2 units; work is scheduled to begin in 1977.	1, 4
OE3.	Tellico Dam-- Loudon County.	.....do.....	Hydroelectric	-	200	-	This project will have no powerhouse but will be connected by canal to Ft. Loudon Lake and will increase the capacity of that plant by the amount shown.	1
NE4.	Watts Bar Nuclear Plant-- Rhea County.	.....do.....	Nuclear.....	-	2,540	1979	Includes 2 units; plant under construction.	1, 4
NE5.	Sequoyah Nuclear Plant-- Hamilton County.	.....do.....	.....do.....	-	2,441	1978	Includes 2 units; under construction.	1, 4
OE6.	Raccoon Mountain Pumped storage-- Hamilton County.	.....do.....	Hydroelectric	-	1,530	1978	-	1

TABLE 131. - Future petroleum and natural gas pipelines in Tennessee

Map ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Remarks	Data sources
		Origin	Destination						
PP1.	Colonial Pipeline Co.	Chattanooga, Hamilton County.	Nashville, Davidson County.	60	Petroleum	-	10 and 12	-	3

TABLE 132. - Future natural gas processing and storage facilities in Tennessee

Map ref. No.	Facility name and location	Operating company	Initial operating date	Throughput or storage capacity, thousand cu ft	Remarks	Data sources
N1..	Kingsport, Sullivan County.	East Tennessee Natural Gas Co., Kingsport, TN	-	5,500	LNG plant.	5

TABLE 133. - Previously reported energy development projects which have been completed or canceled in Tennessee

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Tennessee Valley Authority, Chattanooga, TN	Salttillo Nuclear Plant-- Hardin County.	1976	-	Site was shifted to Yellow Creek, MS (see Future Electric Generating Plants in Mississippi, NEI).
Plateau Mining Co., Oak Ridge, TN	Plateau No.2 and No. 3 (underground coal mines)-- Campbell County.	1976	-	No current plants to expand capacity. Mine property is leased from TVA.

## List of Data Sources for Tennessee

1. U.S. Bureau of Mines State Liaison Officer for Tennessee.
2. Coal Age, February 1977.
3. Oil and Gas Journal, February 9, 1976.
4. National Coal Association. Steam-Electric Plant Factors, 1976. 128 pp.
5. Oil and Gas Journal, October 6, 1975.

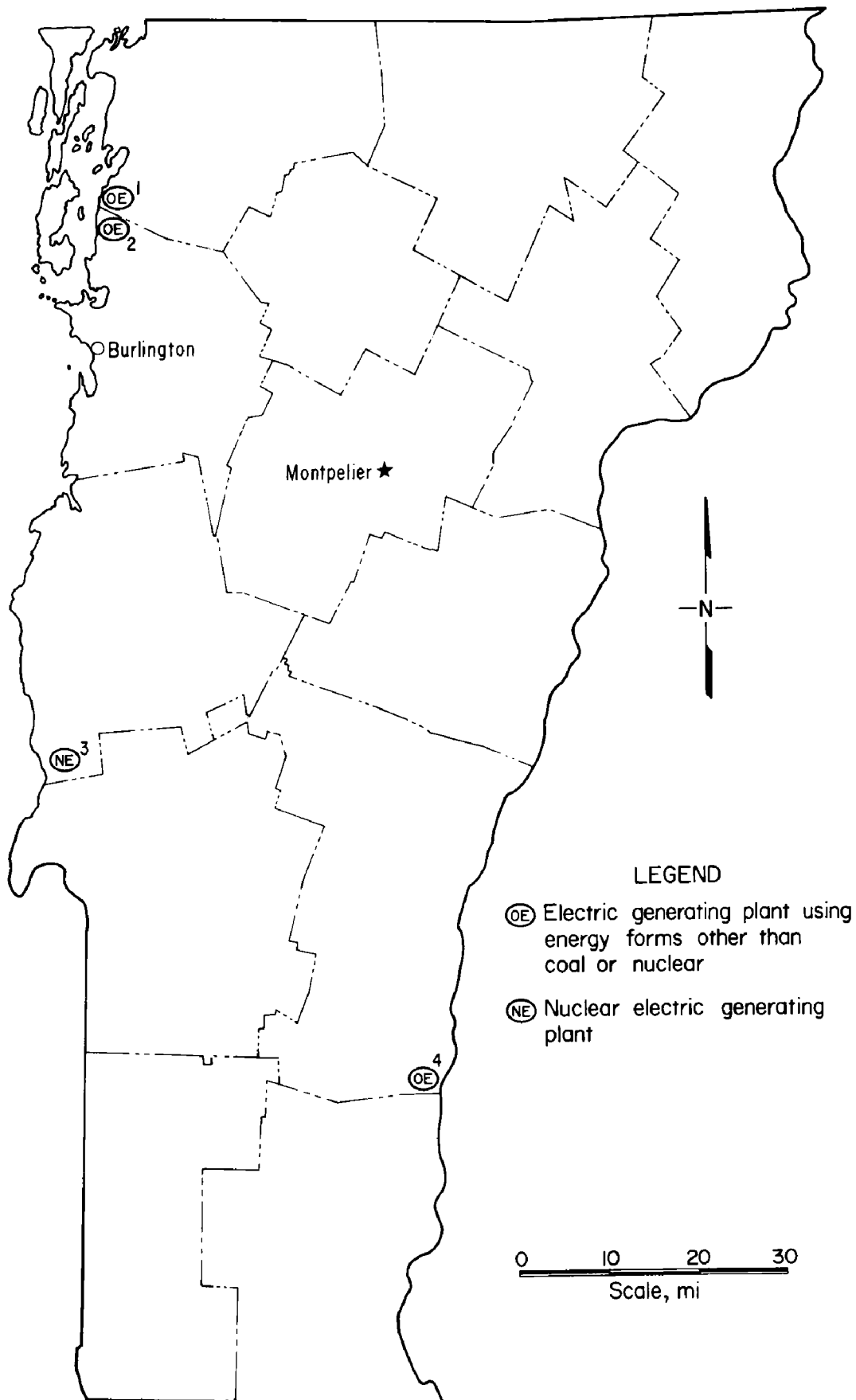


FIGURE 24. - Future fuel-related projects in Vermont.

