

## Lampiran 7 Uji Kointegrasi Granger (resid)

Null Hypothesis: RESID01 has a unit root

Exogenous: Constant

Bandwidth: 3 (Newey-West using Bartlett kernel)

	Adj. t-Stat	Prob.*
Phillips-Perron test statistic	-3.878892	0.0045
Test critical values: 1% level	-3.584743	
5% level	-2.928142	
10% level	-2.602225	

\*MacKinnon (1996) one-sided p-values.

Null Hypothesis: RESID01 has a unit root

Exogenous: Constant, Linear Trend

Bandwidth: 3 (Newey-West using Bartlett kernel)

	Adj. t-Stat	Prob.*
Phillips-Perron test statistic	-3.865929	0.0219
Test critical values: 1% level	-4.175640	
5% level	-3.513075	
10% level	-3.186854	

\*MacKinnon (1996) one-sided p-values.

Null Hypothesis: RESID01 has a unit root

Exogenous: None

Bandwidth: 3 (Newey-West using Bartlett kernel)

	Adj. t-Stat	Prob.*
Phillips-Perron test statistic	-3.928367	0.0002
Test critical values: 1% level	-2.617364	
5% level	-1.948313	
10% level	-1.612229	

\*MacKinnon (1996) one-sided p-values.

## Uji Kointegrasi Johansen

Date: 09/21/13 Time: 04:57  
 Sample(adjusted): 2002:1 2013:2  
 Included observations: 42 after adjusting endpoints  
 Trend assumption: Linear deterministic trend  
 Series: LOG(PDB) LOG(KP) LOG(PP) LOG(NE)  
 Lags interval (in first differences): 1 to 1

### Unrestricted Cointegration Rank Test

Hypothesized No. of CE(s)	Eigenvalue	Trace Statistic	5 Percent Critical Value	1 Percent Critical Value
None **	0.544181	61.86622	47.21	54.46
At most 1	0.380510	28.86852	29.68	35.65
At most 2	0.187440	8.756456	15.41	20.04
At most 3	0.000921	0.038717	3.76	6.65

\*(\*\*) denotes rejection of the hypothesis at the 5%(1%) level

Trace test indicates 1 cointegrating equation(s) at both 5% and 1% levels

Hypothesized No. of CE(s)	Eigenvalue	Max-Eigen Statistic	5 Percent Critical Value	1 Percent Critical Value
None **	0.544181	32.99771	27.07	32.24
At most 1	0.380510	20.11206	20.97	25.52
At most 2	0.187440	8.717738	14.07	18.63
At most 3	0.000921	0.038717	3.76	6.65

\*(\*\*) denotes rejection of the hypothesis at the 5%(1%) level

Max-eigenvalue test indicates 1 cointegrating equation(s) at both 5% and 1% levels

### Unrestricted Cointegrating Coefficients (normalized by b'S11\*b=I):

LOG(PDB)	LOG(KP)	LOG(PP)	LOG(NE)
-42.81970	-1.442735	8.603974	6.567550
59.71392	-0.796017	-10.97408	-8.482966
-0.952759	0.090449	-4.948595	9.763638
3.548883	-0.160465	-2.353313	6.475279

### Unrestricted Adjustment Coefficients (alpha):

D(LOG(PDB))	0.010712	-0.005365	-0.001187	0.000358
D(LOG(KP))	0.695690	0.294156	-0.010369	-0.011179
D(LOG(PP))	0.002607	0.019478	0.003294	0.000936
D(LOG(NE))	-0.002852	0.006097	-0.010985	-2.52E-05

1 Cointegrating Equation(s): Log likelihood 219.7234

Normalized cointegrating coefficients (std.err. in parentheses)

LOG(PDB)	LOG(KP)	LOG(PP)	LOG(NE)
1.000000	0.033693	-0.200935	-0.153377
	(0.00587)	(0.01934)	(0.04240)

Adjustment coefficients (std.err. in parentheses)

D(LOG(PDB))	-0.458696
	(0.12727)
D(LOG(KP))	-29.78925
	(6.25827)

D(LOG(PP))	-0.111613		
	(0.32013)		
D(LOG(NE))	0.122136		
	(0.19531)		
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2 Cointegrating Equation(s):	Log likelihood	229.7794	
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Normalized cointegrating coefficients (std.err. in parentheses)			
LOG(PDB)	LOG(KP)	LOG(PP)	LOG(NE)
1.000000	0.000000	-0.188641	-0.145268
		(0.01477)	(0.03262)
0.000000	1.000000	-0.364864	-0.240660
		(0.57672)	(1.27343)
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Adjustment coefficients (std.err. in parentheses)			
D(LOG(PDB))	-0.779069	-0.011184	
	(0.20829)	(0.00467)	
D(LOG(KP))	-12.22407	-1.237849	
	(10.1171)	(0.22687)	
D(LOG(PP))	1.051487	-0.019265	
	(0.49486)	(0.01110)	
D(LOG(NE))	0.486230	-0.000738	
	(0.32674)	(0.00733)	
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3 Cointegrating Equation(s):	Log likelihood	234.1383	
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Normalized cointegrating coefficients (std.err. in parentheses)			
LOG(PDB)	LOG(KP)	LOG(PP)	LOG(NE)
1.000000	0.000000	0.000000	-0.502424
			(0.04490)
0.000000	1.000000	0.000000	-0.931458
			(0.37967)
0.000000	0.000000	1.000000	-1.893305
			(0.23367)
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Adjustment coefficients (std.err. in parentheses)			
D(LOG(PDB))	-0.777938	-0.011292	0.156920
	(0.20779)	(0.00467)	(0.04184)
D(LOG(KP))	-12.21419	-1.238787	2.808925
	(10.1172)	(0.22720)	(2.03716)
D(LOG(PP))	1.048349	-0.018967	-0.207625
	(0.49326)	(0.01108)	(0.09932)
D(LOG(NE))	0.496696	-0.001732	-0.037093
	(0.29778)	(0.00669)	(0.05996)
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