



International Oil Developments

APPROVED FOR RELEASE

1.3(a)(4)

NLNP
Mandatory Review
Case NLN 92-39
Doc. 33 30 pages

SC 09027/73 21 December 1973

Copy Nº 36

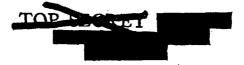


CONTENTS

| · . | | | | | - | Page | <u>e</u> |
|--|-----|---|---|---|---|-------|----------|
| Current Oversions | | | | | | | • |
| Current Overview | • • | • | • | • | • | • • • | ı |
| Western Europe's Oil Losses | • • | • | • | • | • | • • • | 3 |
| Caribbean Refinery Situation | | | | | | | |
| Canada's New Oil Policy | • • | • | • | • | • | (| 5 |
| The New Venezuelan President's Oil Policy | | | | | | | |
| The Energy Crisis in the United Kingdom | | | | | | | |
| Japan to Curry Arab Favor with Money | • • | • | • | • | • | • • • | 9 |
| Foreign Press Reaction to the Kissinger Proposal | | • | • | • | • | . 10 | J |
| | | | | | | | |
| Notes | | | | | | | |
| W W | | | | | | | |
| Kuwait May Halve Oil Output | | • | • | • | • | - 1 | 1 |
| Israel Bypasses Pipeline | | • | ٠ | ٠ | • | . 1 | 1 |
| Soviet Imports Worsen Shortages of US Oilfield Equipment | | • | • | ٠ | • | . 1 | 1 |
| Interruptions in Soviet Gas Supplies to Europe | | • | • | • | • | . 1 | 2 |
| East German Energy Problems | | • | ٠ | • | • | . 1 | 2 |
| Bulgaria Concludes Barter Deal for Iraqi Oil | | | • | • | | . 1 | 2 |
| Charter Rates from Persian Gulf Reach 18-Month Low | • • | | ٠ | • | • | . 13 | 2 |
| | | | | | | | |
| Appendix | | | | | | | |
| Statistical Survey | | | | | | 1 . | 3 |
| • | | | • | • | • | | , |

The next issue of International Oil Developments will be published on 4 January 1974.





21 December 1973

INTERNATIONAL OIL DEVELOPMENTS

CURRENT OVERVIEW

Nothing much new happened this week in either the producing or consuming countries. While the Arab producing countries are maintaining a remarkable degree of unity over the use of the oil weapon, disarray continues in the consuming countries. At the meeting in Copenhagen the EC government leaders tried to develop guidelines for early action on energy but were unable to reconcile the differences among them. The spreading view that we stand to make substantial long-term economic gains at Europe's expense because of the energy crisis has increased European frustration.

Western Europe has not yet been severely affected by the oil shortfall, but if the Arabs proceed with their scheduled production cutbacks, most of the countries will be hard-hit by the end of winter. Even with some diversion of oil from other regions, we estimate that total European oil supplies will drop 10%-12% below the September 1973 level by January and, given further Arab cutbacks, 15%-17% below this level by April. Oil supply losses will vary widely among the countries, depending, however, not only on how much of their crude oil supply comes from Arab countries and how the Arabs classify them, but also on their need to import refined products. Refining centers such as Italy, Belgium, and the Netherlands will be able to protect themselves to some extent by reducing product exports. Countries with a refining deficit, such as Denmark, Ireland, Sweden, Switzerland, and West Germany, will suffer the greatest losses. For a variety of reasons the French will be the least affected.

The United Kingdom – already suffering from coal and power cutbacks resulting from labor disputes – is losing about 10% of its oil supplies. The advantages of being on the Arabs' list of friends are largely offset by London's dependence on foreign refineries – most notably those of embargoed Rotterdam – for 17% of its oil requirements. British energy problems, of which the oil shortage is not yet the most serious, have led to draconian measures, effective in January, to reduce consumption at the expense of comfort, employment, and production.

Note: Comments and queries regarding this publication are welcomed. They may be directed to the Office of Economic Research,





The producing states will hold two important meetings in the next few days. Substantial price increases are almost certain to be announced at the OPEC meeting beginning on 22 December in Tehran. At the October and November OPEC meetings, Persian Gulf prices were raised about 37%. The Arab oil ministers will hold an OAPEC meeting on 27 December, probably in Kuwait. The ministers will hear the reports of the Saudi and Algerian oil ministers who have been traveling in the United States and Europe. We have no information indicating whether the decision taken at an OAPEC meeting earlier this month to resume cutbacks in January will be confirmed at the Thursday meeting.

There are indications that the Saudis and perhaps some other Arab producers may be beginning to worry about the effects of their own weapon. Recent statements attributed to Saudi officials indicate a fear that continued use of the oil weapon could bring about a world depression that would hurt the Arab world. The Arabs also realize that the cutbacks may be strengthening the US economy relative to those of Europe and Japan. Possible Arab willingness to let oil transit Rotterdam under certain conditions is only one sign of this concern. Several sources have indicated that Saudi Arabia will exempt Japan from any January cutback and might even give Japan favored status like France and the United Kingdom. Reportedly, this would be done without requiring Japan to break relations with Israel. King Faysal may also be extending favored status to Taiwan and South Vietnam.

) =



WESTERN EUROPE'S OIL LOSSES

Most West European economies will be hard hit by oil shortages by the end of winter, unless the Arabs relax the pressure. Despite the softening effect of company swaps and diversions of oil, Western Europe's oil supply will be an estimated 10%-12% lower in January than last September. If the Arabs' scheduled monthly production cutbacks continue through March, we tentatively project a drop in West European supplies of 15%-17% by April. Without the benefit of continued diversions of oil from outside the region, the loss from the September level would amount to an estimated 15% by January and 20% by April.

Denmark, Ireland, Sweden, Switzerland, and West Germany are expected to suffer the heaviest oil losses, primarily because of their dependence on imported refined products. Each stands to suffer cuts of at least 25% – and some possibly as much as 35%-40% – by April if the Arabs continue their present course. Italy, Belgium-Luxembourg, and the Netherlands – ostensibly the hardest hit by Arab supply restrictions – will be able to protect themselves in varying degree by limiting exports from their giant refineries. Even by April, France will suffer very little reduction in oil supply from the September level.

Mark Charles and Additional Companies

For various reasons, certain West European countries will not suffer the full brunt of any additional Arab cutbacks in 1974. The Netherlands already is embargoed. France and the United Kingdom are on the list of favored countries. West Germany and Belgium have not been receiving all the oil they are entitled to under the Arabs' formula, because of their reliance on Rotterdam as a transit point for crude oil; thus, additional cutbacks should not add to their oil losses for the next few months. Because of these factors, Western Europe's overall oil supply would be expected to drop less than that of other major importing areas. Neutral European countries not dependent on Rotterdam (for example, Italy and Switzerland) would, however, have to bear a full share of the burden.

These projected oil losses by April represent roughly 10% of Western Europe's total energy supply, and short-term opportunities to substitute other fuels are few. The energy supply loss will amount to some 15% in West Germany and 25% in some smaller countries such as Denmark, Sweden, and Ireland. Because these prospective declines considerably exceed potential gains from conservation measures, production unavoidably will be hurt seriously. As a result of the marked interdependence of European economies, particularly those within the Community, even countries with relatively small energy losses will suffer substantial indirect consequences.