TABLE 134. - Future electric generating plants in Vermont

Map ref. Mo.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
OE1.	Unnamed--Georgia, Franklin County.	Central Vermont Public Service Corp., Milton, VT	Oil or gas...	-	329	1977	Combined cycle....	2
OE2.	Green Mountain--Milton, Chittenden.	Green Mountain Power Co.	Wood waste...	-	-	-	Planned conversion of an obsolete oil-fired plant.	1
NE3.	Hough's Crossing--Orwell, Addison County.	Vermont Yankee Power Co., Vernon, VT	Nuclear.....	-	1,150	1988	Under study.....	1
OE4.	Black River--Springfield, Windsor County.	Springfield Municipal Power, Springfield, VT	Hydroelectric	-	22.5	1982	Planned.....	1

List of Data Sources for Vermont

1. U.S. Bureau of Mines State Liaison Office for Vermont.
2. National Coal Association. Steam-Electric Plant Factors (25th ed.), 1975.  
112 pp.



TABLE 135. - Future coal mines in Virginia

Map ref. No.	Mine name and location	Operating company	Mine type	Planned capacity, million tons, and year	Bureau of Mines as-received analytical information	Coalbed, thickness, inches	Depth or overburden, thickness, feet	Remarks	Data sources
UC1	Holton--Taggart--Appalachia, Wise County.	Westmoreland Coal Co., Philadelphia, PA	Underground	0.6 --1977 .7 --1978	-	66-72	-	Marketed as steam coal. Expansion of existing capacity.	1, 2
UC2	Virginia No. 2--St. Paul, Wise County.	Eastover Mining Co., Brookside, KY	...do.....	.3 --1976 .4 --1977	-	60-84	-	Marketed as steam coal. New mine.	1
UC3	McClure No. 1--McClure, Dickenson County.	Clinchfield Div., Pittston Co., Dante, VA	...do.....	.05--1977 1.0 --1983	-	60-84	-	Marketed as metallurgical coal. New mine.	1, 2
UC4	McClure No. 2--McClure, Dickenson County.	.....do.....	...do.....	.1 --1978 1.0 --1984	-	60-84	-	.....do.....	1, 2
UC5	McClure No. 3--McClure, Dickenson County.	.....do.....	...do.....	1.0 --1978	-	60-84	-	Marketed as metallurgical coal. New mine.	1
UC6	Virginia Pocahontas No. 5--Vansant, Buchanan County.	Island Creek Coal Co., Lexington, KY	...do.....	.1 --1977 1.1 --1981	-	48-60	-	Marketed as metallurgical coal. Joint venture with Alabama Byproducts Corp. New mine.	1, 2
UC7	Virginia Pocahontas No. 6--Vansant, Buchanan County.	.....do.....	...do.....	.1 --1979 1.1 --1983	-	48-60	-	Partially owned by Romanian interests. New mine.	1, 2
UC8	Amonate--Tazewell County, VA McDowell County, WV	Consolidation Coal Co., Pittsburgh, PA	...do.....	.1 --1977 .65--1981	-	-	-	Marketed as metallurgical coal. Mine had previously been worked for 30 years and has been abandoned for the past 16 years.	1, 2
-	Unnamed--unlocated.....	Pittston Co., New York, NY	...do.....	1.0 --1979	-	-	-	Marketed as steam coal.	1
-	.....do.....	.....do.....	...do.....	1.0 --1981	-	-	-	.....do.....	11

TABLE 136. - Future electric generating plants in Virginia

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
OE1	Bath County Power Plant--Bath County.	Virginia Electric and Power Co. Richmond, VA	Hydroelectric	1-6	2,100	1983	6 units at 350 Mw per unit. Units 1-3 will be completed by 1983; units 4-6, by 1984.	1
NE2	North Anna Power Station--Mineral, Louisa County.	.....do.....	Nuclear.....	1	934	1977	-	1, 2
				2	934	1978		
				3	938	1982		
				4	938	1983		
				3,744				
OE3	Smith Mountain Dam--Roanoke River, Campbell County.	.....do.....	Hydroelectric	5	100	1977	-	1
NE4	Surry Power Station--Gravel Neck, Surry County.	.....do.....	Nuclear.....	3	900	1986	Construction of these units has been temporarily suspended.	1
				4	900	1987		
					1,800			

TABLE 137. - Future petroleum and natural gas pipelines in Virginia

Map ref. No.	Operating company	Origin	Destination	Length, miles	Type	Initial operating date	Pipe diameter, inches	Remarks	Data sources
PP1 <sup>1</sup>	Consolidated Natural Gas Co., Pittsburgh, PA	Loudoun County, VA	Doylesburg, Clinton County, PA	190	Gas	-	-	-	4, 5
PP2	.....do.....	Cove Point, Calvert County, MD	Loudoun County, VA	87	Gas	-	-	-	4, 5
PP3	Columbia Gas Transmission Corp., Wilmington, DE	Augusta County, VA	Rockbridge County, VA	8.5	Gas	-	20	-	1

<sup>1</sup> Indicated on figure 25 but listed as a Pennsylvania pipeline project to avoid duplication.

TABLE 138. - Future oil refineries in Virginia

Map ref. No.	Refinery name and location	Operating company	Initial operating date	Throughput capacity, thousand bbl/day of crude oil	Remarks	Data sources
R1..	Unnamed--Portsmouth, Norfolk, Nansemond County.	Hampton Roads Energy Co., Portsmouth, VA	1979	183	New refinery	6

TABLE 139. - Generating plants receiving preliminary ESECA notice to convert to coal in Virginia

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity, megawatts	Remarks	Data sources
E1..	Chesterfield Nos. 3, 4, 5, and 6--Chester, Chesterfield County.	Virginia Electric and Power Co., Richmond, VA	Oil to coal-- 3.1.	1,354	Received prohibition order June 30, 1975.	7
E2..	Yorktown Nos. 1 and 2--Yorktown, York County.	.....do.....	Oil and gas to coal--0.9.	376	.....do.....	7
E3..	Portsmouth Nos. 1, 2, 3, and 4--Chesapeake, Northampton County.	.....do.....	Oil to coal-- 1.5.	650	.....do.....	7

## List of Data Sources for Virginia

1. U.S. Bureau of Mines State Liaison Officer for Virginia.
2. National Coal Association. Steam-Electric Plant Factors, 1976.
3. Coal Age, February 1977.
4. Engineering News Record, June 26, 1975.
5. U.S. Bureau of Mines State Liaison Officer for Delaware.
6. Oil and Gas Journal, Oct. 6, 1975.
7. Federal Energy Administration. Implementing Coal Utilization Provisions of Energy Supply and Environmental Coordination Act, April 1976.

