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ECONOMIC COMMITTEE

ESTIMATED MACHINERY ORDERS BY EASTERN COUNTRIES IN 1973

Note by the Chairman

Attached is an estimate by the International Staff of a "leading indicator" of East-West trade trends in 1973 - the volume of new orders placed by the USSR and Eastern Europe in the West during that year.

- 2. The estimate is a preliminary one, based on a fairly limited selection of UNCLASSIFIED sources including Eastern and Western media reports. Arrival at a general consensus concerning this leading indicator would be most useful.
- 3. To this end, delegations are invited to confirm or revise the estimate or otherwise to provide further relevant information.

(Signed) Y. LAULAN

NATO, 1110 Brussels.

ESTIMATED WESTERN MACHINERY ORDERS BY EAST IN 1973 RISE 25% OVER RECORD HIGH OF 1972

Note by the Economic Directorate

- 1. Orders by Warsaw Pact countries for Western machinery and technology broke past records again last year. Such purchases of machinery for delivery amounted to \$3.3 billion, or about 27% more than the 1972 total, which was approximately double the maximum amount of previous years (see Annex I). The increases of both years remain considerable even after allowances are made for dollar devaluation (about 10% each year) and inflation.
- Changes in new orders, in the East as in the West, are significant for several reasons. First, the rise in Soviet/East European machinery orders may presage an eventual increase of roughly similar degree in extension of medium/long-term export credits by industrialised Western countries. Furthermore, while small relative to Western machinery production (about \$25 billion for France alone in 1970) and total Soviet investment (perhaps \$130 billion in 1970), new orders indicate the future volume of Eastern machinery imports, which accounted for about 3/8 of total Soviet imports in hard currencies in 1972. Such acquisitions of Western technology represent a major Eastern objective in East-West trade and one of the principal growth possibilities therein. Finally, new orders reflect the degree of confidence of both sides in Eastern credit-worthiness, in Eastern economic prospects generally, and (to some extent) in East-West détente.
- In 1973 the USSR continued to account for about 3/4 of total Eastern machinery orders (see Annex I) as well as the bulk of those placed in the industrial West on relatively easy payment Self-liquidating projects and credits, which are ultimately repayable by the East with products of the Western equipment originally provided under the credit, represented only 15% of East European orders but about 64% of the USSR's (see Annexes II and III). Soviet industrial co-operation arrangements of this type with the West concentrated largely on chemical plant and equipment and auxiliary installations. Over 90% of Eastern European orders originated in Rumania and Poland. For the second successive year, such purchases exceeded \$300 million in the case of Poland, whose general economic situation has been strengthened by its dynamic economic growth, by rising world demand for coal and by the increasing competitiveness of its own engineering industry, which received substantial orders from the West last year (see Annex III).

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- 4. NATO countries were the beneficiaries of about 85% of the Eastern machinery orders placed in the West in 1973, as in 1972 (Annex I). The United States received the largest amount totalling about \$1.3 billion, followed by Italy, West Germany, France and Japan (\$300-540 million apiece) in that order (see Annexes II and III).
- As regards possibilities for continuance or further increases in such high levels of Eastern orders, the recent emergence of shortages of fuel and other materials in industrialised Western countries injects considerable new uncertainties. Prospects for East European countries, excepting Rumania, appear relatively unfavourable. The rise in world oil prices should ultimately be reflected in oil exports by the USSR to its allies, in effect absorbing a larger proportion of their exports and thus decreasing their ability to repay credits - and to place machinery The USSR may also lose in certain respects orders - in the West. from the oil-price rise, which may lead to substantial redirection to Persian Gulf countries (the primary oil suppliers) of Western machinery exports and capital markets. On the other hand, the USSR is itself a minor exporter of oil and a major exporter of other minerals, and may accordingly, on balance, remain relatively competitive for Western credits and industrial co-operation. arrangements in this field.

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ANNEX I to AC/127-WP/387

ESTIMATED ORDERS OF THE USSR AND EASTERN EUROPE FOR WESTERN MACHINERY AND TECHNOLOGY 1971-1973

(\$ Millions)

	1971		1972		1973	
	TOTAL	(NATO)	TOTAL	(OTAM)	TOTAL	(NATO)
Total Eastern Countries	1,059	(757)	2,590	(2,173)	3,314	(2,912)
USSR	841	(644)	1,965	(1,659)	2,473	(2,171)
Eastern Europe	218	(113)(1)	625	(514)	841	(741)
Rumania	72	(72)	32	(32)	476	(464)
Poland	70	(23)	427	(370)	301	(254)
Bulgaria	_	-	53	(53)	48	(13)
Czechoslovakia	17	(17)	91	(46)	12	(8)
Hungary	59	(1)	. 22	(13)	4	(2)
		· • • • • • • • • • • • • • • • • • • •			1	

Sources:

USSR, 1971 and 1972 - "Soviet Economic Prospects for the Seventies" - article by Mr. J.T. Farrell,

published by the Joint Economic Committee,

US Congress, 24th June, 1973.