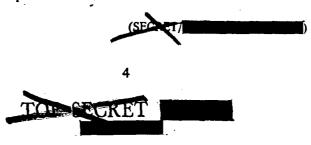




Projected Drop in West European Oil Supplies from the Pre-Crisis Level 1

| | | Percent |
|----------------------|---------|---------|
| | January | April |
| Total Western Europe | 10-12 | 15-17 |
| Austria | 10-15 | 15-20 |
| Belgium-Luxembourg | 12-17 | 12-17 |
| Denmark | 25-30 | 30-40 |
| France | 2-3 | 3-4 |
| Ireland | 15-25 | 30-40 |
| Italy | 2-4 | 10-14 |
| Netherlands | 15-20 | 15-20 |
| Portugal | 4-6 | 4-6 |
| Spain | 4-7 | 5-8 |
| Sweden | 18-23 | 30-35 |
| Switzerland | 15-20 | 30-40 |
| United Kingdom | 8-10 | 8-10 |
| West Germany | 20-25. | 25-30 |

- 1. Based on the following assumptions:
- a. Western Europe benefits from a 500,000-600,000 b/d net diversion of crude oil from other areas.
- b. Dutch refining throughput drops by 35% and net exports of products by 50%; Italian product exports drop by 40%; all other nations in Western Europe cut product exports by an average 40%-50% in January and 50%-60% in April.
- c. Belgium-Luxembourg, with losses of approximately 300,000 b/d Arab crude resulting from the Rotterdam embargo, holds its crude oil loss to 100,000-150,000 b/d through swaps, diversion, and increasing imports through Antwerp. Consumption losses are further limited by cutting product exports.
- d. France loses crude and products supplied through Rotterdam and suffers from small losses of Iraqi crude oil (25,000 b/d). Further losses of crude or products are offset by cuts in product exports.
- e. Portugal makes up the loss of Arab crude oil by drawing on West African production, but suffers a loss of 50% in product imports.
- f. Spain loses some non-Arab crude oil through diversion. These losses are limited by Spain's particularly high dependence on Arab crude oil and are partly offset by tighter restrictions on product exports.
- g. The United Kingdom loses crude oil normally supplied through Rotterdam and an additional 50,000 b/d through diversion to Rotterdam. Losses in products from the Netherlands and other suppliers are offset by cuts in product exports. By exercising its control over major oil companies, the United Kingdom holds losses to an acceptable level of 10%.





CARIBBEAN REFINERY SITUATION

US product imports from Caribbean refineries may soon be reduced as much as 18%, the equivalent of about 1% of current US consumption. This reduction has been anticipated and is already included in estimates of US losses as a result of the Arab oil embargo. During the first six months of 1973, our imports from these refineries averaged about 1.3 million b/d.

Saudi and Kuwaiti embargoes of crude oil shipments to all major refineries in the area, a Libyan embargo of the US Virgin Islands refinery, and a 22% cutback in Libyan shipments to refineries in the Bahamas, Netherlands Antilles, and Trinidad – all effective in early November – may have reduced the inflow of Arab crude oil by more than 400,000 b/d, or about 80%. If the embargoes are fully effective, no crude oil is diverted from other sources, and normal sales patterns are maintained, the United States stands to lose about 230,000 b/d of products.

Caribbean refineries are totally dependent on imports of crude oil, except for those in Trinidad, which obtain about 20% from domestic output. About 40% of the crude oil supply normally comes from Venezuela and approximately 25% from Libya, Saudi Arabia, and Kuwait. In 1972 these refineries* processed about 1.8 million b/d of crude and exported 1.5 million b/d of products outside the Caribbean area. The United States received about 80% of the exports, including almost all those of the US Virgin Islands and the Bahamas.

Caribbean refinery output is only beginning to reflect the Arab cutbacks. Throughput of crude oil at Trinidad refineries on 11 December had dropped by only 65,000 b/d, compared with the expected 210,000 b/d drop in Arab supplies. The refineries probably are drawing down stocks, and there may also be substantial oil company diversion of Venezuelan and other crude oil from normal customers to the Caribbean refineries.



The major export refiners are: Bahamas, 250,000 b/d; Netherlands Antilles, 820,000 b/d; Trinidad, 441,000 b/d; and the US Virgin Islands, 440,000 b/d. Refineries in Puerto Rico and along the Caribbean shores of South and Central America are not considered in this discussion.



CANADA'S NEW OIL POLICY

Ottawa's new oil policy – unveiled by Prime Minister Trudeau in early December – aims at ending eastern Canada's total dependence on crude oil imports. To do this, Ottawa will immediately press ahead with the much-discussed extension of the Alberta-Ontario pipeline, which will carry west Canadian crude oil to Montreal's refineries. Although such details as financing and routing remain to be worked out, the extension probably can be completed by 1976.

When it becomes operational, the pipeline will reduce west Canadian crude oil exports to the United States by 25% to 30% from the present 1 million b/d. Expanding refinery capacity in Ontario also will absorb an increased share of western crude. These combined Canadian demands could cut crude oil sales to the United States by 300,000-400,000 b/d in two years' time. Western crude oil output — now about 2 million b/d — is expected to level off by the mid-1970s. The actual volume of west Canadian crude shipments to Montreal will depend on the price of imported crude. Oil company estimates indicate that initial shipments will amount to only about half of the pipeline's expected capacity of 500,000-600,000 b/d.

The pipeline's excess capacity will provide a measure of security against shortfalls of imported crude. Ottawa apparently expects Montreal's refineries to continue using imported crude oil shipped through the pipeline from Portland, Maine, to supply about half of their needs. Refineries in the Atlantic provinces, serving both the domestic and the US market, will remain totally dependent on imported crude oil.

The announcement also called for government-financed research and investment to spur development of the Athabasca tar sands, which contain an estimated 300 billion barrels of recoverable oil. This policy contrasts sharply with the former one of leaving development to the Alberta provincial government. Because of current high crude prices and the prospects for continuing increases, commercial exploitation of the tar sands is practically assured. Two major private projects already getting under way are expected to begin production near the end of this decade, and government projects probably will be started in the next several years.

Trudeau called for establishing a government-owned oil company to spearhead exploration and development and to act as an oil importing agency. He suggested that the company also might eventually expand into refining and distribution as have other government oil companies.

Implementing the new policy will prove difficult, however, because of conflicts between Ottawa and the provinces.





THE NEW VENEZUELAN PRESIDENT'S OIL POLICY

Although president-elect Carlos Andres Perez is still developing his oil policy, certain points seem certain. He apparently plans to seek more than just higher prices from consumer countries. Perez has advocated using oil as a lever to remove trade barriers to Venezuela's other exports and to assure supplies of raw materials needed by Venezuelan industries. The president-elect has also pledged to accelerate the nationalization of foreign oil concessions now scheduled to revert to the state in 1983 and indicated that further development of Venezuelan oil resources will not be rapid and will be carefully controlled by the state. Perez, however, values good relations with the United States and is likely to be pragmatic in matters involving Venezuela's principal customer.

Caracas' oil revenues, which were \$1.8 billion in 1972, are expected to reach \$2.6 billion this year and may double in 1974. This comfortable fiscal position has generated pressures on Perez to reduce production to conserve Venezuela's declining reserves. Perez, however, has shown no inclination to accept these demands.