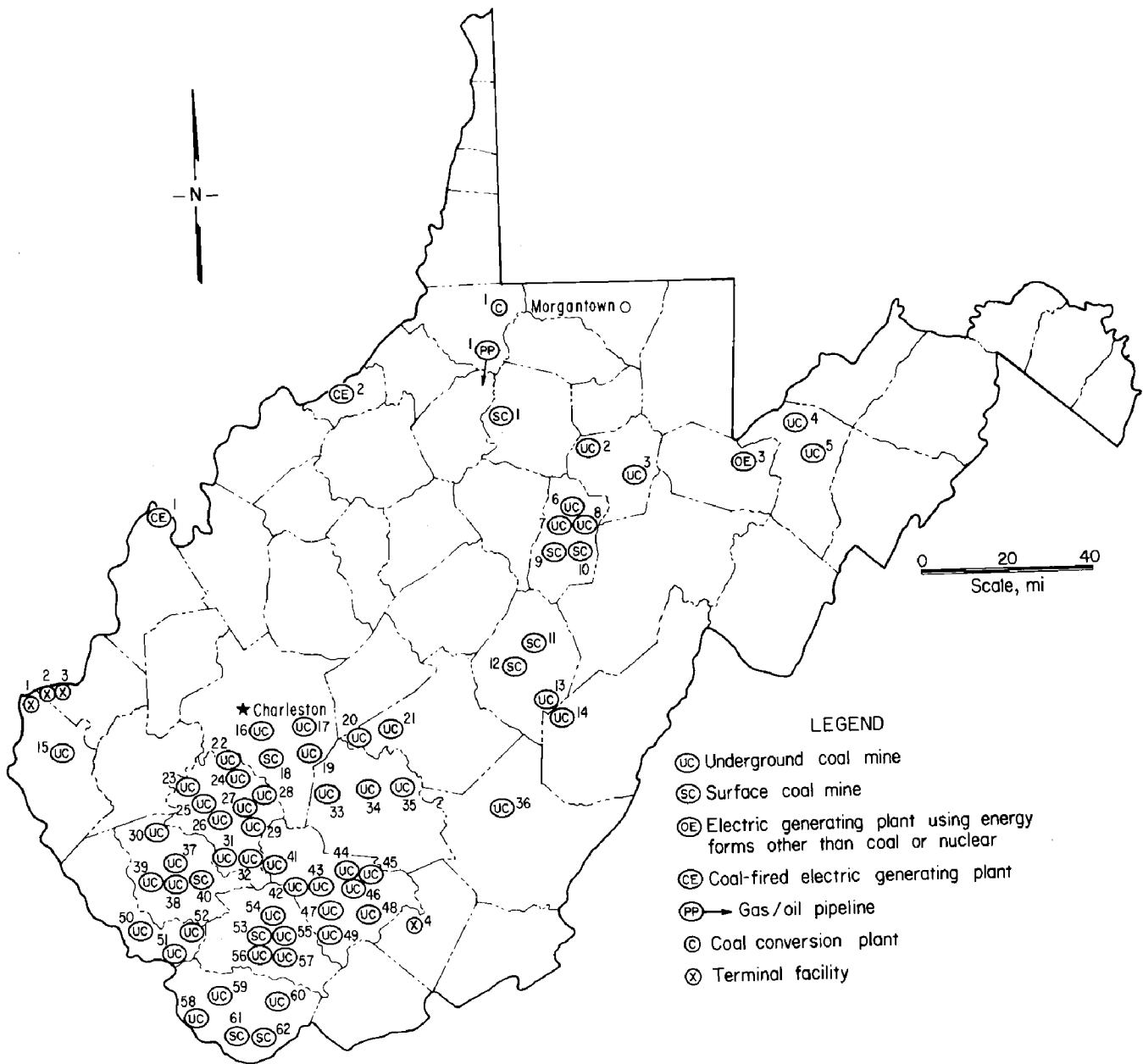


FIGURE 26. - Future fuel-related projects in West Virginia.

