DiD TWFE

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30 Aug, 2021

Diff-in-Diff two way fixed effects (TWFE)

$$Y_{it} = \beta_0(Treatment_{it} * Merge_{it}) + \beta_1 X_{it} + \alpha_i + \gamma_t + \varepsilon_{it}$$
(1)

where i stands for municipality and t for month. Y_{it} is one of the outcome variables of interest. $Treatment_{it}$ is a dummy variable equal to one if the municipality is in the treatment group and zero if it is in the control group. Likewise, $Merge_{it}$ is a dummy variable that is equal to one if the month is greater than February 2011, the date of the merge between Shell and Cosan. α_i and γ_t are municipality and month-year fixed effects, respectively. Finally, X_{it} is a vector of control variables.

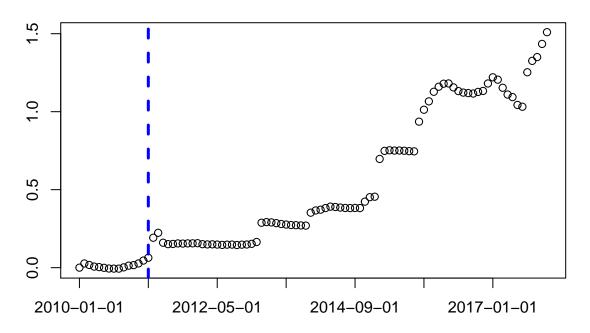
Both as treatment, Just One and None as control

Dependent Variable:			Gas	s retail price		
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Both$	0.0091	0.0123*	0.0124*	0.0134**	0.0138**	0.0437^*
	(0.0066)	(0.0067)	(0.0068)	(0.0067)	(0.0069)	(0.0253)
Total fleet		$-9.91 \times 10^{-8*}$	1.55×10^{-7}	1.53×10^{-7}	1.53×10^{-7}	1.86×10^{-7}
D 1.11		(5.35×10^{-8})	(1.36×10^{-7})		(1.36×10^{-7})	,
Population			$-4.62 \times 10^{-7**}$ (2.26×10^{-7})	$-4.55 \times 10^{-7**}$ (2.26×10^{-7})	$-4.56 \times 10^{-7**}$ (2.26×10^{-7})	$-4.58 \times 10^{-7**}$ (2.15×10^{-7})
GDP per capita			(2.20×10^{-4})	(2.20×10^{-4}) -0.0003^*	(2.20×10^{-4}) -0.0003^*	(2.13×10^{-4}) -0.0002
GD1 per capita				(0.0003)	(0.0003)	(0.0002)
HHI				(0.0002)	-9.19×10^{-7}	2.57×10^{-7}
					(2.92×10^{-6})	(2.93×10^{-6})
Both \times Time FE						Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	52,087	51,458	51,268	$51,\!174$	$51,\!174$	51,174
\mathbb{R}^2	0.97240	0.97238	0.97248	0.97252	0.97252	0.97293
Within R ²	0.00045	0.00206	0.00541	0.00604	0.00607	0.02079

Clustered (Municipality) standard-errors in parentheses

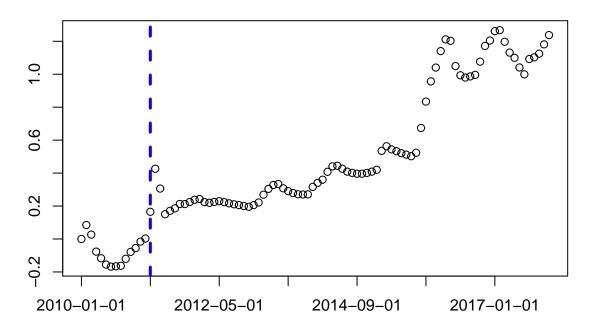
Signif. Codes: ***: 0.01, **: 0.05, *: 0.1

Month-Year FE : retail_p_gas



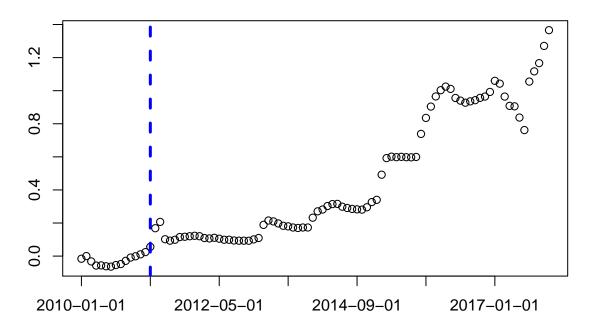
Dependent Variable:	Ethanol retail price					
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Both$	-0.0224**	-0.0188*	-0.0187*	-0.0169*	-0.0171*	-0.0771**
	(0.0103)	(0.0101)	(0.0100)	(0.0100)	(0.0102)	(0.0301)
Total fleet		-1.3×10^{-7}	2.79×10^{-8}	2.67×10^{-8}	2.66×10^{-8}	5.16×10^{-8}
		(8.32×10^{-8})	(2.06×10^{-7})	(2.05×10^{-7})	(2.05×10^{-7})	(2.06×10^{-7})
Population			-2.87×10^{-7}	-2.76×10^{-7}	-2.76×10^{-7}	-1.87×10^{-7}
			(3.21×10^{-7})	(3.17×10^{-7})	(3.17×10^{-7})	(2.87×10^{-7})
GDP per capita				-0.0008***	-0.0008***	-0.0007**
11111				(0.0003)	(0.0003)	(0.0003)
HHI					2.46×10^{-7}	2.69×10^{-6}
Both \times Time FE					(4.69×10^{-6})	(4.71×10^{-6})
						Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	50,855	50,228	50,038	49,944	49,944	49,944
\mathbb{R}^2	0.93819	0.93808	0.93810	0.93821	0.93821	0.94042
Within R ²	0.00110	0.00217	0.00269	0.00447	0.00447	0.04004

Month-Year FE : retail_p_eth



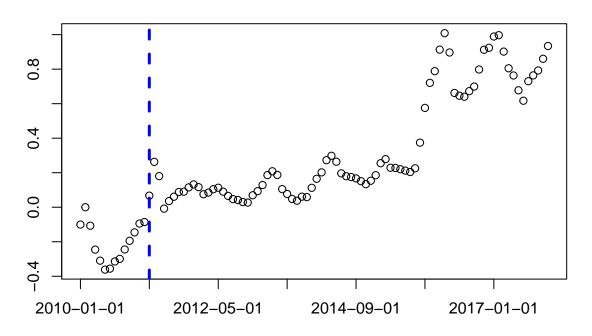
Dependent Variable:		Gas wholesale price						
Model:	(1)	(2)	(3)	(4)	(5)	(6)		
Variables								
$Merge \times Both$	0.0086*	0.0082	0.0081	0.0085	0.0080	0.0523***		
	(0.0051)	(0.0052)	$(0.0053)_{2}$	$(0.0053)_{2}$	$(0.0054)_{2}$	$(0.0195)_{-}$		
Total fleet		-2.3×10^{-10}	$1.86 \times 10^{-7*}$	$1.85 \times 10^{-7*}$	1.84×10^{-7}	$1.95 \times 10^{-7*}$		
D 1.4		(4.7×10^{-8})	$(1.11 \times 10^{-7}) \\ -3.41 \times 10^{-7**}$	(1.11×10^{-7}) $-3.37 \times 10^{-7**}$	(1.11×10^{-7}) $-3.36 \times 10^{-7**}$	$(1.11 \times 10^{-7}) \\ -3.57 \times 10^{-7**}$		
Population			-3.41×10^{-7} (1.56×10^{-7})	-3.37×10^{-7} (1.56×10^{-7})	-3.36×10^{-7} (1.57×10^{-7})	-3.57×10^{-7} (1.55×10^{-7})		
GDP per capita			(1.50 × 10)	-0.0001	-0.0001	-0.0001		
abi per capita				(0.0001)	(0.0001)	(0.0002)		
HHI				,	1.04×10^{-6}	1.18×10^{-6}		
					(2.4×10^{-6})	(2.45×10^{-6})		
Both \times Time FE						Yes		
Fixed-effects								
Municipality	Yes	Yes	Yes	Yes	Yes	Yes		
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes		
Fit statistics								
Observations	46,912	46,346	$46,\!156$	46,062	46,062	46,062		
\mathbb{R}^2	0.97517	0.97531	0.97536	0.97536	0.97537	0.97556		
Within R ²	0.00051	0.00047	0.00328	0.00342	0.00346	0.01141		

Month-Year FE: ws_p_gas



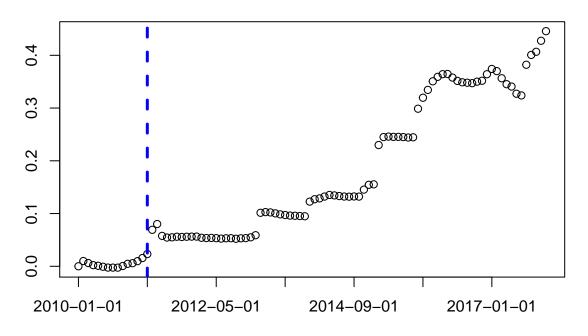
Dependent Variable:	Ethanol wholesale price					
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Both$	-0.0194**	-0.0204**	-0.0207**	-0.0192**	-0.0204**	-0.0579
	(0.0094)	(0.0094)	(0.0094)	(0.0093)	(0.0096)	(0.0382)
Total fleet		2.87×10^{-8}	7.06×10^{-8}	6.82×10^{-8}	6.67×10^{-8}	6.42×10^{-8}
		(9.54×10^{-8})	` ′	(1.87×10^{-7})	(1.86×10^{-7})	(1.8×10^{-7})
Population			-7.75×10^{-8}	-6.56×10^{-8}	-6.39×10^{-8}	7.97×10^{-9}
CIDD :			(3.17×10^{-7})	(3.14×10^{-7})	(3.13×10^{-7})	(2.77×10^{-7})
GDP per capita				-0.0006***	-0.0006*** (0.0002)	-0.0005**
HHI				(0.0002)	3.02×10^{-6}	$ (0.0002) $ $ 4.52 \times 10^{-6} $
11111					(4.75×10^{-6})	(4.71×10^{-6})
Both \times Time FE					(11.0 / 10)	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	$42,\!497$	42,002	41,812	41,718	41,718	41,718
\mathbb{R}^2	0.93289	0.93267	0.93254	0.93277	0.93277	0.93430
Within R ²	0.00088	0.00097	0.00104	0.00235	0.00243	0.02506

Month-Year FE: ws_p_eth



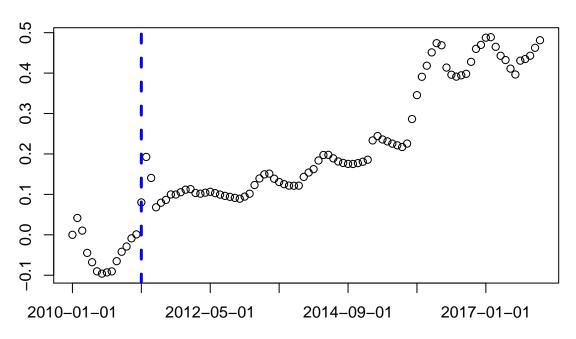
Dependent Variable:			ln(Ga	as retail price)		
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Both$	0.0086***	0.0090***	0.0091***	0.0092***	0.0090***	0.0198***
Total fleet	(0.0022)	$(0.0022) -4.62 \times 10^{-9} $ (1.45×10^{-8})	$(0.0023) 7.11 \times 10^{-8*} (3.65 \times 10^{-8})$	(0.0022) $7.03 \times 10^{-8*}$ (3.64×10^{-8})	$(0.0023) 7.01 \times 10^{-8*} (3.64 \times 10^{-8})$	$(0.0067) 7.46 \times 10^{-8**} (3.72 \times 10^{-8})$
Population		,	$-1.38 \times 10^{-7**}$	$-1.36 \times 10^{-7**}$	$-1.36 \times 10^{-7**}$	$-1.36 \times 10^{-7**}$
GDP per capita			(5.84×10^{-8})	$(5.79 \times 10^{-8}) 5.13 \times 10^{-6} (4.7 \times 10^{-5})$	$(5.8 \times 10^{-8}) 4.77 \times 10^{-6} (4.71 \times 10^{-5})$	(5.61×10^{-8}) 1.32×10^{-5} (4.68×10^{-5})
ННІ				(4.7 × 10)	4.01×10^{-7} (8.26×10^{-7})	5.73×10^{-7} (8.27×10^{-7})
Both \times Time FE					,	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	$52,\!087$	51,458	$51,\!268$	$51,\!174$	$51,\!174$	$51,\!174$
\mathbb{R}^2	0.97493	0.97483	0.97487	0.97486	0.97486	0.97515
Within R^2	0.00468	0.00503	0.00848	0.00859	0.00865	0.01979

Month-Year FE : log(retail_p_gas)



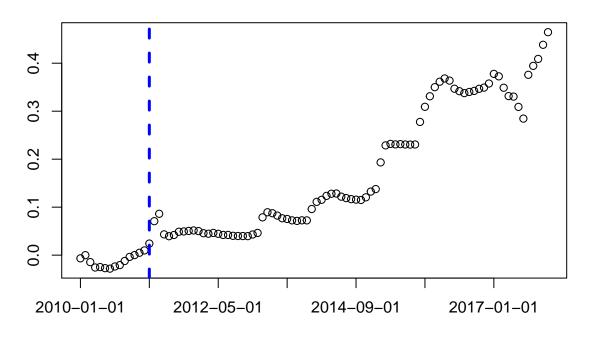
Dependent Variable:	ln(Ethanol retail price)					
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Both$	0.0073*	0.0082**	0.0083**	0.0085**	0.0080**	-0.0197*
	(0.0038)	(0.0037)	(0.0036)	(0.0036)	(0.0037)	(0.0109)
Total fleet		-1.79×10^{-8}	7.23×10^{-8}	7.19×10^{-8}	7.13×10^{-8}	6.45×10^{-8}
Donulation		(2.52×10^{-8})	$(6.6 \times 10^{-8}) \\ -1.64 \times 10^{-7}$	$(6.58 \times 10^{-8}) \\ -1.62 \times 10^{-7}$	$(6.55 \times 10^{-8}) \\ -1.62 \times 10^{-7}$	(6.08×10^{-8}) -1.16×10^{-7}
Population			-1.04×10^{-7} (1.15×10^{-7})		-1.02×10^{-7} (1.14×10^{-7})	(8.89×10^{-8})
GDP per capita			(1.10 × 10)	-8.5×10^{-5}	-8.58×10^{-5}	-5.36×10^{-5}
obi per capita				(7.73×10^{-5})	(7.74×10^{-5})	(7.83×10^{-5})
HHI				,	1.08×10^{-6}	1.48×10^{-6}
					(1.84×10^{-6})	(1.79×10^{-6})
Both \times Time FE						Yes
Fixed-effects						_
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	50,855	$50,\!228$	50,038	49,944	49,944	49,944
\mathbb{R}^2	0.94890	0.94870	0.94866	0.94855	0.94856	0.95101
Within R^2	0.00083	0.00106	0.00230	0.00246	0.00254	0.05016

Month-Year FE : log(retail_p_eth)



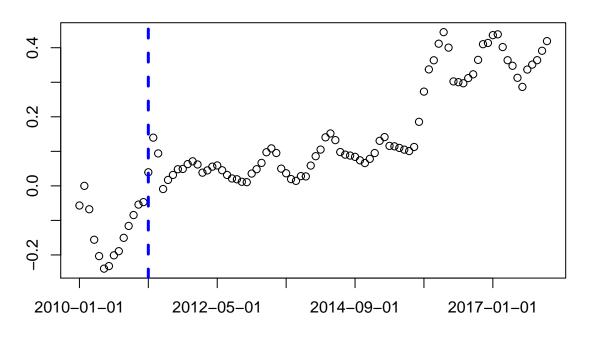
Dependent Variable:		ln(Gas wholesale price)						
Model:	(1)	(2)	(3)	(4)	(5)	(6)		
Variables								
$Merge \times Both$	0.0057***	0.0054***	0.0054***	0.0054***	0.0051***	0.0201***		
	(0.0018)	(0.0018)	(0.0019)	(0.0019)	(0.0019)	(0.0057)		
Total fleet		6.31×10^{-9}	$6.59 \times 10^{-8**}$	$6.52 \times 10^{-8**}$	$6.49 \times 10^{-8**}$	$6.63 \times 10^{-8**}$		
D 1.1		(1.17×10^{-8})	(3.08×10^{-8})	(3.06×10^{-8})	(3.06×10^{-8})	(3.03×10^{-8})		
Population			$-1.09 \times 10^{-7**}$	$-1.08 \times 10^{-7**}$	$-1.07 \times 10^{-7**}$	$-1.14 \times 10^{-7**}$		
GDP per capita			(4.72×10^{-8})	$ (4.68 \times 10^{-8}) $ $ 4.19 \times 10^{-5} $	$ (4.7 \times 10^{-8}) $ $ 4.17 \times 10^{-5} $	(4.72×10^{-8}) 3.8×10^{-5}		
GDI per capita				(6.85×10^{-5})	(6.85×10^{-5})	(6.88×10^{-5})		
ННІ				(0.00 × 10)	5.13×10^{-7}	4.45×10^{-7}		
					(8.09×10^{-7})	(8.23×10^{-7})		
Both \times Time FE					,	Yes		
Fixed-effects								
Municipality	Yes	Yes	Yes	Yes	Yes	Yes		
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes		
Fit statistics								
Observations	46,912	46,346	$46,\!156$	46,062	46,062	46,062		
\mathbb{R}^2	0.97761	0.97779	0.97778	0.97777	0.97777	0.97797		
Within R ²	0.00195	0.00200	0.00445	0.00460	0.00468	0.01349		

Month-Year FE : log(ws_p_gas)



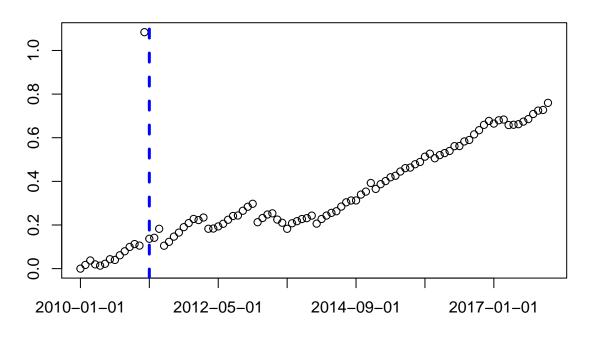
Dependent Variable:	iable: $ln(Ethanol wholesale price)$					
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Both$	0.0029	0.0029	0.0028	0.0028	0.0018	-0.0210
T . 1.0	(0.0044)	(0.0043)	(0.0043)	(0.0043)	(0.0045)	(0.0183)
Total fleet		1.57×10^{-8}	7.46×10^{-8}	7.36×10^{-8}	7.24×10^{-8}	5.84×10^{-8}
Population		(2.79×10^{-8})	$(7.2 \times 10^{-8}) \\ -1.08 \times 10^{-7}$	$(7.2 \times 10^{-8}) \\ -1.06 \times 10^{-7}$	$(7.13 \times 10^{-8}) \\ -1.04 \times 10^{-7}$	$(6.15 \times 10^{-8}) \\ -6.22 \times 10^{-8}$
1 opulation			(1.39×10^{-7})	(1.39×10^{-7})	(1.37×10^{-7})	(1.06×10^{-7})
GDP per capita			()	-1.02×10^{-5}	-1.06×10^{-5}	8.03×10^{-7}
				(9.34×10^{-5})	(9.32×10^{-5})	(9.13×10^{-5})
HHI					2.38×10^{-6}	2.35×10^{-6}
D 41 (T) DD					(2.18×10^{-6})	(2.08×10^{-6})
$\frac{\text{Both} \times \text{Time FE}}{}$						Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	42,497	42,002	41,812	41,718	41,718	41,718
\mathbb{R}^2	0.94278	0.94253	0.94236	0.94232	0.94233	0.94419
Within \mathbb{R}^2	9.81×10^{-5}	0.00023	0.00070	0.00069	0.00093	0.03313

