

Clean energy firms' stock prices, technology, oil prices, and carbon prices

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Keywords: Clean Energy; Firm Stock Prices; Oil Prices; Carbon Prices; Technology.

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I. INTRODUCTION

Climate change, resource scarcity of fossil fuels, energy security issues, and the development of new technologies have driven the debate, attention and scientific exploration regarding clean energy. The quick increase in demand in emerging economies (mostly China and India) and future oil supply shortages concerns (according to [1], world oil production is estimated to peak between 2016 and 2040) are expected ultimately to lead to higher oil prices in the future. Energy security issues and increased concern over the natural environment are also driving factors behind oil price movements. Moreover, the growing interest on renewable energy may be related to the development of new technologies and environmentally conscious consumers [2].

All of these issues suggest that economies need to protect themselves by substituting away from oil to alternative energy sources. Accordingly, they have also caused a surge in alternate energy investments. Indeed, the renewable energy sector has accomplished remarkable progress at the global level during the last decade. At the global level, it has been estimated that private and public investment in renewable energy climbed from 20 billion US\$ in 2008 up to 150 billion in 2009. Nevertheless, the total investment in renewables is Alfredo Marvão Pereira Department of Economics The College of William and Mary Williamsburg, Virginia, United States ampere@wm.edu

just a very modest 0.26 percent of the global GDP. There is, therefore, huge room for expansion of the clean energy sectors.

The economics literature has followed these developments. In [3], the authors use a five-variable vector autoregressive model (VAR) using weekly data for stock prices of clean energy firms, technology stock prices, oil prices, carbon prices, and the interest rate. It argues that global climate change drive the growth of alternative energy sources (less carbon intensive), inducing a positive relationship between the price of carbon emission permits and the stock prices of alternative energy sources. In [4] a Markov-Switching VAR is used relating oil prices, clean energy, technology stock prices and interest rates. It finds a positive relationship between oil prices and clean energy prices after accounting for structural changes. It also argues in favor of the existence of a similarity in terms of market responses to both clean energy stock prices and technology stock prices. In turn, [5] document the return and volatility spillover effects between the stock prices of Chinese new energy and fossil fuel companies using the asymmetric BEKK model and daily data between 30 August 2006 and 11 September 2012. Their empirical results show that new energy and fossil fuel stocks are competing assets; that positive news about new energy stocks could affect the attractiveness of fossil fuel stocks and that new energy stock investment is more speculative and riskier than fossil fuel stock investment. In [6] a VAR is employed using daily data from 3 January 2001 until 30 May 2007 to study the relationship between clean energy stock prices and oil prices. The authors find that there is little impact of oil prices but a significant impact from technology stock prices on stock prices of alternative energy companies. In [7] the contribution to this empirical analysis is pursued at the company level considering a sample of 560 US companies divided into 14 sectors. Using a GARCH model, it shows that different economic sectors are affected in a different way by changes in oil prices. The transport and energy sectors are positively impacted by oil price increases while the other sectors are negatively impacted.

With this empirical evidence in mind, our main goal in this note is to explore how oil prices, carbon prices, technology stocks and individual stock returns are related to each other. The main goals of this work are: first, to explore at the firm level the links between clean energy stock prices, oil prices, carbon prices, and technology stock prices (as in [3], but at the company level and considering the fact that from 2014 onwards oil prices faced a sharp drop); second, to account for the relationships among the different variables at the individual firm level, while endogenously controlling for structural changes in the market such as the financial crisis, big oil price increases/decreases, and changes in the carbon allowances markets (in the spirit of [4]); third, to see if at the individual stock company data the result of a significant relationship between carbon prices and the stock prices of the firms continues to fail to be identified (as in [3]); fourth, to understand how sensitive the financial performance of alternative individual energy companies are to changes in oil prices, technology stock prices and carbon prices (in the spirit of [6]).

Policymakers, with these results, would be able to judge which type of policies leverage significantly new energy stock investments and the extent to which the relevant financing channel, for energy development; the energy related stock market is able to turn easier the economy transition to a green market. Fossil fuel companies should be aware of the downside risks for fossil fuel stock prices in the context of current energy policy. Opposite and favorable fossil fuel policies (mainly the upward adjustment of product oil prices) are not expected to stimulate new energy stock investments in some cases. As such, different energy policy combinations could have different effects on the stability of energy stock investments and a higher effort should be placed to guarantee new energy development.

II. DATA AND METHODOLOGY

A. Data

In this work, we use weekly data from the German stock market. We select to work with the German market because renewables contributing 23.9 per cent of gross electricity production in Germany in 2013. In 2012 Germany had one third of the world's solar panels, and at one point these panels generated a lot of Germany's electricity, thus justifying the inclusion of more solar energy companies into our sample. In fact, in [8] we can read "Comparing countries' share of renewable energy in their energy supply, the map shows that European countries rank best in using low carbon resources for their energy production. Germany's "energy transition" could prove to be a role model for other countries to reduce their fossil fuel consumption." (p. 14). In this report USA and China are marked as "poor" performers, despite their massive investment in renewable energy in recent years. This further justifies changing the market analysis focus to the German case away from focusing on these countries, as in the previous literature.

We collected daily data for the thirty one green companies listed in the German market. Due to space limitations we have selected ten of these to report here. These ten companies were chosen as representative of the different types of renewable energy produced. Their names, activity, source, and start date are described in Table 1.

Table 1: Dat	ta Set
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Company	Var. Name	Start date	Activity	Weekly observ.	Source
BIOGAS NORD	r4	12/14/2006	Constructs biogas plants	309	deutsche-boerse.com
CROPENERGIES	r10	10/2/2006	Produces biotethanol	319	deutsche-boerse.com
HELIOCENTRIS EN.SLTN.	r12	6/26/2006	Fuel cell system platforms	333	deutsche-boerse.com
NORDEX	r15	8/5/2005	Wind energy	379	deutsche-boerse.com
PETROTEC	r17	11/6/2006	Biodiesel producers from waste	314	deutsche-boerse.com
S&O AGRAR	r20	8/5/2005	Biogas facilities	379	deutsche-boerse.com
SOLON	r27	8/5/2005	Solar energy production	379	deutsche-boerse.com
SUNLINE	r29	10/20/2005	Solar energy production	369	deutsche-boerse.com
SUNWAYS	r30	8/5/2005	Solar energy supply	379	deutsche-boerse.com
VERBIO VER.BIOENERGIE	r31	10/16/2006	Biodiesel, bioethanol producers	317	deutsche-boerse.com
All renewable energies index dax	rdax	3/31/2008		242	deutsche-boerse.com
BD EU-MARK 3M DEPOSIT (FT/TR) - MIDDLE RATE	rir	8/4/2005		379	www.bundesbank.de
EEX-EU CO2 EMISSIONS E/EUA - spot market	reexco2	8/5/2005		379	www.eex.com
Germany-DS Technology price index (TecDax)	rtgr	8/5/2005		379	deutsche-boerse.com
Europe Brent Spot Price FOB (Dollars per Barrel)	reubt	8/5/2005		379	www.eia.gov

For each of the remaining variables we considered alternative possibilities. With respect to carbon prices, we have data from the EEX-EU CO2 emissions E/EUA, the Settlement price CO2, Reuters CER 1-pos E/mt and the CO2, Reuters CER 2-pos E/mt EUR. With respect to technology indices we have daily data from the Germany-DS technology price index and the PSE adjustment close price. Finally, oil prices series were collected with respect to: Cushing, OK WTI Spot Price FOB (dollars per barrel) and Europe Brent Spot Price FOB (dollars per barrel).

All daily series were transformed into weekly observations by using the value of every Wednesday in the spirit of [3]. The data period goes from: 05-08-2005 until 28-11-2012 (changing with respect to start date depending on the series; see again Table 1). Furthermore, all price series have been transformed into log-levels.

B. Methodology

The methodology used is a vector autoregressive analysis. We consider weekly five-variable VARs to study the relationship among the different variables for each of the 10 clean energy companies stock prices as well as for the all renewable energies index DAX for a total of 11 VAR models. The remaining variables are the same in all cases: the stock index of technology companies in Germany, oil prices, carbon prices and the interest rate.

We start by performing descriptive statistics and correlation matrices of the data used. Next we study unit root properties of the data and to the optimal number of lags to be used in the estimations. Afterwards we present the results obtained through VAR estimations, their impulse response functions and variance decompositions.

When the issue of orthogonalization was pertinent, we followed the assumptions in [3]. The oil price was treated as the most exogenous variable given that from the set it is the most independent one, once it mainly depends over OPEC's decisions regarding petroleum supply, although we may think of other factors able to affect it. After we have considered the carbon price and companies/index returns. Climate change concerns should induce the use of cleaner energies, while higher oil prices redirects users to other sources not always less pollutant, which should impact CO2 allowances prices in the market. Later these markets movements will be reflected in individual alternate company's returns. Furthermore, the technology index and the interest rate representative are left for last because we assume that only if alternate energy investments are made it is justified the jump over the technology index and this positive impact will also exert influence over the interest rate.

Considering all of the alternative data series for technology, carbon price, oil price, and interest rates as presented above, we find that our empirical results were not particularly sensitive to the specific series we select to work with for each variable. As such, we focus on the results pertaining to the series identified in Table 1.

III. EMPIRICAL RESULTS AND DISCUSSION

A. Granger Causality

In Table 2, we show the Granger causality tests. Granger causality tests indicate that the alternate DAX index is explained by oil returns and technology stock prices. In addition, r10 is Granger caused by carbon allowance prices and r12, r29 and r30 by high technology returns. So we cannot establish a behavioral pattern with respect to company's activity. Moreover, while oil returns Granger-causes high technology returns, the reverse impact only occurs for the renewables index rDAX and in r20 and r29 companies.

In all models we find that interest rates and the stock prices of clean energy companies are not related from a Granger causality perspective, contradicting [3] and [5], except for r15 and r17. There are only a few cases where carbon allowances Granger-cause oil prices, whereas oil prices help explain carbon allowances in all situations. In some situations, similar to [3], with the exception of r10, r15, r17, r27, r31, we see that carbon prices do not Grange-cause the stock prices of clean energy firms and vice-versa. This result may be due to the spot price series used for carbon allowances and not future prices. But it may also be due to the fact that carbon prices are too low to internalize the carbon externalities. In sum, from a Granger causality perspective, oil prices are not the only variable able to explain the stock price of alternative energy companies.

Also, and unlike the literature, when we perform this type of analysis with respect to individual clean energy firms, the interest rate does not Granger-cause the stock price of high technology firms or even in the opposite direction, and these results prevail independently of the company considered. This result may be justified by the low interest rates in recent years of our analysis and the low investment levels due to the financial crisis in Europe.