TABLE 140. - Future coal mines in West Virginia

Map ref. No.	Mine name and location	Operating company	Mine type	Planned capacity, million tons, and year	Bureau of Mines as-received analytical information	Coalbed thickness, inches	Depth of overburden, thickness, feet	Remarks	Data sources
SC1.	Grafton--Harrison County.	Grafton Coal Co., Clarksburg, WV	Surface.....	1.0 --1977 1.9 --1978	-	39	-	Expansion of existing capacity. Marketed as steam coal.	1
UC2.	Kitt Mine--Galloway, Barbour County.	Republic Steel Corp., Cleveland, OH	Underground.	.4 --1977 1.0 --1978 2.5 --1981	-	-	-	New mine. Marketed as metallurgical coal.	2
SC3.	Unnamed--Barbour County.	Barbour Coal Co., Clarksburg, WV	Surface.....	.8 --1977	-	50	-	Expansion of existing capacity. Marketed as metallurgical coal.	1
UC4.	No. 1--Mt. Storm, Grant County.	Laurel Run Mining Co., Richmond, VA	Underground.	1.5 --1977	-	74	-	Expansion of existing capacity. Marketed as steam coal.	1, 2
UC5.	Alpine No. 2--Grant County.	Island Creek Coal Co., Lexington, KY	.....do.....	.25--1977 .45--1978 .9 --1979	-	Bakerstown--60	-	New mine. Marketed as steam and metallurgical coal.	1, 2
UC6.	Grand Badger No. 1--Sago, Upshur County.	Badger Coal Co., New York, NY	.....do.....	.25--1977 .65--1978 1.25--1980	-	56	-	New mine. Marketed as metallurgical coal.	1, 2
UC7.	Grand Badger No. 2--Sago, Upshur County.	.....do.....	.....do.....	.4 --1977 .7 --1978 1.3 --1980	-	56	-	.....do.....	1
UC8.	Buckhannon--Sago, Upshur County.	.....do.....	.....do.....	.6 --1977 1.0 --1978	-	-	-	.....do.....	1
SC9.	Upshur No. 1--Upshur County.	Island Creek Coal Co., Lexington, KY	Surface.....	.25--1977 .5 --1978 1.0 --1979 4.7 --1983	-	-	-	Total production for both No. 1 and No. 2. New mines. Marketed as steam and metallurgical coal. See SC9.	2
SC10.	Upshur No. 2--Upshur County.	.....do.....	.....do.....	See remarks	-	-	-	.....do.....	2
SC11.	Cowen Tract--Webster County.	Allegheny Pittsburgh Coal Co., subs. Allegheny Power Service Corp., Greensburg, PA	.....do.....	1.1 --1979	-	Clarion--65	-	New mine. Marketed as steam coal.	1
SC12.	Nos. 1, 2, 3--Webster County.	P.&L. Coal Corp., Bergoo, WV	.....do.....	.55--1977 .8 --1978	-	-	-	New mines. Marketed as metallurgical and steam coal.	1, 2
UC13.	Sewell No. 1A--Webster County.	Powellton Co., Mallery, WV	Underground.	.07 --1980	-	Sewell--40	-	New mine. Marketed as metallurgical coal.	1, 2
UC14.	Sewell No. 2--Focahontas County.	.....do.....	.....do.....	.55--1980	-	Sewell--40	-	.....do.....	1, 2
UC15.	Wayne--East Lynn, Wayne County.	Monterey Coal Co., New York, NY	.....do.....	.4 --1977 1.4 --1978 4.4 --1979	-	Dorothy--60	-	Possibly two mines. New development. Marketed as metallurgical coal.	1, 2
UC16.	Unnamed--Kanawha County.	Carbon Fuel Co., Charleston, WV	.....do.....	.7 --1976 .9 --1977	-	-	-	Expansion of existing capacity. Marketed as metallurgical coal.	2

UC17	Donaldson Mine-- Cedar Grove, Kanawha County.	Valley Camp Coal Co., Cleveland, OH	.....do.....	.5 --1976 1.0 --1977 2.0 --1979	-	-	-	New mine. Marketed as steam coal.	2
SC18	Davison and Marmet-- Kanawha County.	Southern Appalachia Coal Co., subs. A.E.P. Inc., New York, NY	Surface.....	.2 --1977 .4 --1978	-	Stockton "A"	-	.....do.....	1, 2
UC19	Cedar Grove-- Kanawha County.	Valley Camp Coal Co., Cleveland, OH	Underground.	1.5 --1977 2.0 --1979	-	-	-	Expansion of existing capacity. Marketed as steam coal.	1
UC20	Twenty Mile Creek-- Vaughan, Nicholas County.	Bethlehem Mines Corp., Bethlehem, PA	.....do.....	.6 --1982 1.6 --1985	-	45	-	New mine. Marketed as metallurgical coal.	1, 2
UC21	Jerry Fork--Drennen, Nicholas County.	.....do.....	.....do.....	.1 --1976 .4 --1977	-	45	-	Expansion of existing capacity. Marketed as metallurgical coal	1, 2
UC22	Madison Mine--Peytona, Boone County.	Kanawha Coal, subs. Pickands Mather, Cleveland, OH	.....do.....	1.0 --1978	-	42	-	New mine. Marketed as metallurgical coal.	1
UC23	Ivy Creek--Julian, Boone County.	Southern Appalachia Coal Co., subs. A.E.P. Inc., New York, NY	.....do.....	.3 --1976 .5 --1977 .8 --1978	-	40	-	Expansion of existing capacity. Marketed as steam coal.	1, 2
UC24	Indian Creek Mine-- Peytona, Boone County	Cannelton Industries, Inc., Cannelton, WV	Underground.	1.0 --1978	-	-	-	New mine. Marketed as metallurgical coal.	1, 2
UC25	Twin Poplar No. 1, Boone County.	Cedar Coal Co., subs. A.E.P., Inc., New York, NY	.....do.....	.1 --1977 .3 --1978	-	Campbell Creek--50	-	New mine. Marketed as steam coal.	1, 2
UC26	Big John No. 4-- Boone County.	.....do.....	.....do.....	.1 --1977 .3 --1978	-	Cedar Grove--48	-	.....do.....	1, 2
UC27	Big John No. 3-- Boone County.	.....do.....	.....do.....	.2 --1977	-	-	-	.....do.....	1
UC28	Big John No. 2-- Boone County.	.....do.....	.....do.....	.1 --1977 .3 --1978	-	-	-	.....do.....	1
UC29	Coalburg No. 1-- Boone County	.....do.....	.....do.....	.2 --1977 .4 --1978	-	Coalburg--55	-	.....do.....	1, 2
UC30	No. 131--Van, Boone County.	Bethlehem Mines Corp., Bethlehem, PA	.....do.....	.6 --1977 .8 --1978	-	54	-	Expansion of existing capacity. Marketed as metallurgical coal	1
UC31	Lightfoot No. 1-- Pond Fork-- Boone County.	Eastern Assoc. Coal Co., Pittsburgh, PA	.....do.....	.18 --1977 .22 --1978 .75 --1981	-	-	-	New mine. Marketed as metallurgical coal.	1, 2
UC32	Lightfoot No. 2-- Pond Fork, Boone County.	.....do.....	.....do.....	.21 --1977 .31 --1978 .75 --1981	-	-	-	.....do.....	1, 2
UC33	Beard's Fork (2 mines)-- Beard's Fork, Fayette County.	Hawley Fuels Corp., New York, NY	Underground and surface	1.4 --1977	-	Littleton--32, Powellton--30	-	New mines. Marketed as metallurgical coal	2
								Btu--12,000 to 13,800 S--0.8% Ash--6 to 10%	