Month-Year FE : log(ws_p_eth)



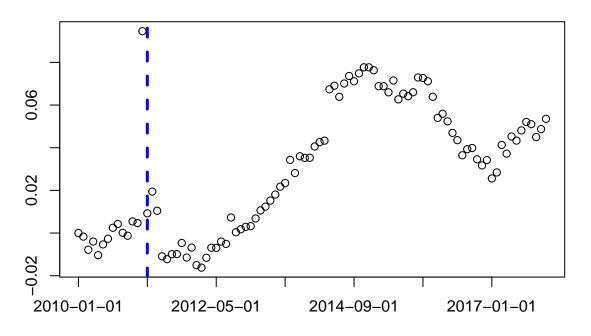
Dependent Variable:	Total number of stations					
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Both$	7.033***	1.874	2.764**	2.710*	2.734**	14.07***
	(2.400)	(2.535)	(1.404)	(1.392)	(1.387)	(4.372)
Total fleet		0.0001	-6.59×10^{-5}	-6.62×10^{-5}	-6.55×10^{-5}	-6.69×10^{-5}
		(7.39×10^{-5})	(5.75×10^{-5})	(5.74×10^{-5})	(5.7×10^{-5})	(5.42×10^{-5})
Population			0.0001^{***}	0.0001^{***}	0.0001^{***}	0.0001^{***}
			(3.96×10^{-5})	(3.95×10^{-5})	(3.91×10^{-5})	(3.45×10^{-5})
GDP per capita				0.0117^{**}	0.0109**	0.0080**
				(0.0051)	(0.0044)	(0.0034)
HHI					-0.0002***	-0.0001***
					(3.45×10^{-5})	(2.43×10^{-5})
Both \times Time FE						Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	511,435	501,706	500,054	499,581	499,581	499,581
\mathbb{R}^2	0.98915	0.99143	0.99563	0.99564	0.99569	0.99604
Within R ²	0.03794	0.23982	0.58424	0.58535	0.58983	0.62330

Month-Year FE: No_st_total



Dependent Variable:	Number of main distributors					
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Both$	-0.3640***	-0.5681***	-0.5367***	-0.5545***	-0.5168***	-0.2591
	(0.1161)	(0.1157)	(0.1017)	(0.0997)	(0.0651)	(189.8)
Total fleet		$4.67 \times 10^{-6***}$	-1.67×10^{-6}	-1.76×10^{-6}	-7.34×10^{-7}	-4.78×10^{-7}
		(1.7×10^{-6})	(2.11×10^{-6})	(2.08×10^{-6})	(1.18×10^{-6})	(6.91×10^{-7})
Population			$5.07 \times 10^{-6**}$	$5.05 \times 10^{-6**}$	2.49×10^{-6} *	$1.67 \times 10^{-6**}$
CDD :4-			(2.53×10^{-6})	(2.51×10^{-6})	(1.4×10^{-6})	(8.24×10^{-7})
GDP per capita				0.0038* (0.0021)	0.0026^{**} (0.0010)	0.0023^{**} (0.0009)
ННІ				(0.0021)	-0.0002***	-0.0002***
11111					(3.22×10^{-6})	(2.89×10^{-6})
Both \times Time FE					,	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	514,060	504,266	502,614	502,134	502,134	502,134
\mathbb{R}^2	0.83473	0.83721	0.84095	0.84190	0.92564	0.92811
Within R ²	0.00499	0.02102	0.04310	0.04838	0.55244	0.56730

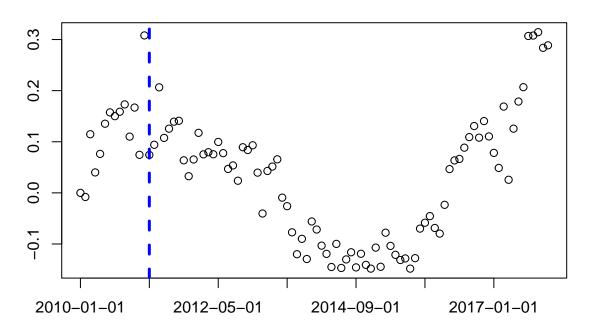
Month-Year FE : Dist_No_main



Dependent Variable:		Number of other distributors						
Model:	(1)	(2)	(3)	(4)	(5)	(6)		
Variables								
$Merge \times Both$	0.4400	0.0188	0.1102	0.1088	0.1211	-2.888		
Total fleet	(0.3534)	(0.3175) 9.36×10^{-6} (6.52×10^{-6})	$(0.2815) -4.79 \times 10^{-6} $ (7.46×10^{-6})	$(0.2799) -4.81 \times 10^{-6} $ (7.45×10^{-6})	$(0.2751) -4.47 \times 10^{-6} (7.22 \times 10^{-6})$	$(696.9) \\ -3.31 \times 10^{-6} \\ (6.17 \times 10^{-6})$		
Population		(0.02 × 10)	$1.13 \times 10^{-5*}$	$1.13 \times 10^{-5*}$	1.05×10^{-5}	$7.78 \times 10^{-6*}$		
•			(6.75×10^{-6})	(6.75×10^{-6})	(6.45×10^{-6})	(4.73×10^{-6})		
GDP per capita				0.0004	-4.57×10^{-5}	-0.0008		
ННІ				(0.0014)	$(0.0013) -7.83 \times 10^{-5***} (1.14 \times 10^{-5})$	$(0.0013) \\ -6.7 \times 10^{-5***} \\ (1.02 \times 10^{-5})$		
Both \times Time FE					,	Yes		
Fixed-effects								
Municipality	Yes	Yes	Yes	Yes	Yes	Yes		
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes		
Fit statistics								
Observations	514,060	$504,\!266$	502,614	$502,\!134$	502,134	502,134		
\mathbb{R}^2	0.83387	0.83517	0.83720	0.83725	0.83850	0.84356		
Within R^2	0.00101	0.00993	0.02529	0.02533	0.03279	0.06311		

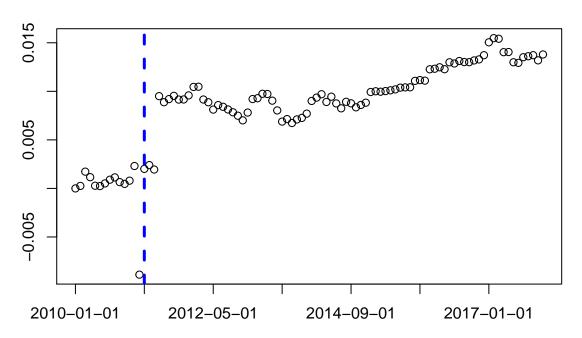
 $\label{lem:clustered} \begin{array}{ll} \textit{Clustered (Municipality) standard-errors in parentheses} \\ \textit{Signif. Codes: ****: 0.01, **: 0.05, *: 0.1} \end{array}$

Month-Year FE : Dist_No_other



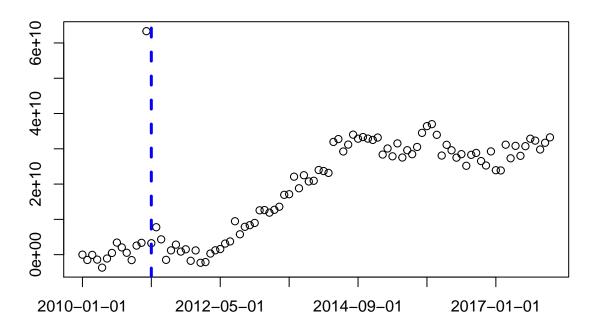
Dependent Variable:		Share of independent stations						
Model:	(1)	(2)	(3)	(4)	(5)	(6)		
Variables								
$Merge \times Both$	-0.0404**	-0.0242	-0.0266	-0.0227	-0.0230	-0.1356*		
	(0.0205)	(0.0198)	$(0.0191)_{-}$	$(0.0187)_{-}$	$(0.0187)_{-}$	(0.0704)		
Total fleet		-3.54×10^{-7}	1.39×10^{-7}	1.6×10^{-7}	1.52×10^{-7}	1.33×10^{-7}		
		(2.31×10^{-7})	(1.42×10^{-7})		(1.34×10^{-7})	(1.36×10^{-7})		
Population			$-4.19 \times 10^{-7***}$	$-4.15 \times 10^{-7***}$	$-3.95 \times 10^{-7***}$	-3.04×10^{-7} *		
CDD:4-			(1.41×10^{-7})	(1.4×10^{-7})	(1.33×10^{-7})	(1.23×10^{-7})		
GDP per capita				-0.0008***	-0.0008***	-0.0008***		
ННІ				(0.0002)	$\begin{array}{c} (0.0002) \\ 1.93 \times 10^{-6} \end{array}$			
11111					(1.37×10^{-6})	(1.36×10^{-6})		
Both \times Time FE					(1.01 / 10)	Yes		
Fixed-effects Municipality	Yes	Yes	Yes	Yes	Yes	Yes		
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes		
	169	165	165	165	165	169		
Fit statistics								
Observations	511,435	501,706	500,054	499,581	499,581	499,581		
\mathbb{R}^2	0.90283	0.90292	0.90345	0.90428	0.90435	0.90472		
Within R ²	0.00122	0.00305	0.00644	0.01138	0.01203	0.01591		

Month-Year FE : Ind_st_sh



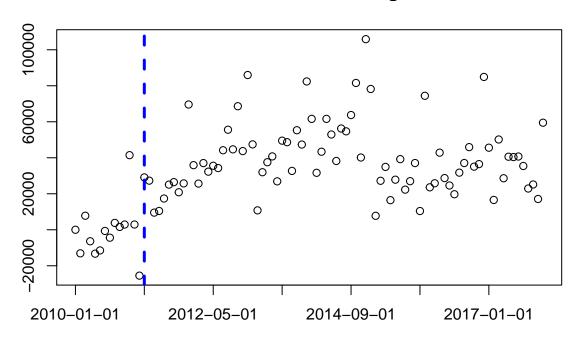
Dependent Variable:	Total volume								
Model:	(1)	(2)	(3)	(4)	(5)				
Variables									
$Merge \times Both$	$-2.2 \times 10^{11**}$	$-3.77 \times 10^{11***}$	$-3.52 \times 10^{11***}$	$-3.64 \times 10^{11***}$	$-3.33 \times 10^{11***}$	-5.0			
	(8.55×10^{10})	(8.59×10^{10})	(7.46×10^{10})	(7.33×10^{10})	(4.41×10^{10})	(1.03)			
Total fleet		3,579,170.0***	-1,322,540.6	-1,381,069.0	$-552,\!262.4$	-41			
		(1,289,212.6)	(1,529,118.9)	(1,511,870.6)	(782,212.1)	(439)			
Population			3,892,992.7**	3,878,116.0**	1,814,267.2*	1,260			
			(1,842,478.2)	(1,833,700.0)	(930, 332.2)	(53)			
GDP per capita				-2,147,483,648.3	1,410,897,484.9**	1,236,1			
11111				(1,501,316,336.0)	(620,675,475.7)	(575,0			
HHI					-193,043,881.1***	-190,81			
Both \times Time FE					(1,825,711.2)	(1,49			
Fixed-effects									
Municipality	Yes	Yes	Yes	Yes	Yes				
Month-Year	Yes	Yes	Yes	Yes	Yes				
Fit statistics									
Observations	514,060	504,266	502,614	502,134	502,134	50			
\mathbb{R}^2	0.83287	0.83591	0.84033	0.84112	0.95200	0.			
Within \mathbb{R}^2	0.00366	0.02268	0.04855	0.05286	0.71385	0.			

Month-Year FE : Vol_tot



Dependent Variable:	ble: Gas volume					
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Both$	1,982,175.2***	644,487.6**	705,628.3***	703,728.4***	704,027.2***	-387,072
	(337,277.0)	(285,110.0)	(198,271.8)	(197,774.5)	(197,784.1)	(151,667,998.9)
Total fleet		30.23***	17.35***	17.33***	17.34***	18.07***
D 1.4		(5.781)	(4.841)	(4.836)	(4.834)	(5.150)
Population			9.824***	9.823***	9.803***	9.741***
CDD non conito			(2.011)	(2.008) $437.6*$	(2.005) 428.0^*	(2.129)
GDP per capita				(259.2)	(251.4)	551.0^* (282.8)
HHI				(209.2)	-1.901	-2.016*
11111					(1.324)	(1.130)
Both \times Time FE					(-)	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	514,060	504,266	502,614	502,134	502,134	502,134
\mathbb{R}^2	0.97798	0.98706	0.98832	0.98832	0.98832	0.98879
Within R ²	0.08389	0.46161	0.49438	0.49445	0.49447	0.51489

Month-Year FE : Vol_gas

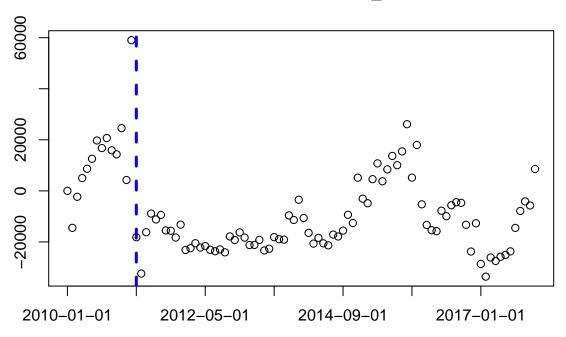


Dependent Variable:			nol volume	ol volume			
Model:	(1)	(2)	(3)	(4)	(5)	(6)	
Variables							
$Merge \times Both$	33,449.9	-384,579.8***	-380,537.6***	-383,323.2***	-382,790.5***	-425,312	
	(145, 367.1)	(120,682.7)	(125,790.8)	(125,797.2)	(125,811.4)	(148,916,209.8)	
Total fleet		9.371***	8.617***	8.604***	8.618***	7.354**	
		(2.001)	(3.320)	(3.320)	(3.318)	(3.301)	
Population			0.5469	0.5425	0.5063	0.2396	
CDD .			(1.926)	(1.924)	(1.921)	(1.582)	
GDP per capita				590.5**	573.3**	215.0	
TITIT				(293.5)	(281.2)	(149.8)	
HHI					-3.389** (1.500)	-1.579	
Both \times Time FE					(1.599)	$\begin{array}{c} (0.9884) \\ \text{Yes} \end{array}$	
Fixed-effects	3.7	***	***	T 7	T 7	37	
Municipality	Yes	Yes	Yes	Yes	Yes	Yes	
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes	
$Fit\ statistics$							
Observations	514,060	$504,\!266$	502,614	$502,\!134$	$502,\!134$	502,134	
\mathbb{R}^2	0.94983	0.95302	0.95304	0.95304	0.95305	0.95551	
Within R ²	4.2×10^{-5}	0.06377	0.06119	0.06131	0.06141	0.11064	

 ${\it Clustered~(Municipality)~standard\text{-}errors~in~parentheses}$

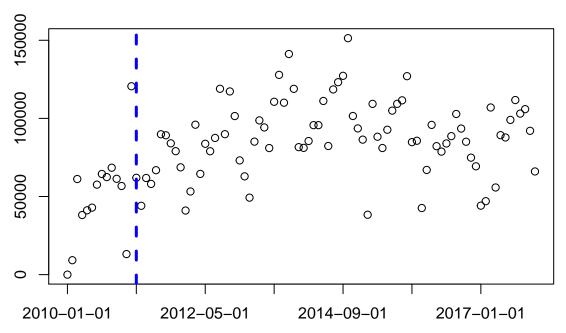
Signif. Codes: ***: 0.01, **: 0.05, *: 0.1

Month-Year FE : Vol_eth



Dependent Variable:	: Diesel volume						
Model:	(1)	(2)	(3)	(4)	(5)	(6)	
Variables							
$Merge \times Both$	863,196.8***	507,758.7***	554,914.6***	546,481.7***	549,744.2***	$-1,\!376,\!372$	
	(214,957.5)	(153,770.0)	(115,564.7)	(114,483.8)	(113,656.8)	(149,649,146.9)	
Total fleet		8.068*	-1.229	-1.275	-1.186	-0.7846	
		(4.676)	(3.226)	(3.205)	(3.152)	(2.851)	
Population			6.748**	6.737**	6.515**	5.604**	
CDD			(2.915)	(2.907)	(2.836)	(2.262)	
GDP per capita				1,827.5**	1,722.4**	1,466.9**	
ННІ				(901.4)	(812.5) -20.75***	(720.8) -17.20***	
11111					(4.053)	(3.591)	
Both \times Time FE					(4.000)	Yes	
Fixed-effects							
Municipality	Yes	Yes	Yes	Yes	Yes	Yes	
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes	
Fit statistics							
Observations	514,060	504,266	502,614	502,134	502,134	502,134	
\mathbb{R}^2	0.93604	0.94178	0.94872	0.94889	0.94935	0.95252	
Within \mathbb{R}^2	0.05143	0.13888	0.19656	0.19908	0.20632	0.25601	

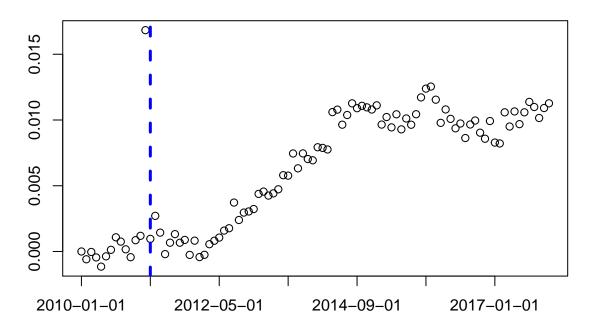
Month-Year FE : Vol_dies



Dependent Variable:	ln(Total volume)					
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Both$	-0.0169	-0.1056**	-0.0917**	-0.0975**	-0.0726***	-0.0959
	(0.0440)	(0.0456)	(0.0389)	(0.0383)	(0.0119)	(32.74)
Total fleet		$2.03 \times 10^{-6***}$	-7.94×10^{-7}	-8.24×10^{-7}	-1.43×10^{-7}	-9.91×10^{-8}
Population		(7.26×10^{-7})	(8.39×10^{-7}) $2.23 \times 10^{-6**}$	(8.31×10^{-7}) $2.23 \times 10^{-6**}$	$(2.24 \times 10^{-7}) 5.3 \times 10^{-7**}$	(1.34×10^{-7}) $3.82 \times 10^{-7**}$
GDP per capita			(1.02×10^{-6})	(1.01×10^{-6}) 0.0012	(2.63×10^{-7}) $0.0004**$	(1.59×10^{-7}) 0.0004^{**}
ННІ				(0.0009)	(0.0002) -0.0002***	(0.0002) -0.0002***
Both \times Time FE					(5.72×10^{-7})	(4.94×10^{-7}) Yes
$Fixed\mbox{-}effects$						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	514,060	$504,\!266$	$502,\!614$	$502,\!134$	$502,\!134$	$502,\!134$
\mathbb{R}^2	0.80553	0.80778	0.81130	0.81184	0.98858	0.98897
Within R^2	4.4×10^{-5}	0.01252	0.02966	0.03203	0.94124	0.94324