Table 2: Granger Causality Tests

Dep.	Excluded	Chi-sq	Prob.	Dep.	Excluded	Chi-sq	Prob.	Dep.	Excluded	Chi-si	q Prob.	Dep.	Excluded	Chi-sq P	rob. Dep.	Exclude	d Chi-so	Prob.	Dep.	Exclude	d Chi-sq F	Prol
REUBT	REEXCO2	5.333	0.255	REUBT	REEXCO2	10.151	0.038	REUBT	REEXCOZ	10.69	1 0.080	REUBT	REEXCO2	8.941 (1. 063 REUBT	REEXCO	2 10.22	7 0.037 F	REUBT	REEXCO	2 8.482	0.01
	RDAX	10.223	0.037		R4	7.325	0.120		R10	477	7 0.311		R12	6.738 (1.150	R15	3.87	3 0.423		R17	0.482	0.9
	RTGR	17.384	0.002		RTGR	6.818	0.146		RTGR	7.56	0 0.109		RTGR	6.144 (1.189	RTGR	5.34	4 0.254		RTGR	8.809	0.0
	RIR	1.043	0.903		RIR	0.399	0.983		RIR	0.37	3 0.985		RIR	0.531 (1.970	RIR	4.46	4 0.347		RIR	0.420	0.9
	All	34.274	0.005		All	25.905	0.055		All	22.28	6 0.134		All	23.714 (1.096	All	24.58	3 0.078		All	17.465	0.3
REEXCO2	REUBT	35.721	0.000	REEXCO	2 REUBT	35.989	0.000	REEXCO	2 REUBT	36.34	9 0.000	REEXCO2	REUBT	31.831 (.000 REEXCO	2 REUBT	42.35	0 0.000 F	REEXCO2	REUBT	35.708	0.0
	RDAX	8.439	0.077		R4	1.894	0.755		R10	7.64	0.105		R12	9.451 (1.051	R15	9.50	7 0.050		R17	1.264	0.8
	RTGR	1.011	0.908		RTGR	1.939	0.747		RTGR	171	7 0.788		rtgr	1.016 (1.907	RTGR	4.55	3 0.336		RTGR	2.752	0.6
	RIR	1.750	0.782		RIR	1.988	0.738		RIR	2.02	1 0.732		RIR	2.652 (1.618	RIR	0.97	3 0.914		rir	2.297	0.6
	All	51.134	0.000		All	45.859	0.000		All	53.21	3 0.000		All	56.601 (.000	All	55.88	7 0.000		All	45.316	0.1
RDAX	REUBT	13.966	0.007	R4	REUBT	4.006	0.405	R10	REUBT	6.12	4 0.190	R12	REUBT	4.981 (1.289 R15	REUBT	5.35	1 0.253 F	817	REUBT	1.768	0.1
	REEXCO2	2.317	0.678		REEXCO2	6.137	0.189		REEXCOZ	8.69	2 0.069		REEXCO 2	1.680 (1.794	REEXCO	2 4.31	2 0.366		REEXCO	2 5.159	0.3
	RTGR	24.836	0.000		RTGR	4.665	0.324		RTGR	222	4 0.695		RTGR	10.368 (1.035	RTGR	5.78	4 0.216		RTGR	4.749	0.3
	RR	1.287	0.864		RIR	0.972	0.914		RIR	0.52	3 0.971		RIR	2.473 (.650	RIR	5.36	6 0.252	_	RIR	5.186	0.3
	All	56.037			All	16.046			All		7 0.309		All	21.058 (All		9 0.237		All	15.233	
RTGR	_	11.015	_	RTGR	REUBT	-	0.062	RTGR	REUBT	-	6 0.109	RTGR	REUBT		1.109 RTGR	REUBT	_	_	RTGR	REUBT	8.605	-
	REEXCO2	6,741	-	-	REEXCO2			-	REEXCOZ	-	4 0.155		REEXCO2			REEXCO	-	7 0.049		REEXCO	2 7.143	0.
	RDAX		0.589		R4	17.026			R10		8 0.011		R12	5.313 (R15		2 0.033		R17	2.158	
	RR	3.666			RIR	3.062			RIR		8 0.483		RIR	3.379 (RIR		0 0.556		RIR	3.412	
		24.541			All	38.411			All	-	4 0.005		All	25.333 (_	All	-	9 0.014	_	All	22.341	
RIR	REUBT	_	0.774	RIR	REUBT	2.185	_	RIR	REUBT	-	-		REUBT	1.632 (REUBT			-	REUBT	1,717	
nin	REEXCO2	1.303		iun	REEXCO2			nen	REEXCO2	-	2 0.381		REEXCO2			REEXCO	-	1 0.982		REEXCO		
	RDAX	_	0.420		R4	2.158			R10	-	0 0.871		R12	3.842 0		R15	-	8 0.065	_	R17	16.231	-
	RTGR	2.061			RTGR	3.585			RTGR	-	5 0.835		RTGR	1.591 (_	RTGR	_	7 0.716		RTGR	1.688	
	All	9.701			All	9.916			All	-	7 0.904		All	11.943 (All	-	2 0.265		All	24.476	
Dep.		-																				
	Exclude	ed Ch	i-sq	Prob.	Dep.	Exclude	d Ch	i-sq Pr	ob. De	ep. I	Exclude	d Chi-sc	Prob.	Dep.	Excluded	Chi-sq	Prob.	Dep.	Exclu	ided C	hi-sq Pri	rot
- '	REEXCO	_		-	<u> </u>	Exclude REEXCC	_	i-sq Pr .316 0.	_	-	Exclude REEXCO	_	Prob. 9 0.052	<u> </u>	Excluded REEXCO2	<u> </u>	_	Dep. REUBT	Exclu REEX	_	hi-sq Pr 9.169 Q	-
- '	_	02 8		0.072 F	REUBT		2 4		.116 REUG	BT		2 9.39	-	<u> </u>	_		0.049		_	CO2	<u> </u>	.05
- '	REEXCO	02 8 4	1.612	0.072 F 0.301	EUBT	REEXCO	2 4	.316 0	.116 REUG .364	ST I	REEXCO	2 9.39 1.73	0.052	<u> </u>	REEXCO2	9.553	0.049 0.691		REEX	CO2	9.169 Q	.0
	REEXCO R20	02 8 4 9	1.612 1.869	0.072 F 0.301 0.055	REUBT	REEXCC R27	2 4 2 3	.316 0. .024 0.	116 REUE 364 190	ST I	REEXCO R29	2 9.39 1.73 8.89	9 0.052 7 0.784	<u> </u>	REEXCO2 R30	9.553 2.247	0.049 0.691 0.138		REEX R31	1CO2 {	9.169 Q 3.050 Q.	.0
	REEXCO R20 RTGR	D2 8 4 9 4	1.612 1.869 1.278	0.072 F 0.301 0.055 0.402	REUBT	REEXCC R27 RTGR	12 4 2 3 0	.316 0 .024 0 .320 0 .996 0	116 REUE 364 190 608	ST I	REEXCO R29 RTGR	2 9.39 1.73 8.89	9 0.052 7 0.784 4 0.064 7 0.419	<u> </u>	REEXCO2 R30 RTGR	9.553 2.247 6.958	0.049 0.691 0.138 0.377		REEX R31 RTGF	:CO2 {	9.169 0 3.050 0. 9.256 0 0.395 0.	.0. .5 .0.
REUBT	REEXCO R20 RTGR RIR	02 8 4 9 4 25	1.612 1.869 1.278 1.034 1.637	0.072 F 0.301 0.055 0.402 0.059	REUBT	REEXCC R27 RTGR RIR All	12 4 2 3 0 11	.316 0. .024 0. .320 0.	116 REUE 364 190 608 157	ST I	REEXCO R29 RTGR RIR Ali	2 9.39 1.73 8.89 3.90 22.63	9 0.052 7 0.784 4 0.064 7 0.419 5 0.124	REUBT	REEXCO2 R30 RTGR RIR	9.553 2.247 6.958 4.217	0.049 0.691 0.138 0.377 0.118	REUBT	REEX R31 RTGF RIR	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9.169 0. 3.050 0. 9.256 0.	.0: .5: .0: .9: .2:
REUBT	REEXCO R20 RTGR RIR All	D2 8 4 9 4 25 38	1.612 1.869 1.278 1.034 1.637	0.072 F 0.301 0.055 0.402 0.059 0.000 F	IEUBT	REEXCC R27 RTGR RIR All REUBT	12 4 2 3 0 11 23	.316 0. .024 0. .320 0. .996 0. .878 0.	116 REUE 364 190 608 157 .000 REE)	BT 	REEXCO R29 RTGR RIR Ali	2 9.39 1.73 8.89 3.90 22.63 38.39	9 0.052 7 0.784 4 0.064 7 0.419 5 0.124	REUBT	REEXCO2 R30 RTGR RIR All	9.553 2.247 6.958 4.217 22.862	0.049 0.691 0.138 0.377 0.118 0.000	REUBT	REEX R31 RTGF RIR All	1CO2 R 2 BT 3	9.169 0 / 3.050 0. 9.256 0 / 0.395 0. 0.435 0.	.0 5 .0 2
REUBT	REEXCO R20 RTGR RIR All 2 REUBT	02 8 4 9 4 25 38 0	1.8612 1.869 1.278 1.034 1.637 1.571	0.072 F 0.301 0.055 0.402 0.059 0.000 F 0.997	REUBT	REEXCC R27 RTGR RIR All	2 4 2 3 0 11 23 5	.316 0. .024 0. .320 0. .996 0. .878 0. .883 0. .577 0.	116 REUE 364 190 608 157 000 REE) 062	3T 	REEXCO R29 RTGR RIR All REUBT	2 9.39 1.73 8.89 3.90 22.63 38.39 1.02	9 0.052 7 0.784 4 0.064 7 0.419 5 0.124 8 0.000	REUBT	REEXCO2 R30 RTGR RIR AII 2 REUBT	9.553 2.247 6.958 4.217 22.862 41.104 6.044	0.049 0.691 0.138 0.377 0.118 0.000 0.196	REUBT	REEX R31 RTGF RIR All 22 REUE	2 2 3 3 3 1	9.169 0. 3.050 0. 9.256 0. 0.395 0. 0.435 0. 5.519 0. 0.660 0.	.09 .09 .09
REUBT	REEXCO R20 RTGR RIR AII 2 REUBT R20 RTGR	D2 8 4 9 4 25 38 0 38 0 3	1.612 1.869 1.278 1.034 1.637 1.571 1.166 1.243	0.072 F 0.301 0.055 0.402 0.059 0.000 F 0.997 0.518	REUBT	REEXCO R27 RTGR RIR AII REUBT R27 RTGR	2 4 2 3 0 11 23 5 0	.316 0. .024 0. .320 0. .996 0. .878 0. .883 0. .577 0. .772 0.	116 REUE 364 190 608 157 000 REE) 062 680	BT 	REEXCO R29 RTGR RIR AII REUBT R29 RTGR	2 9.39 1.73 8.89 3.90 22.63 38.39 1.02 2.72	0.052 0.784 0.064 0.419 0.124 0.000 0.9006 0.9006 0.9006 0.605	REUBT	REEXCO2 R30 RTGR RIR AII 2 REUBT R30 RTGR	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788	0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.594	REUBT	REEX R31 RTGF RIR AII D2 REUE R31 RTGF	2002 2 3 3 1 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 3 3 1 3 3 1 3 3 1 3 1	9.169 0. 3.050 0. 9.256 0. 0.395 0. 0.435 0. 5.519 0. 0.660 0. 2.570 0.	.09 .54 .09 .09 .00
REUBT	REEXCO R20 RTGR RIR AII 2 REUBT R20 RTGR RIR	22 8 4 9 4 25 38 0 0 38 0 0 3 3 8 0 0 0	1.612 1.869 1.278 1.034 1.637 1.166 1.243 1.839	0.072 F 0.301 0.055 0.402 0.059 0.000 F 0.997 0.518 0.933	REUBT	REEXCO R27 RTGR RIR AII REUBT R27 RTGR RIR	2 4 2 3 0 11 23 5 0 0 0	.316 0 .024 0 .320 0 .996 0 .878 0 .883 0 .577 0 .772 0 .104 0	116 REUE 364 190 608 157 000 REE) 062 680 949	BT	REEXCO R29 RTGR RIR AII REUBT R29 RTGR RIR	2 9.39 1.73 8.89 3.90 22.63 38.39 1.02 2.72 0.85	0.052 0.784 0.064 0.0419 0.124 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	REUBT	REEXCO2 R30 RTGR RIR AII 2 REUBT R30 RTGR RIR	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 0.968	0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.594 0.915	REUBT	REEX R31 RTGF RIR AII 22 REUE R31 RTGF RIR	2 2 3T 3 1 2	9.169 0. 3.050 0. 9.256 0. 0.395 0. 0.435 0. 5.519 0. 0.660 0. 2.570 0. 2.156 0.	.0 5 .0 .0 .0 .0
