1-31 December 1975

Energy: some blunt facts about sources...

"HE power situation in the Philipnines is much worse than we have always thought it was.

We always said before that fossil fired generators or generators of ma that produce electricity constichines tute 75 percent to 85 percent of our sources of energy. That is not true. What is true is that 94 percent of our energy or our electricity is right now produced by fossil-fired generators. And it will serve no purpose for anyone, in any way, to mislead our people.

It is now necessary to inform our people pointblank, frankly, and can-didly, that only six percent is produced from hydroelectric power. And it is now the program of government to move as fast as possible into the generation of from hydroelectric sources electricity as well as from the geothermal sources that we are developing right now

There have been optimistic fore casts about our converting our entire country into consumers of electricity that would come from non-fossil fired enerators by 1985. This just isn't pos sible. It is not possible to convert the entire country into a country that will utilize only hydroelectric and geothermal power within the next 10 years Even if we were to bankrupt our

selves-bankrupt the government and the private sector-we could not do it most reasonable and feasible solution-the compromise that we may ar-rive at-would be to reduce the fossilfired generators from 94 percent to 75 percent by 1985.

That's quite a big letdown isn't it? But I thought if nearssary and wise to the people of the facts, I'm always horrified when I read that there are ambitious government-programs to con-vert the sources of electric power by 1985 into non-fossil fired generators. This raises false hopes among our people.

We must accept the reality that while we were paying P2.2 billion be-

fore the oil crisis, we are now pavine P7.2 billion every year. From \$200 mil-lion, we are now paying \$840 million. And before the next year is over, we will be paying about \$1 billion.

These are sobering facts. In fact all those who study these figures certainly are shocked into the realization that we are tardy in taking precautions against this problem getting out of hand

While we are in the process of ex-ploiting our geothermal and hydroelectric potential, we are also moving into nuclear power generation. We are presently studying the impact of a costly nuclear power plant which may cost as much as \$100 million or \$1 billion insofar as it may curtail other projects in our country. For, while our credit is good, we can borrow only so much every year. And this year, it may be necessary to allocate these credits to various projects we have in mind. One happy development is that we

have now discovered nuclear deposits or uranium deposits in the Philippines. The Philippine Atomic Energy Commission has successfully processed Philippine uranium ore and produced the formula of u-38 by a completely Filipino team. The potential sources of uranium in

the Philippines on geology considera-tions are: (1) Camarines Norte, (2) Sa-mar, (3) Ilocos Norte, (4) others, like Negros and Mindanao.

Negros and Mindanao. For every 600 megawatt nuclear power plant, we need 60 tons of urani-um per year. It costs presently \$32 per pound, and the price is still on the rise.

Whether it is oil, uranium, or ever the machinery for geothermal units for hydroelectric power, the production cost of energy is going up. Across this broad terrain of escalating prices, therefore the logic of conservation becomes more valid and urgent.

- PRESIDENT MARCOS at launching of ENERCON movement

The new oil laws

HE thrust of the government's oil the thrust of the sovernment of the conservation measures is to offset additional \$100 million in the court try's oil hill as a result of the OPEC oil price increases.

To achieve this President Marcos has issued the following directives: Letter of Instructions No. 328

(Issued on 27 October 1975)

Under this Letter of Instructions all government agencies were required

-reduce their oil, electricity, and ower consumption by at least five per cent except in cases where it would prejudice the national interest;

-desist from putting up Christmas displays or lights that consume electri city:

-avoid the purchase and use of big cars which are heavy users of gas and oil: and

-shut off all neon, advertising, and building lights not later than midnight daily except those that are needed for the protection and security of their prémises

LOI 328 also specified tasks for the following government agencies:

THE DEPARTMENT OF INDUSTRY

a. To direct all industrial plants, factories, commercial establishments and other entities consuming at least P3-million worth of fuel, oil and power yearly to formulate and submit compreyearly to formulate and submit compre-hensive programs of power and energy conservation, the administration and im-plementation of which the DOI shall

monitor. b. To study, formulate, and rec-ommend to the President, standards on energy use for industrial plants and fac-

c. To review the country's national development plans and attune th available energy resources, in collabora-tion with the National Economic Development Authority and the Board of Investments.

THE PHILIPPINE NATIONAL OIL COMPANY, THE NATIONAL OIL COMPANY, THE NATIONAL POWER CORPORATION, AND THE NATION-AL ELECTRIFICATION ADMINIS-TRATION

To organize a pool of engineers and combustion efficiency experts to assist industrial concerns and factories in developing their conservation programs THE DEPARTMENT OF FINANCE

To review and study taxes for items considered significant power-users -such as big automobiles, sports cars, gasoline-powered trucks and luxury appliances and recommend to the President the necessary imposition of taxes and policies to discourage the use of uneconomic machines. The LTC was to review the registration fees and require-ments for such cars and trucks, and make recommendations to the President.

THE DEPARTMENT OF TRADE

To study and promulgate regula tions on the use of all types of lighted nted advertising signs, particularly neon lights. Initially, the Trade Secretary was to prohibit the operation of all types of lighted advertising beyond midnight THE LAND TRANSPORTATION COM MISSION

The LTC the Philippine Constabulary and all police agencies were to strictenforce all laws and regulations prohibiting the operation of dilapidated, unroadworthy and inefficient motor vehicles and to intensify traffic-flow improvement campaigns.

