

LAMPIRAN

Lampiran 1 : Analisis Deskripsi Statistik Variabel Penelitian

Variable	Obs	Mean	Std. dev.	Min	Max
emisico2	50	3.612429	2.360734	.971253	8.36835
urbanisasi	50	53.11286	13.43558	33.115	78.716
pertumbuha~i	50	3.173189	3.378882	-10.5489	7.56568
konsumsien~i	50	1386.314	863.0976	465.626	2891.76
fdi	50	2.708791	1.357325	-.85799	5.41626

Lampiran 2 : Hasil Uji Common Effect Model (CEM)

Source	SS	df	MS	Number of obs	=	50
Model	262.193477	4	65.5483692	F(4, 45)	=	270.94
Residual	10.8866442	45	.241925427	Prob > F	=	0.0000
				R-squared	=	0.9601
				Adj R-squared	=	0.9566
Total	273.080121	49	5.57306369	Root MSE	=	.49186

emisico2	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
urbanisasi	.0716448	.0074036	9.68	0.000	.0567331	.0865565
pertumbuhanekonomi	-.0239266	.0238725	-1.00	0.322	-.0720083	.0241551
lnkonsumsienergi	2.468017	.1578633	15.63	0.000	2.150064	2.78597
fdi	.4445527	.0599776	7.41	0.000	.3237516	.5653539
_cons	-18.70419	.8989598	-20.81	0.000	-20.51479	-16.8936

Lampiran 3 : Hasil Uji Fixed Effect Model (FEM)

Fixed-effects (within) regression			Number of obs	=	50
Group variable: kode			Number of groups	=	5
R-squared:			Obs per group:		
Within	=	0.6944	min	=	10
Between	=	0.8688	avg	=	10.0
Overall	=	0.8653	max	=	10
corr(u_i, Xb) = 0.3749			F(4,41)	=	23.29
			Prob > F	=	0.0000

emisico2	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
urbanisasi	.0076426	.0199696	0.38	0.704	-.0326868	.047972
pertumbuhanekonomi	-.0000689	.0095526	-0.01	0.994	-.0193609	.019223
lnkonsumsienergi	2.853224	.4012229	7.11	0.000	2.042937	3.66351
fdi	-.006532	.0371038	-0.18	0.861	-.0814645	.0684006
_cons	-16.8718	2.299692	-7.34	0.000	-21.51613	-12.22748
sigma_u	1.013722					
sigma_e	.18852469					
rho	.96657032	(fraction of variance due to u_i)				

F test that all u_i=0: F(4, 41) = 66.33 Prob > F = 0.0000

Lampiran 4 : Hasil Uji Random Effect Model (REM)

Random-effects GLS regression	Number of obs	=	50
Group variable: kode	Number of groups	=	5
R-squared:	Obs per group:		
Within = 0.2651	min =		10
Between = 0.9874	avg =		10.0
Overall = 0.9601	max =		10
	Wald chi2(4)	=	1083.78
corr(u_i, X) = 0 (assumed)	Prob > chi2	=	0.0000

emisico2	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
urbanisasi	.0716448	.0074036	9.68	0.000	.0571339	.0861556
pertumbuhanekonomi	-.0239266	.0238725	-1.00	0.316	-.0707158	.0228626
lnKonsumsienergi	2.468017	.1578633	15.63	0.000	2.158611	2.777423
fdi	.4445527	.0599776	7.41	0.000	.3269987	.5621067
_cons	-18.70419	.8989598	-20.81	0.000	-20.46612	-16.94226
sigma_u	0					
sigma_e	.18852469					
rho	0 (fraction of variance due to u_i)					

Lampiran 5 : Hasil Uji Chow

Fixed-effects (within) regression	Number of obs	=	50
Group variable: kode	Number of groups	=	5
R-squared:	Obs per group:		
Within = 0.6944	min =		10
Between = 0.8688	avg =		10.0
Overall = 0.8653	max =		10
	F(4,41)	=	23.29
corr(u_i, Xb) = 0.3749	Prob > F	=	0.0000

emisico2	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
urbanisasi	.0076426	.0199696	0.38	0.704	-.0326868	.047972
pertumbuhanekonomi	-.0000689	.0095526	-0.01	0.994	-.0193609	.019223
lnKonsumsienergi	2.853224	.4012229	7.11	0.000	2.042937	3.66351
fdi	-.006532	.0371038	-0.18	0.861	-.0814645	.0684006
_cons	-16.8718	2.299692	-7.34	0.000	-21.51613	-12.22748
sigma_u	1.013722					
sigma_e	.18852469					
rho	.96657032	(fraction of variance due to u_i)				

F test that all u i=0: $F(4, 41) = 66.33$ Prob > F = 0.0000

Lampiran 6 : Hasil Uji Hausman

	Coefficients		(b-B) Difference	sqrt(diag(V_b-V_B)) Std. err.
	(b) rem	(B) fem		
urbanisasi	.0716448	.0076426	.0640022	.
pertumbuha~i	-.0239266	-.0000689	-.0238577	.0218779
lnkonsumsi~i	2.468017	2.853224	-.3852065	.
fdi	.4445527	-.006532	.4510847	.0471235

b = Consistent under H0 and Ha; obtained from **xtreg**.
 B = Inconsistent under Ha, efficient under H0; obtained from **xtreg**.