REUBT	REEXCO R20 RTGR RIR AII 2 REUBT R20 RTGR RIR AII	22 8 4 9 4 25 38 0 38 0 3 3 3 0 0 45	1.612 1.869 1.278 1.034 1.034 1.637 1.166 1.243 1.839 1.353	0.072 F 0.301 0.055 0.000 F 0.000 F 0.997 0.518 0.933 0.000	REUBT	REEXCC R27 RTGR RIR AII REUBT R27 RTGR RIR RIR AII	2 4 2 3 0 11 23 5 0 0 0 31	.316 0. .024 0. .320 0. .996 0. .878 0. .878 0. .577 0. .577 0. .104 0. .060 0.	116 REUE 364 190 608 157 000 REE) 062 680 949 000	BT 	REEXCO R29 RTGR RIR AII REUBT R29 RTGR RIR AII	2 9.39 1.73 8.89 3.90 22.63 38.39 1.02 2.72 0.85 45.69	 0.052 0.784 0.064 0.419 0.124 0.000 0.906 0.605 0.931 0.000 	REUBT	REEXCO2 R30 RTGR RIR AII 2 REUBT R30 RTGR RIR AII	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 0.968 51.981	0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.594 0.915 0.000	REUBT	REEX R31 RTGF RIR AII D2 REUE R31 RTGF RIR AII	2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9.169 0. 3.050 0. 9.256 0. 0.435 0. 0.435 0. 0.435 0. 0.660 0. 2.570 0. 2.570 0. 2.156 0. 6.386 0.	.09 .54 .09 .98 .20 .00
REUBT	REEXCO R20 RTGR RIR AII 2 REUBT R20 RTGR RIR AII REUBT	22 8 4 9 4 25 38 0 38 0 33 0 45 1	1.612 1.869 1.278 1.034 1.637 1.571 1.166 1.243 1.839 1.839 1.353 1.988	0.072 F 0.301 0.055 0.402 0.059 0.000 F 0.997 0.518 0.933 0.000 0.738 F	REUBT REEXCO2	REEXCC R27 RTGR RIR AII REUBT RTGR RIR AII REUBT	2 4 2 3 0 11 23 5 0 0 0 31 4	.316 0. .320 0. .996 0. .878 0. .878 0. .877 0. .772 0. .104 0. .278 0.	116 REUE 364 190 608 157 000 REE 680 949 000 118 R29	ST 1	REEXCO R29 RTGR RTGR RIR All REUBT RIR RIR All REUBT	2 9.39 1.73 8.89 3.90 22.63 38.39 1.02 2.72 0.85 45.69 3.17	P 0.052 7 0.784 9 0.064 1 0.064 2 0.124 3 0.000 2 0.906 5 0.605 5 0.605 5 0.931 3 0.000 2 0.530	REUBT	REEXCO2 R30 RTGR RIR AII 2 REUBT R30 RTGR RIR AII REUBT	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 0.968 51.981 6.439	0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.594 0.915 0.000 0.169	REUBT	REEX R31 RTGF RIR All 22 REUE R31 RTGF RIR All REUE	2 2 2 3 3 1 1 3 1 3 5 5 3 7	9.169 0. 3.050 0. 9.256 0. 0.395 0. 0.435 0. 5.519 0. 0.660 0. 2.570 0. 2.156 0. 6.386 0. 1.897 0.	.0 .5 .0 .0 .0 .0 .0 .0
REUBT	REEXCO R20 RTGR RIR AII 2 REUBT R20 RTGR RIR AII REUBT REEXCO	22 8 4 9 4 25 38 38 0 33 0 0 45 1 1 22 0	1.612 1.869 1.278 1.034 1.034 1.637 1.637 1.637 1.637 1.243 1.839 1.353 1.988 1.058	0.072 F 0.301 0.055 0.402 0.059 0.000 F 0.933 0.000 0.738 F 1.000	REEXCO2	REEXCC R27 RTGR RTGR RIR REUBT RTGR RIR RIR REUBT REEXCC	2 4 2 3 0 11 23 5 0 0 0 31 4 2 0	.316 0. .024 0. .320 0. .996 0. .878 0. .883 0. .577 0. .104 0. .104 0. .060 0. .278 0. .442 0.	116 REUE 364 190 608 157 000 REE¥ 0680 949 000 118 R29 802	ST 1	REEXCO R29 RTGR RIR AII REUBT REUBT REUBT REEXCO	2 9.399 1.73 8.899 22.63 3.390 22.63 3.8390 1.022 2.722 0.855 45.699 3.177 2 0.333	P 0.052 7 0.784 4 0.064 7 0.419 5 0.124 3 0.000 2 0.906 5 0.605 5 0.605 5 0.931 3 0.000 2 0.530 5 0.987	REUBT	REEXCO2 R30 RTGR RIR AII 2 REUBT R30 RTGR RIR AII REUBT REEXCO2	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 0.968 51.981 6.439 3.151	0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.915 0.000 0.169 0.533	REUBT	REEX R31 RTGF RIR AII 22 REUE R31 RTGF RIR AII REUE	2 2 2 3 3 3 4 3 4 3 3 7 4 3 5 5 3 7 4 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	9.169 0. 3.050 0. 9.256 0. 0.395 0. 0.395 0. 0.435 0. 0.5519 0. 0.660 0. 2.570 0. 2.156 0. 6.386 0. 1.897 0. 6.921 0.	.09 .09 .09 .00 .00 .00 .00
REUBT	REEXCO R20 RTGR RIR AII 2 REUBT R20 RTGR RTGR RIR AII REUBT REEXCO RTGR	D2 8 4 9 4 25 38 0 33 0 45 1 D2 0 22 0	1.612 1.869 1.278 1.034 1.034 1.034 1.034 1.166 1.243 1.839 1.353 1.988 1.058 1.058	0.072 F 0.301 0.055 0.402 0.059 0.000 F 0.933 0.000 0.738 F 1.000 0.624	NEUBT NEEDSCO2 127	REEXCC R27 RTGR RTGR RIR REUBT REUBT REEUBT REEXCC RTGR	12 4 23 3 0 11 23 5 0 0 0 31 4 2 0 2	.316 0. .024 0. .320 0. .996 0. .878 0. .878 0. .878 0. .878 0. .878 0. .772 0. .104 0. .278 0. .277 0. .278 0. .27	116 REUR 364 190 608 157 000 REE 062 680 680 680 949 949 000 118 R29 802	ST 1	REEXCO. R29 RTGR RIR RIR REUBT REUBT REUBT REEXCO RTGR	2 9.393 1.73 8.89 3.90 22.63 38.39 1.02 2.72 0.85 5.69 3.177 2 0.33 1.10	P 0.052 7 0.784 4 0.064 7 0.419 5 0.124 3 0.000 2 0.906 5 0.605 5 0.906 6 0.000 2 0.906 5 0.031 2 0.530 5 0.987 5 0.025	REUBT	REEXCO2 R30 RTGR AII 2 REUBT R30 RTGR RIR AII REUBT REEXCO2 RTGR	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 0.968 51.981 6.439 3.151 8.783	0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.594 0.000 0.594 0.000 0.533 0.067	REUBT	REEX R31 RTGF RIR AII 22 REUE R31 RTGF RIR RUE REEX RTGF	2 2 8 8 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	9.169 0. 3.050 0. 9.256 0. 0.3050 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.660 0. 2.570 0. 2.156 0. 1.897 0. 6.921 0. 6.992 0.	.09 54 09 98 20 00 .00 .00 .00 .00 .00 .00 .00 .00
REUBT	REEXCC R20 RTGR RIR AII 2 REUBT REUBT REUBT REUBT REUBT REUBT REUBT REUBT	D2 8 4 9 4 25 38 0 33 0 45 1 D2 0 22 2	1.612 1.869 1.278 1.034 1.034 1.637 1.571 1.166 1.243 1.839 1.353 1.839 1.353 1.839 1.058 1.058 1.058	0.072 F 0.301 0.055 0.402 0.059 0.000 F 0.933 0.000 0.738 F 1.000 0.624 0.631	NEUBT	REEXCC R27 RTGR RTGR RIR REUBT R27 RTGR RIR REEXCC RTGR RIR RIR	12 4 2 3 0 111 23 5 0 0 0 311 4 2 0 2 0 0 2 0 0	.316 0 .024 0 .320 0 .996 0 .996 0 .878 0 .878 0 .577 0 .104 0 .060 0 .278 0 .104 0 .442 0 .104 0	116 REUK 364 190 608 157 000 REE) 000 680 949 949 949 000 118 R29 802 349 791		REEXCO R29 RTGR RIR AII REUBT R29 RTGR RIR REUBT REEXCO RTGR RIR	2 9.399 1.73 8.89 3.90 22.63 38.399 1.02 2.63 38.399 0.85 5.69 0.85 3.17 0.85 3.17 0.85 3.17 0.85 3.17 0.85 3.17 0.85 3.17 0.85 1.02 0.03 1.100 0.030 1.100 0.030 1.100 0.030 1.100 0.030 1.100 0.030 1.100 0.030 1.100 0.030 1.100 0.030 1.100 0.030 1.100 0.030 1.100 0.030 1.100 0.030 1.100 0.030 1.100 0.030 1.100 0.030	P 0.052 7 0.784 4 0.064 7 0.419 5 0.124 7 0.419 2 0.906 5 0.605 5 0.605 5 0.901 2 0.906 5 0.605 5 0.9311 3 0.000 5 0.9387 5 0.9877 5 0.9025 5 0.912	REUBT	REEXCO2 R30 RTGR RIR AII REUBT R30 RTGR RIR RUBT REUDT REEXCO2 RTGR RIR	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 9.968 51.981 6.439 3.151 8.783 1.022	0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.594 0.594 0.593 0.000 0.533 0.067 0.906	REUBT	REEX R31 RTGF RIR AII 22 REVE R31 R31 R31 R31 R31 R1R R0E R0E R1R R1R R1R	2 2 2 2 3 3 1 1 3 3 1 1 3 5 5 5 5 5 7 7 0 2 2 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	9.169 0. 3.050 0. 9.256 0. 0.3050 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 2.570 0. 2.570 0. 2.570 0. 2.570 0. 4.3897 0. 6.921 0. 6.992 0. 5.677 0.	.00 .5 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
REUBT REEXCC	REEXCCC R20 RTGR RIR 2 REUBT R20 RTGR RIR AII REUBT REUBT REUBT REUBT REUBT REUBT REUBT	D2 8 4 9 9 4 25 38 38 0 33 0 45 1 102 0 22 0 22 6	k.612 k.869 k.278 k.034 k.034 k.571 k.571 k.571 k.243 k.243 k.339 k.353 k.355	0.072 F 0.301 0.055 0.402 0.099 0.000 F 0.997 0.518 0.993 0.000 0.738 F 1.000 0.624 0.631 0.983	NEUBT	REEXCC R27 RTGR RIR RIR RIR REUBT REUBT REEXCC RTGR RIR RIR RIR RIR	12 4 2 3 0 11 23 5 0 0 0 31 4 2 0 2 2 0 7 7	.316 0 .024 0 .320 0 .996 0 .878 0 .878 0 .878 0 .772 0 .104 0 .060 0 .278 0 .104 0 .278 0 .442 0 .104 0 .278 0 .442 0 .104 0 .605 0	1116 REUK 364 190 608 157 000 REE> 000 680 949 949 000 118 R29 802 349 349 791		REEXCO R29 RTGR RIR AII AII REUBT REUBT REEXCO RTGR RTGR RIR RIR RIR AII	2 9.3999 1.733 8.89 3.90 22.63 38.39 22.63 38.39 1.02 2.722 0.855 5.69 3.17 0.855 1.102 0.988 1.102 0.988 1.102 0.988 1.102 0.988 1.102 0.988 1.102 0.988 1.102 0.988 1.102 0.988 1.102 0.988 1.102 0.988 1.102 0.988 1.102 0.988 1.102 0.988 1.102 0.988 1.102 0.988 1.102 0.988 1.1042 1.1042 1.1042 1.104 1.1042 1.104 1.1042 1.1042 1.104 1.	J 0.052 7 0.784 4 0.064 5 0.124 6 0.124 7 0.419 5 0.124 7 0.419 5 0.124 7 0.419 5 0.906 5 0.905 5 0.931 3 0.000 2 0.530 5 0.987 5 0.912 3 0.567	REUBT REEXCC	REEXCO2 R30 RTGR RIR AII 2 REUBT RIR AII 2 REUBT RIR AII REUBT REUBT REUBT REEXCO2 RTGR RIR AII	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 0.968 51.981 6.439 3.151 8.783 1.022 16.599	0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.594 0.915 0.000 0.169 0.533 0.067 0.906 0.412	REUBT REEXCC	REEX R31 RTGF RIR AII 22 REUE R31 R1GF RIR REUE REEX REEX RIGF RIR AII	2002 2 2 2 2 2 3 1 1 2 5 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7	9.169 0. 3.050 0. 9.256 0. 0.3050 0. 0.3050 0. 0.3050 0. 0.4355 0. 0.4355 0. 0.4355 0. 0.5519 0. 2.570 0. 2.5750 0. 2.5760 0. 4.3856 0. 1.897 0. 6.921 0. 6.922 0. 5.5677 0. 5.5677 0. 9.3333 0.	.00 .5 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