Current production, about 3.4 million b/d, is almost 5% above 1972 levels and is very near capacity. While most companies are unable to increase output much, the Gulf subsidiary plans to raise production by 150,000 b/d, if Caracas approves.

The new government may try to offset declining reserves — equal to 12 years at current production levels — by spurring development of the Orinoco Tar Belt, which contains some 700 billion barrels of heavy oil, of which about 10% is recoverable under current technology. Because of the high capital costs and the advanced technology required, Caracas will need substantial foreign assistance. Most US companies are likely to be more interested in developing US shale oil deposits or Canadian tar sands, which can be exploited at about the same cost. However, the Gulf Oil Corporation — a leader in heavy oil production technology — hopes for an agreement with the government for exploitation of the Tar Belt. European and Japanese oil companies, lacking access to other promising areas, are also showing interest.

* * * * *



THE ENERGY CRISIS IN THE UNITED KINGDOM

Despite its status as an Arab-favored nation, the United Kingdom is experiencing a drop in total oil supplies on the order of 10%. About half of this loss results from the Rotterdam embargo. Five percent of the United Kingdom's crude oil imports normally transit the Dutch port. The rest of the shortfall is accounted for by oil-company diversions and product suppliers' export restraints.

The United Kingdom is extensively involved in intra-European oil trade. During the first half of 1973, it imported 17% of its needed oil in the form of products. This 471,000 b/d flow came mainly from Rotterdam (209,000 b/d), Italy (50,000 b/d), and Belgium (40,000 b/d). During the same period, the United Kingdom exported 269,000 b/d of products mainly to Denmark (59,000 b/d), Sweden (59,000 b/d), and Ireland (55,000 b/d).

To conserve oil stocks – now at something over 60 days' consumption – London has ordered petroleum allocations to most sectors of the economy to be cut 10% below November 1972 consumption. The prices of electricity, natural gas, coal, and gasoline all have been increased. In addition, exports of petroleum products now require special licenses. Gasoline rationing coupons have been issued but are not now in use.

The oil squeeze comes at a time when coal, the most important alternative energy source, is scarce. An overtime ban imposed by British miners seeking larger wage increases than allowed under phase III of the anti-inflation program has cut coal output by more than 30% since early November. Slowdowns by railway engineers seeking large wage increases have disrupted deliveries of the available coal, causing a serious rundown in coal stocks at electric powerplants. The power shortage is being aggravated by a ban on after-hours work by the electrical power engineers, who are also seeking substantial wage increases. If the government had not recently restricted electricity consumption, scattered cuts in power production would have been inevitable by the second week of January.

Even under the optimistic assumption that coal output will return to normal in the next month or two, industrial production almost certainly will stagnate because of the shortfall expected in oil supplies. If the coal—shortage persists, industrial output will plummet.





JAPAN TO CURRY ARAB FAVOR WITH MONEY

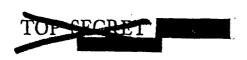
Japan is offering new government loans and speeding up consideration of pending aid proposals in hopes of gaining favored treatment from the Arab oil producers. By far the largest new offer is a \$140 million loan pledge to Egypt to help pay for clearing the Suez Canal. The loan terms offered by Deputy Prime Minister Miki, who is currently making the rounds of Arab capitals, are the most generous Japan has ever extended—2% annual interest and 25 years to repay, including a seven-year grace period. Moreover, the loan is not tied to purchases from Japanese suppliers. Tokyo is willing to increase the loan to \$280 million, enough to cover 70% of the cost of repairing and enlarging the Canal. In addition, Tokyo says it will provide loans for Egyptian projects in such areas as transportation, telecommunications, and electronics.

Tokyo is considering loan requests totaling roughly \$1 billion from Iraq, Jordan, Libya, Algeria, Sudan, Morocco, and Tunisia. The government and private banks probably will extend a \$500 million credit to Iraq to finance an oil refinery, pipelines, and a liquefied petroleum gas plant. Algeria is seeking loans of some \$800 million for an oil refinery, port facilities, and transport and communications projects. Although they do not need money, Saudi Arabia and Libya would like Japanese technical assistance.

Even before the Arab oil cutback, Japan was supplying increased amounts of capital to the Middle East. Earlier this year, the government concluded its first loan agreements with Arab countries – a \$30 million project loan to Syria and a \$10 million commodity loan to Egypt. Since the onset of the oil crisis, Japan has promised to speed disbursement of these loans. Tokyo is also financing the bulk of a Japanese firm's purchase, for \$780 million, of a share in a West European oil concession in Abu Dhabi.

Private Japanese capital also is going to the Middle East, particularly to countries bordering the Persian Gulf. Japanese banks have extended loans to Iran, and several firms are investing large amounts in Iran's petrochemical and oil industries. In Abu Dhabi, Japanese firms intend to provide about \$250 million for a liquefied natural gas (LNG) project and to help finance an oil refinery. Japanese firms also will take part in developing oil and natural gas deposits in Iraq and are considering investing \$800 million in petrochemical and LNG projects in Saudi Arabia. (TOP SEC.)

* * * *





FOREIGN PRESS REACTION TO THE KISSINGER PROPOSAL

European and Japanese editorial writers on the energy problem were preoccupied in the last week with Secretary Kissinger's proposal for an energy action group. Major West German and British dailies called for a positive European response. Japanese and French newspapers — and a German daily — however, were skeptical of US intentions and of the likelihood for success of the Kissinger plan.

In Europe, the influential Die Welt of Hamburg lauded the Kissinger plan, comparing it with the Marshall Plan and noting the opportunity that it presents for a major step toward Atlantic unity. It also noted the future potential of the United States as a major energy supplier for Europe. The Sueddeutsche Zeitung of Munich suggested that Secretary Kissinger's Middle East travels were linked to the needs of US oil interests as well as to preparations for the Geneva conference. Two major British dailies, the Guardian and Financial Times, took up the Kissinger theme that joint US-European action was imperative. The French paper Le Monde pointed out the significant difference between the Kissinger proposal and the French and Arab preference for negotiations between representatives of European nations and the oil-producing countries. Le Monde seemed to hint that the secretary may have been trying to block French progress toward this goal.

Marie Contract Contra

Important segments of the Japanese press urged caution toward the Kissinger proposal. Mainichi Shimbun and Asahi Evening News warned their government — and perhaps also reflected the government's own views — that the Arabs should not be antagonized. Asahi noted that cooperation with the oil producers rather than deepening confrontation was required and appeared to call for Tokyo to take a more forward and forthcoming position toward the oil-producing states. Yomiuri noted that the oil problem would result in a cutback in Japanese exports to its less developed Asian trading partners and suggested that Tokyo use this argument in an effort to convince the Arabs that they were hurting poor as well as rich nations. (UNCLASSIFIED)







NOTES

Kuwait May Halve Oil Output

According to press reports from Tokyo, Kuwait's Oil and Finance Minister Atiqi has said that production will eventually be cut to 1.5 million b/d. Kuwait had already limited its only significant producer, the Kuwait Oil Company (KOC), to 3 million b/d before the general Arab cutback in October. KOC's current output is about 2.4 million b/d. By reportedly stressing the economic as well as the political rationale for production cuts, Atiqi implied that reductions would continue even if there were a prompt Middle East settlement. Kuwait's earlier decision to limit production was intended to stretch out its oil reserves and avoid excessive accumulation of money. The recent skyrocketing of crude oil prices gives added incentive for production cuts. (UNCLASSIFIED)

Israel Bypasses Pipeline

Choosing not to test the Red Sea blockade for the present, Israel is diverting oil that normally would transit the Trans-Israeli Pipeline (TIP) to the Mediterranean port of Ashquelon. On 10 December an Israeli-chartered British tanker arrived at Ashquelon with 1.2 million barrels of Iranian crude oil – the first shipment received since early October. The ship, originally scheduled to go to Elat, was rerouted to the Mediterranean when the insurance company refused coverage in any test of the blockade. Before the recent war, about 600,000 b/d were transported through the TIP, with Israel taking about one-fourth of it and the remainder being shipped to Europe. The TIP is now being used to carry Sinai crude oil to Israel; deliveries are expected to reach 100,000 b/d by year's end.