Other

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See Annex III, page 1, footnote (1). data:

⁽¹⁾ Probably understated.

ANNEX II to AC/127-WP/387

ESTIMATED ORDERS BY THE USSR AND EASTERN EUROPE FOR WESTERN MACHINERY AND TECHNOLOGY, 1973 INCLUDING SHARE OF SELF-LIQUIDATING PROJECTS(1): BY WESTERN AND EASTERN COUNTRIES

(\$ Millions; (%) indicates share accounted for by self-liquidating projects)

Purchaser Supplier	TOTAL	East	USS	SR	Eas Eur	tern ope	Rumania	Po]	and	Bulgaria	Czecho- slovakia	Hungary
TOTAL West	3,314	(52%)	2,473	(64%)	841	(15%)	476 (17%)	301	(5%)	48 (69%)	12 (-)	4 (50%)
NATO Countries	2,912	(54%)	2,171	(68%)	741	(11%)	464 (14%)	254	(6%)	13 (-)	8 (-)	2 (-)
France FRG Italy Netherlands Norway United Kingdom United States	433 498 537 5 23 145 1,271	(70%) (12%) (93%) (-) (-) (42%) (50%)	414 357 532 - 17 81 770	(72%) (15%) (94%) (-) (81%)	19 141 5 6 64 501	(20%) (4%) (20%) (-) (-) (95%) (3%)	9 (33%) 5 (20%) - 61(100%) 389 (1%)	6 130 5 - 1 112	(67%) (2%) (-) (-) (9%)	13 (-) - - - -	2 (-) - 6 (-)	- - - 2 (-)
Austria Japan Sweden Switzerland	4 303 73 22	(-) (48%) (3%) (-)	209 71 22	(48%) {-} (-)	4 94 2	(15%) (100%)	- 12(100%) - -	- 47 -	(-)	- 35 (94%) -	-	- 2(100%) -

Source: See Annex III, page 1, footnote (1)

⁽¹⁾ Self-liquidating projects and credits are those that are repaid over time by the Eastern recipient with products of the Western equipment ordered.

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ANNEX III to AC/127-WP/387

ORDERS PLACED FOR MACHINERY AND TECHNOLOGY BY THE USSR AND EASTERN EUROPE IN INDUSTRIAL WESTERN COUNTRIES (AND VICE VERSA) IN 1973(1) (8 MILLION)

	(1) (2)	(3)	(4)
	Eastern and Western	PETRO de monte de la composition della compositi	Value
	Customers & Item Suppliers Ordered	Total	Self-liquidating(2)
I.	USSR: Orders placed in the West	2,473	1,578
	NATO Countries: Total	2,171	1,478
	France: Total	414	300
	Cellulose plant Three styrene/ethylene	180	180
	plants(3) Anode plant	115 42	115
	40,000 tons of seamless pipe Textile equipment Cigarette lighter plant Communications cables	19 17 12 10	
	Twenty oil-pipeline compressors Pipe-threading equipment Aircraft data system 50 truck trailers Crushing machinery	5 5 3 3 3	5
	FRG: Total	357	<u>54</u>
	Transmission gear plant (for Kama truck factory) Polyester fibre plant Polyethylene plant Aluminium coating equipment Electrical equipment for	125 68 54 32	54
	rolling mill Slab casting plant Cigarette filter plant Aluminium rolling mill Conveyors for ZIL truck	24 20 14 12	
	factory	8	

(1) Source: Collation by International Staff of reports from Western and Eastern media and other UNCLASSIFIED sources.

(3) Order placed with group consisting of French and US companies.

⁽²⁾ Self-liquidating projects and credits are those that are repaid by the Eastern recipient with products of the Western equipment ordered.

ANNEX AC/12	III 7-WP/			-2-			
	(1)	(2)	•	(3)		(4)
•	Italy	: Total			532		500
		titanium Materials for alumi	onia, urea dioxide) handling nium found nery plant	system ry	500 22 5 5	•	500
	Norwa	y: Total			<u>17</u>	•	
		Fish-fact	ory ships t producti	on	15		
		equipment	c broducer	OII	. 2	•	
	Unite	ed Kingdom	: Total		81		
		spinning plant Razor bla	ne monomer	sing	65 [.] 9 4 3		
	Unite	ed States:	Total		770		624
		Black Sea	lities on (1) fertilizer		400		400
		plants(1)			200		200
		hotel for represent Acetic ac Compresso pipelines	id plant rs for gas	usine ss	50 45 25	•	·
		plants	nd motorcy	сте	19		19
		Blast fur Knitting	machinery		15 6 5		_
		Soft-drin Forge mac	k bottling hinery (fo	; plant r Kama			5
	<u>.</u>	truck fac 5,000 con			3 2	•	· .