REUBT REEXCO	REEXCCC R20 RTGR RIR AII 2 REUBT REUBT REUBT REUBT REUBT	D2 8 4 9 4 25 38 0 38 0 38 0 45 1 D2 0 22 2 6 8	1.612 1.869 1.278 1.034 1.278 1.034 1.637 1.166 1.243 1.353	0.072 F 0.301 0.055 0.402 0.059 0.000 F 0.997 0.518 0.933 0.000 0.738 F 1.000 0.624 0.631 0.933 0.009 F	KEUBT REEKCO2 127	REEXCC R27 RTGR RIR AII REUBT R27 RTGR RIR REUBT REUBT REUBT	2 4 2 3 0 111 23 5 0 0 0 311 4 2 0 2 2 0 0 7 7 5	.316 0. .024 0. .320 0. .320 0. .996 0. .878 0. .878 0. .772 0. .104 0. .060 0. .278 0. .104 0. .104 0. .104 0. .104 0. .104 0. .104 0. .104 0. .104 0. .104 0. .104 0. .104 0. .104 0. .104 0. .104 0. .104 0. .104 0. .104 0. .104 0. .104 0. .105 0.	1116 REUK 364 190 608 157 000 REE) 062 680 949 949 949 949 949 949 949 949 949 94		REEXCO R29 RTGR RIR AII REUBT REUBT REUBT REEUBT REEUBT	2 9.39992 9.39992 9.39992 9.39992 9.39992 9.3992 9.3992 9.22633 9.390 9.22633 9.390 9.22633 9.392 9.2722 0.352 9.2722 0.352 9.2722 0.332 9.1712 0.332 9.1712 0.332 9.1712 9.332 9.2722 9.332 9.2722 9.332 9.2722 9.332 9.2722 9.27	9 0.052 7 0.784 0.064 4 0.064 1 5 0.124 1 6 0.124 1 7 0.419 1 5 0.124 1 6 0.000 1 7 0.419 1 5 0.124 1 6 0.000 1 7 0.419 1 8 0.000 1 9 0.053 0.087 5 0.912 1 7 0.057 1 8 0.057 1	REUBT REEXCC	REEXCO2 R30 RTGR RIR AII 2 REUBT R30 RTGR RIR AII REUBT REDST	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 0.968 51.981 6.439 3.151 8.783 1.022 16.599 6.135	0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.994 0.915 0.000 0.169 0.533 0.067 0.906 0.412 0.189	REUBT	REEX R31 RTGF RIR AII 22 REUE R31 R31 R1GF R31 R1GF R1R R1R R1R R1R R1R R1R R1R R1R R1R R1	CCO2 2 2 2 3 1 1 3 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5	9.169 0. 3.050 0. 9.256 0. 0.395 0. 0.395 0. 0.395 0. 0.395 0. 0.395 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 2.570 0. 2.570 0. 1.897 0. 6.921 0. 5.677 0. 9.333 0. 9.774 0.	.00 5 .00 .01 .01 .01 .01 .01 .01 .01 .01 .01
REUBT REEXCC	REEXCCC R20 RTGR RIR AII 2 REUBT R20 RTGR RIR AII REUBT REUBT REUBT REUBT REUBT	D2 8 4 9 4 25 388 0 33 0 455 1 102 0 22 0 22 0 23 6 88 8 202 8	k.612 k.869 k.278 k.034 k.637 k.571 k.571 k.243 k.353 k.353 k.353 k.353 k.614 k.614 k.697 k.111	0.072 F 0.301 0.055 0.000 F 0.097 0.518 0.093 0.093 0.000 0.738 F 1.000 0.631 0.063 0.069 F 0.088	IEEEXCO2	REEXCCC R27 RTGR RIR AII REUBT R27 RTGR R1R REUBT REEXCCC RTGR RIR REUBT REEXCCC	12 4 2 3 0 111 23 5 0 0 311 3 4 12 12 0 2 0 7 5 52 3	.316 0. .024 0. .0296 0. .320 0. .996 0. .878 0. .878 0. .878 0. .878 0. .677 0. .600 0. .772 0. .104 0. .060 0. .278 0. .442 0. .104 0. .442 0. .4470 0. .854 0. .970 0. .426 0.	1116 REUR 364		REEXCO R29 RTGR RTGR RIR AII REUBT REUBT REEUBT REEXCO RTGR RIR RIR REUBT REEUBT	2 9.399 1.73 8.89 3.90 22.63 38.39 1.022 2.722 0.855 3.177 2 0.333 3.177 2 0.333 1.102 2 0.333 3.17 2 0.333 3.17 2 0.333 3.17 2 0.333 3.173 3.173 3.102 3.173 3.102 3.173 3.102 3.173 3.173 3.173 3.172 3	9 0.052 7 0.784 0.064 4 0.064 1 5 0.124 1 6 0.124 1 7 0.419 1 1 5 0.124 1 1 6 0.124 1 0.000 2 0.906 1 0.605 5 0.931 1 1 3 0.000 2 0.530 5 0.987 0.025 0.912 3 0.0567 3 0.070 3 0.070 3 0.070	REUBT REEXCC	REEXCO2 R30 RTGR RIR AII 2 REUBT REEXCO2 RTGR RIR AII REUBT REEXCO2	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 0.968 51.981 6.439 3.151 8.783 1.022 6.135 10.246	0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.594 0.594 0.594 0.594 0.690 0.533 0.067 0.906 0.412 0.189 0.037	REUBT REEXCC	REEX R31 RTGF RIR AII 22 REUE R31 R31 R31 R31 R31 R4F R31 R1F R1F R1F R1F R1F R1F R1F R1F R1F R1	CCO2 2 2 BT 3 1 2 BT 3 1 2 CCO2 3 1 1 1 1 1 1 1 1 1 1 1 1 1	9.169 0. 3.050 0. 9.256 0. 0.395 0. 0.395 0. 0.395 0. 0.395 0. 0.395 0. 0.395 0. 0.435 0. 0.435 0. 0.519 0. 0.660 0. 2.570 0. 6.386 0. 1.897 0. 6.921 0. 6.922 0. 5.677 0. 9.333 0. 9.774 0. 9.774 0.	.00 .5 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
REUBT REEXCC	REEXCC R20 RTGR RIR AII 2 REUBT R20 RTGR RIR AII REUBT REUBT REUBT REUBT REUBT REUBT REUBT REUBT REUBT REUBT	D2 8 4 9 4 25 38 0 33 0 45 1 D2 0 22 2 6 8 D2 8 D2 8	1.612 1.869 1.278 1.034 1.034 1.034 1.034 1.034 1.243 1.243 1.243 1.243 1.243 1.243 1.254 1.579 1.436 1.44 1.579 1.436	0.072 F 0.301 0.055 0.000 F 0.000 F 0.000 F 0.031 0.033 0.000 0.631 0.088 0.088 0.088	IEEEXCO2	REEXCCC R27 RTGR RIR AII REUBT R27 RTGR RIR REUBT REEXCCC R27	12 4 2 3 0 11 23 5 0 0 31 3 12 0 12 0 12 0 12 0 12 0 12 0 12 3 12 3 4 4	.316 0.024 0.024 .320 0 0.996 0.996 .878 0 0.878 0.024 .883 0 0.024 0.010 .878 0 0.772 0.010 .104 0 0.060 0 .104 0 0.104 0 .104 0 0.104 0 .442 0 0.442 0 .4470 0 0.4470 0 .4470 0 0.4470 0 .4426 0 0.808 0	1116 REUR 364		REEXCO R29 RTGR RTIR All REUBT R29 RTGR RTGR RIR All REUBT REUBT REQUET RELEXCO R29	2 9.399 1.73 8.89 3.90 22.63 38.39 1.022 2722 0.855 45.699 3.177 2 0.33 11.100 0.98 14.422 8.655 2 8.255 4.200	0.052 7 0.784 1 0.064 2 0.784 1 0.064 2 0.124 3 0.000 2 0.906 5 0.931 3 0.000 2 0.530 5 0.987 5 0.912 3 0.0567 5 0.912 3 0.070 5 0.083 3 0.070	REUBT REEXCC	REEXCO2 R30 RTGR RIR AII 2 REUBT R30 RTGR RIR AII REEXCO2 R1G RIR RIR AII REUBT REEXCO2 R30	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 8.0.968 51.981 6.439 3.151 8.783 1.022 16.599 6.135 10.246 13.106	0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.915 0.000 0.533 0.067 0.906 0.412 0.339 0.0412 0.037	REUBT REEXCC	REEX R31 RTGF RIR AII D2 REUE R31 R31 REUE REEX RIR AII REUE REEX REEX R31	CCO2 2 2 2 3 1 1 3 1 1 3 1 1 3 5 5 5 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1	9.169 0. 3.050 0. 9.256 0. 0.395 0. 0.395 0. 0.395 0. 0.395 0. 0.395 0. 0.435 0. <td>00 5 00 9 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	00 5 00 9 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
REUBT REEXCO	REEXCC R20 RTGR RIR AII 2 REUBT R20 RTGR RIR REUBT REUBT REUBT REUBT REUBT REUBT REUBT REUBT REUBT REUBT	D2 8 4 9 9 4 255 38 0 3 0 3 0 45 1 1 D2 0 2 2 6 8 2D2 8 D2 8 D2 1	1.111 1.254 1.278 1.034 1.034 1.034 1.034 1.034 1.034 1.034 1.034 1.034 1.034 1.058	0.072 F 0.301 0.055 0.005 0.000 F 0.000 F 0.331 0.033 0.033 0.033 0.033 0.033 0.033 0.033 0.069 F 0.088 0.635 0.780	NELUBT	REEXCC R27 RTGR RIR AII REUBT REUBT REUBT REEVCC R1R REUBT REEVCC R27 RIR	12 4 2 3 0 11 23 5 0 0 0 31 3 1 2 0 2 0 0 7 7 5 5 2 3 4 4 0	.316 0.024 0.024 .320 0 0.996 0.996 .878 0 0.878 0 .883 0 0.024 0.010 .772 0 0.010 0.010 .772 0 0.010 0.010 .060 0 0.010 0.010 .442 0 0.010 0.010 .442 0 0.010 0.010 .426 0 0.970 0 .426 0 0.426 0 .426 0 0.446 0	1116 REUE 364 190 608 157 000 REE> 000 680 949 000 118 R29 000 001 118 R29 349 001 791 180 000 180 791 180 090 091 791		REEXCO R29 RTGR RIR AII AII REUBT R29 RTGR RTGR RIR REUBT REEXCO R29 RIR RIR	2 9.3999 1.73 8.89 3.900 22.63 3.390 22.63 3.390 1.022 2.722 0.855 3.177 3.177 2 0.333 3.17 1.100 0.988 14.422 2 8.255 2 8.255	9 0.052 7 0.784 9 0.064 9 0.064 9 0.052 7 0.419 9 0.064 9 0.021 9 0.025 0.0906 0.030 2 0.530 3 0.025 5 0.912 3 0.0567 5 0.912 3 0.0567 5 0.025 5 0.912 3 0.0567 5 0.912 4 0.0579 5 0.0379 9 0.379	REUBT REEXCC	REEXCO2 R30 RTGR RIR AII 2 REUBT R30 RTGR RIR REUBT REEXCO2 R30 RIR REEXCO2 R30 RIR	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 0.968 51.981 6.439 3.151 8.783 1.022 16.599 9.6.135 10.246 13.106 2.033	0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.594 0.915 0.000 0.533 0.007 0.906 0.412 0.189 0.037 0.011 0.730	REUBT REEXCC	REEX R31 RTGF RIR AII 22 REUE R31 RTGF RIR AII REUE REEX RTGF RIR AII REUE REEX R31 REEX R31 RIR	CCO2 2 2 3 3 4 5 5 5 5 5 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1	9.169 0. 3.050 0. 9.256 0. 0.395 0. 0.395 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 1.897 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0.	.0 .5 .0 .9 .2 .0 .0 .0 .0 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1