Soviet Imports Worsen Shortages of US Oilfield Equipment

Increased Soviet imports of oilfield equipment are adding to US shortages, which are hampering US exploration and development. The USSR ordered about \$400 million worth of oilfield equipment from Western firms in 1972-73, compared with roughly \$200 million worth during the preceding three years. Most orders have gone to US firms, their foreign subsidiaries, or their licensees since US export controls were relaxed in 1971. Soviet purchases are concentrated on pipeline construction materials and equipment, tubular goods for drilling, and high-volume submersible pumps—all currently in short supply in the United States.



Interruptions in Soviet Gas Supplies to Europe

Technical problems have caused interruptions in Soviet natural gas exports to East Germany, West Germany, and Austria. The brief stoppages, apparently caused by decreased pressure and possible leaks, began about one week after the new pipeline to West Germany was completed in early October and continued through November. Similar problems can be expected in 1974 as the USSR expands gas exports to Austria and Hungary and begins exports to Finland and Bulgaria. (Constitution)

East German Energy Problems

East Germany is now experiencing energy shortages that may intensify during the winter. Shortfalls in deliveries of oil and natural gas from the USSR and crude oil from the Middle East have been reported in recent weeks, and dwindling oil supplies are cited as a reason for increasing the use of coal-burning locomotives. Coal is the country's major source of energy, but distribution problems persist and stocks are low in some regions. In 1972, East Germany received about one-fourth of its oil supplies from non-Communist countries – half of which was transshipped through Rotterdam.

Bulgaria Concludes Barter Deal for Iraqi Oil

Bulgaria, which depends on Iraqi oil for almost half of its supply, recently concluded an agreement to import an additional 20,000 b/d during 1974-80. In 1972, it imported 65,000 b/d from Iraq. Despite Baghdad's announcement earlier this year that all future oil transactions would be made on a hard-currency rather than a barter basis, the new agreement calls for payment in Bulgarian goods and services. At current prices, the deliveries under the seven-year agreement are estimated at \$210 million. Actual prices will be fixed annually.

Charter Rates from Persian Gulf Reach 18-Month Low

Single-voyage charter rates for large tankers carrying Persian Gulf crude oil to Western Europe dropped last week to their lowest level since May 1972. Under a charter reported on 11 December, the combination oil/bulk carrier Nippon Maru No. 3 will carry 150,000 tons of crude oil from the Persian Gulf to Western Europe for \$4.74 per ton (Worldscale* 47.5). This compares with record highs on the same route of \$45.00 per ton in mid-October. Rates are holding up better on other routes and for smaller tankers. (UNCLASSIFIED)



Worldscale is a system for expressing single-voyage charter rates for tankers on various trade routes.



STATISTICAL SURVEY

| <u>Pag</u> | <u>e</u> |
|--|----------|
| World Crude Oil Production | 4 |
| Estimated Pre-Crisis World Oil Trade, 1973 | 5 |
| Estimated Pre-Crisis Arab Oil Exports, 1973 | 6 |
| Selected Consuming Countries' Dependence on Arab Oil, 1972 | 7 |
| Recent and Scheduled Reductions in Arab Oil Production | 8 |
| Dutch Oil Trade, January-June 1973 | 0 |
| Selected West European Countries: Importance of Oil Imports Through Rotterdam, January-June 1973 | 1 |
| Energy Sources of EC Countries, 1972 | 2 |
| Sources of EC Energy | :2 |
| Summary of Conservation Measures Adopted | 3 |





World Crude Oil Production

| | Septemb | er 1973 | Decembe | r 1973 ¹ |
|-----------------------------|----------|-------------|------------------|---------------------|
| | Thousand | | Thousand | |
| | b/d | Percent | b/d | Percent |
| Western hemisphere | 16,045 | 27.9 | 16,250 | 30.3 |
| United States | 9,149 | 15.9 | 9,200 | 17.1 |
| Venezuela | 3,395 | 5. 9 | 3,400 | 6.3 |
| Canada | 1,745 | 3.0 | 1,800 | 3.4 |
| Mexico | 470 | 0.8 | 500 | 0.9 |
| Ecuador | 210 | 0.4 | 250 | 0.5 |
| Others | 1,076 | 1.9 | 1,100 | 2.0 |
| Eastern hemisphere | 41,438 | 72.1 | 37,440 | 69.7 |
| Western Europe | 395 | 0.7 | 400 | 0.7 |
| Middle East | 22,899 | 39.8 | 19,360 | 36.1 |
| Saudi Arabia | 8,534 | 14.8 | 6,400 | · 11.9 |
| Iran | 5,793 | 10.1 | 5,900 | 11.0 |
| Kuwait | 3,480 | 6.1 | 2,610 | 4.9 |
| Iraq | 2,167 | 3.8 | 2,100 | 3.9 |
| Abu Dhabi | 1,381 | 2.4 | 1,040 | 1.9 |
| Qatar | 608 | 1.1 | 460 | 0.9 |
| Oman | 300 | 0.5 | 300 | 0.6 |
| Dubai | 273 | 0.5 | 200 ² | 0.4 |
| Others | 363 | 0.6 | 350 | 0.7 |
| Africa | 6,163 | 10.7 | 5,480 | 10.2 |
| Libya | 2,286 | 4.0 | 1,710 | 3.2 |
| Nigeria | 2,102 | 3.7 | 2,250 | 4.2 |
| Algeria | 1,100 | 1.9 | 820 | 1.5 |
| Others | 675 | 1.2 | 700 | 1.3 |
| Asia-Pacific | 2,303 | 4.0 | 2,450 | 4.6 |
| Indonesia | 1,350 | 2.3 | 1,500 | 2.8 |
| Others | 953 | 1.7 | 950 | 1.8 |
| Communist countries | 9,678 | 16.8 | 9,750 | 18.2 |
| USSR | 8,663 | 15.1 | 8,700 | 16.2 |
| China | 630 | 1.1 | 650 | 1.2 |
| Romania | 275 | 0.5 | 300 | 0.6 |
| Others | 110 | 0.2 | 100 | 0.2 |
| World total | 57,483 | 100.0 | 53,690 | 100.0 |
| Of which: | | | | |
| OPEC ³ | 32,406 | 56.4 | 28,440 | 53.0 |
| OAPEC4 | 19,979 | 34.8 | 15,490 | 28.9 |
| Arab producers ⁵ | 20,552 | 35.8 | 15,990 | 29.8 |

^{1.} Estimated.