The Defense Secretary was to make available the authority and resources of his office to other government agencies to insure that power conservation and efficient fuel and energy utilization programs, regulations and directives are enforced

Letter of Instructions No. 329 (Issued on 27 October 1975)

This decree enjoined the entire country to conserve fuel and energy, or face gas rationing. It also directed the Commission on Audit to inform government officials and drivers that the un-authorized use of government vehicles is punishable with the arrest of violators.

etter of Instructions No. 339 (Issued on 20 November 1975)

Under this LOI, the President diconcer this LOI, the President di-rected the Philippine National Oil Com-pany to be responsible for implementing the government's converte ansier the government's comprehensive pro-grams for the development and use of the country's coal resources as an alter-native source of energy.

ON 11 December 1975, President Marcos launched the "Energy Conservation Movement" in Malacañang. This is a loose organization of private corporations and associations organized by the Philippine National Oil Company.

On launching the movement, the President issued three Presidential decrees designed to deter wasteful and uneconomic use of fuel.

Presidential Decree No. 843

Under this the annual registration fees for private automobiles were fixed in accordance with their factory or seating weight, as follows:

Presidential Decree No. 844

PD 844 imposed an energy tax on private non-commercial aircraft.

Presidential Decree No. 845

This decree imposed energy tax on motorized watercraft used for pleasure and recreation. It also amended the the Tariff and Customs code.

On the same occasion the Presi-dent also issued Presidential Decree 846 which required all sectors of mass media to participate actively in the information and educational campaign for the conservation of fuel by providing for free space and time in their newspapers or on radio and television stations.

Rising cost of electricity

MERALCO, which consumes about M 14 percent of the Philippines' total oil imports, paid only \$1.68 per barrel (C & F) for our oil imports in 1960. In 1972, the cost per barrel had risen to only \$2.15. In 1973, it rose to \$3.00 or P26.15 per barrel. In March of 1974, it had risen to \$9.55 or P83.62 per barrel. Up to October of 1975, the price had escalated to over \$11.00 per barrel, and now it is more than \$12.00 per barrel.

The Philippines is in the unh ADDV position of depending almost entirely on imported oil to propel its economy. We have large rivers and waterfalls, and coal of low heating value, but all those contribute only eight per cent of the energy we need.

In 1964, we were importing only 30.8 million barrels of oil. In 1973, oil imports rose to 65.9 million barrels. In 1964, the country's oil bill was only about \$61 million dollars. In 1973, it was \$198 million dollars. In 1974, it had risen to \$750 million dollars.

In 1975, it will be about \$840 million dollars; and in 1976, it is estimated to escalate to \$980 million dollars at present OPEC prices. Considering that our country's total

foreign trade in 1974 was about \$5.8 billion dollars, of which \$3.1 billion dollars was for imports, oil represented about 24 per cent of our import bill. In 1975, the cost of oil is about 27 per cent of our import expenses. In 1976, it will represent about 32 per cent.

... and about savings

AND transportation and industry account for 35 percent and 32 percent, espectively, of all petroleum consumed in the country.

Power generation accounts for 18 cent. Meralco alone consumes 14 per cent. ercent of the 18 percent

Shipping, aviation fishing and other sectors account for less than 10 per cent of the balance

Thus, the greatest savings in energy use will come through eliminating waste-ful consumption of petroleum fuels in cars, trucks, and buses as one class; sec-ondly in industry; and thirdly, by conserving electricity, particularly in the Metropolitan Manila area.

These three sectors together account for over 80 per cent of all petroleum

se in the country. Simple, isn't it? Eighty per cent of all the petroleum consumed in the country is in the hands of those who drive cars, trucks, and buses; in the hands of those who are in industry; and of those who live in Greater or Metro Manila.

This would make it simple for any-one to plan and say: "All right, all of you therefore, cut consumption by 10 per cent or, say, 50 per cent." But the plans are easier to make than to implement

There are many steps that can be taken by everyone right now to elimi-nate wasteful consumption of petroleum. The momentum of the energy con-

servation movement—which was, of course, started way back in 1973 when we had the system of allocation of gas

was somehow lost. And now it is need essary to regain the momentum.

National demand for petroleum in 1974 was successfully reduced to 65 million barrels which was five million barrels less than 1973. But I am informed by the Philippine National Oil Company that the country will consume about 72 million barrels in 1975, which be 10 per cent more than 1974 will And consumption in 1976 is projected to grow by another 11 per cent to 80 million barrels, unless the energy conservation program is successful.

Let us remember that every barrel of oil saved means over \$12 of import savings and every percentage of con-sumption that is saved means over a \$9 million for the country.

I appeal to everyone for their fullhearted participation for the national economic reasons that I have already mentioned, knowing that each individ ual effort at saving of energy redounds to his own benefit as well as that of the country.

I am prepared to implement appro priate economic sanctions against those who waste energy, but 1 hope that this can be kept to a minimum. It is best the State and the government do not step in, but that our people develop the capability to face up to a challenge and to a crisis without proddings or the coercive power of government.

PRESIDENT MARCOS at launching of ENERCON movement