REUBT REEXCO REEXCO	REEXCC R20 RTGR RIR AII 2 REUBT R20 RTGR RIR AII REUBT	22 8 4 9 9 4 255 38 0 3 0 3 0 45 1 1 02 0 22 6 8 8 02 8 03 22 11 22 12 1 13 22	1.612 1.278 1.278 1.034 1.637 1.166 1.243 1.353 1.383 1.383 1.383 1.383 1.353 1.353 1.353 1.554 1.554 1.554 1.554 1.554	0.072 F 0.301 0.055 0.402 0.099 0.000 F 0.933 0.000 0.738 F 0.031 0.031 0.063 0.083 0.069 F 0.088 0.635 0.780	IELUBT	REEXCCC R27 RTGR RTGR RIIR AII REUBT R27 RTGR RIR AII REUBT REUBT REUBT REUBT REUBT REUBT REZ77 RIR AII RIR AII REUBT REZ7 RIR	12 4 2 3 0 11 23 5 0 0 31 4 12 0 2 0 7 5 12 3 4 0 12 3 4 0 17	.316 0.024 .024 0 .320 0 .320 0 .320 0 .320 0 .320 0 .320 0 .320 0 .883 0 .883 0 .772 0 .104 0 .060 0 .278 0 .442 0 .442 0 .442 0 .854 0 .970 0 .426 0 .808 0 .223 0	1116 REUE 364 190 608 157 000 REE) 062 680 680 949 050 791 349 791 18 802 791 18 802 791 791 791 791 791 791	ICCO2 I	REEXCO R29 RTGR RIR AII REUBT R29 RTGR RTGR RIR AII REUBT REUBT REUBT REUBT REQUET REQUET REUBT REUBT REUBT REUBT REUBT REQUET REQUET	2 9.39992 9.39992 9.39992 9.39992 9.39992 9.3992 9.3992 9.22633 9.3902 9.22633 9.3902 9.2702 9.3859 9.2702 9.333 10.022 9.333 10.022 9.333 10.022 9.333 10.022 9.333 10.022 9.252 9.	9 0.052 7 0.784 9 0.064 9 0.064 9 0.052 7 0.419 9 0.064 9 0.052 9 0.052 9 0.052 9 0.050 9 0.906 9 0.000 9 0.000 9 0.000 9 0.000 9 0.000 9 0.000 9 0.000 9 0.000 9 0.000 9 0.000 9 0.000 9 0.000 9 0.000 9 0.000 9 0.000 9 0.000 9 0.000	REUBT REEXCCC R30 RTGR	REEXCO2 R30 RTGR RIR AII 2 REUBT R30 RTGR RIR AII REUBT REEXCO2 R30 RIR AII REEXCO2 R30 RIR AII	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 9.968 51.981 6.439 3.151 8.783 3.151 10.246 13.106 2.033 33.793	0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.594 0.000 0.196 0.000 0.000 0.412 0.189 0.037 0.037 0.037 0.730 0.006	REUBT REEXCC R31 RTGR	REEX R31 RTGF RIR AII 22 REUE REUE R1R RIR AII REUE REEX R1R AII REUE REEX R31 RIR AII	CCO2 2 2 3 3 1 1 1 3 5 5 5 5 5 5 5 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1	9.169 0. 3.050 0. 9.256 0. 0.395 0. 0.437 0. <td>.0 .5 .0 .9 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0</td>	.0 .5 .0 .9 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0
REUBT REEXCC R20	REEXCC R20 RTGR RIR AII 2 REUBT REUBT REEVBT REEXCC RTGR RIR AII REUBT REEXCC R1R REUBT	D2 8 4 9 9 4 25 38 38 0 33 0 45 1 102 0 22 0 6 8 202 8 202 8 202 8 202 5	1.111 1.554 1.254 1.243 1.166 1.243 1.353 1.353 1.614 1.579 1.436 1.554 1.554 1.554 1.554	0.072 F 0.301 0.055 0.402 0.059 0.000 F 0.933 0.000 0.738 F 1.000 0.624 0.631 0.069 F 0.088 0.635 0.780 0.124	NEEXCO2	REEXCCC R27 RTGR RTGR RIR REUBT R27 RTGR RTGR REEXCCC RTGR RIR REUBT REEXCCC R1R REUBT REEXCCC R27 RIR REUBT	12 4 12 3 0 11 23 5 0 0 31 4 12 0 22 0 23 4 12 3 4 12 12 3 4 0 17 3	.316 0.024 .024 0 .320 0 .996 0 .878 0 .878 0 .577 0 .772 0 .774 0 .772 0 .772 0 .774 0 .775 0 .772 0 .772 0 .774 0 .774 0 .774 0 .774 0 .774 0 .774 0 .774 0 .775 0 .4442 0 .970 0 .426 0 .426 0 .426 0 .426 0 .426 0 .426 0 .426 0	1116 REUE 364 190 608 157 0000 REE) 062 680 680 949 949 051 802 802 802 802 802 802 802 802 802 802		REEXCO. R29 RTGR RIR All REUBT REQ RTGR RIR All REUBT REQ RTGR RIR All REUBT REEXCO REEXCO REQ REVENT REEXCO REUBT REQ RIR RIR REL RIR REUBT	2 9.3999 1.73 8.89 3.900 22.63 3.839 22.63 3.839 1.022 2.722 0.855 45.690 3.177 1.100 0.988 1.1100 0.988 1.1100 0.988 1.1100 0.988 1.1100 1.100 0.988 1.1100 1.	9 0.052 7 0.784 4 0.064 5 0.124 6 0.124 7 0.124 7 0.124 2 0.124 2 0.124 2 0.124 2 0.124 2 0.050 5 0.025 5 0.031 3 0.000 5 0.025 5 0.012 3 0.0567 5 0.025 5 0.070 5 0.083 9 0.379 5 0.024	REUBT REEXCCC R30 RTGR	REEXCO2 2 R30 RTGR RIR AII 2 REUBT R30 RTGR RIR AII REUBT REEXCO2 RTGR RIR AII REUBT REEXCO2	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 9.968 51.981 6.439 3.151 8.783 3.151 8.783 1.022 16.599 6.135 10.246 13.106 2.033 33.793 4.684	0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.594 0.594 0.593 0.0169 0.533 0.067 0.169 0.333 0.067 0.189 0.189 0.371 0.189 0.037 0.011 0.730 0.006	REUBT REEXCC	REEX R31 RTGF RIR AII 22 REUE R31 R31 R1GF R31 REUE REEX R1GF R1R AII REUE R31 R1R AII R1R R1 R1 R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	CCO2 R 2 2 3 1 1 1 1 2 3 1 1 2 3 1 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1	9.169 0. 9.256 0. 0.395 0. 0.395 0. 0.395 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 2.570 0. 2.156 0. 0.435 0. 4.92 0. 5.677 0. 9.333 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.787 0.	00 5 9 9 10 0 10 10 10 10 10 10 10 10 10 10 10 1
REUBT REEXCC R20	REEXCC R20 RTGR RIR AII 2 REUBT REUBT REUBT REUBT REEXCC RTGR RIR AII REUBT REEXCC RTGR RIR AII REUBT REEXCC	D2 8 4 9 9 4 25 38 0 3 0 3 0 45 1 1 02 2 6 8 202 8 202 8 202 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 6 7 7 7 7 7	1.612 1.869 1.278 1.034 1.637 1.571 1.166 1.243 1.839 1.614 1.579 1.645 1.579 1.646 1.554 1.759 1.646 1.367 1.429	0.072 F 0.301 0.055 0.005 0.009 0.059 0.000 0.937 0.033 0.033 0.000 0.738 F 0.0393 0.000 0.738 F 0.031 0.000 0.738 F 0.0393 0.000 0.738 F 0.0383 0.009 0.0431 0.0493 0.0593 0.0593 0.0594 0.0593 0.0595 0.0593 0.0597 F 0.0598 0.0595 0.124 0.252 0.980 0.980	NEEXCO2	REEXCCC R27 R27 RTGR RIR All REUBT R27 RTGR RIR All REUBT RELEDT REEXCC RTGR RIR REUBT REEXCC R11 REEUBT REEXCC R27 R1R All REEXCC R27 R18 All R27 R18 R19 R20 R21 R21 R22 R18 R19 R10 R27 R18 R19 R19 R19 R10 R10 R11 R12 R13 R14 R15	12 4 12 3 0 111 233 5 0 0 311 23 35 0 0 0 311 23 4 2 0 2 0 2 0 7 5 3 4 0 17 3 12 0	.316 0.024 .024 0 .320 0 .996 0 .996 0 .996 0 .996 0 .996 0 .996 0 .996 0 .996 0 .878 0 .772 0 .104 0 .060 0 .442 0 .442 0 .442 0 .442 0 .442 0 .442 0 .442 0 .442 0 .442 0 .426 0 .808 0 .426 0 .426 0 .426 0 .426 0 .426 0 .426 0 .426 0 .442 0 <td>1116 REUR 1100 1008 1000 1</td> <td></td> <td>REEXCO R29 RTGR RIR AII REUBT R29 RTGR RTGR RIR REUBT REEXCO R10 REUBT REEUBT REEUBT REEUBT</td> <td>2 9.399 1.773 8.89 3.90 22.63 38.39 1.02 2.722 0.855 45.69 3.177 1.02 2.722 0.855 45.69 45.69 4.422 1.100 0.988 4.420 1.800 2.404 5.400 2.404 5.400 2.404 5.400 2.404 5.400 2.404 5.400 2.404 5.400 2.404 5.400 2.404 5.4000 5.4000 5.4000 5.4000 5.4000 5.4000 5.400</td> <td>9 0.052 7 0.784 4 0.064 5 0.124 6 0.124 7 0.1419 5 0.124 8 0.000 5 0.124 8 0.000 5 0.055 5 0.931 3 0.000 5 0.037 5 0.072 5 0.083 9 0.379 5 0.088 6 0.070 7 0.2488</td> <td>REUBT REEXCCC R30 RTGR</td> <td>REEXCO2 2 R30 RTGR RIR AII 2 REUBT R30 RTGR RIR AII REUBT REEXCO2 RTGR RIR AII REUBT REEXCO2</td> <td>9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 0.968 51.981 6.439 3.151 8.783 1.022 6.135 10.246 13.106 2.033 33.793 4.684 0.414</td> <td>0.049 0.691 0.138 0.377 0.118 0.000 0.118 0.915 0.915 0.915 0.915 0.000 0.169 0.169 0.037 0.067 0.189 0.037 0.037 0.037 0.031 0.321 0.321</td> <td>REUBT REEXCC R31 RTGR</td> <td>REEX R31 RTGF RIR AII 22 REUE R31 RTGF R1R AII REUE REEX R31 RIR AII REUE REEX</td> <td>CCO2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td> <td>9.169 0. 9.256 0. 0.395 0. 0.395 0. 0.395 0. 0.435 0. 0.435 0. 0.519 0. 0.660 0. 2.570 0. 2.156 0. 2.157 0. 2.570 0. 2.570 0. 2.570 0. 6.921 0. 6.922 0. 5.517 0. 9.333 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.786 0. 9.649 0. 2.035 0. 9.775 0.