^{5.} Arab producers include all OAPEC producers plus Dubai and Oman. (UNCLASSIFIED)



^{2.} Production reduced by offshore well fire.

^{3.} The members of the Organization of Petroleum Exporting Countries are Abu Dhabi, Algeria, Ecuador, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, and Venezuela.

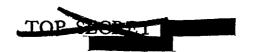
4. The members of the Organization of Arab Petroleum Exporting Countries are Abu Dhabi, Algeria,

Bahrain, Egypt, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, and Syria.

| | | | Western Europe | | | | | | | | | | |
|--------------------------|------------------|-------|-----------------|-------------------|--------|-------|-------------|-------|-------|--------|-------------------|-------|-------|
| Arab Oil Producers Total | United States | Total | West Germany | United Kingdom | France | Italy | Netherlands | Other | Japan | Canada | Communist Area | Other | |
| Total Arab | 18,600 | 1,600 | 11,300 | 1,650 | 1,600 | 2,100 | 1,750 | 1,450 | 2,750 | 2,300 | 150 | 400 | 2,850 |
| Percent | 100 | 8.6 | 60.8 | 8.9 | 8.6 | 11.3 | 9.4 | 7.8 | 14.8 | 12.4 | 0.8 | 2.1 | 15,3 |
| Saudi Arabia | 8,000 | 600 | 4,350 | 500 | 550 | 600 | 700 | 750 | 1,250 | 1,250 | 50 | Negl. | 1,750 |
| % | 100 | 7,5 | 54.4 | 6.2 | 6.9 | 7.5 | 8.8 | 9.4 | 15.6 | 15.6 | 0.6 | Negl. | 21.9 |
| Kuwait | 3,100 | 150 | 1,750 | 100 | 350 | 300 | 300 | 350 | 350 | 650 | Negl. | •••• | 550 |
| % | 100 | 4.8 | 56.5 | 3.2 | 11.3 | 9.7 | 9.7 | 11.3 | 11.3 | 21.0 | Negl. | **** | 17.7 |
| Libya | 2,200 | 350 | 1,700 | 500 | 250 | 150 | 400 | 100 | 300 | Negi. | 50 | 100 | •••• |
| % | 100 | 15.9 | 77.3 | 22.7 | 11.4 | 6.8 | 18.2 | 4.6 | 13.6 | Negl. | 2.3 | 4.5 | **** |
| Iraq | 1,900 | 50 | 1,300 | 100 | 100 | 400 | 350 | Negl. | 350 | 50 | Negl. | 200 | 300 |
| % | 100 | 2.6 | 68.5 | 5,3 | 5.3 | 21.1 | 18.4 | Negl. | 18.4 | 2.6 | Negl. | 10.5 | 15.8 |
| Abu Dhabi | 1,150 | 150 | 600 | •••• | 200 | 300 | **** | **** | 100 | 300 | 50 | Negl. | 50 |
| % | 100 | 13.1 | 52.2 | •••• | 17.4 | 26. I | ` | **** | 8.7 | 26.1 | 4.3 | Negl. | 4.3 |
| Algeria | 1,100 | 150 | 750 | 250 | Negl. | 250 | **** | 50 | 200 | **** | **** | 50 | 150 |
| % | 100 | 13.6 | 68.2 | 22.7 | Negl. | 22.7 | **** | 4.6 | 18.2 | **** | **** | 4.6 | 13.6 |
| Other Arab | 1,150 | 150 | 850 | 200 | 150 | 100 | •••• | 200 | 200 | 50 | Negl. | 50 | 50 |
| % | 100 | 13.1 | 74.0 | 17.4 | 13.1 | 8.7 | •••• | 17.4 | 17.4 | 4.3 | Negl. | 4.3 | 4.3 |

^{1.} This table allocates imports on a direct and indirect basis – i.e. refined products from export refineries are traced to the source of the crude oil. The estimates are a yearly average for 1973 and therefore differ from estimates made at any specific time. For example, US dependence on Arab oil has increased throughout the year and in October was nearly 2 million barrels per day.

(UNCLASSIFIED)



Selected Consuming Countries' Dependence on Arab Oil 1972

Thousand b/d and Percent of Imports

| | | Origin of Imports | | | | | | | | | | | |
|---------------------------------|----------------------|-------------------|---------------|-----------------|---------------|---------------|-------------|--------------|-------------|------------|---------------|----------------|---------------|
| | | | | BO desA | | | | | | | | | |
| | Total Consumption | Total I | Total | Saudi Arabia | Kowsit | Libya | lraq | Abu Dhabi | Algeria | Other | Iran | Vene- zuela | Others |
| United States ² | 16,350 | 4,750 100.0 | 850 17.9 | 300 6.3 | 50 1.0 | 250 5.3 | | 100 2.1 | 100 2.1 | 50 1.0 | 200 4.2 | 1.700 35.8 | 2.000 42.1 |
| Total Western Europe Percent | 14,200 | 14,400 100.0 | 9,902 68.8 | 3,573 24.8 | 1,873 13.0 | 1,889 13.1 | 867 6.0 | 369 2.6 | 684 4.8 | 647 4.5 | 1,648 11,4 | 276 1.9 | 2.574 17.9 |
| Italy G | 2.005 | 2.217 100.0 | 1,534 69.2 | \$66 25.5 | 303 13.7 | 421 19.0 | 244 11.0 | | | | 353 15.9 | <u></u> | 330 14.9 |
| France 7 | 2,315 | 2,364 100.0 | 1,836 77.7 | 495 20.9 | 342 14.5 | 196 8.3 | 287 12.1 | 227 9.6 | 219 9.3 | 70 3.0 | 142 6.0 | 36 1.5 | 350 14.8 |
| United Kingdom 3 | 2,195 | 2.057 100.0 | 1,411 68.6 | 418 20.3 | 399 19.4 | 294 14.3 | 70 3.4 | 90 4.4 | 22 1.1 | 118 5.7 | 264 12.8 | 100 4.9 | 282 13.7 |
| West Germany F | 2.885 | 2,052 100.0 | 1,466 71,4 | 380 18.5 | 87 4.2 | 570 27.8 | 38 1.9 | | 228 11.1 | 163 7,9 | 9.6 4.0 | 74 3.6 | 316 15.4 |
| Netherlands | 787 | 1,810 100.0 | 1,25× 69.5 | 608 33.6 | 372 20.6 | 82 4.5 | 8 0.4 | | 23 1.3 | 165 9,1 | 308 17.0 | 9 0.5 | 235 13.0 |
| · Belgum-Luxembourg | 624 | 879 100.0 | 424 48.2 | 268 30.5 | 127 14.4 | | 29 3.3 | _ | = | _ | 100 11.4 | | 355 40.4 |
| Spain ? | 700 | 775 100.0 | 520 67.1 | 226 29.2 | 66 8.5 | 62 8.0 | 38 4.9 | | 97 12.5 | 31 4.0 | 48 6.2 | 17 2.2 | 190 24.5 |
| Portugal 7 | 87 | 80 100.0 | 67 83.7 | 25 31.2 | | •••• | 32 40.0 | | | 10 12.5 | 6 7_5 | •••• | - 8.8 |
| Other : | 2,602 | 2.166 100.0 | 1,386 64.0 | 587 27.1 | 177 8.2 | 264 12.2 | 121 5.5 | . 52 2.4 | 95 4.4 | 90 4.2 | 231 10.7 | 40 1.5 | 509 23.5 |
| Japan C | 4.800 | 4,757 100.0 | 2.162 45.4 | 1,067 22,4 | 595 12.5 | 4 0.1 | 30 0.6 | 264 5.7 | | 197 4.1 | 1.680 35.3 | # 0.2 | 907 19,1 |
| Canada S | 1,665 | 730 100.0 | 183 25.1 | 77 10.6 | 3 0.4 | 38 5.2 | 16 2.2 | 39 5.4 | 1.0 | 9 1.2 | 98 13.4 | 373 51.1 | 76 10.4 |

I. Imports exceed consumption in some countries because they export products; the Netherlands transfurs some crude oil to other We : European countries.