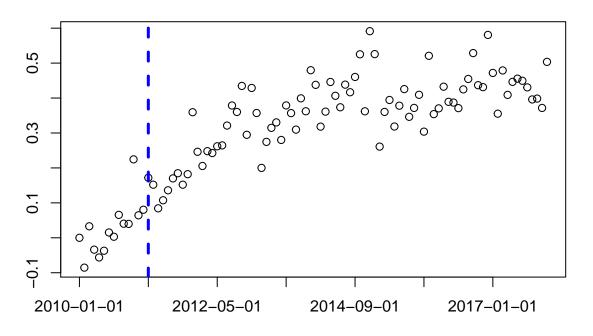
 $\label{lem:clustered} Clustered~(Municipality)~standard\text{-}errors~in~parentheses\\ Signif.~Codes:~***:~0.01,~**:~0.05,~*:~0.1$

Month-Year FE : log(Vol_tot)



Dependent Variable:		ln(Gas volume)						
Model:	(1)	(2)	(3)	(4)	(5)	(6)		
Variables								
$Merge \times Both$	0.5874***	0.2152	0.2694^{***}	0.2534***	0.2650^{***}	0.5544		
	(0.1300)	(0.1359)	(0.0916)	(0.0894)	(0.0794)	(148.8)		
Total fleet		$8.43 \times 10^{-6***}$	-2.65×10^{-6}	-2.73×10^{-6}	-2.42×10^{-6}	-2.03×10^{-6}		
D 1		(3.02×10^{-6})	(2.91×10^{-6})	(2.88×10^{-6})	(2.62×10^{-6})	(2.19×10^{-6})		
Population			$8.79 \times 10^{-6***}$ (3.35×10^{-6})	$8.77 \times 10^{-6***}$ (3.33×10^{-6})	$7.99 \times 10^{-6***}$ (3.01×10^{-6})	$7.16 \times 10^{-6***}$ (2.55×10^{-6})		
GDP per capita			(3.33×10^{-4})	(3.33×10^{-4}) 0.0034^{***}	(3.01×10^{-4}) 0.0030^{***}	(2.33×10^{-4}) 0.0028^{***}		
GD1 pc1 capita				(0.0010)	(0.0007)	(0.0023)		
ННІ				(0.0010)	$-7.33 \times 10^{-5***}$	$-7 \times 10^{-5***}$		
					(5.22×10^{-6})	(4.6×10^{-6})		
Both \times Time FE						Yes		
Fixed-effects								
Municipality	Yes	Yes	Yes	Yes	Yes	Yes		
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes		
Fit statistics								
Observations	$513,\!261$	503,531	501,879	501,399	501,399	501,399		
\mathbb{R}^2	0.92898	0.93480	0.94273	0.94319	0.94873	0.95044		
Within R^2	0.02093	0.10597	0.21032	0.21729	0.29359	0.31712		

Month-Year FE : log(Vol_gas)

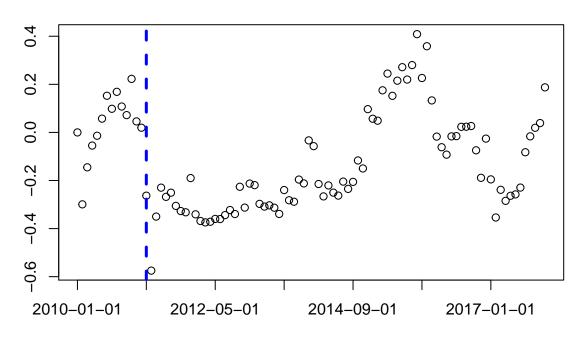


Dependent Variable:		ln(Ethanol volume)					
Model:	(1)	(2)	(3)	(4)	(5)	(6)	
Variables							
$Merge \times Both$	0.3705***	0.0779	0.1257	0.1105	0.1394	1.443***	
	(0.1358)	(0.1274)	(0.0949)	(0.0935)	(0.0900)	(0.3411)	
Total fleet		$7.34 \times 10^{-6**}$	-1.54×10^{-6}	-1.61×10^{-6}	-1.38×10^{-6}	-1.14×10^{-6}	
		(2.97×10^{-6})	(2.86×10^{-6})	(2.83×10^{-6})	(2.64×10^{-6})	(2.13×10^{-6})	
Population			$7.49 \times 10^{-6**}$	$7.46 \times 10^{-6**}$	$6.87 \times 10^{-6**}$	$5.94 \times 10^{-6**}$	
CDD			(3.46×10^{-6})	(3.44×10^{-6})	(3.19×10^{-6})	(2.59×10^{-6})	
GDP per capita				0.0040***	0.0036***	0.0032***	
ННІ				(0.0011)	$(0.0010) \\ -6.5 \times 10^{-5***}$	$(0.0009) \\ -6.2 \times 10^{-5***}$	
11111					(7.08×10^{-6})	(6.61×10^{-6})	
Both \times Time FE					(1.00 / 10)	Yes	
Fixed-effects							
Municipality	Yes	Yes	Yes	Yes	Yes	Yes	
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes	
Fit statistics							
Observations	402,301	$394,\!550$	393,247	392,895	$392,\!895$	392,895	
\mathbb{R}^2	0.90039	0.90389	0.90876	0.90916	0.91170	0.91377	
Within R ²	0.00503	0.04166	0.08306	0.08690	0.11250	0.13323	

 ${\it Clustered~(Municipality)~standard\text{-}errors~in~parentheses}$

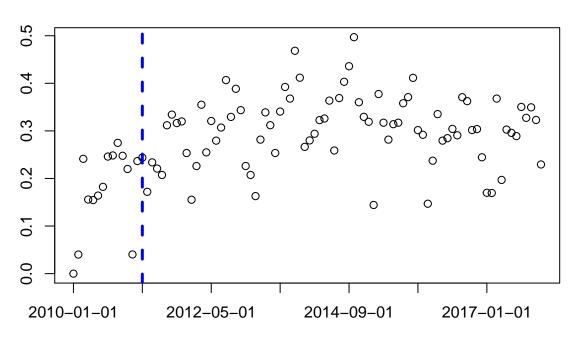
Signif. Codes: ***: 0.01, **: 0.05, *: 0.1

Month-Year FE : log(Vol_eth)



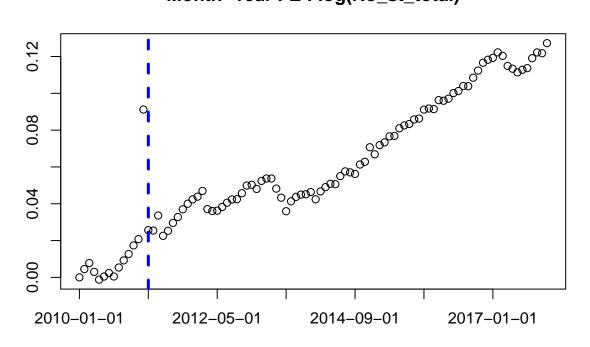
Dependent Variable:		ln(Diesel volume)					
Model:	(1)	(2)	(3)	(4)	(5)	(6)	
Variables							
$Merge \times Both$	0.6294***	0.3038**	0.3505***	0.3302***	0.3448***	1.562^{***}	
	(0.1354)	(0.1347)	(0.1031)	(0.1007)	(0.0889)	(0.2543)	
Total fleet		$7.49 \times 10^{-6***}$	-1.91×10^{-6}	-2.02×10^{-6}	-1.63×10^{-6}	-1.35×10^{-6}	
D 1		(2.75×10^{-6})	(2.64×10^{-6})	(2.6×10^{-6})	(2.28×10^{-6})	(1.69×10^{-6})	
Population			$7.4 \times 10^{-6**}$ (3.01×10^{-6})	$7.37 \times 10^{-6**}$ (2.99×10^{-6})	$6.41 \times 10^{-6**}$ (2.59×10^{-6})	$5.41 \times 10^{-6***}$ (1.93×10^{-6})	
GDP per capita			(3.01×10^{-4})	(2.99×10^{-4}) 0.0044^*	(2.59×10^{-4}) 0.0039^*	(1.93×10^{-4}) 0.0036^*	
ODI per capita				(0.0024)	(0.0020)	(0.0019)	
HHI				(0.0021)	$-9.04 \times 10^{-5***}$	$-8.63 \times 10^{-5***}$	
					(6.06×10^{-6})	(5.61×10^{-6})	
Both \times Time FE						Yes	
Fixed-effects							
Municipality	Yes	Yes	Yes	Yes	Yes	Yes	
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes	
Fit statistics							
Observations	508,938	$499,\!274$	497,630	$497,\!150$	$497,\!150$	497,150	
\mathbb{R}^2	0.90550	0.90900	0.91351	0.91418	0.92084	0.92293	
Within R ²	0.01449	0.05458	0.09708	0.10411	0.17361	0.19539	

Month-Year FE : log(Vol_dies)



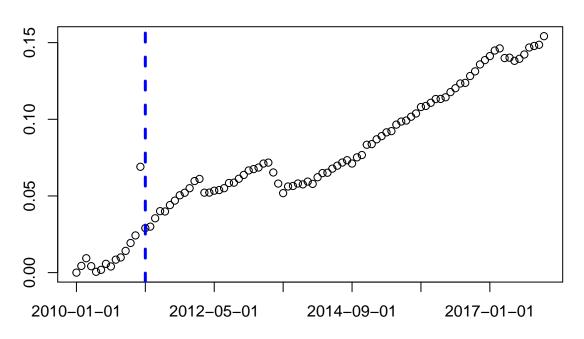
Dependent Variable:		ln(Total number of stations)					
Model:	(1)	(2)	(3)	(4)	(5)	(6)	
Variables							
$Merge \times Both$	0.4109***	0.1366	0.1745**	0.1655**	0.1726***	0.9002***	
	(0.0982)	(0.0980)	(0.0684)	(0.0670)	(0.0606)	(0.2013)	
Total fleet		$6.21 \times 10^{-6***}$	-1.48×10^{-6}	-1.53×10^{-6}	-1.34×10^{-6}	-1.19×10^{-6}	
D 1		(2.22×10^{-6})	(2.19×10^{-6})	(2.17×10^{-6})	(2.02×10^{-6})	(1.66×10^{-6})	
Population			$6.04 \times 10^{-6**}$	$6.03 \times 10^{-6**}$	$5.55 \times 10^{-6**}$	$4.95 \times 10^{-6***}$	
GDP per capita			(2.47×10^{-6})	(2.46×10^{-6}) 0.0019^{***}	$(2.27 \times 10^{-6}) \\ 0.0017^{***}$	$(1.91 \times 10^{-6}) \\ 0.0015^{***}$	
GDI per capita				(0.0006)	(0.0017)	(0.0013)	
HHI				(0.0000)	$-4.5 \times 10^{-5***}$	$-4.25 \times 10^{-5***}$	
					(3.53×10^{-6})	(3.02×10^{-6})	
Both \times Time FE					,	Yes	
Fixed-effects							
Municipality	Yes	Yes	Yes	Yes	Yes	Yes	
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes	
Fit statistics							
Observations	511,435	501,706	500,054	499,581	499,581	499,581	
\mathbb{R}^2	0.93025	0.93712	0.94570	0.94605	0.95065	0.95282	
Within R ²	0.02315	0.12638	0.23568	0.24091	0.30561	0.33608	

Month-Year FE : log(No_st_total)



Dependent Variable:			ln(Number o	f independent sta	ations)	
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Both$	0.1946**	0.0521	0.0793	0.0809	0.0857	0.5049*
	(0.0780)	(0.0731)	(0.0587)	(0.0585)	(0.0582)	(0.2646)
Total fleet		$3.54 \times 10^{-6**}$	-6.64×10^{-7}	-6.63×10^{-7}	-6.11×10^{-7}	-5.72×10^{-7}
D 1.0		(1.62×10^{-6})	(1.3×10^{-6})		(1.27×10^{-6})	(1.12×10^{-6})
Population			$3.62 \times 10^{-6***}$ (1.41×10^{-6})	$3.62 \times 10^{-6**}$ (1.41×10^{-6})	$3.49 \times 10^{-6**}$ (1.36×10^{-6})	$3.22 \times 10^{-6***}$ (1.16×10^{-6})
GDP per capita			(1.41 × 10)	-0.0003	$(1.30 \times 10^{\circ})$ -0.0004	-0.0005
GD1 per capita				(0.0004)	(0.0004)	(0.0004)
ННІ				(0.000-)	$-1.53 \times 10^{-5***}$	$-1.41 \times 10^{-5***}$
					(2.78×10^{-6})	(2.66×10^{-6})
Both \times Time FE						Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	$422,\!493$	414,398	413,103	$412,\!656$	412,656	$412,\!656$
\mathbb{R}^2	0.92050	0.92352	0.92798	0.92807	0.92880	0.92974
Within R ²	0.00711	0.04992	0.10834	0.10867	0.11768	0.12930

Month-Year FE : log(No_st_Unbranded)



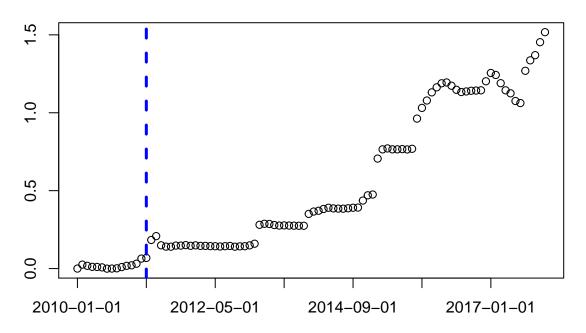
Both as treatment, None as control

Dependent Variable:			Gas	retail price		
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Both$	0.0114	0.0155*	0.0155^*	0.0162^*	0.0173^{*}	0.0513
	(0.0090)	(0.0091)	(0.0094)	$(0.0094)_{-}$	(0.0099)	(0.0346)
Total fleet		-8.82×10^{-8}	1.39×10^{-7}	1.4×10^{-7}	1.41×10^{-7}	1.95×10^{-7}
D 1.4		(5.46×10^{-8})	(1.39×10^{-7})		(1.4×10^{-7})	
Population			-4.11×10^{-7}		-4.11×10^{-7}	$-4.53 \times 10^{-7**}$
CDP per cenite			(2.18×10^{-4})	(2.2×10^{-7}) -0.0003*	(2.19×10^{-7}) -0.0003^*	$(2.09 \times 10^{-7}) \\ -0.0002$
GDP per capita				(0.0003)	(0.0003)	(0.0002)
HHI				(0.0002)	-1.63×10^{-6}	1.42×10^{-6}
					(3.65×10^{-6})	(3.72×10^{-6})
Both \times Time FE					,	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	35,248	34,878	34,782	34,782	34,782	34,782
\mathbb{R}^2	0.97222	0.97219	0.97230	0.97233	0.97233	0.97306
Within \mathbb{R}^2	0.00063	0.00252	0.00618	0.00715	0.00724	0.03338

Clustered (Municipality) standard-errors in parentheses

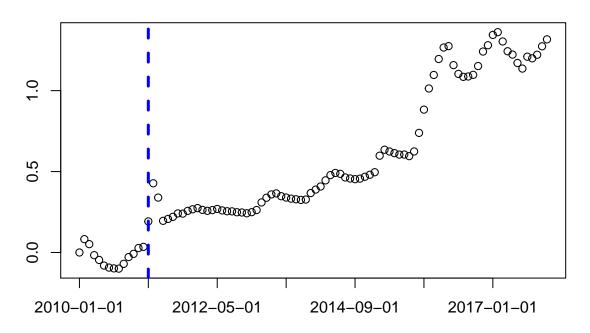
Signif. Codes: ***: 0.01, **: 0.05, *: 0.1

Month-Year FE : retail_p_gas



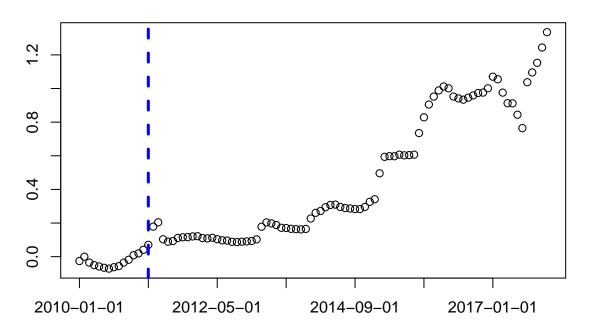
Dependent Variable:	Ethanol retail price					
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Both$	-0.0301**	-0.0238*	-0.0234*	-0.0218*	-0.0219	-0.1236***
	(0.0134)	(0.0132)	(0.0131)	(0.0131)	(0.0136)	(0.0422)
Total fleet		-1.52×10^{-7} *	-5.03×10^{-8}	-4.7×10^{-8}	-4.71×10^{-8}	8.12×10^{-9}
		(8.47×10^{-8})	(2.13×10^{-7})	(2.13×10^{-7})	(2.13×10^{-7})	(2.08×10^{-7})
Population			-1.83×10^{-7}	-1.81×10^{-7}	-1.8×10^{-7}	-1.51×10^{-7}
CDD			(3.27×10^{-7})	(3.23×10^{-7})	(3.23×10^{-7})	(2.87×10^{-7})
GDP per capita				-0.0009***	-0.0009***	-0.0007**
HHI				(0.0003)	$ (0.0003) $ $1.37 \times 10^{-7} $	$ (0.0003) \\ 6.83 \times 10^{-6} $
11111					(4.97×10^{-6})	(5.25×10^{-6})
Both \times Time FE					(4.57 × 10)	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	$34{,}142$	33,774	33,678	33,678	33,678	33,678
\mathbb{R}^2	0.93946	0.93946	0.93947	0.93965	0.93965	0.94356
Within R ²	0.00170	0.00360	0.00383	0.00679	0.00679	0.07110