</td> <td>000 154 100 100 100 100 100 100 100 10</td>	1116 REUR 1100 1008 1000 1		REEXCO R29 RTGR RIR AII REUBT R29 RTGR RTGR RIR REUBT REEXCO R10 REUBT REEUBT REEUBT REEUBT	2 9.399 1.773 8.89 3.90 22.63 38.39 1.02 2.722 0.855 45.69 3.177 1.02 2.722 0.855 45.69 45.69 4.422 1.100 0.988 4.420 1.800 2.404 5.400 2.404 5.400 2.404 5.400 2.404 5.400 2.404 5.400 2.404 5.400 2.404 5.400 2.404 5.4000 5.4000 5.4000 5.4000 5.4000 5.4000 5.400	9 0.052 7 0.784 4 0.064 5 0.124 6 0.124 7 0.1419 5 0.124 8 0.000 5 0.124 8 0.000 5 0.055 5 0.931 3 0.000 5 0.037 5 0.072 5 0.083 9 0.379 5 0.088 6 0.070 7 0.2488	REUBT REEXCCC R30 RTGR	REEXCO2 2 R30 RTGR RIR AII 2 REUBT R30 RTGR RIR AII REUBT REEXCO2 RTGR RIR AII REUBT REEXCO2	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 0.968 51.981 6.439 3.151 8.783 1.022 6.135 10.246 13.106 2.033 33.793 4.684 0.414	0.049 0.691 0.138 0.377 0.118 0.000 0.118 0.915 0.915 0.915 0.915 0.000 0.169 0.169 0.037 0.067 0.189 0.037 0.037 0.037 0.031 0.321 0.321	REUBT REEXCC R31 RTGR	REEX R31 RTGF RIR AII 22 REUE R31 RTGF R1R AII REUE REEX R31 RIR AII REUE REEX	CCO2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9.169 0. 9.256 0. 0.395 0. 0.395 0. 0.395 0. 0.435 0. 0.435 0. 0.519 0. 0.660 0. 2.570 0. 2.156 0. 2.157 0. 2.570 0. 2.570 0. 2.570 0. 6.921 0. 6.922 0. 5.517 0. 9.333 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.786 0. 9.649 0. 2.035 0. 9.775 0.	000 154 100 100 100 100 100 100 100 10
REUBT	REEXCC R20 RTGR RIR AII 2 REUBT REUBT REEVBT REEXCC RTGR RIR AII REUBT REEXCC R1R REUBT	D2 8 4 9 9 4 25 38 0 3 0 3 0 45 1 1 02 2 6 8 202 8 202 8 202 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 6 7 7 7 7 7	1.111 1.554 1.254 1.243 1.166 1.243 1.353 1.353 1.614 1.579 1.436 1.554 1.554 1.554 1.554	0.072 F 0.301 0.055 0.005 0.009 0.059 0.000 0.937 0.033 0.033 0.000 0.738 F 0.0393 0.000 0.738 F 0.031 0.000 0.738 F 0.0393 0.000 0.738 F 0.0383 0.009 0.0431 0.0493 0.0593 0.0593 0.0594 0.0593 0.0595 0.0593 0.0597 F 0.0598 0.0595 0.124 0.252 0.980 0.980	NEEXCO2	REEXCCC R27 RTGR RTGR RIR REUBT R27 RTGR RTGR REEXCCC RTGR RIR REUBT REEXCCC R1R REUBT REEXCCC R27 RIR REUBT	12 4 12 3 0 111 233 5 0 0 311 23 35 0 0 0 311 23 4 2 0 2 0 2 0 7 5 3 4 0 17 3 12 0	.316 0.024 .024 0 .320 0 .996 0 .878 0 .878 0 .577 0 .772 0 .774 0 .772 0 .772 0 .774 0 .775 0 .772 0 .772 0 .774 0 .774 0 .774 0 .774 0 .774 0 .774 0 .774 0 .775 0 .4442 0 .970 0 .426 0 .426 0 .426 0 .426 0 .426 0 .426 0 .426 0	1116 REUR 1100 1008 1009 1000 1		REEXCO R29 RTGR RIR All REUBT REQ RTGR RIR All REUBT REUBT REVCO RTGR RIR REUBT REEXCO REUBT REEXCO REQ REUBT REQ RIR All REUBT	2 9.399 1.773 8.89 3.90 22.63 38.39 1.02 2.722 0.855 45.69 3.177 1.02 2.722 0.855 45.69 45.69 4.422 1.100 0.988 4.420 1.800 2.404 5.400 2.404 5.400 2.404 5.400 2.404 5.400 2.404 5.400 2.404 5.400 2.404 5.400 2.404 5.4000 5.4000 5.4000 5.4000 5.4000 5.4000 5.400	9 0.052 7 0.784 4 0.064 5 0.124 6 0.124 7 0.124 7 0.124 2 0.124 2 0.124 2 0.124 2 0.124 2 0.050 5 0.025 5 0.031 3 0.000 5 0.025 5 0.012 3 0.0567 5 0.025 5 0.070 5 0.083 9 0.379 5 0.024	REUBT REEXCCC R30 RTGR	REEXCO2 2 R30 RTGR RIR AII 2 REUBT R30 RTGR RIR AII REUBT REEXCO2 RTGR RIR AII REUBT REEXCO2	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 9.968 51.981 6.439 3.151 8.783 3.151 8.783 1.022 16.599 6.135 10.246 13.106 2.033 33.793 4.684	0.049 0.691 0.138 0.377 0.118 0.000 0.118 0.915 0.915 0.915 0.915 0.000 0.169 0.169 0.037 0.067 0.189 0.037 0.037 0.037 0.031 0.321 0.321	REUBT REEXCC R31 RTGR	REEX R31 RTGF RIR AII 22 REUE R31 R31 R1GF R31 REUE REEX R1GF R1R AII REUE R31 R1R AII R1R R1 R1 R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	CCO2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9.169 0. 9.256 0. 0.395 0. 0.395 0. 0.395 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 0.435 0. 2.570 0. 2.156 0. 0.435 0. 4.92 0. 5.677 0. 9.333 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.787 0.	05 54 05 98 20 00 09 63 70 00 75 14 13 22 25 04 00 00 77 14 13 22 25 04 00 00 77 14 13 22 25 04 00 00 77 14 14 13 22 25 00 00 00 77 14 14 14 14 14 14 14 14 14 14 14 14 14
REUBT REEXCC R20	REEXCC R20 RTGR RIR AII 2 REUBT REUBT REUBT REUBT REEXCC RTGR RIR AII REUBT REEXCC RTGR RIR AII REUBT REEXCC	D2 8 4 9 9 4 255 38 0 3 0 3 0 45 1 1 D2 0 22 2 6 8 202 8 21 1 22 2 10 2 10 2 10 2 10 2 10 2 11 2 12 2 13 3 14 2 15 3 15 3 10 3 11 3 12 3 13 3 14 3 15 3 16 3 17 3 18 3 17 3	1.612 1.869 1.278 1.034 1.637 1.571 1.166 1.243 1.839 1.614 1.579 1.645 1.579 1.646 1.554 1.759 1.646 1.367 1.429	0.072 F 0.301 0.055 0.005 0.002 0.059 0.000 0.031 F 0.033 0.000 0.738 F 0.0393 0.000 0.738 F 0.033 0.000 0.624 0.631 0.983 0.069 0.069 F 0.035 0.730 0.124 0.252 0.980 0.984	IEEEXCO2	REEXCCC R27 R27 RTGR RIR All REUBT R27 RTGR RIR All REUBT RELEDT REEXCC RTGR RIR REUBT REEXCC R11 REEUBT REEXCC R27 R1R All REEXCC R27 R18 All R27 R18 R19 R20 R21 R21 R22 R18 R19 R10 R27 R18 R19 R19 R19 R10 R10 R11 R12 R13 R14 R15	12 4 12 3 0 111 23 5 0 0 31 4 12 0 22 0 7 5 52 3 4 0 17 3 12 0 12 17 3 12 12 0	.316 0.024 .024 0 .320 0 .996 0 .996 0 .996 0 .996 0 .996 0 .996 0 .996 0 .996 0 .878 0 .772 0 .104 0 .060 0 .442 0 .442 0 .442 0 .442 0 .442 0 .442 0 .442 0 .442 0 .442 0 .426 0 .808 0 .426 0 .426 0 .426 0 .426 0 .426 0 .426 0 .426 0 .442 0 <td>1116 REUE 1100 1000 REED 1000 R</td> <td></td> <td>REEXCO R29 RTGR RIR AII REUBT R29 RTGR RTGR RIR REUBT REEXCO R10 REUBT REEUBT REEUBT REEUBT</td> <td>2 9.399 1.773 8.89 3.900 22.630 38.390 1.022 2.722 0.855 45.690 1.1100 0.988 14.422 8.655 2 8.255 4.200 1.800 24.044 5.400 2 0.499 2 4.669</td> <td>9 0.052 7 0.784 4 0.064 5 0.124 6 0.124 7 0.1419 5 0.124 8 0.000 5 0.124 8 0.000 5 0.055 5 0.931 3 0.000 5 0.037 5 0.072 5 0.083 9 0.379 5 0.088 6 0.070 7 0.2488</td> <td>REUBT REEXCCC R30 RTGR</td> <td>REEXCO2 2 R30 RTGR RIR AII 2 REUBT R30 RTGR RIR AII REUBT REEXCO2 RTGR RIR AII REUBT REEXCO2</td> <td>9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 0.968 51.981 6.439 3.151 8.783 1.022 6.135 10.246 13.106 2.033 33.793 4.684 0.414</td> <td>0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.915 0.000 0.391 0.067 0.067 0.067 0.067 0.011 0.037 0.011 0.730 0.006 0.321 0.321 0.321</td> <td>REUBT REEXCC R31 RTGR</td> <td>REEX R31 RTGF RIR AII 22 REUE R31 RTGF R1R AII REUE REEX R31 RIR AII REUE REEX</td> <td>CCO2 R 2 BT 3 1 1 1 1 2 ST 5 5 5 5 7 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>9.169 0. 9.256 0. 0.395 0. 0.395 0. 0.395 0. 0.435 0. 0.435 0. 0.519 0. 0.660 0. 2.570 0. 2.156 0. 2.157 0. 2.570 0. 2.570 0. 2.570 0. 6.921 0. 6.922 0. 5.517 0. 9.333 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.786 0. 9.649 0. 2.035 0. 9.775 0.</td> <td>000 15 100 19 100 100 100 100 100 100</td>	1116 REUE 1100 1000 REED 1000 R		REEXCO R29 RTGR RIR AII REUBT R29 RTGR RTGR RIR REUBT REEXCO R10 REUBT REEUBT REEUBT REEUBT	2 9.399 1.773 8.89 3.900 22.630 38.390 1.022 2.722 0.855 45.690 1.1100 0.988 14.422 8.655 2 8.255 4.200 1.800 24.044 5.400 2 0.499 2 4.669	9 0.052 7 0.784 4 0.064 5 0.124 6 0.124 7 0.1419 5 0.124 8 0.000 5 0.124 8 0.000 5 0.055 5 0.931 3 0.000 5 0.037 5 0.072 5 0.083 9 0.379 5 0.088 6 0.070 7 0.2488	REUBT REEXCCC R30 RTGR	REEXCO2 2 R30 RTGR RIR AII 2 REUBT R30 RTGR RIR AII REUBT REEXCO2 RTGR RIR AII REUBT REEXCO2	9.553 2.247 6.958 4.217 22.862 41.104 6.044 2.788 0.968 51.981 6.439 3.151 8.783 1.022 6.135 10.246 13.106 2.033 33.793 4.684 0.414	0.049 0.691 0.138 0.377 0.118 0.000 0.196 0.915 0.000 0.391 0.067 0.067 0.067 0.067 0.011 0.037 0.011 0.730 0.006 0.321 0.321 0.321	REUBT REEXCC R31 RTGR	REEX R31 RTGF RIR AII 22 REUE R31 RTGF R1R AII REUE REEX R31 RIR AII REUE REEX	CCO2 R 2 BT 3 1 1 1 1 2 ST 5 5 5 5 7 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	9.169 0. 9.256 0. 0.395 0. 0.395 0. 0.395 0. 0.435 0. 0.435 0. 0.519 0. 0.660 0. 2.570 0. 2.156 0. 2.157 0. 2.570 0. 2.570 0. 2.570 0. 6.921 0. 6.922 0. 5.517 0. 9.333 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.774 0. 9.786 0. 9.649 0. 2.035 0. 9.775 0.	000 15 100 19 100 100 100 100 100 100