TABLE 140. - Future coal mines in West Virginia--Continued

Map ref. No.	Mine name and location	Operating company	Mine type	Planned capacity, million tons, and year	Bureau of Mines as-received analytical information	Coalbed thickness, inches	Depth or overburden thickness, feet	Remarks	Data sources
UC34	Unnamed (5 mines)-- Fayette City, Fayette County.	Riverton Coal Co., Oak Hill, WV	Underground and surface	0.7 --1977 1.0 --1978	-	Campbell Creek, Eagle and No. 5 Block-- Total 42-58. 40	-	New mines. Marketed as steam coal.	1, 2
UC35	Meadow River--Lookout, Fayette County.	Sewell Coal Co., subs., Pittston Co., New York, NY	Underground.	.31--1976 .45--1977 .90--1979	-	40	-	Expansion of existing capacity. Marketed as metallurgical coal.	1, 2
SC36	Unnamed--Greenbrier County.	.....do.....	Surface.....	.2 --1976 .8 --1977 .9 --1978 .5 --1976 .7 --1977	-	39	-	.....do.....	1
UC37	Ferrel--Logan County..	Westmoreland Coal Co., Philadelphia, PA	Underground.	.4 --1978	-	Lower Cedar Grove--32	-	New mine.....	1
UC38	Melville Mine-- Logan County.	Metco Mining Corp., Stollings, WV	.....do.....	.3 --1978	-	Cedar Grove--46	-	New mine. Marketed as metallurgical and steam coal.	1, 2
UC39	Rum Creek--Lyburn, Logan County.	Elkay Mining Co., subs., Pittston Co., New York, NY	.....do.....	1.4 --1979 1.5 --1980	-	45	-	Expansion of existing capacity. Marketed as steam coal.	1
SC40	Unnamed--Logan County.	Island Creek Coal Co., Lexington, KY	Surface.....	1.0 --1977 1.2 --1978	-	-	-	New mine. Marketed as metallurgical coal.	2
UC41	Sundial Mine--Edwight, Raleigh County.	Armo Steel Corp., Middletown, OH	Underground.	.6 --1977 .9 --1978 1.0 --1979	-	Beckley--66	-	Expansion of existing capacity. Marketed as steam coal.	1, 2
UC42	Beckley Mine-- Glen Daniel, Raleigh County.	Beckley Coal Mining Co., Cannelton, WV	Underground.	1.0 --1976 1.5 --1977	-	Beckley--101	735	.....do.....	1, 2
UC43	Maple Meadow Mine-- Fairdale, Raleigh County.	Maple Meadow Mining Co., Cannelton, WV	.....do.....	.6 --1976 .9 --1977 1.25--1979	Moist--5% Ash--5% S--0.8% Btu--15,000 Vol. Mat--18%	-	-	New mine. Marketed as metallurgical coal.	1, 2
UC44	Baylor No. 1, Beckley, Raleigh County.	New River Co., subs., Chessie System, Cleveland, OH	.....do.....	.1 --1979 .3 --1980 .5 --1981	-	-	-	.....do.....	2
UC45	B.L.R. (New River)-- Beckley, Raleigh County.	.....do.....	.....do.....	.1 --1977 .3 --1978 1.0 --1980 1.2 --1978	-	-	-	.....do.....	1, 2
UC46	Beckley No. 3-- Beckley, Raleigh County.	Ranger Fuel Corp., subs., Pittston Co., New York, NY	.....do.....	.7 --1977 1.2 --1978	-	-	-	.....do.....	2
UC47	Keystone No. 5, Sophia, Raleigh County.	Affinity Mining Co., subs., Eastern Assoc. Coal Corp., Pittsburgh, PA	.....do.....	.8 --1977 1.0 --1978 1.2 --1980	-	Pocahontas No. 3	-	Expansion of existing capacity. Marketed as metallurgical coal	1, 2

UC48	Raleigh County-- Raleigh County.	Westmoreland Coal Co., Philadelphia, PA .....do.....	...do.....	0.3 --1978 .4 --1979 .7 --1981 .3 --1978 .4 --1979 .7 --1980 .5 --1978 1.5 --1979 2.0 --1980	-	-	-	-	New mine. Marketed as metallurgical coal .....do.....	2 1, 2
UC49	Triangle Mine--Tams, Raleigh County.	.....do.....	.....do.....		-	-	-	-	New mine. Marketed as steam coal.	2
UC50	Unnamed--Mingo County.	A.T. Massey Coal Co., Inc., subs., St. Joe Minerals, New York, NY .....do.....	Underground.	1.05 --1977 1.8 --1978 2.25 --1980 1.4 --1977 .4 --1978	-	-	-	-	New mines. Marketed as metallurgical coal .....do.....	2 1, 2
UC51	Unnamed (2 mines) Mingo and McDowell Counties.	.....do.....	.....do.....		-	-	-	-	Expansion of existing capacity. Marketed as metallurgical and steam coal.	1, 2
UC52	Unnamed (2 mines)-- Gilbert, Mingo County	Hawley Fuel Corp., New York, NY	Underground and surface		-	-	-	-	Expansion of existing capacity. Marketed as metallurgical and steam coal.	1, 2
UC53	Pocahontas Land Tract (GA34)-- Wyoming County.	Perry & Hilton, Inc., Beckley, WV	Surface.....		-	Sewell	-	-	New mine. Marketed as metallurgical coal.	1, 2
UC54	No. 52--Wyoming County	U.S. Steel Corp., Pittsburgh, PA	Underground.	1.0 --1977 2.0 --1978 3.0 --1979 4.0 --1980 .6 --1977	-	Pocahontas No. 3--54	-	-	Continued development of a reopened mine. Marketed as metal- lurgical coal.	1
UC55	Kepler Mine-- Pineville, Wyoming County.	National Steel Corp., Pittsburgh, PA	.....do.....		-	40	-	-	New mine.....	1
UC56	Lobo--County.	Robinson Phillips Coal Co., Pineville, WV	.....do.....		-	Sewell	-	-	Expansion of existing capacity. Marketed as metallurgical coal	2
UC57	National Pocahontas-- Pineville, Wyoming County.	National Steel Corp., Pittsburgh, PA	.....do.....	.4 --1976 .5 --1977 1.0 --1978	-	Pocahontas No. 3--42, Gilbert--30	-	-	New mine. Marketed as metallurgical and steam coal.	1, 2
UC58	Bradshaw Mine, Bradshaw, McDowell County.	Elkay Mining Co., subs., Pittston, New York, NY	Underground.	1.0 --1978	-	-	-	-	Expansion of existing capacity. Marketed as metallurgical coal	1
UC59	War Creek No. 5-- Coalwood, McDowell County.	Olga Coal Co., subs., Youngstown Steel, Youngstown, OH	.....do.....	.6 --1977 .8 --1978	-	48	-	-	New mine. Marketed as metallurgical coal.	1, 2
UC60	Glade Creek Mine-- McDowell County.	United Pocahontas Coal Co., Beckley, WV	.....do.....	.5 --1978	-	-	-	-	Expansion of existing Capacity. Marketed as metallurgical coal	1
UC61	Unnamed-- McDowell County.	Eastern Assoc. Coal Corp., Pittsburgh, PA	Surface.....	1.0 --1977	-	38	-	-	Expansion of existing Capacity. Marketed as metallurgical coal	1
UC62	.....do.....	.....do.....	.....do.....	1.0 --1978	-	34	-	-	.....do.....	1