Month-Year FE : retail_p_eth



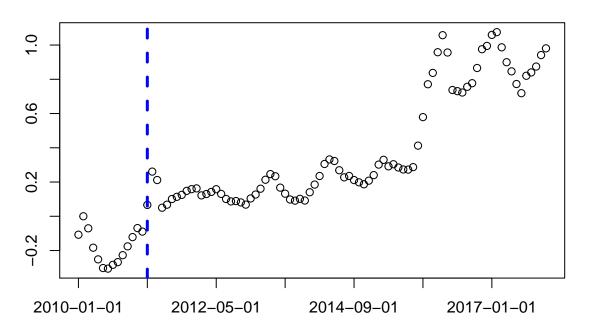
Dependent Variable:	Gas wholesale price						
Model:	(1)	(2)	(3)	(4)	(5)	(6)	
Variables							
$Merge \times Both$	0.0109	0.0102	0.0103	0.0106	0.0099	0.0970^{***}	
	(0.0072)	(0.0074)	$(0.0077)_{-}$	(0.0077)	(0.0079)	$(0.0276)_{-}$	
Total fleet		2.24×10^{-9}	1.83×10^{-7}	1.83×10^{-7}	1.82×10^{-7}	$1.99 \times 10^{-7*}$	
		(4.88×10^{-8})	(1.15×10^{-7})	(1.15×10^{-7})	(1.16×10^{-7})	(1.16×10^{-7})	
Population			$-3.28 \times 10^{-7**}$	$-3.27 \times 10^{-7**}$	$-3.27 \times 10^{-7**}$	$-3.6 \times 10^{-7**}$	
CDD non conita			(1.58×10^{-7})	$(1.58 \times 10^{-7}) \\ -9.92 \times 10^{-5}$	$(1.59 \times 10^{-7}) \\ -0.0001$	$(1.57 \times 10^{-7}) -9.08 \times 10^{-5}$	
GDP per capita				-9.92×10 (0.0002)	(0.0001)	$-9.08 \times 10^{-9.08}$ (0.0002)	
ННІ				(0.0002)	1.04×10^{-6}	1.78×10^{-6}	
11111					(2.72×10^{-6})	(2.78×10^{-6})	
Both \times Time FE					,	Yes	
Fixed-effects							
Municipality	Yes	Yes	Yes	Yes	Yes	Yes	
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes	
Fit statistics							
Observations	31,871	$31,\!545$	31,449	31,449	31,449	31,449	
\mathbb{R}^2	0.97637	0.97662	0.97667	0.97668	0.97668	0.97699	
Within R ²	0.00067	0.00059	0.00447	0.00461	0.00465	0.01810	

Month-Year FE: ws_p_gas



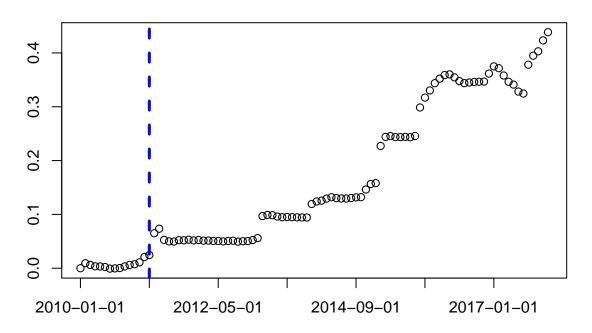
Dependent Variable:	Ethanol wholesale price							
Model:	(1)	(2)	(3)	(4)	(5)	(6)		
Variables								
$Merge \times Both$	-0.0379***	-0.0369***	-0.0366***	-0.0349**	-0.0391***	-0.1037^*		
	(0.0137)	(0.0137)	(0.0138)	(0.0136)	(0.0141)	(0.0534)		
Total fleet		3.46×10^{-9}	1.05×10^{-8}	1.26×10^{-8}	1.02×10^{-8}	1.99×10^{-8}		
		(8.82×10^{-8})	(1.89×10^{-7})	(1.89×10^{-7})	(1.87×10^{-7})	(1.76×10^{-7})		
Population			-1.22×10^{-8}	-1.05×10^{-8}	-7.37×10^{-9}	3.91×10^{-8}		
CDD			(3.23×10^{-7})	(3.21×10^{-7})	(3.17×10^{-7})	(2.73×10^{-7})		
GDP per capita				-0.0007***	-0.0007***	-0.0006**		
ННІ				(0.0002)	$\begin{array}{c} (0.0002) \\ 6.67 \times 10^{-6} \end{array}$	$(0.0002) \\ 1.04 \times 10^{-5**}$		
11111					(5.33×10^{-6})	(5.03×10^{-6})		
Both \times Time FE					(0.00 × 10)	Yes		
Fixed-effects								
Municipality	Yes	Yes	Yes	Yes	Yes	Yes		
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes		
Fit statistics								
Observations	28,776	28,521	28,425	28,425	28,425	28,425		
R ²	0.93675	0.93665	0.93653	0.93669	0.93672	0.93908		
Within R ²	0.00249	0.00232	0.00229	0.00477	0.00516	0.04223		

Month-Year FE: ws_p_eth



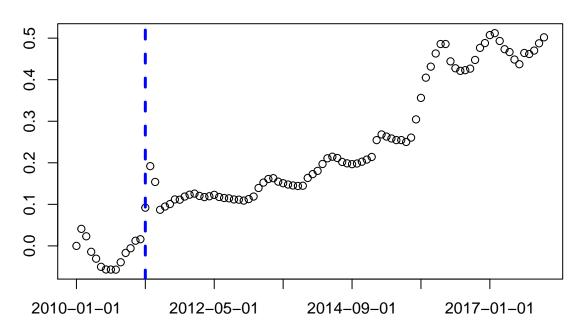
Dependent Variable:	ln(Gas retail price)							
Model:	(1)	(2)	(3)	(4)	(5)	(6)		
Variables								
$Merge \times Both$	0.0133***	0.0139***	0.0139***	0.0139***	0.0138***	0.0314***		
	(0.0029)	(0.0029)	(0.0030)	(0.0030)	(0.0031)	(0.0085)		
Total fleet		-2.9×10^{-9}	$6.46 \times 10^{-8*}$	$6.46 \times 10^{-8*}$	$6.45 \times 10^{-8*}$	$7.08 \times 10^{-8*}$		
D 1.11		(1.51×10^{-8})	(3.64×10^{-8})	(3.64×10^{-8})	(3.64×10^{-8})	(3.75×10^{-8})		
Population			$-1.22 \times 10^{-7**}$	$-1.22 \times 10^{-7**}$	$-1.22 \times 10^{-7**}$	$-1.27 \times 10^{-7**}$		
GDP per capita			(5.54×10^{-8})	(5.54×10^{-8}) 3.58×10^{-6}	(5.54×10^{-8}) 3.24×10^{-6}	(5.39×10^{-8}) 1.39×10^{-5}		
GDI per capita				(4.67×10^{-5})	(4.67×10^{-5})	(4.74×10^{-5})		
HHI				(1.07 × 10)	2.29×10^{-7}	5.36×10^{-7}		
					(9.77×10^{-7})	(9.85×10^{-7})		
Both \times Time FE					,	Yes		
Fixed-effects								
Municipality	Yes	Yes	Yes	Yes	Yes	Yes		
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes		
Fit statistics								
Observations	35,248	34,878	34,782	34,782	34,782	34,782		
\mathbb{R}^2	0.97520	0.97511	0.97517	0.97517	0.97517	0.97552		
Within R^2	0.01002	0.01080	0.01464	0.01464	0.01466	0.02845		

Month-Year FE : log(retail_p_gas)



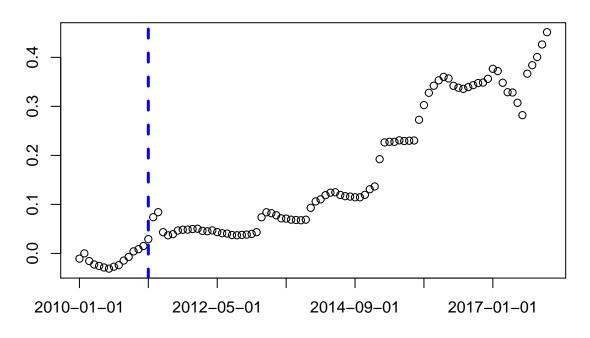
Dependent Variable:	ln(Ethanol retail price)							
Model:	(1)	(2)	(3)	(4)	(5)	(6)		
Variables								
$Merge \times Both$	0.0126**	0.0139**	0.0139***	0.0141***	0.0132**	-0.0245		
TD + 1.0 +	(0.0054)	(0.0054)	(0.0052)	(0.0052)	(0.0054)	(0.0156)		
Total fleet		-2.63×10^{-8} (2.61×10^{-8})	5.74×10^{-8} (6.8×10^{-8})	5.78×10^{-8} (6.78×10^{-8})	$5.72 \times 10^{-8} $ (6.74×10^{-8})	5.61×10^{-8} (6.06×10^{-8})		
Population		(2.01 × 10)	(0.8×10^{-7}) -1.52×10^{-7}	(0.78×10^{-7}) -1.51×10^{-7}	(0.74×10^{-7}) -1.51×10^{-7}	(0.00×10^{-7}) -1.14×10^{-7}		
1 opulation			(1.21×10^{-7})		(1.19×10^{-7})	(8.87×10^{-8})		
GDP per capita			,	-0.0001	-0.0001	-5.46×10^{-5}		
				(8.37×10^{-5})	(8.4×10^{-5})	(8.72×10^{-5})		
HHI					1.31×10^{-6}	2.24×10^{-6}		
Both \times Time FE					(2.02×10^{-6})	(1.94×10^{-6})		
Both × 11me FE						Yes		
Fixed-effects								
Municipality	Yes	Yes	Yes	Yes	Yes	Yes		
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes		
Fit statistics								
Observations	34,142	33,774	33,678	33,678	33,678	33,678		
\mathbb{R}^2	0.94968	0.94952	0.94953	0.94954	0.94955	0.95325		
Within R ²	0.00210	0.00269	0.00417	0.00446	0.00459	0.07754		

Month-Year FE : log(retail_p_eth)



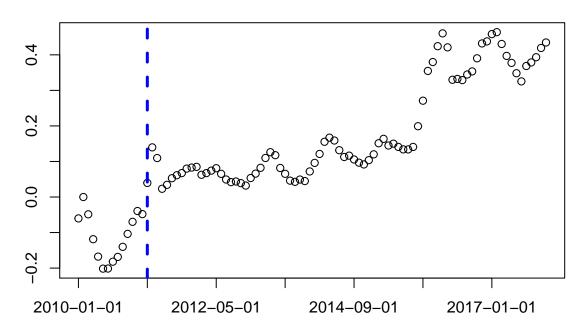
Dependent Variable:		ln(Gas wholesale price)							
Model:	(1)	(2)	(3)	(4)	(5)	(6)			
Variables									
$Merge \times Both$	0.0084***	0.0079***	0.0079^{***}	0.0078***	0.0073**	0.0378***			
	(0.0027)	(0.0027)	(0.0028)	(0.0028)	(0.0029)	(0.0083)			
Total fleet		7.13×10^{-9}	$6.51 \times 10^{-8**}$	$6.49 \times 10^{-8**}$	$6.45 \times 10^{-8**}$	$6.61 \times 10^{-8**}$			
D 1.1		(1.21×10^{-8})	$(3.19 \times 10^{-8}) \\ -1.05 \times 10^{-7**}$	$(3.18 \times 10^{-8}) \\ -1.05 \times 10^{-7**}$	(3.19×10^{-8}) $-1.05 \times 10^{-7**}$	$(3.15 \times 10^{-8}) \\ -1.13 \times 10^{-7**}$			
Population			-1.05×10^{-8} (4.74×10^{-8})	-1.05×10^{-8} (4.72×10^{-8})	-1.05×10^{-8} (4.76×10^{-8})	-1.13×10^{-8} (4.77×10^{-8})			
GDP per capita			(4.74 × 10)	(4.72×10^{-5}) 5.19×10^{-5}	(4.70×10^{-5}) 5.14×10^{-5}	4.39×10^{-5}			
GD1 per capita				(7.75×10^{-5})	(7.76×10^{-5})	(7.68×10^{-5})			
HHI				(* * * * * * * * * * * * * * * * * * *	7.01×10^{-7}	6.2×10^{-7}			
					(8.95×10^{-7})	(9.09×10^{-7})			
Both \times Time FE						Yes			
Fixed-effects									
Municipality	Yes	Yes	Yes	Yes	Yes	Yes			
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes			
Fit statistics									
Observations	31,871	$31,\!545$	31,449	31,449	31,449	31,449			
\mathbb{R}^2	0.97876	0.97911	0.97912	0.97913	0.97913	0.97943			
Within R ²	0.00343	0.00340	0.00688	0.00722	0.00738	0.02172			

Month-Year FE : log(ws_p_gas)



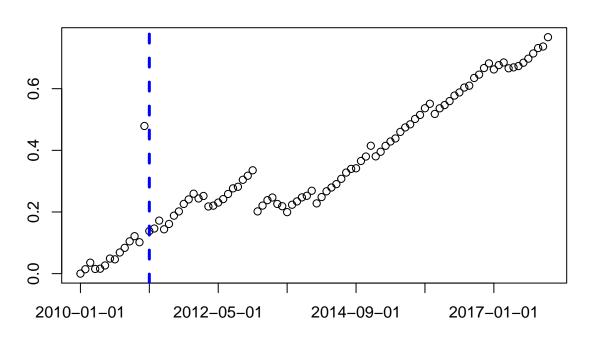
Dependent Variable:			ln(Ethanol v	vholesale price)		
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Both$	-0.0007	-0.0006	-0.0007	-0.0005	-0.0033	-0.0354
	(0.0068)	(0.0068)	(0.0066)	(0.0066)	(0.0069)	(0.0257)
Total fleet		6.48×10^{-9}	6.97×10^{-8}	6.98×10^{-8}	6.83×10^{-8}	5.53×10^{-8}
		(2.69×10^{-8})	(7.3×10^{-8})	(7.29×10^{-8})	(7.15×10^{-8})	(5.94×10^{-8})
Population			-1.15×10^{-7}	-1.15×10^{-7}	-1.13×10^{-7}	-6.97×10^{-8}
CDD '			(1.42×10^{-7})	`	(1.38×10^{-7})	(1.01×10^{-7})
GDP per capita				-4.86×10^{-5} (9.02 × 10 ⁻⁵)	-5.18×10^{-5} (9.03 × 10 ⁻⁵)	-3.15×10^{-5} (8.79×10^{-5})
ННІ				(9.02×10^{-4})	(9.03×10^{-6}) 4.45×10^{-6}	(8.79×10^{-6}) 4.25×10^{-6}
11111					(2.63×10^{-6})	(2.27×10^{-6})
Both \times Time FE					(2.00 / 10)	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	28,776	28,521	28,425	28,425	28,425	28,425
\mathbb{R}^2	0.94640	0.94628	0.94618	0.94619	0.94623	0.94874
Within R ²	3.55×10^{-6}	2.79×10^{-5}	0.00085	0.00090	0.00175	0.04836

Month-Year FE : log(ws_p_eth)



Dependent Variable:	Total number of stations							
Model:	(1)	(2)	(3)	(4)	(5)	(6)		
Variables								
$Merge \times Both$	6.404***	2.578	1.460	1.414	1.440	6.118*		
	(2.423)	(2.451)	(0.8904)	(0.8825)	(0.8859)	(3.224)		
Total fleet		8.77×10^{-5}	-0.0002***	-0.0002***	-0.0002***	-0.0002***		
Population		(7.81×10^{-5})	(2.83×10^{-5}) 0.0003^{***} (2.34×10^{-5})	$(2.82 \times 10^{-5}) 0.0003^{***} (2.34 \times 10^{-5})$	$(2.82 \times 10^{-5}) 0.0003^{***} (2.35 \times 10^{-5})$	$(2.76 \times 10^{-5}) 0.0003^{***} (2.41 \times 10^{-5})$		
GDP per capita			(2.34 × 10)	$ \begin{array}{c} (2.54 \times 10^{\circ}) \\ 0.0097^{***} \\ (0.0034) \end{array} $	0.0093^{***} (0.0033)	0.0076^{**} (0.0029)		
HHI				(0.0001)	$-6.6 \times 10^{-5***}$			
					(1.58×10^{-5})	(1.49×10^{-5})		
Both \times Time FE						Yes		
Fixed-effects								
Municipality	Yes	Yes	Yes	Yes	Yes	Yes		
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes		
Fit statistics								
Observations	$424,\!364$	$415{,}709$	414,333	414,052	414,052	414,052		
\mathbb{R}^2	0.99154	0.99268	0.99768	0.99769	0.99770	0.99775		
Within R^2	0.03964	0.16846	0.71150	0.71209	0.71302	0.72025		

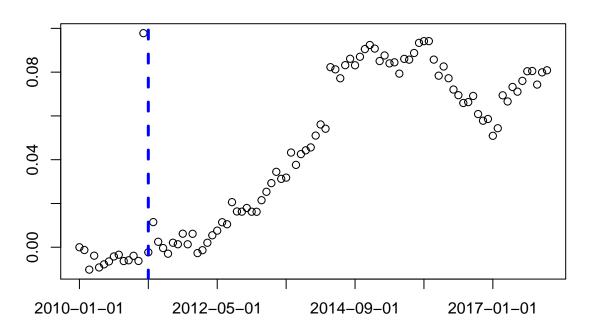
Month-Year FE: No_st_total



Dependent Variable:	Number of main distributors						
Model:	(1)	(2)	(3)	(4)	(5)	(6)	
Variables							
$Merge \times Both$	-0.4617***	-0.6150***	-0.6591***	-0.6761***	-0.5870***	0.3561**	
	(0.1145)	(0.1129)	(0.0869)	(0.0843)	(0.0586)	(0.1465)	
Total fleet		$3.57 \times 10^{-6**}$	$-5.88 \times 10^{-6***}$	$-5.93 \times 10^{-6***}$	$-3.23 \times 10^{-6***}$	-1.43×10^{-6}	
D1-4:-m		(1.65×10^{-6})	$ (1.17 \times 10^{-6}) $ $ 1.01 \times 10^{-5***} $	$(1.19 \times 10^{-6}) \\ 1 \times 10^{-5***}$	(8.72×10^{-7}) $5.55 \times 10^{-6***}$	(6.13×10^{-7})	
Population			(1.88×10^{-6})	(1.88×10^{-6})	5.55×10^{-6} (1.52×10^{-6})	2.79×10^{-6} * (1.2×10^{-6})	
GDP per capita			(1.00 × 10)	0.0036^{***}	0.0025^{***}	0.0021^{***}	
GDI per capita				(0.0013)	(0.0023)	(0.0021)	
ННІ				(0.0020)	-0.0002***	-0.0002***	
					(3×10^{-6})	(2.71×10^{-6})	
Both \times Time FE						Yes	
Fixed-effects							
Municipality	Yes	Yes	Yes	Yes	Yes	Yes	
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes	
Fit statistics							
Observations	426,739	418,019	416,643	$416,\!355$	$416,\!355$	416,355	
\mathbb{R}^2	0.83709	0.83953	0.84595	0.84657	0.92875	0.93124	
Within \mathbb{R}^2	0.01061	0.02167	0.05928	0.06279	0.56478	0.57998	

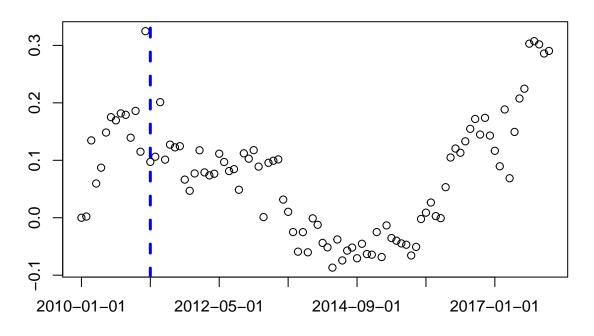
 $\begin{array}{ll} \textit{Clustered (Municipality) standard-errors in parentheses} \\ \textit{Signif. Codes: ****: 0.01, **: 0.05, *: 0.1} \end{array}$