⁽¹⁾ Portions of projects in agreement with the Occidental Corporation that appear to be under way. Total Occidental agreement reportedly amounts to about \$4 billion, is self-liquidating and covers chemical fertilizer plants, pipelines, port facilities, and superphosphoric acid to be provided by Occidental under credits.

•			- 3		ANNEX III to AC/127-WP/387
	(1)		(2)	(3)	(4)
	Japar	: Total		209	100
		Paper pla Air-cond Heavy pro	itioner plant	100 75 34	100
	Swede	n: Total	L	71	
		Cash-reg	pulp plant ister plant forging presses	45 18 8	
	Switz	zerland:	Machine tools (Kama truck fact		
II.	RUMAI	IIA			
	A.	Orders p	laced in the Wes	t 476	79
	NATO	Countrie	g: Total	<u>464</u>	67
	FRG:	Total		9	3
		Aircraft	generators parts plant gine plant	5 3 1	3
	Italy	y: Acryl	ic yarn plant	5	<u>1</u>
	Unite	ed Kingdo	m: Total	61	61
		3 steel	on system furnaces peroxide plant	53 6 2	53 6 2
	Unite	ed States	: Total	389	2
		3 Boeing Radial t Nuclear Micro-wa	mical plant 707 aircraft yre plant reactor ve equipment equipment	300 45 35 4 3 2	

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Name and Address of the Owner, where the Owner, which is the Owner, which is the Owner, where the Owner, which is the Owner	I to -4- P/387		
(1	(2)	(3)	(4)
Japa	an: Protein chemical plant	<u>12</u>	12
В.	Orders placed by the West in Rumania		
Nor	way: 12 ships (7,300 tons each)	<u>25</u>	25
III. POL	AND		
A. :	Orders placed in the West	<u>301</u>	<u>16</u>
TAN	O Countries: Total	<u>254</u>	<u>16</u>
Fra	nce: Total	<u>6</u>	4
	Computer production equipment Dust extractors (textile	4	4
-	equipment)	2	
FRG	: Total	<u>130</u>	2
	3 tankers 2 meat processing plants Yarn-twisting equipment Potato harvester plant	100 15 13 2	
Net	herlands: Dredging equipmen	nt <u>5</u>	
Uni	ted Kingdom: Shipyard equipment	1	
Uni	ted States: Total	112	<u>10</u>
	2 meat processing plants Foundry Metal finishing plant Food storage warehouse 9 steel furnaces 4 soft-drink plants Computer system	50 30 10 9 6 5	10
Jap	an: Total	<u>47</u>	
	Ethylene plant Satellite communication equipment	44	

		÷5÷		ANNEX III to AC/127-WP/387
	(1)	(2)	(3)	(4)
	B. Orders	s placed by the West land	185	<u>25</u>
	NATO Cour	ntries: Total	<u>175</u>	<u>25</u>
	Denmark:	Hotel, steel plant, docks, ships	45	25 repaid in form of Polish shares in Danish ventures
	Norway:	Two large liquid-gas tankers	??	Repeatedly one of largest orders
		Seven other ships	??	ever placed in Poland
	Netherlar United K	nds, FRG, ingdom: Five contain vessels	e r 130	
	Sweden:	Floating dock	<u>10</u>	
IV.	BULGARIA			
	Orders p	laced in the West	<u>48</u>	33
	NATO Cour	ntries:		
	Frai	Telecommunication equipment	ons <u>13</u>	
	Japa	an: Total	<u>35</u>	<u>33</u>
		Tourist hotel Ball-bearing plan Brewery	t 30 2	30 3
V.	CZECHOSLO	OVAKIA		
	Orders p	laced in the West	<u>12</u>	
	NATO Cour	ntries:		•
	FRG	: 8 high-pressure containers for chemical plant	2	
	Nor	way: Machinery	6	
	<u>Aus</u>	tria: Gas heating pla	ant 4	

ANNE AC/1	X III to 27-WP/387	-6-		
	(1)	(2)	(3)	(4)
VI.	HUNGARY			:
	A. Orders plant	aced in the West	<u>4</u>	<u>2</u>
	NATO Countri	es:		
	France:	4 generators	?	
	<u>United</u>	Kingdom: 1,000 containers	2	
	Japan:	Polyvinyl-chloride plant	?	
	Sweden:	Seeds and technology	2	(Repay with frozen fruit)