replication

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4/12/2021

R Markdown

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#    A. Data: summary stats
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# summary(rep_data)
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Table 1: Regression Results for Total Electrification Rate

	Dependent variable:			
	Total Electrification Rate			
	All	E/SE Asia	LA	MENA
	(1)	(2)	(3)	(4)
time	1.295***	2.185***	1.080***	1.446***
	(0.084)	(0.395)	(0.083)	(0.189)
Observations	927	127	222	116
R^2	0.695	0.755	0.843	0.679
Adjusted R^2	0.648	0.719	0.821	0.620
F Statistic	1,825.652*** (df = 1; 802)	338.589*** (df = 1; 110)	1,039.223*** (df = 1; 194)	205.384*** (df = 1; 97)

Note: ∗p<0.1; ∗∗p<0.05; ∗∗∗p<0.01

Table 2: Regression Results for Total Electrification Rate Cont.

	Dependent variable:	
	Total Electrification Rate	
	SA	SSA
	(1)	(2)
time	1.849***	0.992***
	(0.072)	(0.131)
Observations	65	381
R²	0.887	0.556
Adjusted R²	0.874	0.495
F Statistic	449.266*** (df = 1; 57)	418.299*** (df = 1; 334)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 3: Regression Results for Rural Electrification Rate

	Dependent variable:			
	Rural Electrification Rate			
	All	E/SE Asia	LA	MENA
	(1)	(2)	(3)	(4)
time	1.513***	1.941***	1.569***	2.287***
	(0.100)	(0.293)	(0.141)	(0.202)
Observations	643	85	158	62
R²	0.701	0.793	0.819	0.856
Adjusted R²	0.638	0.748	0.784	0.817
F Statistic	1,244.239*** (df = 1; 531)	264.411*** (df = 1; 69)	595.520*** (df = 1; 132)	285.089*** (df = 1; 48)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 4: Regression Results for Rural Electrification Rate Cont.

	Dependent variable:	
	Rural Electrification Rate	
	SA	SSA
	(1)	(2)
time	2.110***	0.663***
	(0.160)	(0.131)
Observations	37	289
R²	0.859	0.369
Adjusted R²	0.831	0.249
F Statistic	182.641*** (df = 1; 30)	141.429*** (df = 1; 242)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 5: Regression Results for urban Electrification Rate

	Dependent variable:			
	Urban Electrification Rate			
	All	E/SE Asia	LA	MENA
	(1)	(2)	(3)	(4)
time	0.961***	1.270**	0.732***	0.949***
	(0.073)	(0.510)	(0.099)	(0.173)
Observations	567	67	135	49
R^2	0.565	0.484	0.729	0.432
Adjusted R^2	0.460	0.332	0.663	0.243
F Statistic	591.322*** (df = 1; 456)	47.753*** (df = 1; 51)	289.861*** (df = 1; 108)	27.381*** (df = 1; 36)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 6: Regression Results for urban Electrification Rate Cont.

	Dependent variable:	
	Urban Electrification Rate	
	SA	SSA
	(1)	(2)
time	1.359***	1.217***
	(0.152)	(0.113)
Observations	36	269
R^2	0.856	0.572
Adjusted R^2	0.826	0.486
F Statistic	171.787*** (df = 1; 29)	298.382*** (df = 1; 223)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 7: Regression Results for Total Electrification Rate

	Dependent variable:		
	Total Electrification Rate		
	(1)	(2)	(3)
Population Density (k/sqkm)	21.599***		
	(7.595)		
Urban Pop. Share		0.169***	
		(0.059)	
Hydro Potential per Capita (log) (kWh/k)			−1.440
			(0.911)
Time	0.626***	0.588***	0.610***
	(0.073)	(0.074)	(0.073)
Constant	−32.507***	−35.664***	−26.701***
	(3.461)	(3.474)	(4.386)
Observations	894	899	898
R^2	0.189	0.178	0.157
Adjusted R^2	0.187	0.176	0.155
F Statistic	103.941*** (df = 2; 891)	97.131*** (df = 2; 896)	83.570*** (df = 2; 895)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 8: Regression Results for Total Electrification Rate Cont.

	Dependent variable:		
	Total Electrification Rate		
	(1)	(2)	(3)
Oil, Gas, Coal Rents	−0.263*		
	(0.141)		
Nat. Resource Rents		−0.435***	
		(0.111)	
Democracy			0.098
			(0.277)
Time	0.667***	0.720***	0.634***
	(0.086)	(0.085)	(0.090)
Constant	−31.212***	−31.088***	−30.833***
	(4.425)	(4.467)	(4.111)
Observations	849	838	863
R^2	0.126	0.164	0.150
Adjusted R^2	0.124	0.162	0.148
F Statistic	61.033*** (df = 2; 846)	81.607*** (df = 2; 835)	75.937*** (df = 2; 860)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 9: Regression Results for Total Electrification Rate Cont.