TABLE 141. - Future electric generating plants in West Virginia

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources
				Unit No.	Mega-watts			
CE1.	Project 131 -- New haven, Mason County.	Appalachian Power Co., Roanoke, VA	Coal--3.5 to 3.8..	-	1,300	1980	-	1, 3
CE2.	Pleasants--St. Marys, Pleasants County.	Monongahela Power Co., Fairmont, WV	Coal--3.0.....	1	626	1980	-	1, 3
OE3.	Blackwater River-- Davis, Tucker County.	.....do.....	Hydroelectric.....	-	1,252 1,000	?	Four 250 Mw units; pumped storage. Decision on siting still pending.	1

TABLE 142. - Future coal conversion plants in West Virginia

Map ref. No.	Plant name and location	Operating company	Type and process	Initial operating date	Estimated capacity	Remarks	Data sources
CI.	Unnamed--Princeton, 50 miles west of Morgantown, Wetzel County.	Paramount Exploration, Inc., Waynesburg, PA	Underground gasification.	?	-	Contracted by ERDA. 7 wells are to be drilled commencing August 1977. Ignition of seam contingent on results of flow tests.	1, 6

TABLE 143. - Future petroleum and natural gas pipelines in West Virginia

Map ref. No.	Operating company	Proposed route		Length, miles	Type	Initial operating date	Pipe diameter, inches	Remarks	Data sources
		Origin	Destination						
PPI.	Consolidated Natural Gas Supply Corp., Clarksburg, WV	Hastings, Wetzel County.	Tonkin Compressor Station, Doddridge County.	20	Gas.....	1977	24	-	1

TABLE 144. - Future terminal facilities in West Virginia

Map ref. No.	Terminal location	Operating company	Type	Capacity, MM tons/yr	Initial operating date	Remarks	Data sources
X1..	Ceredo, Wayne County.	Oglebay Norton Co., Cleveland, OH	Coal loader.	8	-	Expansion of existing capacity; rail to barge.	4
X2..	Huntington, Cabell County.	Unknown.....	...do.....	2.5	-	4 docks to be built by unspecified companies; construction applications approved by Corps of Engineers.	5
X3..	.....do.....	.....do.....	...do.....	12	-	10 docks planned for construction; applications pending with Corps of Engineers.	5
X4..	Meadows Creek, Summers County.	New River Co., subs., Chessie System, Cleveland, OH	Coal preparation plant.	1	1979	-	1

TABLE 145. - Previously reported energy development projects which have been completed or canceled in West Virginia

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Southern Ohio Coal Co., New York, NY	Martinka No. 1 Mine-- Fairmont, Marion County.	-	1976	Expansion complete.
Cannelton Industries, Inc., Cannelton, WV	Mine No. 125--Cannelton, Kanawha County.	-	1976	Do.
Bell Petroleum, Encino, CA	Spring Form Mine-- Kanawha County.	-	1976	Do.
United Pocahontas Coal Co., Beckley, WV	Royal No. 11 Mine-- Damese, Fayette County.	-	1976	Do.
Do.....	Royal No. 12 Mine-- Damese, Fayette County.	-	1976	Do.
Zapata Coal Corp., Sharples, WV	Betty Mine-- Logan County.	-	1976	Do.
Do.....	Donna Mine-- Logan County.	-	1976	Do.
Do.....	Jean Mine-- Logan County.	-	1976	Do.
Ranger Fuel Corp., subs., Pittston Co., New York, NY	Beckley No. 1 Mine-- Beckley, Wyoming County.	-	1976	Do.
Do.....	Beckley No. 2 Mine-- Beckley, Wyoming County.	-	1976	Do.
Cedar Coal Co., subs., A.E.P., Inc., New York, NY	Coal Fork No. 1 Mine-- White Oak, Raleigh County.	-	1976	Do.
Do.....	Coal Fork No. 2 Mine-- White Oak, Raleigh County.	-	1976	Do.
Peter White Mining Corp., Isaban, WV	Peter White Mine-- Isaban, McDowell County.	-	1976	Do.
Olga Coal Co., subs., Youngstown Steel, Youngstown, OH	Caretta No. 4 Mine-- Coalwood, McDowell County.	-	1976	Do.
Cannelton Industries, Inc., Cannelton, WV	Mine No. 2--Superior, McDowell County.	-	1976	Do.
United Pocahontas Coal Co., Beckley, WV	United No. 19 Mine-- Crumpler, McDowell County.	-	1976	Do.
Bell Petroleum, Encino, CA	Brush Fork No. 1 Mine-- Mercer County.	-	1976	Do.
Do.....	Brush Fork No. 2 Mine-- Mercer County.	-	1976	Do.
Equitable Gas Co., Pittsburgh, PA	Gas pipeline from Lewis County to Monongalia County.	-	1976	-

## List of Data Sources for West Virginia

1. U.S. Bureau of Mines State Liaison Officer for West Virginia.
2. Coal Age, February 1977.
3. National Coal Association. Steam-Electric Plant Factors, 1976. 128 pp.
4. Coal Age, February 1975.
5. Coal Week, September 8, 1975.
6. Coal Mining and Processing, October 1975.