Month-Year FE : Dist_No_main



Dependent Variable:	rs .					
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Both$	0.2568 (0.3522)	-0.0670 (0.3176)	-0.1626 (0.2322)	-0.1593 (0.2300)	-0.1386 (0.2290)	3.150*** (0.9989)
Total fleet	(0100==)	7.23×10^{-6} (7.03×10^{-6})	$-1.77 \times 10^{-5***}$ (4.18×10^{-6})	$-1.77 \times 10^{-5***}$ (4.18×10^{-6})	$-1.71 \times 10^{-5***}$ (4.18×10^{-6})	$-1.22 \times 10^{-5**}$ (4.41×10^{-6})
Population		(1.03 × 10)	$2.67 \times 10^{-5***}$	$2.67 \times 10^{-5***}$	$2.56 \times 10^{-5***}$	$1.86 \times 10^{-5***}$
GDP per capita			(6.79×10^{-6})	(6.79×10^{-6}) -0.0008	(6.78×10^{-6}) -0.0010	(6.15×10^{-6}) -0.0018
нні				(0.0018)	$(0.0018) \\ -5.12 \times 10^{-5***}$	$(0.0017) \\ -4.47 \times 10^{-5**}$
Both \times Time FE					(8.4×10^{-6})	(8.3×10^{-6}) Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	426,739	418,019	416,643	$416,\!355$	416,355	416,355
\mathbb{R}^2	0.84171	0.84361	0.84948	0.84950	0.85008	0.85433
Within R ²	0.00045	0.00664	0.04279	0.04285	0.04654	0.07357

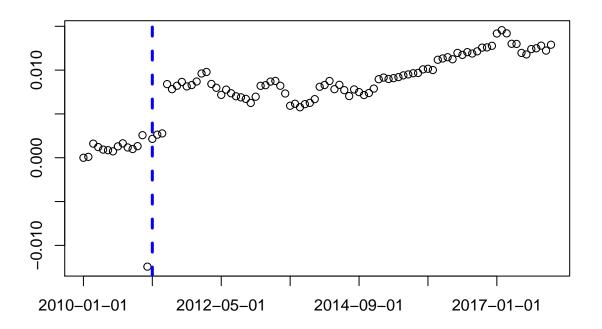
Month-Year FE : Dist_No_other



Dependent Variable:	Share of independent stations							
Model:	(1)	(2)	(3)	(4)	(5)	(6)		
Variables								
$Merge \times Both$	-0.0362*	-0.0271	-0.0241	-0.0198	-0.0202	-0.1523*		
	(0.0209)	(0.0195)	(0.0187)	(0.0183)	(0.0184)	(0.0819)		
Total fleet		-1.96×10^{-7}	3.33×10^{-7}	3.48×10^{-7}	3.35×10^{-7}	1.18×10^{-7}		
		(2.19×10^{-7})	`	`	(2.96×10^{-7})	(3.04×10^{-7})		
Population			-5.99×10^{-7}	-5.92×10^{-7}	-5.71×10^{-7}	-2.14×10^{-7}		
CDD '			(4.99×10^{-7})	(4.98×10^{-7})	(4.97×10^{-7})	(5.17×10^{-7})		
GDP per capita				-0.0009*** (0.0003)	-0.0009***	-0.0008**		
ННІ				(0.0003)	$\begin{array}{c} (0.0003) \\ 1.04 \times 10^{-6} \end{array}$	$ (0.0003) \\ 7.56 \times 10^{-7} $		
11111					(1.32×10^{-6})	(1.3×10^{-6})		
Both \times Time FE					(1.02 / 10)	Yes		
Fixed-effects								
Municipality	Yes	Yes	Yes	Yes	Yes	Yes		
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes		
Fit statistics								
Observations	424,364	415,709	414,333	414,052	414,052	414,052		
\mathbb{R}^2	0.90969	0.90987	0.91037	0.91114	0.91116	0.91158		
Within R ²	0.00115	0.00173	0.00435	0.00806	0.00826	0.01297		

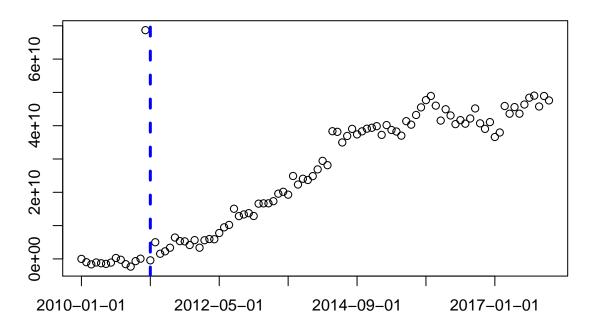
 $\label{lem:clustered} Clustered~(Municipality)~standard\text{-}errors~in~parentheses\\ Signif.~Codes:~***:~0.01,~**:~0.05,~*:~0.1$

Month-Year FE : Ind_st_sh



Dependent Variable:			Tot	tal volume		
Model:	(1)	(2)	(3)	(4)	(5)	
Variables						
$Merge \times Both$	$-2.92 \times 10^{11***}$		$-4.43 \times 10^{11***}$	$-4.53 \times 10^{11***}$	$-3.8 \times 10^{11***}$	2.
	(8.33×10^{10})	\	(6.31×10^{10})	(6.14×10^{10})	(3.93×10^{10})	(9
Total fleet		2,735,800.0**	-4,359,223.9***	-4,385,388.7***	-2,182,473.2***	-1,0
		(1,258,559.8)	(773,449.3)	(783,626.2)	(519,153.3)	(;
Population			7,520,673.4***	7,493,560.0***	3,833,540.7***	2,0
			(1,135,418.7)	(1,137,493.5)	(838,013.1)	(1
GDP per capita				2,109,998,498.7**	1,238,385,420.1***	977,
				(862,609,117.7)	(340,019,866.7)	(263)
HHI					-179,973,114.4***	-178
D-41- v Time FF					(1,545,638.8)	(1
Both \times Time FE						
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	ŀ
Month-Year	Yes	Yes	Yes	Yes	Yes	ŀ
Fit statistics						
Observations	426,739	418,019	416,643	416,355	416,355	ļ
\mathbb{R}^2	0.83469	0.83746	0.84468	0.84516	0.95781	
Within \mathbb{R}^2	0.00862	0.02184	0.06394	0.06644	0.74560	

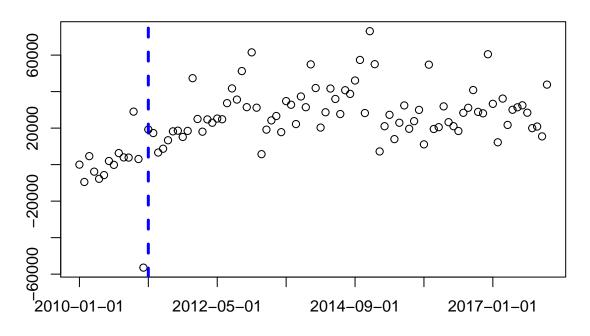
Month-Year FE : Vol_tot



Dependent Variable:	Gas volume							
Model:	(1)	(2)	(3)	(4)	(5)	(6)		
Variables								
$Merge \times Both$	1,989,867.8***	778,879.6***	715,668.9***	714,423.6***	714,499.1***	$118,\!879.6$		
	(347,495.7)	(272,670.9)	(174,523.4)	(174,293.5)	(174,182.5)	(199,224.6)		
Total fleet		27.71***	12.52***	12.51***	12.52**	12.44**		
		(5.817)	(4.857)	(4.856)	(4.862)	(5.188)		
Population			15.43***	15.42***	15.42***	16.52***		
CDD :			(3.327)	(3.326)	(3.342)	(3.532)		
GDP per capita				252.7	251.8	596.8***		
ННІ				(192.8)	(192.4) -0.1869	(218.2) -0.6591		
11111					(1.282)	(0.9779)		
Both \times Time FE					(1.202)	Yes		
Fixed-effects								
Municipality	Yes	Yes	Yes	Yes	Yes	Yes		
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes		
Fit statistics								
Observations	426,739	418,019	416,643	$416,\!355$	$416,\!355$	$416,\!355$		
\mathbb{R}^2	0.98089	0.98759	0.98863	0.98863	0.98863	0.98914		
Within R ²	0.09454	0.41184	0.43627	0.43628	0.43628	0.46145		

 $\begin{tabular}{ll} Clustered & (Municipality) & standard-errors & in parentheses \\ Signif. & Codes: ****: 0.01, **: 0.05, *: 0.1 \end{tabular}$

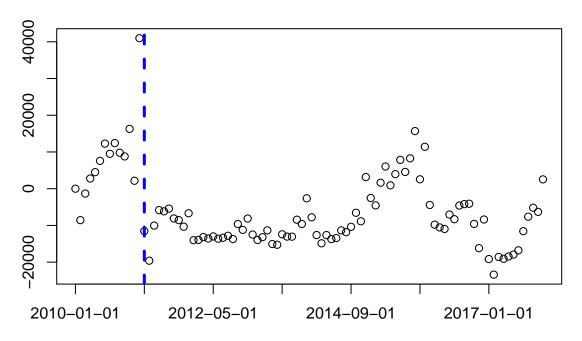
Month-Year FE : Vol_gas



Dependent Variable:	Ethanol volume						
Model:	(1)	(2)	(3)	(4)	(5)	(6)	
Variables							
$Merge \times Both$	$-23,\!585.4$	-459,025.0***	-479,908.5***	-484,699.6***	-484,799.3***	788,591.1***	
	(142,956.1)	(114,886.5)	(130,826.0)	(130,946.0)	(130,949.3)	(206,996.3)	
Total fleet		9.867***	5.391	5.378	5.375	4.723	
D 1.1		(2.198)	(4.014)	(4.017)	(4.024)	(4.284)	
Population			4.740 (2.984)	4.727 (2.981)	4.732 (2.996)	3.781 (3.137)	
GDP per capita			(2.964)	1,009.0***	1,010.2***	486.0**	
ODI per capita				(306.2)	(307.3)	(218.4)	
HHI				(333.2)	0.2468	0.3300	
					(1.175)	(0.9844)	
Both \times Time FE						Yes	
Fixed-effects							
Municipality	Yes	Yes	Yes	Yes	Yes	Yes	
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes	
Fit statistics							
Observations	426,739	418,019	416,643	$416,\!355$	$416,\!355$	$416,\!355$	
\mathbb{R}^2	0.95085	0.95392	0.95422	0.95423	0.95423	0.95640	
Within R ²	2.07×10^{-5}	0.06249	0.06572	0.06592	0.06592	0.11028	

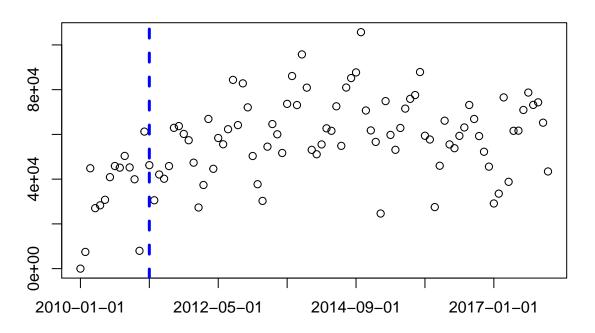
 $\label{lem:clustered} Clustered~(Municipality)~standard\text{-}errors~in~parentheses\\ Signif.~Codes:~***:~0.01,~**:~0.05,~*:~0.1$

Month-Year FE : Vol_eth



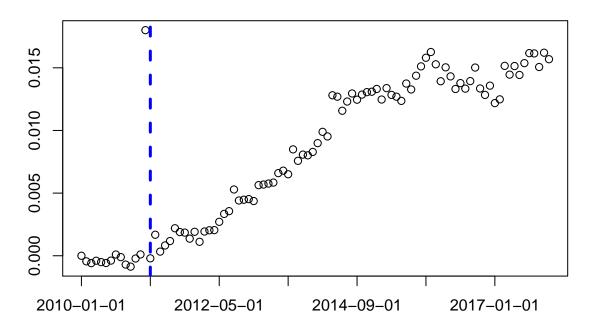
Dependent Variable:	Diesel volume						
Model:	(1)	(2)	(3)	(4)	(5)	(6)	
Variables							
$Merge \times Both$	784,632.9***	481,022.3***	$421,\!136.4***$	410,410.9***	414,766.8***	$692,\!225.8**$	
	(201,757.3)	(146,344.3)	(74,965.6)	(74,125.0)	(74,388.9)	(306,520.9)	
Total fleet		6.979	-8.754***	-8.781***	-8.649***	-7.710***	
D1-4:		(5.273)	(1.730)	(1.722) $15.72***$	(1.740) $15.50***$	(1.873) $14.26***$	
Population			15.75*** (3.868)	(3.870)	(3.907)	(4.168)	
GDP per capita			(3.000)	2,264.2***	2,212.0***	2,080.8***	
GD1 per capita				(701.4)	(677.9)	(635.8)	
HHI				()	-10.78***	-9.768***	
					(2.304)	(2.278)	
Both \times Time FE						Yes	
Fixed-effects							
Municipality	Yes	Yes	Yes	Yes	Yes	Yes	
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes	
Fit statistics							
Observations	426,739	418,019	416,643	$416,\!355$	$416,\!355$	$416,\!355$	
\mathbb{R}^2	0.94858	0.95293	0.96491	0.96508	0.96520	0.96684	
Within R ²	0.05762	0.13691	0.30144	0.30443	0.30683	0.33946	

Month-Year FE : Vol_dies



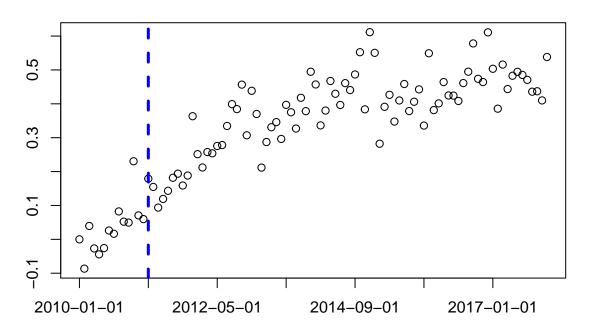
Dependent Variable:	$ln(Total\ volume)$								
Model:	(1)	(2)	(3)	(4)	(5)	(6)			
Variables									
$Merge \times Both$	-0.0580	-0.1243***	-0.1426***	-0.1479***	-0.0855***	0.0808***			
	(0.0429)	(0.0436)	(0.0329)	(0.0321)	$(0.0106)_{-}$	$(0.0279)_{-}$			
Total fleet		$1.54 \times 10^{-6**}$	$-2.47 \times 10^{-6***}$	$-2.49 \times 10^{-6***}$	$-5.96 \times 10^{-7***}$	$-2.8 \times 10^{-7***}$			
D 1.4		(7.1×10^{-7})	(4.16×10^{-7})	(4.22×10^{-7})	(1.4×10^{-7})	(9.23×10^{-8})			
Population			$4.24 \times 10^{-6***}$	$4.23 \times 10^{-6***}$	$1.09 \times 10^{-6***}$	$6.01 \times 10^{-7***} $ (1.67×10^{-7})			
GDP per capita			(5.51×10^{-7})	$ (5.53 \times 10^{-7}) $ $ 0.0011^* $	$(2.29 \times 10^{-7}) \\ 0.0004^{***}$	0.0003^{***}			
GDI pel capita				(0.0006)	(0.0004)	(8.71×10^{-5})			
ННІ				(0.0000)	-0.0002***	-0.0002***			
					(4.97×10^{-7})	(4.31×10^{-7})			
Both \times Time FE					,	Yes			
Fixed-effects									
Municipality	Yes	Yes	Yes	Yes	Yes	Yes			
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes			
Fit statistics									
Observations	426,739	418,019	416,643	$416,\!355$	$416,\!355$	$416,\!355$			
\mathbb{R}^2	0.79768	0.79971	0.80505	0.80545	0.99002	0.99037			
Within R ²	0.00062	0.00833	0.03262	0.03397	0.95044	0.95219			

Month-Year FE : log(Vol_tot)



Dependent Variable:	ln(Gas volume)						
Model:	(1)	(2)	(3)	(4)	(5)	(6)	
Variables							
$Merge \times Both$	0.4988***	0.2222*	0.1496**	0.1405**	0.1630***	0.6795***	
	(0.1266)	(0.1228)	(0.0615)	(0.0598)	(0.0541)	(0.2223)	
Total fleet		$6.36 \times 10^{-6**}$	$-9.37 \times 10^{-6***}$	$-9.39 \times 10^{-6***}$	$-8.71 \times 10^{-6***}$	-7.54×10^{-6}	
T 1 11		(2.9×10^{-6})		(1.44×10^{-6})	(1.33×10^{-6})	(1.29×10^{-6})	
Population			$1.67 \times 10^{-5***}$	$1.66 \times 10^{-5***}$	$1.55 \times 10^{-5***}$	$1.39 \times 10^{-5**}$	
CDD comite			(2.07×10^{-6})	(2.08×10^{-6})	(1.95×10^{-6})	(2.03×10^{-6})	
GDP per capita				0.0019** (0.0007)	0.0016^{***} (0.0006)	0.0014^{***} (0.0005)	
HHI				(0.0007)	$-5.58 \times 10^{-5***}$	(0.0003) -5.44×10^{-5} *	
11111					(3.9×10^{-6})	(3.76×10^{-6})	
Both \times Time FE						Yes	
Fixed-effects							
Municipality	Yes	Yes	Yes	Yes	Yes	Yes	
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes	
Fit statistics							
Observations	$425,\!953$	$417,\!297$	415,921	415,633	415,633	415,633	
\mathbb{R}^2	0.93486	0.93865	0.94990	0.95004	0.95347	0.95409	
Within \mathbb{R}^2	0.01987	0.07723	0.23954	0.24130	0.29337	0.30277	

Month-Year FE : log(Vol_gas)

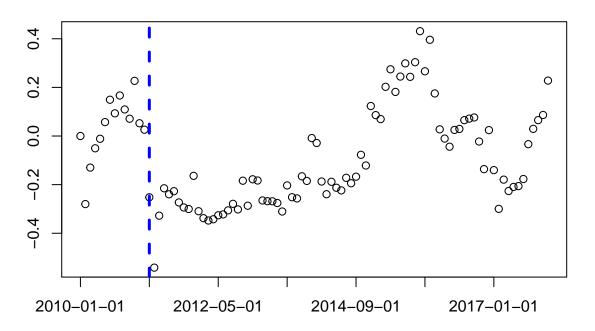


Dependent Variable:	$ln(Ethanol\ volume)$							
Model:	(1)	(2)	(3)	(4)	(5)	(6)		
Variables								
$Merge \times Both$	0.3453**	0.1145	0.0425	0.0308	0.0561	1.132***		
	(0.1382)	(0.1244)	(0.0650)	(0.0639)	(0.0625)	(0.2647)		
Total fleet		$5.72 \times 10^{-6**}$		$-7.24 \times 10^{-6***}$	$-6.78 \times 10^{-6***}$	$-5.09 \times 10^{-6**}$		
D 1.41		(2.91×10^{-6})	(1.2×10^{-6})	(1.2×10^{-6})	(1.17×10^{-6})	(9.33×10^{-7})		
Population			$1.48 \times 10^{-5***}$ (1.88×10^{-6})	$1.47 \times 10^{-5***}$ (1.88×10^{-6})	$1.39 \times 10^{-5***}$ (1.84×10^{-6})	$1.1 \times 10^{-5***}$ (1.39×10^{-6})		
GDP per capita			(1.88 × 10)	0.0030^{***}	0.0028^{***}	(1.39×10^{-4}) 0.0024^{**}		
ODI per capita				(0.0011)	(0.0011)	(0.0010)		
ННІ				(0.00)	$-4.38 \times 10^{-5***}$	-4.23×10^{-5} **		
					(5.72×10^{-6})	(5.66×10^{-6})		
Both \times Time FE						Yes		
Fixed-effects								
Municipality	Yes	Yes	Yes	Yes	Yes	Yes		
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes		
Fit statistics								
Observations	$325,\!223$	318,442	317,415	$317,\!255$	$317,\!255$	$317,\!255$		
\mathbb{R}^2	0.90903	0.91179	0.91921	0.91941	0.92065	0.92210		
Within R ²	0.00584	0.03246	0.10269	0.10484	0.11865	0.13473		