	Dependent variable:
	Total Electrification Rate
Population Density (k/sqkm)	26.626**
	(12.587)
Urban Pop. Share	0.230***
	(0.067)
Hydro Potential per Capita (log) (kWh/k)	−0.088
	(1.011)
Oil, Gas, Coal Rents	0.007
	(0.229)
Nat. Resource Rents	−0.394**
	(0.185)
Democracy	−0.298
	(0.308)
Time	0.644***
	(0.125)
Constant	−39.798***
	(7.193)
Observations	806
R^2	0.245
Adjusted R^2	0.238
F Statistic	36.974*** (df = 7; 798)
Note:	*p<0.1; **p<0.05; ***p<0.01

Table 10: Regression Results for rural Electrification Rate

	Dependent variable:		
	Rural Electrification Rate		
	(1)	(2)	(3)
Population Density (k/sqkm)	56.496***		
	(20.852)		
Urban Pop. Share		0.059	
		(0.112)	
Hydro Potential per Capita (log) (kWh/k)			−3.409**
			(1.473)
Time	0.707***	0.758***	0.710***
	(0.112)	(0.104)	(0.112)
Constant	−39.893***	−39.865***	−28.027***
	(5.394)	(7.385)	(7.166)
Observations	616	621	621
R^2	0.223	0.140	0.168
Adjusted R^2	0.220	0.137	0.165
F Statistic	87.947*** (df = 2; 613)	50.167*** (df = 2; 618)	62.439*** (df = 2; 618)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 11: Regression Results for Rural Electrification Rate Cont.

	Dependent variable:		
	Rural Electrification Rate		
	(1)	(2)	(3)
Oil, Gas, Coal Rents	−0.248		
	(0.225)		
Nat. Resource Rents		−0.504***	
		(0.181)	
Democracy			0.038
			(0.448)
Time	0.717***	0.810***	0.762***
	(0.149)	(0.149)	(0.122)
Constant	−34.191***	−35.499***	−37.655***
	(7.915)	(7.843)	(5.606)
Observations	579	571	611
R^2	0.086	0.120	0.135
Adjusted R^2	0.083	0.116	0.132
F Statistic	27.250*** (df = 2; 576)	38.547*** (df = 2; 568)	47.356*** (df = 2; 608)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 12: Regression Results for Rural Electrification Rate Cont.

	Dependent variable:
	Rural Electrification Rate
Population Density (k/sqkm)	52.300**
	(23.593)
Urban Pop. Share	0.147
	(0.113)
Hydro Potential per Capita (log) (kWh/k)	−1.250
	(1.685)
Oil, Gas, Coal Rents	0.254
	(0.331)
Nat. Resource Rents	−0.495*
	(0.278)
Democracy	−0.350
	(0.464)
Time	0.758***
	(0.171)
Constant	−41.868***
	(10.016)
Observations	566
R^2	0.222
Adjusted R^2	0.213
F Statistic	22.787*** (df = 7; 558)
Note:	*p<0.1; **p<0.05; ***p<0.01

Table 13: Regression Results for urban Electrification Rate

	Dependent variable:		
	Urban Electrification Rate		
	(1)	(2)	(3)
Population Density (k/sqkm)	32.294***		
	(8.210)		
Urban Pop. Share		0.120	
		(0.074)	
Hydro Potential per Capita (log) (kWh/k)			−0.576
			(1.159)
Time	0.293***	0.308***	0.312***
	(0.085)	(0.078)	(0.087)
Constant	−16.252***	−19.157***	−13.172**
	(4.204)	(4.439)	(5.686)
Observations	562	567	567
R^2	0.094	0.056	0.044
Adjusted R^2	0.091	0.052	0.040
F Statistic	29.001*** (df = 2; 559)	16.667*** (df = 2; 564)	12.846*** (df = 2; 564)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 14: Regression Results for urban Electrification Rate Cont.

	Dependent variable:		
	Urban Electrification Rate		
	(1)	(2)	(3)
Oil, Gas, Coal Rents	−0.371**		
	(0.182)		
Nat. Resource Rents		−0.427***	
		(0.160)	
Democracy			−0.026
			(0.260)
Time	0.326***	0.424***	0.336***
	(0.110)	(0.102)	(0.096)
Constant	−13.676**	−15.907***	−15.341***
	(5.818)	(5.521)	(4.622)
Observations	526	518	557
R^2	0.052	0.081	0.043
Adjusted R^2	0.048	0.078	0.040
F Statistic	14.251*** (df = 2; 523)	22.760*** (df = 2; 515)	12.492*** (df = 2; 554)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 15: Regression Results for urban Electrification Rate Cont.

	Dependent variable:
	Urban Electrification Rate
Population Density (k/sqkm)	40.220***
	(11.760)
Urban Pop. Share	0.165**
	(0.080)
Hydro Potential per Capita (log) (kWh/k)	1.301
	(1.206)
Oil, Gas, Coal Rents	−0.044
	(0.340)
Nat. Resource Rents	−0.391
	(0.290)
Democracy	−0.567*
	(0.301)
Time	0.451***
	(0.136)
Constant	−29.685***
	(8.374)
Observations	513
R^2	0.162
Adjusted R^2	0.150
F Statistic	13.907*** (df = 7; 505)
Note:	*p<0.1; **p<0.05; ***p<0.01