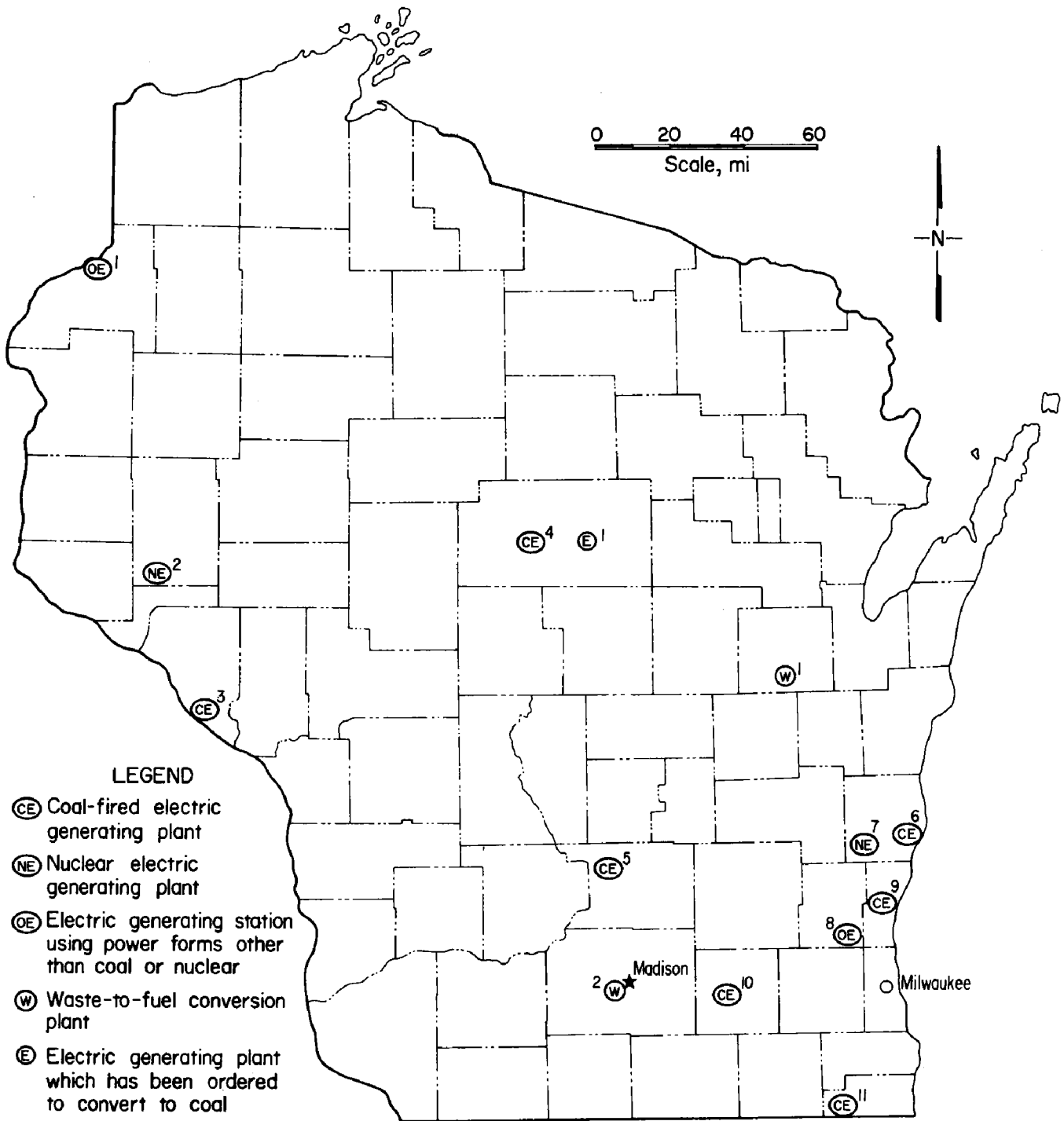


FIGURE 27. - Future fuel-related projects in Wisconsin.

TABLE 146. - Future electric generating plants in Wisconsin

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity		Initial operating date	Remarks	Data sources	
				Unit No.	Mega-watts				
OE1.	Danbury-- Burnett County.	Northwestern Wisconsin Electric Co., Grantsburg, WI	Oil.....	-	7	1977	-	1	
NE2.	Tyrone-- Dunn County.	Northern States Power, Minneapolis, MN, and Dairyland Power Coop., La Cross, WI .....do.....	Nuclear..	1	1,150	1984	-	1, 2	
CE3.	Alma-- Buffalo County.	.....do.....	Coal--1.3	6	350	1979	-	1, 2	
CE4.	Weston-- Marathon County.	Wisconsin Public Service, Green Bay, WI	Coal--0.4	3	300	1982	-	1, 2	
CE5.	Columbia-- Columbia County.	Wisconsin Power & Light, Madison, WI, Wisconsin Public Service, Green Bay, WI, and Madison Gas & Electric, Madison, WI	Coal--1.9	2	527	1978	-	1, 2	
CE6.	Edgewater-- Sheboygan County.	Wisconsin Power & Light, Madison, WI	Coal--0.8	5	400	1983	-	1, 2	
NE7.	Haven Units-- Sheboygan County.	-	Nuclear..	1	900	1987	The "CT" unit is an oil/gas fired turbine which will be used both for emergency starting of the nuclear plant and as a peaking unit.	1	
				2	900	1989			
				CT	50	1987			
OE8.	Germantown-- Washington County.	Wisconsin Electric Power, Milwaukee, WI	Gas/oil..	-	213	1979	-	1	
CE9.	Unnamed-- Ozaukee County.	-	Coal--0.8	-	600	1991	-	1	
CE10.	Koshkonong Units-- Jefferson County.	Wisconsin Electric Power, Milwaukee, WI	Coal--1.0	1	400	1985	-	1, 2	
				2	400	1984			
					800				
CE11.	Pleasant Prairie-- Kenosha County.	.....do.....	Coal--2.0	1	580	1980	-	1, 2	
				2	580	1982			
					1,160				
-	Unnamed--Juneau or Adams County.	-	Coal--0.4	-	300	1990	-	1	