2. US imports are allocated on a direct and induced basis, i.e., refined products from export refineries are traced to the source of the crude oil. (UNCLASSIFIED)





Recent and Scheduled Reductions in Arab Oil Production¹

| , | | 1 | 973 | | 1974 | | | | | | |
|-------------------|-----------|------------------|-----------------------|-----------------------------|----------------------|-----------------------|--------------------|--|--|--|--|
| · | September | October | November ² | December ² | January ³ | February ³ | March ³ | | | | |
| | · | | | Production Thousand b/d) | · | | | | | | |
| Total | 20,129 | 18,490 | 15,540 | 15,640 | 14,990 | 14,380 | 13,780 | | | | |
| Saudi Arabia | 8,534 | 7,810 | 6,400 | 6,400 | 6,080 | 5,780 | 5,490 | | | | |
| Kuwait | 3,480 | 3,110 | 2,610 | 2,610 | 2,480 | 2,360 | 2,240 | | | | |
| Libya | 2,286 | 2,250 | 1,710 | 1,710 | 1,620 | 1,540 | 1,470 | | | | |
| Iraq | 2,167 | 1,8004 | 2,000 | 2,100 | 2,100 | 2,100 | 2,100 | | | | |
| Abu Dhabi | 1,381 | 1,360 | 1,040 | 1,040 | 990 | 940 | 890 | | | | |
| Algeria | 1,100 | 1,050 | 820 | 820 | 780 | 740 | 700 | | | | |
| Qatar | 608 | 600 | 460 | 460 | 440 | 420 | 390 | | | | |
| Oman | 300 | 300 | 300 | 300 | 300 | 300 | 300 | | | | |
| Dubai | 273 | 210 ⁵ | 200 | 200 | 200 | 200 | 200 | | | | |
| | | | Percent Decr | ease from Sept | ember 1973 | | | | | | |
| For all countries | •••• | 8 | 23 | 22 | 26 | 29 | 32 | | | | |

^{1.} This table illustrates the effect of the OAPEC decision of 4 November on Arab oil production through March 1974. Iraq did not sign the agreement and has not reduced production; Oman and Dubai, which are not members of OAPEC, are not expected to reduce production.

3. OAPEC plan to reduce an additional 5% each month, based on production during the previous month.

4. Production reduced as a result of war damage to export facilities.

5. Dubai production reduced by offshore well fire.





^{2.} On 4 November, OAPEC agreed to a 25% production cutback in November, based on September production; OAPEC has exempted Japan, the Philippines, and most of Western Europe from December's planned 5% cutback; therefore, we assume no change in production from November in December except for Iraq, which is expected to raise output by 5%.



Recent and scheduled reductions in Arab oil production measured against the production that previously had been expected for December 1973 and March 1974

| | | | | | | | | | Thou | sand b/d |
|---|-----------------|-------------|-----------|----------|--------------|--------------|-----------|----------|-----------|-------------|
| | Saudi Arabia | Ku- wait | Libya | Iraq | Abu Dhabi | Al- geria | Qatar | Oman | Dubai | Total |
| Pre-cutback planned December production ¹ | 9,400 | 3,800 | 2,300 | 2,200 | 1,500 | 1,100 | 650 | 300 | 300 | 21,550 |
| Production shortfall due to cutbacks | | | | | | | | | | |
| Volume % | 3,000 32 | 1,190 31 | 590 26 | 100 5 | 460 31 | 280 25 | 190 29 | | 100 33 | 5,910 27 |
| Pre-cutback planned March 1974 production ² | 9,800 | 3,400 | 2,300 | 2,300 | 1,900 | 1,100 | 700 | 300 | 300 | 22,100 |
| Production shortfall due to cutbacks | | | | | | | | | | |
| Volume % | 4,310 44 | 1,160 34 | 830 36 | 200 9 | 1,010 53 | 400 36 | 310 44 | •••• | 100 33 | 8,320 38 |

Company forecasts where available; otherwise, OER estimate.

OER estimate.





Dutch Oil Trade January-June 1973

| | | | Thousand b/d |
|--------------------|-------|--------------------|------------------|
| Imports | | Exports | |
| Total | 3,225 | Total | 2,603 |
| Crude oil | 2,862 | Crude oil | 1,282 |
| Arab | 1,999 | Western Europe | 1,242 |
| Saudi Arabia | 900 | Belgium-Luxembourg | 429 |
| Kuwait | 559 | Denmark | 35 |
| Libya | 191 | Finland | 3 |
| Iraq | 17 | France | 24 |
| Abu Dhabi | 75 | Ireland | 20 |
| Algeria | 36 | . Italy | 6 |
| Qatar | 139 | Norway | ,5 |
| Oman | 15 | Portugal | 6 |
| Dubai | 1 | Spain | 20 |
| Egypt | 26 | Sweden | 26 |
| Syria | 40 | United Kingdom | 119 |
| Iran | 568 | West Germany | 549 |
| Nigeria | 249 | East Germany | 40 |
| Venezuela | 18 | | |
| Other | 28 | | |
| Refined products | 363 | Refined products | 1,321 |
| Western Europe | 192 | Western Europe | 1,019 |
| Belgium-Luxembourg | 40 | Belgium-Luxembourg | 131 |
| France | 27 | Denmark | 57 |
| Italy | 45 | France | 12 |
| Spain | 14 | Sweden | 36 |
| United Kingdom | 30 | United Kingdom | 209 |
| West Germany | 26 | West Germany | 522 |
| Other | 10 | Other | 52 |
| Arab | 45 | Others and unknown | 302 ¹ |
| Others and unknown | 126 | | |