 ${\it Clustered~(Municipality)~standard\text{-}errors~in~parentheses}$

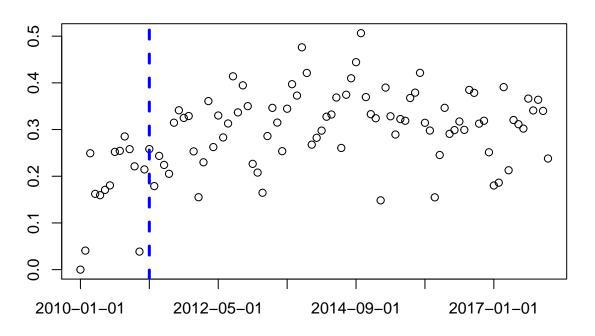
Signif. Codes: ***: 0.01, **: 0.05, *: 0.1

Month-Year FE : log(Vol_eth)



Dependent Variable:	ln(Diesel volume)						
Model:	(1)	(2)	(3)	(4)	(5)	(6)	
Variables							
$Merge \times Both$	0.5208***	0.2690**	0.2035***	0.1807**	0.2096***	1.032***	
T + 1.0 +	(0.1260)	(0.1224)	(0.0733)	(0.0704)	(0.0635)	(0.2302)	
Total fleet		$5.88 \times 10^{-6**}$ (2.74×10^{-6})	$-8.49 \times 10^{-6***}$ (1.28×10^{-6})	$-8.56 \times 10^{-6***}$	$-7.7 \times 10^{-6***}$	-6.29×10^{-6} (1.08 × 10 ⁻⁶	
Population		(2.74×10^{-4})	(1.28×10^{-5}) $1.52 \times 10^{-5***}$	(1.3×10^{-6}) $1.52 \times 10^{-5***}$	(1.16×10^{-6}) $1.38 \times 10^{-5***}$	(1.08×10^{-5}) 1.16×10^{-5}	
1 оршанон			(1.75×10^{-6})	(1.76×10^{-6})	(1.59×10^{-6})	(1.56×10^{-6})	
GDP per capita			(1)	0.0048***	0.0044***	0.0041***	
• -				(0.0014)	(0.0012)	(0.0012)	
HHI					$-7.07 \times 10^{-5***}$	-6.89×10^{-5}	
					(4.89×10^{-6})	(4.78×10^{-6})	
Both \times Time FE						Yes	
$Fixed\mbox{-}effects$							
Municipality	Yes	Yes	Yes	Yes	Yes	Yes	
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes	
Fit statistics							
Observations	$421,\!829$	$413,\!231$	411,863	$411,\!575$	$411,\!575$	$411,\!575$	
\mathbb{R}^2	0.90695	0.90959	0.91723	0.91790	0.92229	0.92316	
Within \mathbb{R}^2	0.01231	0.03988	0.11455	0.12062	0.16767	0.17693	

Month-Year FE : log(Vol_dies)

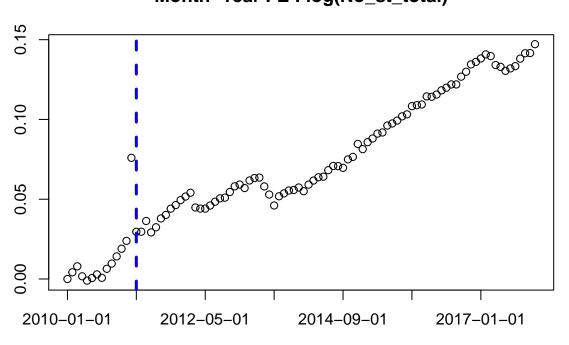


Dependent Variable:		ln(Total number of stations)							
Model:	(1)	(2)	(3)	(4)	(5)	(6)			
Variables									
$Merge \times Both$	0.3496***	0.1383	0.0878*	0.0840*	0.0977**	0.5678***			
	(0.0958)	(0.0916)	(0.0474)	(0.0462)	(0.0423)	(0.1702)			
Total fleet		$4.85 \times 10^{-6**}$	$-6.4 \times 10^{-6***}$	$-6.41 \times 10^{-6***}$	$-6 \times 10^{-6***}$	$-5.24 \times 10^{-6**}$			
D 1.1		(2.21×10^{-6})	(8.65×10^{-7})	(8.7×10^{-7})	(8.08×10^{-7})	(7.98×10^{-7})			
Population			$1.18 \times 10^{-5***}$	$1.18 \times 10^{-5***}$	$1.11 \times 10^{-5***}$	$9.89 \times 10^{-6***}$			
GDP per capita			(1.2×10^{-6})	$(1.21 \times 10^{-6}) \\ 0.0008^*$	$(1.13 \times 10^{-6}) \\ 0.0006$	(1.18×10^{-6}) 0.0004			
GD1 per capita				(0.0005)	(0.0004)	(0.0004)			
ННІ				(0.0000)	$-3.39 \times 10^{-5***}$	-3.29×10^{-5} **			
					(2.63×10^{-6})	(2.44×10^{-6})			
Both \times Time FE					,	Yes			
Fixed-effects									
Municipality	Yes	Yes	Yes	Yes	Yes	Yes			
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes			
Fit statistics									
Observations	$424,\!364$	415,709	414,333	414,052	414,052	414,052			
\mathbb{R}^2	0.93814	0.94258	0.95539	0.95549	0.95824	0.95902			
Within R ²	0.02246	0.09818	0.28482	0.28598	0.33013	0.34258			

Clustered (Municipality) standard-errors in parentheses

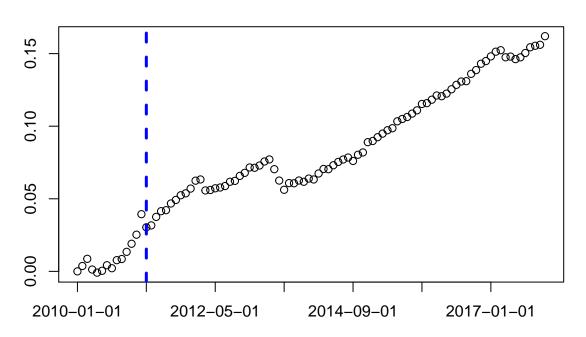
Signif. Codes: ***: 0.01, **: 0.05, *: 0.1

Month-Year FE : log(No_st_total)



Dependent Variable:	ln(Number of independent stations)								
Model:	(1)	(2)	(3)	(4)	(5)	(6)			
Variables									
$Merge \times Both$	0.1656**	0.0603	0.0088	0.0142	0.0204	0.0427			
	(0.0746)	(0.0660)	(0.0450)	(0.0447)	(0.0448)	(3,519.6)			
Total fleet		$2.62 \times 10^{-6*}$	$-4 \times 10^{-6***}$	$-3.98 \times 10^{-6***}$	$-3.86 \times 10^{-6***}$	$-3.66 \times 10^{-6***}$			
D 1		(1.55×10^{-6})	(9.49×10^{-7})	(9.5×10^{-7})		(9.5×10^{-7})			
Population			$8.35 \times 10^{-6***}$	$8.37 \times 10^{-6***}$	$8.16 \times 10^{-6***}$	$7.83 \times 10^{-6***}$			
GDP per capita			(1.49×10^{-6})	(1.49×10^{-6}) -0.0012**	(1.49×10^{-6}) -0.0013^{**}	(1.49×10^{-6}) -0.0013^{**}			
GDI per capita				(0.0005)	(0.0006)	(0.0006)			
HHI				(0.0000)	$-1.07 \times 10^{-5***}$	$-1.05 \times 10^{-5***}$			
					(2.2×10^{-6})	(2.23×10^{-6})			
Both \times Time FE					,	Yes			
Fixed-effects									
Municipality	Yes	Yes	Yes	Yes	Yes	Yes			
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes			
Fit statistics									
Observations	$343,\!968$	336,718	335,699	335,444	335,444	335,444			
\mathbb{R}^2	0.92612	0.92795	0.93520	0.93530	0.93568	0.93576			
Within R ²	0.00668	0.03343	0.13229	0.13390	0.13898	0.14004			

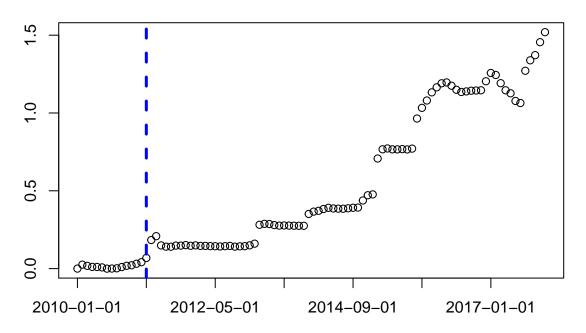
Month-Year FE : log(No_st_Unbranded)



Just One as treatment, None as control

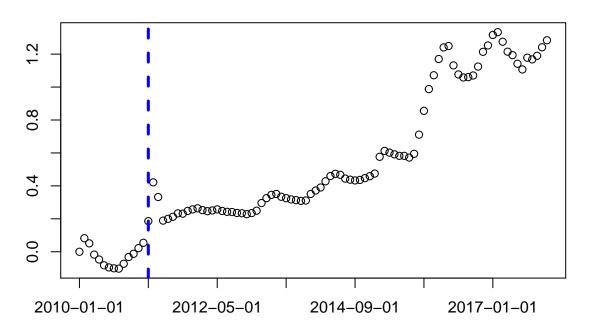
Dependent Variable:			Gas re	tail price		
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Just one$	0.0017	0.0043	0.0033	0.0027	0.0023	-9.91×10^{-5}
T + 1.0	(0.0098)	(0.0099)	(0.0099)	(0.0099)	(0.0100)	(0.0273)
Total fleet		-3.57×10^{-7}	-7.06×10^{-8} (3.36×10^{-7})			5.57×10^{-8} (3.32×10^{-7})
Population		(2.3×10^{-4})	(3.30×10^{-7}) -3.88×10^{-7}		\	(5.32×10^{-7}) -5.23×10^{-7}
1 opulation			(4.16×10^{-7})		(3.99×10^{-7})	
GDP per capita			,	-0.0001	-0.0001	-1.38×10^{-5}
				(0.0003)	(0.0003)	(0.0003)
HHI					1.06×10^{-6}	2.03×10^{-6}
I / (77)					(3.14×10^{-6})	(
$\frac{\text{Just one} \times \text{Time FE}}{\text{Time FE}}$						Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
$Fit\ statistics$						
Observations	27,937	$27,\!397$	27,303	27,209	27,209	27,209
\mathbb{R}^2	0.97230	0.97223	0.97226	0.97230	0.97230	0.97265
Within R ²	1.66×10^{-5}	0.00162	0.00230	0.00220	0.00226	0.01510

Month-Year FE : retail_p_gas



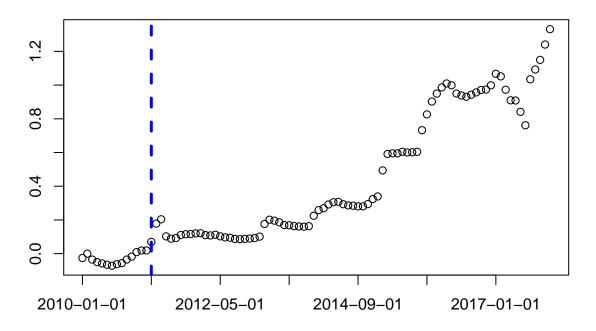
Dependent Variable:	Ethanol retail price					
Model:	(1)	(2)	(3)	(4)	(5)	(6)
$\overline{Variables}$						
$Merge \times Just one$	-0.0123	-0.0116	-0.0123	-0.0129	-0.0132	-0.0518
	(0.0132)	(0.0133)	(0.0134)	(0.0135)	(0.0135)	(0.0371)
Total fleet		$8.36 \times 10^{-7**}$	1.19×10^{-6}	1.14×10^{-6}	1.14×10^{-6}	1.43×10^{-6}
Population		(4.11×10^{-7})	$(8.65 \times 10^{-7}) -4.84 \times 10^{-7}$	$(8.51 \times 10^{-7}) -4.2 \times 10^{-7}$	$(8.51 \times 10^{-7}) -4.19 \times 10^{-7}$	$(8.92 \times 10^{-7}) -7.73 \times 10^{-7}$
GDP per capita			(7.34×10^{-7})	(7.22×10^{-7}) -0.0003	(7.21×10^{-7}) -0.0003	(7.73×10^{-7}) -4.02×10^{-5}
нні				(0.0005)	$(0.0005) \\ 6.28 \times 10^{-7} \\ (4.01 \times 10^{-6})$	(0.0004) 3.36×10^{-6}
Just one \times Time FE					(4.91×10^{-6})	(5.18×10^{-6}) Yes
$Fixed\mbox{-}effects$						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	26,721	$26,\!183$	26,089	25,995	25,995	25,995
\mathbb{R}^2	0.93689	0.93681	0.93682	0.93686	0.93686	0.93848
Within \mathbb{R}^2	0.00032	0.00363	0.00391	0.00404	0.00404	0.02961

Month-Year FE : retail_p_eth



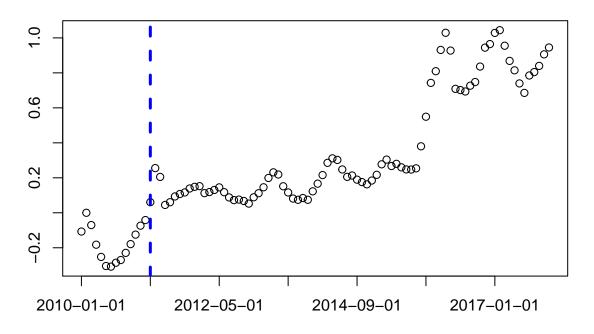
Dependent Variable:	Gas wholesale price						
Model:	(1)	(2)	(3)	(4)	(5)	(6)	
Variables							
$Merge \times Just one$	0.0030	0.0026	0.0019	0.0015	0.0005	0.0525**	
	(0.0078)	(0.0080)	(0.0080)	(0.0080)	(0.0080)	(0.0233)	
Total fleet		-5.46×10^{-8}	2×10^{-7}	1.73×10^{-7}	1.58×10^{-7}	1.66×10^{-7}	
		(1.58×10^{-7})	('	(2.38×10^{-7})	(2.38×10^{-7})	
Population			-3.42×10^{-7}	-3.02×10^{-7}	-2.96×10^{-7}	-3.02×10^{-7}	
CDD			(2.45×10^{-7})	,	,	(
GDP per capita				0.0002	0.0002	0.0003	
HHI				(0.0004)	$\begin{array}{c} (0.0004) \\ 2.44 \times 10^{-6} \end{array}$	$(0.0004) \\ 2.7 \times 10^{-6}$	
11111					(2.37×10^{-6})		
Just one × Time FE					(2.51 × 10)	Yes	
Fixed-effects Municipality	Yes	Yes	Yes	Yes	Yes	Yes	
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes	
Wionth- rear	ies	ies	res	res	ies		
Fit statistics							
Observations	23,760	$23,\!267$	$23,\!173$	23,079	23,079	23,079	
\mathbb{R}^2	0.97024	0.97051	0.97052	0.97050	0.97051	0.97075	
Within R^2	4.65×10^{-5}	8.32×10^{-5}	0.00076	0.00092	0.00123	0.00916	

Month-Year FE: ws_p_gas



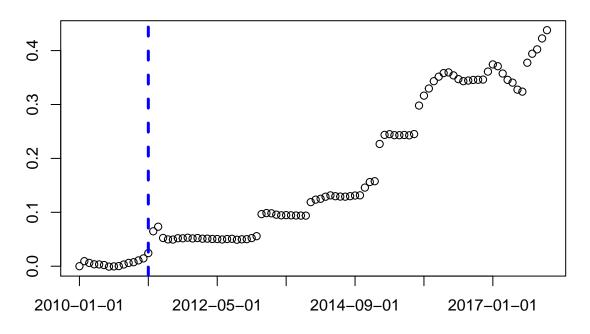
Dependent Variable:			Ethanol w	vholesale price		
Model:	(1)	(2)	(3)	(4)	(5)	(6)
$\overline{Variables}$						
$Merge \times Just one$	-0.0244*	-0.0248*	-0.0249*	-0.0252*	-0.0266*	-0.0286
	(0.0136)	(0.0138)	(0.0138)	(0.0137)	(0.0138)	(0.0367)
Total fleet		$1.15 \times 10^{-6***}$	1.31×10^{-6}	1.26×10^{-6}	1.24×10^{-6}	$1.38 \times 10^{-6*}$
D1-4:		(3.97×10^{-7})	$(8.11 \times 10^{-7}) \\ -2.31 \times 10^{-7}$	(7.96×10^{-7}) -1.53×10^{-7}	(7.94×10^{-7}) -1.46×10^{-7}	$(8.15 \times 10^{-7}) \\ -3.54 \times 10^{-7}$
Population			-2.31×10^{-7} (6.76×10^{-7})	-1.53×10^{-7} (6.71×10^{-7})	-1.46×10^{-7} (6.69×10^{-7})	-3.54×10^{-7} (6.92×10^{-7})
GDP per capita			(0.70 × 10)	-0.0001	-0.0001	4.8×10^{-5}
GD1 per capita				(0.0004)	(0.0004)	(0.0004)
HHI				,	4.21×10^{-6}	6.25×10^{-6}
					(4.84×10^{-6})	(4.78×10^{-6})
Just one \times Time FE						Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	$20,\!487$	20,065	19,971	19,877	19,877	19,877
\mathbb{R}^2	0.92357	0.92366	0.92351	0.92371	0.92372	0.92474
Within R^2	0.00104	0.00902	0.00895	0.00911	0.00934	0.02255