Test of H0: Difference in coefficients not systematic

$\chi^2(4) = (b-B)'[(V_b-V_B)^{-1}](b-B)$
 = 97.49
 Prob > χ^2 = 0.0000
 (V_b-V_B is not positive definite)

Lampiran 7: Hasil Uji Lagrange Multiplier

Breusch and Pagan Lagrangian multiplier test for random effects

$\text{emisico2}[\text{kode}, t] = Xb + u[\text{kode}] + e[\text{kode}, t]$

Estimated results:

	Var	SD = sqrt(Var)
emisico2	5.573064	2.360734
e	.0355416	.1885247
u	0	0

Test: $\text{Var}(u) = 0$

$\chi^2_{\text{bar}}(01) = 0.00$
 Prob > $\chi^2_{\text{bar}} = 1.0000$

Lampiran 8 : Hasil Uji Normalitas

Skewness and kurtosis tests for normality

Variable	Obs	Pr(skewness)	Pr(kurtosis)	Joint test	
				Adj $\chi^2(2)$	Prob> χ^2
residuals	50	0.4100	0.6126	0.97	0.6152

Lampiran 9 : Hasil Uji Multikolinearitas

Variable	VIF	1/VIF
urbanisasi	2.00	0.498980
lnkonsumsi~i	1.97	0.508765
fdi	1.34	0.744970
pertumbuha~i	1.32	0.758829
Mean VIF	1.66	

Lampiran 10 : Hasil Uji Autokorelasi

Wooldridge test for autocorrelation in panel data

H0: no first-order autocorrelation

$F(1, 4) = 533.037$
 Prob > F = 0.0000

Lampiran 11 : Hasil Uji Heteroskedastisitas

Source	SS	df	MS	Number of obs	=	50
Model	262.193477	4	65.5483692	F(4, 45)	=	270.94
Residual	10.8866442	45	.241925427	Prob > F	=	0.0000
				R-squared	=	0.9601
				Adj R-squared	=	0.9566
Total	273.080121	49	5.57306369	Root MSE	=	.49186

emisico2	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
urbanisasi	.0716448	.0074036	9.68	0.000	.0567331	.0865565
pertumbuhanekonomi	-.0239266	.0238725	-1.00	0.322	-.0720083	.0241551
lnkonsumsienergi	2.468017	.1578633	15.63	0.000	2.150064	2.78597
fdi	.4445527	.0599776	7.41	0.000	.3237516	.5653539
_cons	-18.70419	.8989598	-20.81	0.000	-20.51479	-16.8936

* OLS Glejser Lagrange Multiplier Heteroscedasticity Test

Ho: No Heteroscedasticity - Ha: Heteroscedasticity

Glejser LM Test = 10.18561
 Degrees of Freedom = 4.0
 P-Value > Chi2(4) = 0.03741

Lampiran 12 : Hasil Uji Feasible Generalized Least Squares

Cross-sectional time-series FGLS regression

Coefficients: generalized least squares
 Panels: homoskedastic
 Correlation: no autocorrelation

Estimated covariances = 1 Number of obs = 50
 Estimated autocorrelations = 0 Number of groups = 5
 Estimated coefficients = 5 Time periods = 10
 Wald chi2(4) = 1204.20
 Log likelihood = -32.83477 Prob > chi2 = 0.0000

emisico2	Coefficient	Std. err.	z	P> z	[95% conf. interval]	
urbanisasi	.0716448	.0070237	10.20	0.000	.0578786	.085411
pertumbuhanekonomi	-.0239266	.0226474	-1.06	0.291	-.0683147	.0204616
lnkonsumsienergi	2.468017	.1497623	16.48	0.000	2.174488	2.761546
fdi	.4445527	.0568998	7.81	0.000	.3330312	.5560743
_cons	-18.70419	.8528281	-21.93	0.000	-20.37571	-17.03268

Lampiran 13 :