1. Including bunkers.



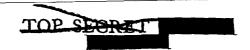
| TOP SERVE | • |
|-----------|---|
| | |

| | | | | | | • | | | Origi | n of Impor | rts | | | | | | |
|---------------------|---------------------------|------------------------------|------------------------------|----------------|-----------------|----------------|----------------|----------------|----------------|--------------|----------------|---------------|----------------|----------------|--------------|----------------|--------------|
| | | | | | | | Arab Co | untries | <i>.</i> | | | | | | | | |
| | Total Consump- tion | Domestic Produc- tion | Total Imports | Tutal Arab | Saudi Arabia | Kuwait | Libys | iraq | Abu Dhabi | Algeria | Other Arab | îran | Vene- zuela | Indo- nesia | Canada | Nigeria | Others |
| Total Percent | 57,000 100.0 | 57,000 ² 100.0 | 34,000 59.6 | 18,600 32.6 | 8,000 14.0 | 3,100 5,4 | 2,200 3.9 | 1,900 3.3 | 1,150 2.0 | 1,100 1.9 | 1,150 2.0 | 5,700 10.0 | 3,400 6.0 | 1,250 2.2 | 1,100 1.9 | 2,000 3.5 | 1,950 3.4 |
| United States % | 17,300 100.0 | 10,900 ² 63.0 | 6,300 36.4 | 1,600 9.2 | 600 3,5 | 150 0.9 | .350 2.0 | 50 0.3 | 150 0.9 | 150 0.9 | 150 0.9 | 400 2.3 | 2,000 11.6 | 250 1.4 | 1,100 6.4 | 550 3.2 | 400 2.3 |
| Western Europe | 15,500 100.0 | 400 2.6 | 16,000 ³ 103.2 | 11,300 72,9 | 4,350 28.1 | 1,750 11.3 | 1,700 11.0 | 1,300 8,4 | 600 3.9 | 750 4.8 | 850 5,5 | 1,900 12.3 | 500 3.2 | Negl. Negl. | •••• | 1,250 8.1 | 1,050 6,8 |
| Japan % | 5,400 100.0 | Negl. Negl. | 5,400 100.0 | 2,300 42.6 | 1,250 23.1 | 650 12.0 | Negl. Negl. | 50 0.9 | .300 5.6 | **** | SO 0.9 | 2,050 38.0 | Negl. Negl. | 900 16.7 | **** | Negl. Negl. | 150 2,8 |
| Canada % | 1,750 100.0 | 1,850 105.7 | 900 51.4 | 150 8.6 | 50 2.9 | Negl. Negl. | 50 2.9 | Negl. Negl. | 50 2.9 | •••• | Negl. Negl, | 150 8.6 | 450 25.7 | **** | •••• | 100 5.7 | 50 2.9 |
| Subtotal % | 39,950 100.0 | 13,150 32.9 | 28,600 71.6 | 15,350 38.4 | 6,250 15.6 | 2,550 6.4 | 2,100 5.3 | 1,400 3,5 | 1,100 2.8 | 900 2.3 | 1,050 2.6 | 4,500 11.3 | 2,950 7.4 | 1,150 2.9 | 1,100 2.8 | 1,900 4.8 | 1,650 4.1 |
| Communist area % | 9,850 100.0 | 9,300 94.9 | 500 5.1 | 400 4.1 | Negl. Negl. | •••• | 100 1.0 | 200 2.0 | Negl. Negl. | 50 0.5 | 50 0.5 | 100 1.0 | •••• | •••• | **** | **** | **** |
| Others 第 | 7,200 100.0 | 34,550 479,9 | 4,900 68,1 | 2,850 39,6 | 1,750 24.3 | 550 7.6 | | 300 4.2 | 50 0.7 | 150 2.1 | 50 0.7 | 1,100 15.3 | 450 6.2 | 100 1,4 | | 100 1.4 | 300 4.2 |

^{1.} This table allocates imports on a direct and indirect basis - La., refined products from export refineries are traced to the source of the crude oil. The estimates are a yearly average for 1973 and therefore differ from estimates at any specific time. For example, US dependence on Arab oil has increased through the year and in October was nearly 2 million b/d.

2. Including US production of natural gas liquids of 1.7 million b/d.

3. Western Europe's oil imports exceed consumption because it exports substantial quantities of oil outside Europe.



Selected West European Countries: Importance of Oil Imports Through Rotterdam January-June 1973

| The | ucand | L. | IA. | h | Percent | |
|-----|-------|----|-----|---|---------|--|

| | Belgium- Luxembourg | Denmark | Ireland | Sweden | United Kingdom | West Germany |
|---------------|------------------------|---------|---------|--------|-------------------|-----------------|
| Total oil | 909 | 440 | 135 | 554 | 2,726 | 2,958 |
| Via Rotterdam | 560 | 92 | 20 | 62 | 328 | 1,071 |
| % | 62 | 21 | 15 | 11 | 12 | 36 |
| Crude oil | 718 | 202 | 60 | 224 | 2,255 | 2,209 |
| Via Rotterdam | 429 | 35 | 20 | - 26 | 119 | 549 |
| % | - 60 | 17 | 33 | 12 | 5 | 25 |
| Products | 191 | 238 | 75 | 330 | 471 | 749 |
| Via Rotterdam | 131 | 57 | **** | 36 | 209 | 522 |
| % | 69 | 24 | **** | 11 | 44 | 70 |

Energy Sources of EC Countries, 1972

| | | | | | | Percent |
|--------------------------|---------|-------------------|-----------------|-------------|---------|----------|
| e pr | Ireland | United Kingdom | West Germany | France | Benelux | Italy |
| Domestic | 23 | 51 | 47 | 31 | 52 | 24 |
| Coal ¹ | 21 | 38 | 34 | 14 | 10 | 2 |
| Natural gas ¹ | •••• | 9 | 8 | 7 | 40 | 12 |
| Crude oil | **** | Negl. | 3 | 1 | 2 | 1 |
| Hydro/nuclear | 2 | 4 | 2 | 9 | Negl. | 9 |
| Imported | 77 | 49 | 5 3 | 69 | 48 | 76 |
| Coal | 8 | 1 | 2 | 3 | 2 | 5 |
| Crude oil | | | | | | • |
| Arab oil | 50 | 33 | 36 | 51 | 29 | 49 |
| Other | 19 | 15 | 15 | 15 | 17 | 22 |
| | | | | | | |

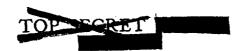
1. Including imports from other EC members.

(CONFIDENTIAL)

Sources of EC Energy

| | | | Percent |
|---------------|------|--------|---------|
| | 1957 | 1967 | 1972 |
| Domestic | 79.0 | 48.4 | 37.2 |
| Coal | 74.6 | 38.8 | 21.0 |
| Natural gas | 1.3 | 3.2 | 10.7 |
| Crude oil | 1.8 | 2.1 | 1.3 |
| Hydro/nuclear | 1.3 | 4.3 | 4.2 |
| Imported | 21.0 | 51.6 | 62.8 |
| Coal | 0.4 | 2.7 | 2.2 |
| Crude oil | | | |
| Arab oil | 13.8 | 34.8 | 42.1 |
| Other | 6.8 | 14.1 | 18.5 |
| | (| CONFIN | MIAL) |

22



| | | | Consuming Sector | | <u> </u> |
|----------------|---|--|--|---|---|
| Country | Transport | Industry | Commercial | Household | Trade |
| Australia | | | | | Banned export of natural gas and uranium |
| Austria | Substantial price rises, reduced speed limits, voluntary Sunday closing of gas stations, reduce octane contents of premium gasoline | Substantial price rises | Substantial price rises | Substantial price rises | |
| Belgium | Ban on Sunday driving, sale of gasoline in containers prohibited | Reduced energy usage | Reduced energy usage | Reduced school week, sale of gas- oline in containers prohibited | Export licensing for most petro- leum products |
| Bulgaria | Gasoline rationing, increased gas prices, lowered speed limits | Banned use of heating appliances during peak hours, change of work shifts and days to redis- tribute power load | 15% decrease in heating oil con- sumption in government and business offices | | |
| Canada | Increase in gasoline prices | | | | Minor cutbacks in exports to US |
| Colombia | Limited sales of jet and marine fuel | | | | |
| Czechoslovakia | | | Cutback in government energy consumption | | |
| Denmark | Ban on Sunday driving, reduced speed limits, 20% reduction in diesel fuel supplies | Sulfur content restrictions eased, 25% reduction in oil supplies | 25% reduction in heating oil supplies, ban on outdoor lighting | 25% reduction in heating oil supplies | |
| France | Reduced highway speeds, flight cutbacks | | Curbs on nighttime lighting of monuments, store displays, and office buildings, limit of 4% increase in heating oil deliveries, reduced television transmission, sale of gasoline in containers prohibited | Voluntary heating restrictions, sale of gasoline in containers prohibited | |
| Greece | Reduced speed limits | Electricity use cut 10% | Electricity use cut 10% | Electricity use cut 10% | |
| | | | | | dibles commun. |