Month-Year FE: ws_p_eth



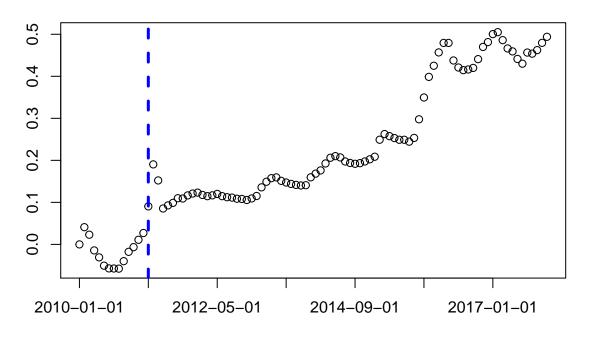
Dependent Variable:			ln(Gas)	retail price)		
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Just one$	0.0076**	0.0081**	0.0076**	0.0074**	0.0072**	0.0150**
	(0.0032)	(0.0032)	(0.0033)	(0.0033)	(0.0033)	(0.0064)
Total fleet		-2.21×10^{-8}	8.85×10^{-8}	8.02×10^{-8}	7.77×10^{-8}	9.09×10^{-8}
D 1.4		(5.7×10^{-8})	(8.1×10^{-8})	(8.02×10^{-8})	(8.03×10^{-8})	(8.06×10^{-8})
Population			-1.48×10^{-7}	-1.35×10^{-7}	-1.34×10^{-7}	-1.46×10^{-7}
CDD:			(1.1×10^{-7})	(1.05×10^{-7}) 4.64×10^{-5}	$ (1.05 \times 10^{-7}) $ $ 4.56 \times 10^{-5} $	$ (1.06 \times 10^{-7}) $ $ 4.95 \times 10^{-5} $
GDP per capita				(8.01×10^{-5})	(8.04×10^{-5})	4.95×10^{-5} (7.88×10^{-5})
HHI				(6.01 × 10)	4.78×10^{-7}	5.1×10^{-7}
11111					(8.7×10^{-7})	(8.75×10^{-7})
Just one \times Time FE					()	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	27,937	27,397	27,303	27,209	27,209	27,209
\mathbb{R}^2	0.97440	0.97427	0.97425	0.97422	0.97423	0.97435
Within R ²	0.00364	0.00408	0.00509	0.00485	0.00500	0.00978

Month-Year FE : log(retail_p_gas)



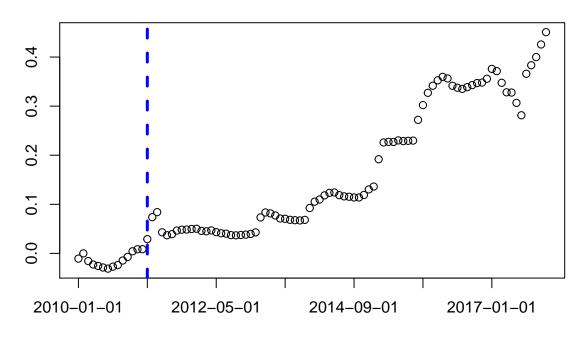
Dependent Variable:	ln(Ethanol retail price)							
Model:	(1)	(2)	(3)	(4)	(5)	(6)		
$\overline{Variables}$								
$Merge \times Just one$	0.0099**	0.0097*	0.0095*	0.0094*	0.0092*	0.0026		
	(0.0050)	(0.0051)	(0.0051)	(0.0051)	(0.0051)	(0.0109)		
Total fleet		1.92×10^{-7}	2.5×10^{-7}	2.39×10^{-7}	2.37×10^{-7}	3.03×10^{-7}		
D1-4:		(1.23×10^{-7})	$(2.51 \times 10^{-7}) -7.78 \times 10^{-8}$	(2.48×10^{-7}) -6.09×10^{-8}	(2.48×10^{-7}) -6.02×10^{-8}	(2.61×10^{-7}) -1.35×10^{-7}		
Population			(2.08×10^{-7})	-6.09×10^{-3} (2.07×10^{-7})	-6.02×10^{-7} (2.07×10^{-7})	-1.35×10^{-7} (2.21×10^{-7})		
GDP per capita			(2.00 × 10)	8.43×10^{-5}	8.37×10^{-5}	0.0001		
GB1 per capita				(0.0001)	(0.0001)	(0.0001)		
HHI				,	3.65×10^{-7}	8.88×10^{-7}		
					(1.9×10^{-6})	(1.95×10^{-6})		
Just one \times Time FE						Yes		
Fixed-effects								
Municipality	Yes	Yes	Yes	Yes	Yes	Yes		
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes		
Fit statistics								
Observations	26,721	26,183	26,089	25,995	25,995	25,995		
\mathbb{R}^2	0.94624	0.94600	0.94590	0.94573	0.94573	0.94681		
Within R^2	0.00149	0.00286	0.00293	0.00297	0.00298	0.02274		

Month-Year FE : log(retail_p_eth)



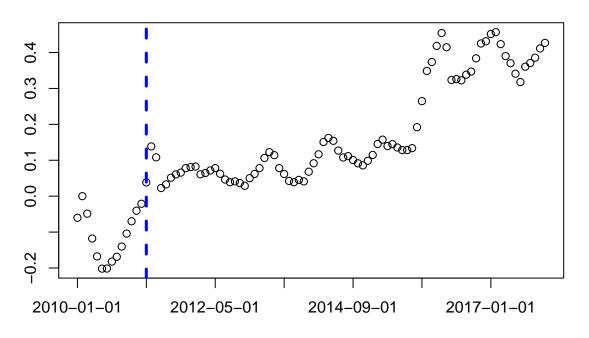
Dependent Variable:			ln(Gas w	holesale price)		
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Just one$	0.0041	0.0039	0.0036	0.0034	0.0030	0.0226***
	(0.0030)	(0.0030)	(0.0030)	(0.0030)	(0.0031)	(0.0071)
Total fleet		-2.5×10^{-8}	6.73×10^{-8}	5.83×10^{-8}	5.33×10^{-8}	4.08×10^{-8}
		(5.02×10^{-8})		(6.53×10^{-8})	(6.54×10^{-8})	(6.62×10^{-8})
Population			-1.23×10^{-7}	-1.08×10^{-7}	-1.06×10^{-7}	-8.99×10^{-8}
CDD '			(8.6×10^{-8})	(8.2×10^{-8})	(8.19×10^{-8})	(8.24×10^{-8})
GDP per capita				0.0001 (0.0001)	0.0001 (0.0001)	0.0001 (0.0001)
ННІ				(0.0001)	(0.0001) 8.49×10^{-7}	8.07×10^{-7}
11111					(7.94×10^{-7})	(8×10^{-7})
Just one \times Time FE					(1.01/1.10)	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	23,760	23,267	23,173	23,079	23,079	23,079
\mathbb{R}^2	0.97186	0.97217	0.97212	0.97209	0.97210	0.97231
Within R ²	0.00076	0.00074	0.00148	0.00231	0.00261	0.01014

Month-Year FE : log(ws_p_gas)



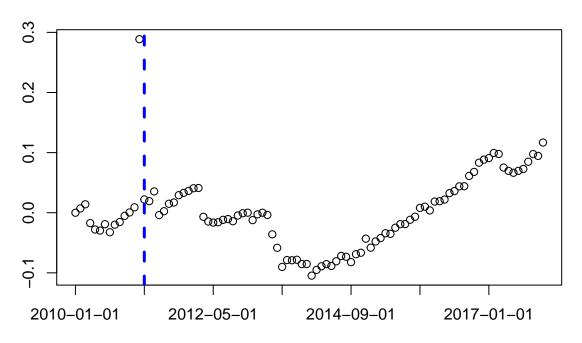
Dependent Variable:	ln(Ethanol wholesale price)						
Model:	(1)	(2)	(3)	(4)	(5)	(6)	
$\overline{Variables}$							
$Merge \times Just one$	-0.0024	-0.0029	-0.0029	-0.0030	-0.0039	-0.0005	
T + 1.0 +	(0.0065)	(0.0067)	(0.0067)	(0.0067)	(0.0067)	(0.0150)	
Total fleet		2.32×10^{-7} (1.44×10^{-7})	2.33×10^{-7} (2.68×10^{-7})	$2.15 \times 10^{-7} $ (2.65×10^{-7})	2.02×10^{-7} (2.63×10^{-7})	2.35×10^{-7} (2.7×10^{-7})	
Population		(1.44×10^{-4})	(2.08×10^{-9}) -3.1×10^{-9}	(2.03×10^{-8}) 2.32×10^{-8}	(2.03×10^{-8}) 2.79×10^{-8}	(2.7×10^{-8}) -1.76×10^{-8}	
1 opulation			(2.42×10^{-7})	(2.44×10^{-7})	(2.42×10^{-7})	(2.5×10^{-7})	
GDP per capita			,	0.0002	0.0002	0.0002	
				(0.0002)	(0.0002)	(0.0002)	
HHI					2.79×10^{-6}	3.19×10^{-6}	
I					(2.19×10^{-6})	'	
$\frac{\text{Just one} \times \text{Time FE}}{\text{Time FE}}$						Yes	
Fixed-effects							
Municipality	Yes	Yes	Yes	Yes	Yes	Yes	
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes	
$Fit\ statistics$							
Observations	$20,\!487$	20,065	19,971	19,877	19,877	19,877	
\mathbb{R}^2	0.93285	0.93240	0.93215	0.93204	0.93207	0.93285	
Within \mathbb{R}^2	4.68×10^{-5}	0.00167	0.00165	0.00208	0.00257	0.01397	

Month-Year FE : log(ws_p_eth)



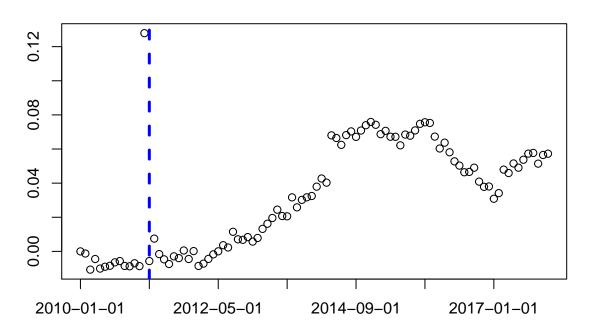
Dependent Variable:	Total number of stations								
Model:	(1)	(2)	(3)	(4)	(5)	(6)			
Variables									
$Merge \times Just one$	1.869***	-0.1372	0.0825	0.0833	0.0476	1.071**			
	(0.5793)	(0.1445)	(0.1697)	(0.1688)	(0.1636)	(0.4552)			
Total fleet		0.0003***	0.0002***	0.0002***	0.0002***	0.0002***			
		(1.33×10^{-5})	(3.22×10^{-5})	(3.22×10^{-5})	(3.18×10^{-5})	(3.31×10^{-5})			
Population			$3.78 \times 10^{-5***}$	$3.79 \times 10^{-5***}$	$3.77 \times 10^{-5***}$	$3.56 \times 10^{-5***}$			
CDD '			(7.6×10^{-6})	(7.61×10^{-6})	(7.32×10^{-6})	(7.37×10^{-6})			
GDP per capita				0.0026 (0.0024)	0.0022 (0.0021)	0.0022 (0.0017)			
HHI				(0.0024)	-0.0001***	$-9.04 \times 10^{-5***}$			
11111					(1.08×10^{-5})	(1.02×10^{-5})			
Just one \times Time FE					(2100 11 20)	Yes			
Fixed-effects									
Municipality	Yes	Yes	Yes	Yes	Yes	Yes			
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes			
Fit statistics									
Observations	$477,\!451$	467,926	466,370	$465,\!897$	$465,\!897$	$465,\!897$			
\mathbb{R}^2	0.93014	0.98113	0.98282	0.98282	0.98325	0.98352			
Within R ²	0.02101	0.73854	0.76217	0.76246	0.76853	0.77222			

Month-Year FE : No_st_total



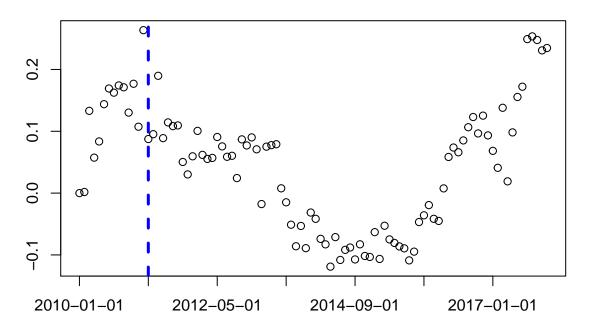
Dependent Variable:	Number of main distributors								
Model:	(1)	(2)	(3)	(4)	(5)	(6)			
Variables									
$Merge \times Just one$	0.2666***	0.1926***	0.1940***	0.1946***	0.1147^{***}	0.5899***			
	(0.0551)	(0.0520)	(0.0513)	(0.0503)	(0.0300)	(0.0666)			
Total fleet		$1.15 \times 10^{-5***}$	$1.14 \times 10^{-5***}$	$1.07 \times 10^{-5***}$	$6.15 \times 10^{-6**}$	$7.29 \times 10^{-6***}$			
		(3.92×10^{-6})	(4.07×10^{-6})	(3.95×10^{-6})	(2.65×10^{-6})	(2.65×10^{-6})			
Population			4.64×10^{-8}	2.22×10^{-7}	-3.93×10^{-7}	-1.21×10^{-6}			
CDD			(1.83×10^{-6})	(1.83×10^{-6})	(8.53×10^{-7})	(7.5×10^{-7})			
GDP per capita				0.0030	0.0021**	0.0021***			
ННІ				(0.0018)	(0.0009) $-0.0002***$	(0.0006) -0.0002***			
11111					(2.74×10^{-6})	(2.51×10^{-6})			
Just one \times Time FE					(2.11 / 10)	Yes			
Fixed-effects									
Municipality	Yes	Yes	Yes	Yes	Yes	Yes			
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes			
Fit statistics									
Observations	480,076	470,486	468,930	468,450	468,450	468,450			
\mathbb{R}^2	0.80309	0.80622	0.80634	0.80713	0.91083	0.91348			
Within R ²	0.00705	0.02568	0.02584	0.02953	0.55131	0.56463			

Month-Year FE : Dist_No_main



Dependent Variable:	Number of other distributors									
Model:	(1)	(2)	(3)	(4)	(5)	(6)				
Variables										
$Merge \times Just one$	0.4033***	0.2976**	0.3087^{**}	0.3091**	0.2870**	1.444***				
	(0.1411)	(0.1366)	(0.1344)	(0.1346)	(0.1318)	(0.4326)				
Total fleet		$1.58 \times 10^{-5**}$	1.36×10^{-5}	$1.38 \times 10^{-5*}$	1.25×10^{-5}	$1.43 \times 10^{-5*}$				
		(6.5×10^{-6})	(8.36×10^{-6})	(8.38×10^{-6})	(8.13×10^{-6})	(8.38×10^{-6})				
Population			6.88×10^{-7}	6.61×10^{-7}	4.91×10^{-7}	-8.68×10^{-7}				
CDD ''			(3.04×10^{-6})	(3.05×10^{-6})	(2.82×10^{-6})	(2.7×10^{-6})				
GDP per capita				-0.0012 (0.0013)	-0.0014	-0.0015				
HHI				(0.0013)	$(0.0014) \\ -6.41 \times 10^{-5***}$	$(0.0016) \\ -5.47 \times 10^{-5***}$				
11111					(9.12×10^{-6})	(8.15×10^{-6})				
Just one \times Time FE					(0.12 // 10)	Yes				
Fixed-effects										
Municipality	Yes	Yes	Yes	Yes	Yes	Yes				
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes				
Fit statistics										
Observations	480,076	470,486	468,930	468,450	468,450	468,450				
\mathbb{R}^2	0.79593	0.79611	0.79534	0.79544	0.79679	0.79852				
Within R ²	0.00265	0.00837	0.00836	0.00844	0.01501	0.02339				

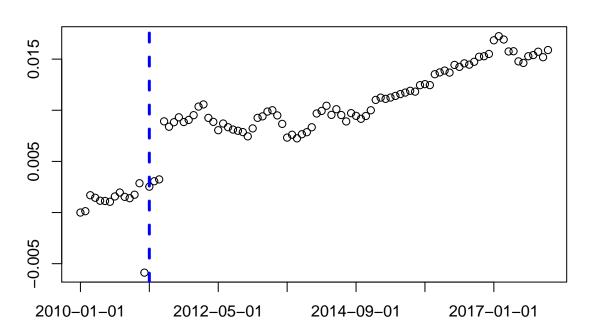
Month-Year FE : Dist_No_other



Dependent Variable:	Share of independent stations						
Model:	(1)	(2)	(3)	(4)	(5)	(6)	
Variables							
$Merge \times Just one$	-0.0129	-0.0029	-0.0027	-0.0024	-0.0020	-0.0317	
T . 1.0	(0.0151)	(0.0151)	(0.0153)	(0.0152)	(0.0150)	(0.0501)	
Total fleet		$-1.49 \times 10^{-6***}$	-1.51×10^{-6}	-1.33×10^{-6}	-1.31×10^{-6}	-1.39×10^{-6}	
Population		(4.87×10^{-7})	(9.74×10^{-7}) 1.28×10^{-8}	$(9.53 \times 10^{-7}) \\ -3.23 \times 10^{-8}$	$(9.48 \times 10^{-7}) -2.94 \times 10^{-8}$	$(9.79 \times 10^{-7}) $ 2.5×10^{-8}	
1 opulation			(2.27×10^{-7})	-3.23×10^{-7} (2.23×10^{-7})	(2.22×10^{-7})	(2.3×10^{-7})	
GDP per capita			(2.21 / 10)	-0.0007***	-0.0007***	-0.0007***	
1 1				(0.0002)	(0.0002)	(0.0002)	
HHI					1.16×10^{-6}	8.17×10^{-7}	
					(1.31×10^{-6})	(
$\frac{\text{Just one} \times \text{Time FE}}{\text{Time FE}}$						Yes	
$Fixed\mbox{-}effects$							
Municipality	Yes	Yes	Yes	Yes	Yes	Yes	
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes	
$Fit\ statistics$							
Observations	$477,\!451$	467,926	$466,\!370$	$465,\!897$	$465,\!897$	$465,\!897$	
\mathbb{R}^2	0.90434	0.90479	0.90498	0.90574	0.90576	0.90585	
Within R^2	0.00030	0.00597	0.00592	0.00997	0.01021	0.01117	

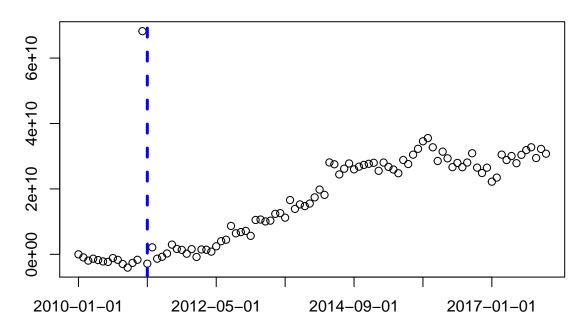
 $\begin{tabular}{ll} Clustered (Municipality) standard-errors in parentheses \\ Signif. Codes: ***: 0.01, **: 0.05, *: 0.1 \end{tabular}$

Month-Year FE : Ind_st_sh



Dependent Variable:		Total volume									
Model:	(1)	(2)	(3)	(4)	(5)	(6					
Variables											
$Merge \times Just one$	$1.97 \times 10^{11***}$	$1.41 \times 10^{11***}$	$1.43 \times 10^{11***}$	$1.44 \times 10^{11***}$	$7.93 \times 10^{10***}$	3.36×1					
	(3.81×10^{10})	(3.54×10^{10})	(3.49×10^{10})	(3.44×10^{10})	(1.71×10^{10})	$(4.07 \times$					
Total fleet		8,786,261.4***	7,927,362.8***	7,480,253.6***	3,826,112.4**	4,416,72					
		(2,714,553.4)	(2,792,102.7)	(2,726,890.5)	(1,527,616.7)	(1,530,					
Population			299,992.3	405,531.6	-92,069.7	-524,8					
			(1,320,795.6)	(1,322,074.1)	(504,098.8)	(446,6)					
GDP per capita				1,839,172,497.9	$1,\!129,\!469,\!074.5^{**}$	1,112,390					
				(1,313,445,995.7)	(540, 493, 706.9)	(365,941					
HHI					-187,530,723.0***	-184,648,					
					(1,373,225.1)	(1,194,					
Just one \times Time FE						Ye					
Fixed-effects											
Municipality	Yes	Yes	Yes	Yes	Yes	Ye					
Month-Year	Yes	Yes	Yes	Yes	Yes	Ye					
Fit statistics											
Observations	480,076	470,486	468,930	468,450	468,450	468,					
\mathbb{R}^2	0.80038	0.80427	0.80431	0.80495	0.94498	0.94					
Within \mathbb{R}^2	0.00779	0.02977	0.02999	0.03283	0.72719	0.73					