TABLE 147. - Future waste-to-fuel conversion plants in Wisconsin

Map ref. No.	Plant name and location	Operating company	Type and feedstock	Initial operating date	Estimated capacity	Remarks	Data sources
W1..	Unnamed--Appleton, Outagamie County.	Wisconsin Solid Waste Recycling Authority, Madison, WI	Solid waste from Fond du Lac, Outagamie, and Winnebago Counties.	1979	Will convert 1,200 tons of solid waste per day to 600-700 tons of fuel.	Product will be used as a supplementary fuel at boilers and paper plants.	1
W2..	Olin Avenue Reduction Plant--Madison, Dane County.	City of Madison, WI	City garbage....	1978	Will convert 200 tons of solid waste per day to 120 tons of fuel.	Fuel will be used by Madison Gas & Electric Co. at its Blount Street powerplant.	1

TABLE 148. - Generating plants receiving preliminary ESECA notice to convert to coal in Wisconsin

Map ref. No.	Plant name and location	Operating company	Fuel (million tons/yr, for coal)	Capacity, megawatts	Remarks	Data sources
E1..	Weston No. 2--Rothschild, Marathon County.	Wisconsin Public Service Corp., Green Bay, WI	Oil and gas to coal--0.2.	75	Received prohibition order June 30, 1975.	3

TABLE 149. - Previously reported energy development projects which have been completed or canceled in Wisconsin

Company	Project name and location	Change in status		Remarks
		Canceled	Completed	
Northern States Power Co., Minneapolis, MN Wisconsin Electric Power, Milwaukee, WI, Wisconsin Power & Light, Madison, WI, Madison Gas & Electric, Madison, WI, and Wisconsin Public Service, Green Bay, WI	Cornell Unit 4--Chippewa County. Koshkonong nuclear unit 1--Jefferson County.	-	1976	Utilities unable to obtain State Dept. of Natural Resources approval for a nuclear plant at the Koshkonong site for environmental reasons. The Wisconsin utilities group is considering a coal-fired plant at the Koshkonong site; however, formal application for construction authority has not been submitted to the Public Service Commission. Madison Gas & Electric has withdrawn its participation in the project.
Wisconsin Electric Power, Milwaukee, WI	Lakeside unit--Milwaukee County.	1976	-	-

## List of Data Sources for Wisconsin

1. U.S. Bureau of Mines State Liaison Officer for Wisconsin.
2. National Coal Association. Steam-Electric Plant Factors, 1976. 128 pp.
3. Federal Energy Administration. Implementing Coal Utilization Provisions of Energy Supply and Environmental Coordination Act, April 1976.

## APPENDIX.--ADDRESSES OF EASTERN STATE LIAISON OFFICERS

State	Liaison Officer	Office address and commercial telephone
Alabama.....	James R. Boyle.....	U.S. Bureau of Mines P.O. Box L University, AL 35486 205/758-0491
Connecticut.....	William R. Barton.....	U.S. Bureau of Mines Post Office and Federal Bldg. Newmarket, NH 03857 603/659-3101
Delaware.....	Joseph A. Sutton.....	U.S. Bureau of Mines Room W628-30 Columbia Plaza Office Bldg. 2401 E Street, N.W. Washington, DC 20241 202/634-1272
Florida.....	John W. Sweeney.....	U.S. Bureau of Mines Room 204 547 North Monroe Street Tallahassee, FL 32301 904/222-6218
Georgia.....	Doss H. White, Jr.....	U.S. Bureau of Mines Room 431 19 Hunter Street, S.W. Atlanta, GA 30334 404/221-6204
Illinois.....	Thomas O. Glover.....	U.S. Bureau of Mines Room 120 Jefferson West I 525 West Jefferson Street Springfield, IL 62702 217/525-4368
Indiana.....	William S. Miska.....	U.S. Bureau of Mines Room 113 7th and College Streets Bloomington, IN 47401 812/339-6139
Kentucky.....	William T. Boyd.....	U.S. Bureau of Mines P.O. Box 753 Frankfort, KY 40601 502/875-4120

State	Liaison Officer	Office address and commercial telephone
Maine.....	Herbert R. Babitzke....	U.S. Bureau of Mines P.O. Box 228 Augusta, ME 04330 207/622-6171, Ext. 292
Maryland.....	Joseph A. Sutton.....	See Delaware
Massachusetts.....	William R. Barton.....	See Connecticut
Michigan.....	Edward C. Peterson.....	U.S. Bureau of Mines Room 200, Corr Bldg. 300 E. Michigan Avenue Lansing, MI 48933 517/372-1910, Ext. 681
Minnesota.....	Ronald C. Briggs.....	U.S. Bureau of Mines P.O. Box 1660 Twin Cities, MN 55111 612/725-4535
Mississippi.....	Owen W. Jones.....	U.S. Bureau of Mines Room 408, 301 Bldg. 301 North Lamar Street Jackson, MS 39202 601/969-4208
New Hampshire.....	William R. Barton.....	See Connecticut
New Jersey.....	William Kebblish.....	U.S. Bureau of Mines P.O. Box 783 Federal Square Station Harrisburg, PA 17108 717/782-4474
New York.....	Leonard F. Heising.....	U.S. Bureau of Mines Suite 203 1659 Central Avenue Albany, NY 12205 518/869-9536
North Carolina.....	Lawrence E. Shirley....	U.S. Bureau of Mines P.O. Box 2828 Raleigh, NC 27602 919/755-4166
Ohio.....	William S. Miska.....	See Indiana
Pennsylvania.....	William Kebblish.....	See New Jersey

State	Liaison Officer	Office address and commercial telephone
Rhode Island.....	William R. Barton.....	See Connecticut
South Carolina.....	Hewson Lawrence.....	U.S. Bureau of Mines 403 Columbia Bldg. Main and Gervais Streets Columbia, SC 29201 803/765-5561
Tennessee.....	William D. Hardeman....	U.S. Bureau of Mines 1109 Parkway Towers 404 James Robertson Parkway Nashville, TN 37219 615/749-7254
Vermont.....	William R. Barton.....	See Connecticut
Virginia.....	Lawrence E. Shirley....	See North Carolina
West Virginia.....	James E. Gilley.....	U.S. Bureau of Mines P.O. Box 428 Charleston, WV 25322 304/343-6181, Ext. 443