Consuming Sector

| Country | Transport | Industry | Commercial | Household | Trade |
|-------------|--|--|---|---|--|
| India | Increased prices of gasoline and kerosene | | Increased prices of gasoline and kerosene | Increased prices of gasoline and kerosene | |
| freland | Issued gasoline rationing, applica- tions not yet in effect, reduced oil supplies by 10% | 5% reduction in deliveries | 5% reduction in deliveries | 10% reduction in deliveries | |
| Italy | Ban on Sunday driving, raised price of gasoline, banned week- end gasoline sale, reduction in airline speeds, reduction in use of diesel, heating, and residual fuel oils | Reduction in use of diesel, heating, and residual fuel oils | Restricted outdoor lighting and movie showings, early closing of nightspots and government offices, reduction in use of diesel, heating, and residual fuel oils | Reduced television transmission, 20% decrease in heating oil deliv- eries, reduction in use of diesel, heating, and residual fuel oils | Banned all oil exports, including to other EC nations |
| Japan | Voluntary conservation measures | 10% cut in power and oil con- sumption in most major industries | Voluntary conservation measures | Vuluntary conservation measures . | |
| Luxembourg | Ban on Sunday driving, reduced speed limits, 40% increase in gasoline prices, reduced gas station hours | Fuel oil prices raised 20% | Fuel oil prices raised 20% | Fuel oil prices raised 20% | |
| Mexico | 100% increase in gasoline prices, increase in other petroleum prod- ucts prices | | Increased prices on liquefied petro- leum gas | Increased prices on liquefied petro- leum gas | |
| Netherlands | Fuel rationing effective 7 Jan 1974, 4 gallon weekly limit per car, sale of gasoline in containers prohib- ited, 40% reduction in state road lighting | Deliveries reduced 15% | Deliveries reduced 15%, cuthacks in illumination in show windows, advertising, and holiday lights | Deliveries reduced 15%, sale of gasoline in containers prohibited | Export licensing for most oil products |
| New Zealand | 50 mph speed limit, regulations allowing gaz stations to refuse unusual sales | Stoppage of all oil-fited power stations | Ban on oil company pronustional advertising, oil supplies to fishing vessels cut off | Limited sales to overseas shipping | |
| Norway | Gasoline rationing, gas stations closed at night and on weekends, automobile railies and competi- tions prohibited, ban on Sunday driving | Gasoline rationing, 25% reduction in heating fuel deliveries between Oct 1973 and May 1974 | Gasoline rationing, 25% reduction in heating fael deliveries between Oct 1973 and May 1974 | | |
| Philippines | Increased prices, gasoline rationing | increased prices, priority alloca- tion to food processing and pub- lic utilities | Increased prices | 100% surtax on electric power usage exceeding 90% of estab- lished monthly average | Elimination of import duties on petroleum, restricted bunkering for ships and air carriers |
| | | | | | |

(UNCLASSIFIED)



Summary of Conservation Measures Adopted (Continued)

| • | | | Consuming Sector | | |
|---------------|--|---|---|--|--|
| Country | Transport | Industry | Commercial | Household | <u>.</u> Trade |
| Poland | Restrictions on Sunday and holi- day driving, speed limits reduced, decrease in gasoline consumption of government vehicles | | | | |
| Portuga) | Limited sales of gasoline, 10% in- crease in prices, weekend gasoline sales prohibited, increase in diesel oil and high-grade petrol prices | Increased prices | Increased prices | Increased prices | |
| Romania | Gasoline rationing for private vehicles, priority for commercial vehicles, lower speed limits | Rationing and regulation of gaso- line, fuel oil, and electricity, temperature reductions | Temperature reductions | Temperature reductions | |
| Singapore | | Increased prices | 10% reduction in electrical power consumption | | Restricted bunkering services |
| South Africa | Weeknight and weekend closing of gas stations, 50 mph speed limit | | · | | • |
| South Korea | Decreased speed limits, increased tolks, banned Sunday gas sales, curtailed operation of buses, taxis, and air service | Fuel deliveries to all industries re- duced 25%, strategic industries receiving priority allocation | Television transmission hours cut, reduced shopping hours, closure of commercial indoor swimming pools, external department store lighting banned | Reduced temperatures, sharing of remaining petroleum supplies | Ban on export of petrochemical prod- ucts, ban on coal exports expected |
| South Victnam | Oil supplies out 10%, prices in- creased 36%-47%, restricted gas- oline sales, reduced speed limits, 50% out in civilian in-country air flights, container sales pro- hibited | Prices increased 36%-47%, supplies out 10% | Prices increased 36%-47%, elec- trical use cut 10%, lighted adver- tising prohibited | Prices increased 36%-47%, elec- trical use cut 10%, home air conditioning prohibited | |
| Spain | Restricted gasoline sales, 20% price rise | 20% price rise | 20% price rise | 20% price rise | Oil exports restricted |
| Sweden | Gasoline rationing | Gasoline rationing | Gasoline rationing, advertising lighting hanned, street and store lighting restricted | | • |
| Switzerland | Ban on Sunday driving, reduced speed limits, 15% - 20% reduced gasoline allocation by suppliers | ٠ | | | |
| Tziwan | Banned nightline gasoline sales, limited Sunday and holiday gas sales | 3% reduction in line voltage, 25% reduction in energy consumption by all government agencies | 3% reduction in line voltage, cut- hack on outdoor lighting and on air conditioning in public offices | 3% reduction in line voltage | (UNCLASSIFIED) |



Summary of Conservation Measures Adopted (Continued)

| | | Consuming Sector_ | | | | | | |
|----------------|---|---|---|---|---|--|--|--|
| Country | Transport | Industry | Commercial | Household | Trade | | | |
| United Kingdom | Distributed ration coupons - not yet in effect, 50 mph national speed limit, 17% aviation fuel cutbacks, raised price of gasoline | Three-day workweek effective I January, 10% reduction in oil deliveries | Three-day workweek effective 1 January, 10% reduction in oil deliveries, banned use of elec- tricity for heating purposes, heating and lighting outbacks, re- duction in television transmissions, electricity outbacks | 10% reduction in oil deliveries, electricity cutbacks | Export Reensing for all oil products, 10% cutback in bunkering | | | |
| West Germany | Driving ban on alternate weekends effective in mid-January | • | | | Imposed export licensing system on oil products | | | |
| Yugoslavia | increased gas prices, limit on gasa- | | • | • | | | | |