B. Variance Decomposition

In Table 3 we have the results obtained for the variance decomposition considering horizons up to ten weeks. With respect to the all renewables DAX index, the variable which most contributes to the explanation of the variance of the error produced in the prediction of oil is technology, being followed by the index, while it is oil that most explanatory capacity has over carbon allowances followed by the DAX. There is an even higher influence of the technology index in terms of the explanatory capacity of the variance of the error produced in the prediction over the all renewables index, followed by oil, but it is oil that most influences technology. In terms of the interest rate, the impact of the other variables is almost marginal, thus reinforcing the previous results.

Table 3: Variance Decomposition

Cholesk	v Orderij	19: RFUBT			RTGR RIR			ng: RFUBT						ing: RFUBT	RFFXC	D2 R10 R	TGR RIR	Choles	v Order	ing: RFUBT	RFFXCC)2 R12 R	TGR RIR	
	olesky Ordering: REUBT REEXCO2 RDAX RTGR R Variance Decomposition of REUBT:							Decompos						e Decomo			Cholesky Ordering: REUBT REEXCO2 R12 RTGR RIR Variance Decomposition of REUBT:							
Period	RFUBT	REEXCO2	RDAX	RTGR	RIR	Period	RFURT	REEXCO2	R4	RTGR	RIR	Period	RFLIBT	REEXCO2	R10	RTGR	RIR	Period	RFURT	REEXCO2	R12	RTGR	RIR	
1	100.000	0.000	0.000	0.000	0.000	1	100.000	0.000	0.000	0.000	0.000	1	100.000	0.000	0.000	0.000	0.000	1	100.000		0.000	0.000	0.000	
2	93.909	0.020	1.413	4.615	0.042	2	96.393	0.298	2.154	1.150	0.005	2	97.008	0.344	0.961	1.680	0.007	2	95.767	0.228	2.645	1.330	0.030	
3	93.737	0.023	1.472	4.581	0.188	3	95.123	0.314	3.428	1.130	0.005	3	96.394	0.344	1.572	1.664	0.027	3	95.713	0.229	2.641	1.352	0.066	
4	92.689	0.096	1.451	5.577	0.187	4	94.637	0.365	3.397	1.578	0.023	4	95.870	0.379	1.595	2.125	0.081	4	95.165	0.276	2.692	1.801	0.067	
5	87.526	1.959	3.777	5.611	1.126	5	92.727	1.945	3.401	1.558	0.369	5	93.907	1.759	1.884	2.080	0.370	5	93.455	1.652	2.663	1.788	0.443	
6	87.443	2.004	3.772	5.634	1.146	6	92.573	2.080	3.395	1.555	0.397	6	93.832	1771	1.883	2.093	0.420	6	93.404	1.666	2.659	1.786	0.485	
7	87.102	1.999	3.787	5.831	1.281	7	92.505	2.119	3.396	1.575	0.406	7	93.719	1.770	1.965	2.093	0.453	7	93.344	1.665	2.677	1.784	0.530	
8	86.936	2.065	3.789	5.821	1.389	8	92.407	2.146	3.420	1.613	0.414	8	93.577	1.791	2.049	2.121	0.461	8	93.249	1.682	2.719	1.815	0.535	
9	86.943	2.066	3.781	5.811	1.399	9	92.374	2.148	3.417	1.632	0.429	9	93.515	1.789	2.098	2.131	0.467	9	93.221	1.681	2.724	1.825	0.549	
10	86.934	2.070	3.781	5.816	1.399	10	92.357	2.148	3.422	1.631	0.442	10	93.483	1.788	2.112	2.130	0.486	10	93.195	1.681	2.737	1.824	0.563	
١	/ariance	Decompo:	ition of	REEXCO	02:	V	ariance D	lecomposit	tion of P	REEXCO	2:	1	/ariance	Decompo	sition o	f REEXCO)2:	1	ariance	Decompo:	ition of	REEXCO	12:	
Period	REUBT	REEXCO2	RDAX	RTGR	RIR	Period	REUBT	REEXCO2	R4	RTGR	RIR	Period	REUBT	REEXCO2	R10	RTGR	RIR	Period	REUBT	REEXCO2	R12	RTGR	RIR	
1	0.516	99.484	0.000	0.000	0.000	1	0.950	99.050	0.000	0.000	0.000	1	0.730	99.270	0.000	0.000	0.000	1	0.666	99.334	0.000	0.000	0.000	
2	1.262	98.335	0.031	0.001	0.371	2	1.539	97.973	0.155	0.001	0.332	2	1.224	98.391	0.101	0.012	0.272	2	0.834	98.734	0.023	0.012	0.395	
3	7.033	91.947	0.654	0.001	0.365	3	6,703	92.634	0.323	0.017	0.322	3	6.441	93,190	0.095	0.014	0.261	3	5.835	91.929	1.795	0.067	0.375	
4	6.966	88.327	2.974	0.985	0.748	4	6.626	90.742	0.997	1.002	0.633	4	6.307	90.116	2.526	0.437	0.615	4	5.744	89.537	3.055	0.876	0.787	
5	12.207	82.695	3.417	0.925	0.755	5	10.351	86.759	1.153	1.094	0.644	5	10.123	85.267	3.327	0.678	0.605	5	9.331	85.542	3.334	0.984	0.808	
6	12.178	82.223	3.641	1.129	0.828	6	10.345	86.689	1.210	1.102	0.654	6	10.123	85.219	3.359	0.678	0.620	6	9.317	85.314	3.539	0.984	0.846	
7	12.252	81.964	3.730	1.127	0.928	7	10.321	86.437	1.336	1.134	0.772	7	10.104	85.053	3.469	0.714	0.659	7	9.363	85.141	3.562	1.023	0.911	
8	12.278	81.882	3.728	1.147	0.965	8	10.325	86.332	1.379	1.148	0.816	8	10.124	84.981	3.494	0.720	0.681	8	9.383	85.070	3.577	1.032	0.938	
9	12.225	81.753	3.853	1.197	0.971	9	10.324	86.316	1.382	1.155	0.822	9	10.145	84.902	3.541	0.722	0.690	9	9.422	85.023	3.575	1.039	0.941	
10	12.210	81.624	3.847	1.196	1.123	10	10.320	86.289	1.382	1.155	0.853	10	10.145	84.873	3.540	0.722	0.720	10	9.418	84.978	3.573	1.040	0.992	
	Variano	e Decomp	_	of RDAX	:		_	e Decomp	_	of R4:			_	ce Decom	_	n of R10:			_	ce Decom	_	_		
Period		REEXCO2		RTGR	RIR	Period	REUBT	REEXCO2		RTGR	RIR	Period		REEXCO2		RTGR	RIR	Period	REUBT	REEXCO2	R12	RTGR	RIR	
1	0.003	1.558	98.438		0.000	1	0.921		98.877		0.000	1	1.106		97.881		0.000	1	0.542	3,169	96,289	0.000	0.000	
2	4.549		88.731		0.060	2	1.006		98.159		0.061	2	1.148		97.392		0.022	2	2.043	3.437	92.708	1.754	0.057	
3	4.667		85.897		0.128	3	1.123		97.125		0.079	3	3,399		92.666		0.029	3	2.050	3.615	90,909	2,779	0.648	
4	5.668	1,773	82.247	9.965	0.348	4	1.450	1.454	95.567	1.403	0.126	4	3,470	3.808	92.156	0.465	0.101	4	3.031	3.589	89.755	2,909	0.717	
5	7.461	2.181	79.990		0.416	5	2.157		93.930		0.364	5	3.466		91.896		0.193	5	3.378	3.648	89.025	3.028	0.921	
6	7.394	2.162	79.293	9.872	1.278	6	2.157	2.161	93.781	1.508	0.393	6	3.490	4.082	91.812	0.474	0.192	6	3.416	3.636	88.921	3.021	1.006	
7	7.405	2.163	79.239	9.899	1.294	7	2.156	2.162	93.702	1.517	0.464	7	3.608	4.065	91.635	0.473	0.219	7	3.485	3.660	88.733	3.044	1.077	
8	7.395	2.160	79.108	10.024	1.313	8	2.158	2.167	93.669	1.528	0.478	8	3.640	4.063	91.578	0.493	0.226	8	3.487	3.662	88.698	3.044	1.109	
9	7.385	2.216	79.050	10.016	1.333	9	2.188	2.189	93.592	1.527	0.503	9	3.645	4.063	91.567	0.494	0.231	9	3.486	3.661	88.644	3.048	1.160	
10	7.372	2.213	78.906	10.025	1.485	10	2.188	2.190	93.586	1.530	0.506	10	3.645	4.063	91.553	0.494	0.245	10	3.492	3.661	88.619	3.048	1.180	
	Varianc	e Decomp	osition	of RTGR		Variance Decomposition of RTGR:							Variand	e Decomp	osition	of RTGR	Variance Decomposition of RTGR:							
Period	REUBT	REEXCO2	RDAX	RTGR	RIR	Period	REUBT	REEXCO2	R4	RTGR	RIR	Period	REUBT	REEXCO2	R10	RTGR	RIR	Period	REUBT	REEXCO2	R12	RTGR	RIR	
1	5.518	0.084	2.269	92.179	0.000	1	3.718	0.000	6.310	89.972	0.000	1	4.082	0.125	7.261	88.582	0.000	1	2.764	0.030	2.818	94.388	0.000	
2	9.076	0.553	2.554	87.804	0.014	2	6.116	0.099	10.751	83.033	0.000	2	6.103	0.371	9.565	83.951	0.010	2	4.821	0.187	4.178	90.812	0.003	
3	9.725	1.548	2.563	86.106	0.058	3	6.263	0.862	10.643	82.222	0.010	3	6.252	1.087	9.836	82.862	0.013	3	5.135	0.688	4.144	90.025	0.007	
4	9.514	2.432	2.551	84.229	1.273	4	6.123	1.988	10.404	80.627	0.858	4	6.040	2.393	9.983	80.688	0.896	4	5.015	1.852	4.058	88.292	0.782	
5	9.645	2.499	2.559	83.854	1.443	5	6.279	2.060	11.327	79.411	0.924	5	6.365	2.473	9.886	80.355	0.920	5	5.244	1.908	4.431	87.603	0.814	
6	9.656	2.563	2.732	83.605	1.444	6	6.370	2.072	11.326	79.307	0.926	6	6.365	2.474	9.907	80.329	0.926	6	5.268	1.907	4.433	87.578	0.814	
7	9.684	2.565	2.736	83.390	1.625	7	6.432	2.075	11.341	79.136	1.017	7	6.392	2.477	9.963	80.189	0.980	7	5.290	1.930	4.473	87.349	0.958	
8	9.702	2.589	2.730	83.257	1.722	8	6.436	2.080	11.351	79.064	1.069	8	6.451	2.477	9.947	80.100	1.024	8	5.346	1.928	4.468	87.263	0.995	
9	9.726	2.587	2.733		1.726	9	6.438			79.036		9	6.450	2.480	9.966		1.082	9	5.353	1.932	4.467	87.249	0.998	
10	9.723	2.589	2.732	83.184	1.773	10	6.442	2.102	11.341	78.999	1.116	10	6.449	2.480	9.965	80.056	1.049	10	5.352	1.932	4.469	87.229	1.017	
	Varian	ce Decom	positior	of RIR:			Variand	e Decompo	osition	of RIR:		Variance Decomposition of RIR:							Variance Decomposition of RIR:					
Period	REUBT	REEXCO2	RDAX	RTGR	RIR	Period	REUBT	REEXCO2	R4	RTGR	RIR	Period	REUBT	REEXCO2	R10	RTGR	RIR	Period	REUBT	REEXCO2	R12	RTGR	RIR	
1	0.452	0.345	0.079	0.070	99.053	1	0.305	0.414	0.383	0.076	98.822	1	0.495	0.445	0.011	0.075	98.974	1	0.412	0.582	0.000	0.061	98.946	
2	0.582	0.273	0.539	0.298	98.308	2	0.320	0.374	0.593	0.448	98.265	2	0.526	0.430	0.291	0.160	98.593	2	0.437	0.442	0.038	0.201	98.882	
3	1.256	0.286	0.493	0.278	97.686	3	0.928	0.395	0.543	0.460	97.674	3	1.113	0.432	0.294	0.159	98.002	3	0.797	0.449	0.043	0.185	98.526	
4	1.656	0.303	0.488	0.502	97.051	4	1.306	0.422	0.646	0.547	97.079	4	1.414	0.470	0.290	0.206	97.621	4	1.109	0.513	0.897	0.196	97.285	
5	1.719	0.300	0.484	0.948	96.549	5	1.434	0.411	0.629	1.030	96.497	5	1.540	0.458	0.287	0.608	97.112	5	1.252	0.500	0.977	0.491	96.780	
6	1.619	0.282	0.573	0.955	96.571	6	1.350	0.389	0.612	1.090	96.559	6	1.447	0.446	0.368	0.715	97.023	6	1.190	0.472	0.951	0.530	96.857	
7	1.623	0.266	0.537	0.884	96.690	7	1.347	0.377	0.596	0.999	96.681	7	1.416	0.413	0.379	0.669	97.123	7	1.203	0.452	0.971	0.488	96.886	
8	1.770	0.267	0.534	0.879	96.550	8	1.441	0.375	0.593	0.994	96.597	8	1.470	0.413	0.380	0.666	97.071	8	1.314	0.451	0.985	0.485	96.765	
	1																	· ·				0.501	96.627	
9	1.834	0.267	0.547	0.919	96.433	9	1.530	0.375	0.608	1.024	96.463	9	1.532	0.413	0.381	0.689	96.985	9	1.383	0.450	1.038	0.501	30.027	

As to the individual alternate energy companies, we see that their returns are able to explain as much as technology of oil variance errors produced in its prediction, and that company's returns together with oil returns explain more of the percentage of the prediction error variance produced in explaining carbon allowances. For these, oil and allowances have more explanatory power, while company's returns followed by oil prices explain more of the variance of the prediction error for high technology index returns. The main results with respect to interest rates are the same as before.

Just looking at the solar energy producers (r27, r29 and r30) we see that the percentage of the prediction error variance of the technology returns with respect to oil decrease in favor of carbon allowances and individual company returns. Given that there is a high percentage of solar energy produced in Germany we can say that for these companies the

Table 3: Variance Decomposition (Continued)

| | Ordering: R | EUBT REEXCO | 02 R15 RT0
 | GR RIR (| Cholesky Order

 | ing: REUBT
 | REEXCO2 | R17 RTGR RIR

 | Cholesk | Ordering
 | g: REUBT REE
 | KCO 2 R20 R1 | TGR RIR | Choles
 | sky Orderi | ng: REUBT R
 | EXCO2 R27 | RTGR RIR |
|--|---|--
---|---
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 | RIR |

 | ce Decomp
REEXCO2
 | | FREUBT:

 | |
 | EEXCO2 R
 | | RIR | Period
 | | Decomposi
REEXCO2
 | | |
| 1 1 | 100.000 0 | 000 0.000 | 0.000
 | 0.000 | 1 100.000

 | 0.000
 | 0.000 | 0.000 0.000

 | 1 : | 100.000
 | 0.000 0.0
 | 00 0.000 | 0.000 | 1
 | 100.000 | 0.000 0
 | .000 0.000 | 0.000 |
| | | 487 1.295
(514 1.420 |
 | 0.072 | 2 97.482
3 97.292

 | 0.275
 | 0.073 | 2.166 0.004

 | | 97.221
97.044
 | 0.383 0.3
 | | 0.019 | 2
 | 97.510
97.006 |
 | .556 0.880
.884 0.874 | |
| | | .576 1.569 |
 | 0.396 | 4 96.867

 | 0.334
 | 0.182 | 2.592 0.026

 | | 96.276
 | 0.433 0.6
 | | 0.376 | 4
 | 96.917 |
 | 901 0.877 | |
| | | .859 1.770
.857 1.771 | 1.271
 | 0.725 | 5 94.988
6 94.925

 | 1.767
1.783
 | 0.289 | 2.571 0.385
2.576 0.423

 | | 94.266
94.052
 | 1.778 0.9
1.775 1.0
 | 70 2.226 | 0.746 | 5
 | 96.914
96.908 |
 | 901 0.877
901 0.877 | 0.266 |
| | | .856 1.805
.873 1.806 |
 | 0.869 | 7 94.884
8 94.797

 | 1.786
1.813
 | 0.293 | 2.574 0.464
2.619 0.473

 | | 94.028
93.953
 | 1.776 1.0
1.795 1.0
 | | 0.897 | 7
 | 96.905
96.905 |
 | 901 0.877 | |
| | | .878 1.827 |
 | 0.889 | 9 94.765

 | 1.813
 | 0.309 | 2.631 0.481

 | | 93.953
93.944
 | 1.795 1.0
 | | 0.933 | 9
 | 96.905 |
 | 901 0.877 | 0.276 |
| | | .879 1.840
mposition of |
 | 0.888 | 10 94.755
Variation

 | 1.814
e Decompo
 | 0.310
sition of I | 2.631 0.490

 | | 93.940
riance De
 | 1.800 1.0
 | 98 2.229
of REEXCO. | 0.932 | 10
 | 96.905 | 1.041 C
 | .901 0.877 | |
| | | EXCO2 R15 |
 | RIR I |