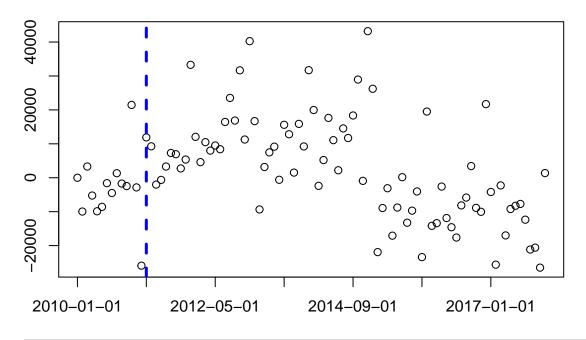
Month-Year FE : Vol_tot



Dependent Variable:			Gas vo	lume		
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Just one$	311,741.5***	-5,960.2	$16,\!485.4$	$16,\!131.9$	$15,\!518.0$	-19,057.7
	(96,820.4)	(14,340.3)	(14,054.9)	(14,045.0)	(14,010.9)	(39,844.3)
Total fleet		46.38***	35.00***	34.93***	34.90***	35.35***
D 1.		(2.330)	(2.490)	(2.507)	(2.510)	(2.530)
Population			3.983***	4.002***	3.997***	3.917***
GDP per capita			(0.6533)	(0.6567) 191.9	(0.6610) 185.2	(0.6574) 191.6
ODI per capita				(163.9)	(157.2)	(184.9)
HHI				(100.0)	-1.779***	-2.018***
					(0.5994)	(0.5366)
Just one \times Time FE					,	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	480,076	$470,\!486$	468,930	$468,\!450$	$468,\!450$	$468,\!450$
\mathbb{R}^2	0.89448	0.98471	0.98605	0.98606	0.98607	0.98639
Within R^2	0.02742	0.85990	0.87226	0.87254	0.87262	0.87555

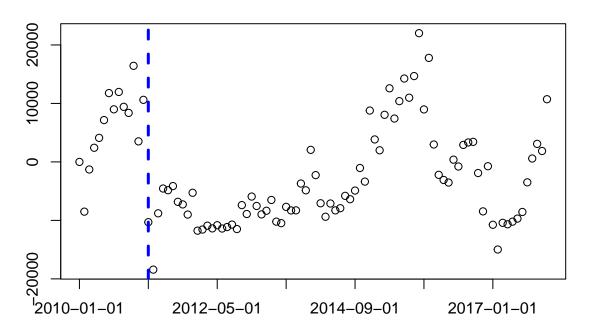
 $\label{lem:clustered} \begin{array}{ll} \textit{Clustered (Municipality) standard-errors in parentheses} \\ \textit{Signif. Codes: ****: 0.01, **: 0.05, *: 0.1} \end{array}$

Month-Year FE : Vol_gas



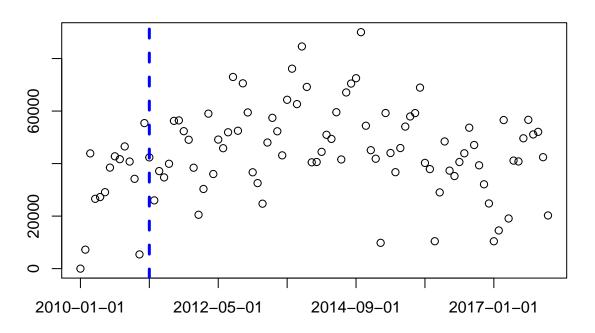
Dependent Variable:			Ethano	ol volume		
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Just one$	22,803.3**	-3,979.2	-5,185.9	-5,182.3	$-5,\!889.4$	121,432.3***
	(11,336.4)	(9,055.5)	(9,705.7)	(9,703.9)	(9,611.3)	(31,002.1)
Total fleet		4.027***	4.667**	4.640**	4.600**	4.128**
D 1		(0.7025)	(2.021)	(2.029)	(2.032)	(2.050)
Population			-0.2297	-0.2240	-0.2294	-0.1616
CDD :+-			(0.5164)	(0.5184)	(0.5185)	(0.5226)
GDP per capita				140.9	133.1 (84.99)	126.0^* (70.63)
ННІ				(90.77)	-2.049***	-1.648***
11111					(0.4404)	(0.4064)
Just one \times Time FE					(0.1101)	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	480,076	$470,\!486$	468,930	$468,\!450$	$468,\!450$	468,450
\mathbb{R}^2	0.86140	0.86559	0.86528	0.86533	0.86557	0.86969
Within \mathbb{R}^2	0.00198	0.08806	0.08942	0.08979	0.09138	0.11922

Month-Year FE : Vol_eth



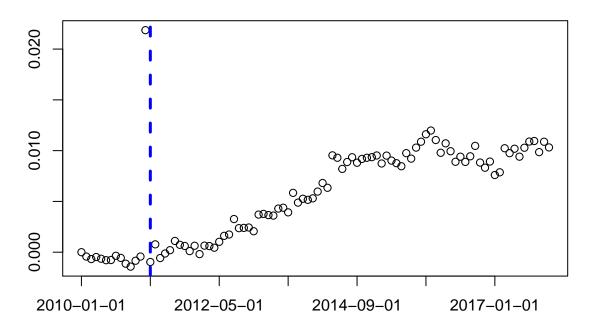
Dependent Variable:			Diesel v	volume		
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Just one$	221,594.0***	136,985.3***	142,266.4***	141,947.3***	136,333.6***	273,592.5**
	(48,150.1)	(44,397.1)	(45,473.5)	(45,464.3)	(44,230.1)	(134,889.0)
Total fleet		12.52***	9.987***	9.718***	9.401**	9.469**
D		(1.645)	(3.783)	(3.762)	(3.692)	(3.814)
Population			0.8820	0.9459	0.9027	0.7180
CDD :+-			(0.8151)	(0.8083)	(0.7943)	(0.8331)
GDP per capita				1,135.8* (611.9)	$1,074.2^*$ (550.5)	1,062.4** (466.6)
HHI				(011.9)	-16.27***	-14.68***
11111					(3.068)	(2.455)
Just one \times Time FE					()	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	480,076	$470,\!486$	468,930	$468,\!450$	$468,\!450$	$468,\!450$
\mathbb{R}^2	0.88995	0.89802	0.89808	0.89824	0.89941	0.90046
Within R ²	0.01964	0.10622	0.10691	0.10915	0.11942	0.12860

Month-Year FE : Vol_dies



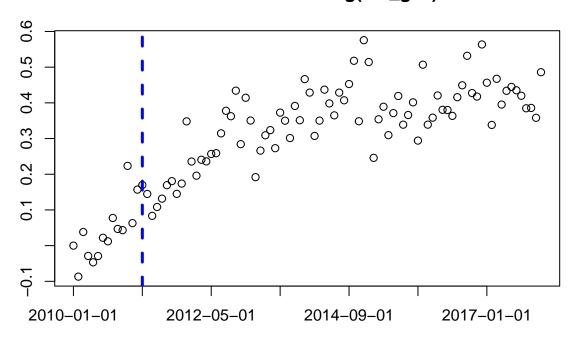
Dependent Variable:	ln(Total volume)					
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Just one$	0.1114***	0.0765***	0.0790***	0.0794***	0.0252***	0.1077***
	(0.0235)	(0.0220)	(0.0217)	(0.0215)	(0.0054)	(0.0127)
Total fleet		$5.49 \times 10^{-6***}$	$4.55 \times 10^{-6***}$	$4.33 \times 10^{-6***}$	$1.27 \times 10^{-6***}$	$1.47 \times 10^{-6***}$
D 1		(1.72×10^{-6})	(1.67×10^{-6})	(1.64×10^{-6})	(4.64×10^{-7})	(4.65×10^{-7})
Population			3.25×10^{-7} (8.79×10^{-7})	3.76×10^{-7} (8.81×10^{-7})	-4.03×10^{-8} (1.59×10^{-7})	-1.81×10^{-7} (1.39×10^{-7})
GDP per capita			(8.79 × 10)	0.0010	0.0004^{**}	0.0004^{***}
GD1 pc1 capita				(0.0018)	(0.0004)	(0.0001)
HHI				(0.000)	-0.0002***	-0.0002***
					(4.61×10^{-7})	(4.11×10^{-7})
Just one \times Time FE						Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	480,076	$470,\!486$	468,930	$468,\!450$	$468,\!450$	$468,\!450$
\mathbb{R}^2	0.78099	0.78406	0.78418	0.78457	0.98788	0.98821
Within R ²	0.00472	0.02095	0.02114	0.02262	0.94501	0.94651

Month-Year FE : log(Vol_tot)



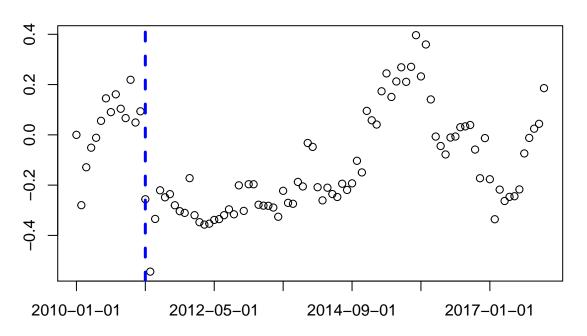
Dependent Variable:	$ln(Gas\ volume)$					
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Just one$	0.3701^{***}	0.2213***	0.2391***	0.2383***	0.2157^{***}	0.4357
	(0.0605)	(0.0487)	(0.0476)	(0.0464)	(0.0404)	$(92.60)_{2}$
Total fleet		$2.23 \times 10^{-5***}$	$1.38 \times 10^{-5***}$	$1.32 \times 10^{-5***}$	$1.19 \times 10^{-5***}$	$1.34 \times 10^{-5***}$
D 1.4		(4.96×10^{-6})	(4.96×10^{-6})	(4.91×10^{-6})	(4.39×10^{-6})	(4.5×10^{-6})
Population			2.95×10^{-6}	3.1×10^{-6}	2.93×10^{-6}	1.9×10^{-6}
CDD :t-			(2.96×10^{-6})	(2.97×10^{-6})	(2.67×10^{-6})	(2.49×10^{-6})
GDP per capita				0.0026^{***} (0.0007)	0.0024^{***} (0.0005)	0.0023***
HHI				(0.0007)	(0.0005) $-6.55 \times 10^{-5***}$	$(0.0004) \\ -5.88 \times 10^{-5***}$
11111					(4.23×10^{-6})	(3.83×10^{-6})
Just one \times Time FE					(1.20 / 10)	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	$479,\!277$	469,751	468,195	467,715	467,715	467,715
\mathbb{R}^2	0.91668	0.92628	0.92665	0.92697	0.93323	0.93622
Within \mathbb{R}^2	0.02371	0.14434	0.14869	0.15351	0.22611	0.26076

Month-Year FE : log(Vol_gas)



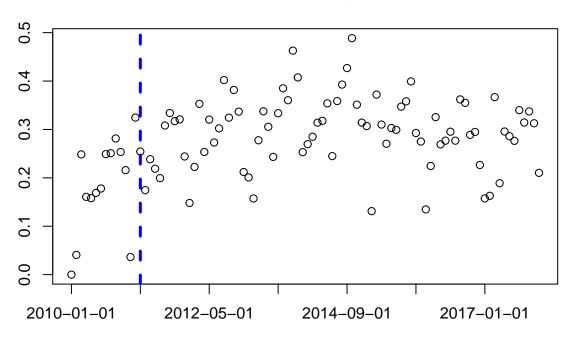
Dependent Variable:			ln(Et	thanol volume)		
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Just one$	0.2555****	0.1404**	0.1511**	0.1452**	0.1276*	0.8830***
	(0.0768)	(0.0699)	(0.0700)	(0.0692)	(0.0658)	(0.2265)
Total fleet		$1.75 \times 10^{-5***}$	$1.27 \times 10^{-5***}$	$1.24 \times 10^{-5***}$	$1.15 \times 10^{-5***}$	$1.29 \times 10^{-5***}$
		(4.54×10^{-6})	(4.76×10^{-6})	(4.69×10^{-6})	(4.36×10^{-6})	(4.53×10^{-6})
Population			1.68×10^{-6}	1.77×10^{-6}	1.62×10^{-6}	5.14×10^{-7}
CDD :+-			(2.5×10^{-6})	(2.51×10^{-6})	(2.26×10^{-6})	(2.08×10^{-6})
GDP per capita				0.0032^{***} (0.0010)	0.0028*** (0.0009)	0.0022**
HHI				(0.0010)	$-5.81 \times 10^{-5***}$	$(0.0009) \\ -4.96 \times 10^{-5***}$
11111					(6.13×10^{-6})	(5.44×10^{-6})
Just one \times Time FE					(0.13 / 10)	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	$368,\!426$	360,875	359,668	359,316	359,316	359,316
\mathbb{R}^2	0.87474	0.87917	0.87984	0.88019	0.88310	0.88607
Within \mathbb{R}^2	0.00583	0.04595	0.04671	0.04928	0.07240	0.09593

Month-Year FE : log(Vol_eth)



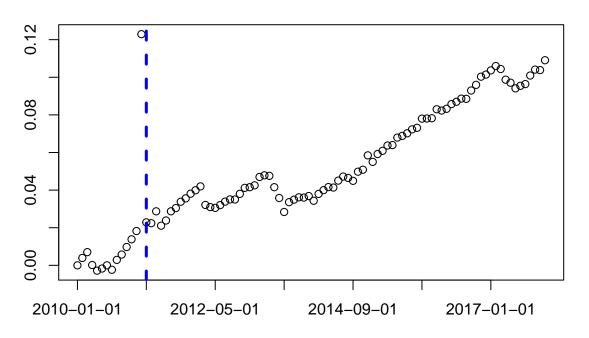
Dependent Variable:			$ln(\Gamma$	Diesel volume)		
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Just one$	0.4123***	0.2981^{***}	0.3094***	0.3088***	0.2810***	-0.0635
	(0.0660)	(0.0603)	(0.0593)	(0.0592)	(0.0518)	$(339.7)_{2}$
Total fleet		$1.76 \times 10^{-5***}$	$1.25 \times 10^{-5***}$	$1.17 \times 10^{-5***}$	$1.01 \times 10^{-5***}$	$1.12 \times 10^{-5***}$
D 1		(4.04×10^{-6})	(4.41×10^{-6})	(4.29×10^{-6})	(3.7×10^{-6})	(3.63×10^{-6})
Population			1.75×10^{-6}	1.95×10^{-6}	1.73×10^{-6}	6.65×10^{-7}
CDP nor capita			(2.19×10^{-6})	$(2.2 \times 10^{-6}) \\ 0.0035^*$	$(1.83 \times 10^{-6}) \\ 0.0032^*$	(1.62×10^{-6}) 0.0031^{**}
GDP per capita				(0.0033)	(0.0032)	(0.0012)
ННІ				(0.0021)	$-8.19 \times 10^{-5***}$	$-7.41 \times 10^{-5***}$
					(5.24×10^{-6})	(4.74×10^{-6})
Just one \times Time FE					,	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	474,954	$465,\!494$	463,946	463,466	463,466	$463,\!466$
\mathbb{R}^2	0.89617	0.90007	0.90015	0.90063	0.90740	0.91034
Within \mathbb{R}^2	0.01657	0.05894	0.05975	0.06460	0.12833	0.15605

Month-Year FE : log(Vol_dies)



Dependent Variable:	ln(Total number of stations)					
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Just one$	0.2261^{***}	0.1241***	0.1342***	0.1340***	0.1205***	0.5029***
	(0.0417)	(0.0343)	(0.0337)	(0.0331)	(0.0298)	(0.0879)
Total fleet		$1.53 \times 10^{-5***}$	$1.07 \times 10^{-5***}$	$1.04 \times 10^{-5***}$	$9.63 \times 10^{-6***}$	$1.03 \times 10^{-5***}$
		(3.64×10^{-6})	(3.69×10^{-6})	(3.67×10^{-6})	(3.39×10^{-6})	(3.46×10^{-6})
Population			1.59×10^{-6}	1.67×10^{-6}	1.57×10^{-6}	9.99×10^{-7}
GDD			(2.03×10^{-6})	(2.04×10^{-6})	(1.87×10^{-6})	(1.76×10^{-6})
GDP per capita				0.0013***	0.0012***	0.0011***
11111				(0.0004)	(0.0004)	(0.0004)
HHI					$-3.89 \times 10^{-5***}$	$-3.47 \times 10^{-5***}$
Just one \times Time FE					(2.75×10^{-6})	(2.46×10^{-6}) Yes
						ies
Fixed-effects						ļ
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	$477,\!451$	467,926	466,370	465,897	$465,\!897$	$465,\!897$
\mathbb{R}^2	0.91744	0.92783	0.92836	0.92858	0.93375	0.93643
Within R ²	0.02102	0.15563	0.15907	0.16220	0.22278	0.25423

Month-Year FE : log(No_st_total)



Dependent Variable:	ln(Number of independent stations)					
Model:	(1)	(2)	(3)	(4)	(5)	(6)
Variables						
$Merge \times Just one$	0.0941^{***}	0.0386	0.0526*	0.0520*	0.0495^{*}	0.0145
	(0.0343)	(0.0290)	(0.0292)	(0.0293)	(0.0287)	(4,108.6)
Total fleet		$8.17 \times 10^{-6***}$	2.15×10^{-6}	2.2×10^{-6}	2×10^{-6}	2.01×10^{-6}
D 1.1		(1.11×10^{-6})	(1.84×10^{-6})	(1.84×10^{-6})	(1.79×10^{-6})	(1.85×10^{-6})
Population			$2.05 \times 10^{-6**}$	$2.04 \times 10^{-6**}$	$2 \times 10^{-6**}$	$1.87 \times 10^{-6**} $ (8.52×10^{-7})
GDP per capita			(9.02×10^{-7})	(9.02×10^{-7}) -0.0005	(8.64×10^{-7}) -0.0006	(8.52×10^{-4}) -0.0006
GD1 per capita				(0.0005)	(0.0005)	(0.0006)
HHI				(0.0000)	$-1.36 \times 10^{-5***}$	$-1.24 \times 10^{-5***}$
					(2.55×10^{-6})	(2.37×10^{-6})
Just one \times Time FE					,	Yes
Fixed-effects						
Municipality	Yes	Yes	Yes	Yes	Yes	Yes
Month-Year	Yes	Yes	Yes	Yes	Yes	Yes
Fit statistics						
Observations	389,693	381,729	380,530	380,083	380,083	380,083
\mathbb{R}^2	0.90195	0.90593	0.90640	0.90656	0.90742	0.90787
Within R ²	0.00434	0.05451	0.06074	0.06129	0.06992	0.07444

Month-Year FE : log(No_st_Unbranded)