Negara	Tahun	Urban Population	Pertumbuhan Ekonomi	FDI	Konsumsi Energi	Emisi Co2	Inurban Population	Lnkonsumsi Energi
Indonesia	2014	52,635	3,77969	2,81997	702,47	1,8846	3,963381	6,554603
Indonesia	2015	53,313	3,70583	2,29762	692,36	2,0594	3,97618	6,540106
Indonesia	2016	53,989	3,91054	0,487372	709,065	2,04093	3,98878	6,563947
Indonesia	2017	54,659	4,0011	2,01949	739,032	2,08323	4,001114	6,605341
Indonesia	2018	55,325	4,1593	1,81429	813,438	2,20077	4,013225	6,70127
Indonesia	2019	55,985	4,0413	2,23336	850,271	2,39933	4,025084	6,745555
Indonesia	2020	56,641	-2,89423	1,81058	810,004	2,21321	4,036733	6,697039
Indonesia	2021	57,29	2,97476	1,78786	824,62	2,23886	4,048126	6,714923
Indonesia	2022	57,934	4,5247	1,87268	935,774	2,64344	4,059304	6,841374
Indonesia	2023	58,572	4,16662	1,57116	876,327	2,60757	4,070257	6,775739
Malaysia	2014	73,577	4,20448	3,14123	2879,92	7,9831	4,298332	7,965518
Malaysia	2015	74,213	3,28579	3,27094	2706,93	7,55419	4,306939	7,90357
Malaysia	2016	74,84	2,62005	4,47131	2759,17	7,4645	4,315353	7,922685
Malaysia	2017	75,447	3,96187	2,93582	2617,76	7,55532	4,32343	7,870074
Malaysia	2018	76,036	3,07402	2,31459	2839,45	7,98043	4,331207	7,951366
Malaysia	2019	76,607	2,7595	2,50698	2878,3	8,36835	4,338688	7,964955
Malaysia	2020	77,16	-6,70934	1,20275	2722,6	7,7664	4,345881	7,909343
Malaysia	2021	77,696	2,13146	5,41626	2793,5	7,96773	4,352804	7,935051
Malaysia	2022	78,214	7,56568	3,68689	2867,1	8,22725	4,359449	7,961056
Malaysia	2023	78,716	2,28544	1,98111	2891,76	8,22244	4,365846	7,969621
Philippines	2014	46,093	4,61514	1,92938	465,626	0,971253	3,830661	6,143383
Philippines	2015	46,284	4,78725	1,84018	499,071	1,06209	3,834796	6,212748
Philippines	2016	46,475	5,72121	2,59851	520,981	1,13352	3,838915	6,255714
Philippines	2017	46,682	5,56223	3,12239	544,475	1,2435	3,843359	6,299822
Philippines	2018	46,907	5,03429	2,86834	554,498	1,28612	3,848167	6,318063
Philippines	2019	47,149	4,83578	2,30117	551,867	1,29531	3,853313	6,313307
Philippines	2020	47,408	-10,5489	1,88586	518,157	1,17979	3,858791	6,250278
Philippines	2021	47,684	4,76164	3,04079	530,988	1,24821	3,864596	6,274739
Philippines	2022	47,977	6,76595	2,34751	550,794	1,27143	3,870722	6,311361
Philippines	2023	48,287	4,69438	2,08541	578,566	1,34544	3,877162	6,360553
Thailand	2014	46,943	0,450537	1,22145	1926,23	3,88069	3,848934	7,56332
Thailand	2015	47,694	2,65972	2,22469	1932,67	3,92821	3,864806	7,566658
Thailand	2016	48,448	2,96944	0,843364	1985,01	4,00856	3,880491	7,593379
Thailand	2017	49,2	3,73798	1,8155	1975,61	3,98183	3,895894	7,588632
Thailand	2018	49,949	3,90763	2,7128	1937,18	4,03924	3,911002	7,568989
Thailand	2019	50,692	1,90583	1,01735	1976,43	3,94112	3,925768	7,589047
Thailand	2020	51,43	-6,20637	-0,85799	1872,52	3,79561	3,940222	7,53504

Thailand	2021	52,163	1,44662	3,03988	1833,86	3,72441	3,954373	7,514178
Thailand	2022	52,889	2,45135	2,3918	1857,31	3,79971	3,968195	7,526884
Thailand	2023	53,608	1,934	1,26533	1987,98	3,6873	3,981698	7,594874
Vietnam	2014	33,115	5,13784	3,94086	745,634	1,96304	3,499986	6,614235
Vietnam	2015	33,809	5,66896	4,93191	679,446	2,29803	3,520727	6,521278
Vietnam	2016	34,51	5,35427	4,90089	738,88	2,35085	3,541249	6,605136
Vietnam	2017	35,213	5,61788	5,01149	757,48	2,39147	3,561415	6,629997
Vietnam	2018	35,919	6,28096	4,99828	885,647	2,65301	3,581266	6,786318
Vietnam	2019	36,628	6,32465	4,82107	987,271	3,49011	3,600813	6,894945
Vietnam	2020	37,34	1,91581	4,55836	991,281	3,69558	3,620065	6,898998
Vietnam	2021	38,052	1,66652	4,27315	962,2	3,17352	3,638954	6,869222
Vietnam	2022	38,766	7,31481	4,36241	1023,06	2,98587	3,657544	6,930553
Vietnam	2023	39,48	4,34348	4,30516	1035,11	3,33552	3,675794	6,942263