 | REEXCO2
 | | RTGR RIR

 | |
 | EEXCO2 R
 | | RIR |
 | | REEXCO2
 | | |
| 1 | | 9.544 0.000
7.967 1.102 |
 | 0.000 | 1 0.699
2 1.095

 | 99.301
98.532
 | 0.000 | 0.000 0.000

 | 1 2 |
 | 99.438 0.0
99.014 0.0
 | | 0.000 | 1 2
 | 0.451 1.183 |
 | .000 0.000 | 0.000 |
| | | 2.089 1.892 |
 | 0.122 | 3 6.581

 | 93.021
 | 0.050 | 0.017 0.331

 | 3 |
 | 94.021 0.0
 | | 0.056 | 3
 | 6.451 |
 | 279 0.201 | |
| | | 1.706 2.349
7.002 2.431 |
 | 0.207 | 4 6.571
5 10.505

 | 91.334
86.999
 | 0.049 | 1.407 0.638
1.437 0.686

 | 4 |
 | 92.622 0.0
89.141 0.0
 | | 0.131 0.137 | 4
 | 6.451
6.449 |
 | 288 0.303
310 0.306 | 0.022 |
| | | 5.921 2.496 | 5 1.215
 | 0.235 | 6 10.500

 | 86.953
 | 0.403 | 1.436 0.708

 | | 9.358
 | 89.117 0.0
 | 58 1.327 | 0.140 | 6
 | 6.449 | 91.878 1
 | 311 0.306 | 0.056 |
| | | 5.881 2.498
5.863 2.506 |
 | 0.240 | 7 10.485
8 10.486

 | 86.813
86.741
 | 0.422 | 1.490 0.789
1.518 0.819

 | 7 |
 | 89.058 0.0
89.001 0.0
 | | 0.145 | 7
 | 6.450
6.450 |
 | 311 0.306
311 0.306 | |
| 9 | 9.146 8 | 5.812 2.504 | 1.258
 | 0.280 | 9 10.498

 | 86.728
 | 0.435 | 1.520 0.819

 | 9 | 9.368
 | 88.929 0.1
 | 09 1.394 | 0.201 | 9
 | 6.450 | 91.877 1
 | 311 0.306 | 0.057 |
| | | 5.795 2.504
composition |
 | 0.298 | 10 10.497
Variat

 | 86.702
nce Decon
 | 0.436
position | 1.520 0.844
of R17:

 | |
 | 88.917 0.1
Decomposit
 | 14 1.394
on of R20: | 0.209 | 10
 | 6.450
Varianc |
 | 311 0.306 | 0.057 |
| | | EXCO2 R15 | RTGR
 | RIR |

 | REEXCO 2
 | | RTGR RIR

 | |
 | EEXCO2 R
 | | RIR | Period
 | | REEXCO2
 | | RIR |
| | | 136 95.28 |
 | 0.000 | 1 0.004
2 0.010

 | 0.239
 | 99.757
99.089 | 0.000 0.000

 | | 0.399
 | 0.505 99.
 | | 0.000 | 1 2
 | 2.840 |
 | 152 0.000 | |
| 3 | 4.484 0 | 133 93.97 | 1 0.981
 | 0.430 | 3 0.020

 | 0.511
 | 97.350 | 1.216 0.904

 | 3 | 0.570
 | 0.492 98.
 | 374 0.068 | 0.497 | 3
 | 4.075 | 0.170 9
 | .119 0.545 | 0.092 |
| | | 529 92.83
717 91.85 |
 | 0.786 | 4 0.261
5 0.464

 | 1.605
 | 95.795
95.268 | 1.254 1.085
1.299 1.374

 | 4 | 0.696
 | 0.488 97.
 | | 0.493 | 4
 | 4.094 4.117 |
 | i.053 0.561 | 0.114 |
| 6 | 5.082 0 | .712 91.16 | 0 1.415
 | 1.631 | 6 0.475

 | 1.631
 | 94.811 | 1.292 1.792

 | 6 | 0.692
 | 0.479 97.
 | 53 0.501 | 0.575 | 6
 | 4.117 | 0.180 9
 | .027 0.561 | 0.115 |
| | | 715 91.11
757 91.04 |
 | 1.680
1.696 | 7 0.485
8 0.489

 | 1.640
 | 94.791
94.764 | 1.291 1.793
1.291 1.800

 | 7 | 0.700
 | 0.490 973
 | | 0.633 | 7
 | 4.117
4.117 |
 | i.027 0.561
i.027 0.561 | 0.115 |
| 9 | 5.074 0 | .761 91.03 | 3 1.431
 | 1.701 | 9 0.489

 | 1.664
 | 94.744 | 1.301 1.801

 | 9 | 0.703
 | 0.495 97.
 | 60 0.509 | 0.634 | 9
 | 4.118 | 0.180 9
 | .027 0.561 | 0.115 |
| | | 0763 91.021 |
 | 1.703 | 10 0.489
Varian

 | 1.662
ice Decom
 | 94.635
position o | 1.304 1.910
of RTGR:

 | |
 | 0.495 97.
Decompositi
 | | 0.634 | 10
 | 4.118
Variance | 0.180 9
Decompos
 | i.027 0.561
tion of RTG | |
| Period F | REUBT REI | EXCO2 R15 | RTGR
 | | Period REUBT

 | REEXCO 2
 | R17 | RTGR RIR

 | Period | REUBT R
 | EEXCO2 R
 | 0 RTGR | RIR | Period
 | REUBT | REEXCO2
 | RTGR | RIR |
| | | 1003 8.516
1070 9.253 | 5 88.532
8 85.919
 | 0.000 | 1 4.094
2 6.367

 | 0.031 0.193
 | | 95.244 0.000
92.496 0.017

 | 1 2 | 3.608
5.414
 | 0.002 0.5
 | | 0.000 | 1 2
 | 3.167
4.920 |
 | 237 91.58
392 88.49 | |
| 3 | 5.112 1 | .002 9.141 |
 | 0.014 | 3 6.496

 | 0.816
 | 1.200 | 91.457 0.031

 | 3 | 5.730
 | 0.815 0.9
 | 72 92.433 | 0.049 | 3
 | 5.144 | 0.955 6
 | 350 87.45 | 6 0.096 |
| | | 142 9.963 | 82.204
 | 0.439 | 4 6.338
5 6.605

 | 2.036
2.106
 | | 89.533 0.884
89.105 0.987

 | 4 | 5.654
5.891
 | 2.048 1.2
2.098 1.2
 | 16 90.431 | 0.252 0.365 | 4
 | 5.232
5.306 |
 | 346 87.35
345 87.28 | |
| 6 | 5.254 2 | .190 10.00 | 0 82.112
 | | 6 6.652
7 6.711

 | 2.120
 | 1.224 | 89.008 0.996
88.839 1.087

 | 6 | 5.941
5.959
 | 2.110 1.2
 | 16 90.363 | 0.371 | 6
 | 5.306
5.306 | 0.953 6
 | 345 87.28
345 87.28 | 3 0.112 |
| 8 | 5.315 2 | 196 10.09 | 5 81.921
 | 0.473 | 8 6.761

 | 2.140
 | 1.221 | 88.719 1.159

 | 8 | 5.994
 | 2.121 1.2
 | 35 90.272 | 0.377 | 8
 | 5.306 | 0.953 6
 | 345 87.28 | 3 0.112 |
| | | | 3 81.886
4 81.884
 | 0.497 | 9 6.766
10 6.764

 | 2.143
 | | 88.704 1.160
88.673 1.186

 | 9
10 | 6.001
6.001
 | 2.126 1.2
2.127 1.2
 | 42 90.254
44 90.250 | 0.377 | 9
10
 | 5.306
5.306 |
 | 345 87.28
345 87.28 | |
| 1 | Variance De | composition | of RIR:
 | | Varia

 | nce Decon
 | position | of RIR:

 | | Variance
 | Decomposit
 | ion of RIR: | |
 | Varianc | e Decompo
 | ition of RIF | |
| | | EXCO2 R15 | RTGR
7 0.098
 | RIR 1
98.562 | Period REUBT
1 0.446

 | REEXCO2
0.438
 | R17
0.010 | RTGR RIR
0.048 99.05

 | | REUBT R
0.264
 | EEXCO2 R:
0.182 0.0
 | | RIR
99.549 | Period
 | 0.168 |
 | 127 RTGR | RIR
98.728 |
| 2 | 0.341 0 | 026 0.540 | 0.138
 | 98.955 | 2 0.484

 | 0.395
 | 1.834 | 0.106 97.18

 | 2 | 0.268
 | 0.113 0.0
 | 69 0.145 | 99.405 | 2
 | 0.279 | 0.135 1
 | .430 0.091 | 98.065 |
| | | 040 0.567 |
 | 97.560
97.233 | 3 1.054
4 1.408

 | 0.408
 | 2.730 | 0.097 95.71

 | 3 | 1.391
 | 0.112 0.0
 | | 97.962
97.638 | 3
 | 1.417 |
 | .091 0.195 | |
| 5 | 1.874 0 | 1.576 | 6 0.683
 | 95.810 | 5 1.501

 | 0.419
 | 2.942 | 0.537 94.60

 | 5 | 1.779
 | 0.114 0.1
 | 06 1.184 | 96.817 | 5
 | 1.628 | 0.140 2
 | .084 0.201 | 95.947 |
| | | 124 2.268 |
 | 94.902
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 | 0.406
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 | 6 | 1.883
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 | | 96.393
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 | 1.670 |
 | .094 0.204 | 95.892
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| 8 | 2.056 0 | 124 2.364 | 0.815
 | 94.640 | 8 1.534

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 | 3.377 | 0.708 94.01

 | 8 | 1.927
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 | 30 1.507 | 96.227 | 8
 | 1.676 | 0.140 2
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| | | 125 2.397 |
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investments performed justify more the existent relationship between oil, technology, allowances and returns.

Once again, the impact of the interest rate is not relevant. Still, oil returns are more able to explain the prediction error variance produced in the estimate of carbon allowances, results being mixed with respect to companies when we consider the explanatory capacity of oil and technology over the variance prediction error of company's stock returns.

C. Impulse Response Results

We see that the renewables index impact leads to a positive and significant answer of oil prices, while a technology impact entails a positive and significant answer of oil prices and of the rDAX index. There is still no significant evidence of the interest rate over all the other variables. With respect to the oil return shock we may say it is positive and significant in the short run over the renewables index being negative in the technology case. However, these effects fade out from week six onward.

In the case of individual company's returns, and with respect to the biogas plants constructer r4, we only find evidence of positive and significant shocks of stock returns over oil, of technology over oil and of technology over oil with a two weeks lag. These shocks are significant and negative in the case of stock returns over technology and of oil over high technology returns. For the bioethanol producer r10 oil reacts positively to technology, carbon allowances react positively with a one week lag to oil and that technology reacts negatively and significantly to both oil returns and to the stock return of that company.

When we consider the fuel cell producer r12 we see that our main conclusions remain practically unchanged. That is to say that oil reacts positively and with statistical significance to stock returns and to technology in the very short run, which is to say one week. Still carbon allowances returns only react positively to oil price shocks with a two week lag and it is also evident once more the significant and negative impact of oil and company stock returns over the technology index, whose effects tend to die out after 6 weeks.

We now focus our analysis on the solar energy companies - r27, r29 and r30. These represent most of the total renewables production. Still, we are unable to establish a general patterns. We may argue that oil returns are now positively and with statistical significance impacted by carbon allowances, company stock returns and by technology. As such, the effect of higher oil prices and the relationship discussed previously between oil, carbon allowances and technology is more evident in the solar energy companies.

Moreover we also see that in the case of solar producers' carbon allowances react in a negative and significant way in the short run to the company returns. But although the first impact is negative, at the two week lag, carbon allowances returns suffer positive shocks from both oil returns and individual companies stocks thus showing that according to the initial predictions when oil price increase in the market, the tendency is for the substitution of conventional energy sources by renewables. This is especially evident for company r27 and r30. As such, higher oil prices contribute to the development of the renewables sector and the fact that carbon emission are priced in the market encourages investments in clean energy firms when we consider the individual company level. This is true only when the weight of these same companies is high enough in the total amount of renewable energy produced.

IV. CONCLUSIONS

With respect to previous results in the literature and our initial predictions, we should expect a positive impact of technology over alternate company's returns. However, our empirical estimates for ten renewable energy firms listed in the German stock market, do not allow us to say that investors see these two assets in the market as parallel in general terms. The initial effect of stock prices of clean energy companies to shocks of prices of oil-producing companies is negative instead of positive. When positive considering a three weeks delay, they are not statistically significant. Finally, when we are considering individual clean energy company's returns, all our results suggest that the interest rate is irrelevant.

For the sake of robustness, we have performed a lot more estimations always using the VAR methodology changing variables ordering and by reducing the number of variables in our VAR. The main results remained unchanged. Yet, there are still some issues that deserve a more deeply understanding and maybe using a panel VAR would help us sharpen our results and would allow us to take a deeper look into the relationship between individual company's stock returns, oil, carbon prices, technology and the interest rate.

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