

Appendix tables

Table 1 Economic elasticity coefficient

Year	Income	IR	Ela ₁ F _{j,n} (j=3)	Ela ₂ F _{k,n} (k=1-3)	Ela ₃ F _{3,n}	Ela ₄ F _{4,n}	Ela ₅ F _{5,n}	Ela ₆ F _{6,n}
2000	9230							
2005	16853	11.7	0.0000	0.0000	0.0184	0.0000	0.0000	0.0214
2010	29228	13.2	-0.0190	-0.0127	0.0134	0.0000	0.0000	0.0253
2015	48458	10.9	-0.0307	0.0000	0.0000	0.0000	0.0000	0.0230
2020	67756	8.8	-0.0285	-0.0228	0.0228	0.0000	0.0000	0.0228
2025	79446	7.5	-0.0195	-0.0089	0.0136	0.0000	0.0000	0.0230
2030	85741	6.5	-0.0195	-0.0089	0.0136	0.0000	0.0000	0.0230

Table 2 Variables of water consumption behaviors

Year	F _{j,n} (j=1-5)					F _{k,n} (k=1-4)				F _{i,n} (i=3-6)			
	j=1	j=2	j=3	j=4	j=5	k=1	k=2	k=3	k=4	i=3	i=4	i=5	i=6
2000	2.00	6.00	0.57	0.14	0.50	3.00	3.00	3.00	3.50	0.10	0.00	4.50	0.17
2005	2.00	6.00	0.57	0.14	0.36	3.00	3.00	3.00	3.50	0.12	0.00	5.00	0.21
2010	2.00	6.00	0.43	0.14	0.21	2.50	2.50	2.50	3.50	0.14	0.00	6.50	0.29
2015	2.00	6.00	0.29	0.14	0.06	2.50	2.50	2.50	3.50	0.14	0.00	7.50	0.36
2019	2.00	6.00	0.21	0.14	0.06	2.00	2.00	2.00	3.50	0.17	0.00	8.00	0.43
2025	2.00	6.00	0.18	0.14	0.06	1.87	1.87	1.87	3.50	0.19	0.00	8.00	0.50
2030	2.00	6.00	0.16	0.14	0.06	1.76	1.76	1.76	3.50	0.21	0.00	8.00	0.58

Year	q _{j,n} (j=1-5)					q _{k,n} (j=1-4)				q _{i,n} (i=3-5)		
	j=1	j=2	j=3	j=4	j=5	k=1	k=2	k=3	k=4	i=3	i=4	i=5
2000	2.0	1.5	12.0	12.0	12.0	8.0	8.0	2.0	2.0	130	13.5	8.0
2005	2.0	1.5	12.0	12.0	12.0	8.0	8.0	2.0	2.0	130	13.5	8.0
2010	2.0	1.5	12.0	12.0	8.0	8.0	8.0	2.4	2.0	130	13.5	8.0
2015	2.0	1.5	12.0	12.0	6.0	9.0	12.0	2.4	2.0	130	13.5	8.0
2019	2.0	1.5	12.0	12.0	6.0	9.0	12.0	3.2	2.0	130	13.5	8.0
2025	2.0	1.5	12.0	12.0	6.0	10.0	14.0	3.2	2.0	130	13.5	8.0
2030	2.0	1.5	12.0	12.0	6.0	10.0	14.0	3.2	2.0	130	13.5	8.0

Year	T _{6,n}	E ₁	E ₂	E ₃	E ₄	E ₅	E ₆	h _n	EG _{6,L}
2000	20	1	1	1	0	1	1	3.5	0.15
2005	18	1	1	1	0	1	1	3.5	0.15
2010	16	1	1	1	0	1	1	3.5	0.15
2015	16	1	1	1	0	1	1	3.5	0.15
2019	15	1	1	1	0	1	1	3.5	0.15
2025	15	1	1	1	0	1	1	3.5	0.15
2030	15	1	1	1	0	1	1	3.5	0.15

Table 3 Penetration rate of water saving devices in Beijing households

Penetration rate of water saving devices				
Year	Shower	Toilet	basin	Clothes washer
2000	0	0	0	0
2005	5	29	17	2
2010	23	60	27	13
2015	35	66	38	28
2019	42	72	47	36
2025	57	77	62	51
2030	72	80	75	66