

## Supplementary Materials:

**Table S1.** Statistics on evaluation indexes for the years 2012-2020

Index Value	$U_{11}$	$U_{12}$	$U_{13}$	$U_{14}$	$U_{21}$	$U_{22}$	$U_{23}$	$U_{31}$	$U_{32}$	$U_{33}$	$U_{41}$	$U_{42}$	$U_{43}$	$U_{44}$
2012	681.7	361.13	121.98	27.60	731	15.05	75.00	4.69	94.06	41.1	14941.72	66.3	0.79	31.90
2013	727.5	427.27	106.20	32.80	733	17.84	80.09	5.26	86.57	43.0	13791.93	71.7	0.79	32.05
2014	754.2	330.41	143.30	25.60	739	17.27	83.43	5.73	83.08	44.6	15376.00	76.7	1.23	30.30
2015	788.2	367.64	121.76	28.70	745	9.04	75.82	6.09	73.72	45.7	9618.34	79.2	2.57	28.05
2016	859.7	488.49	91.68	38.50	751	14.02	67.94	6.58	68.45	47.4	7661.80	87.6	7.82	27.70
2017	829.3	432.54	103.58	34.50	759	1.47	68.36	7.09	63.55	48.6	3007.53	86.8	6.73	27.87
2018	936.7	564.79	76.46	45.30	766	8.26	69.17	7.45	58.13	50.1	2659.32	86.9	7.51	28.06
2019	663.0	377.59	113.91	30.40	769	4.87	70.08	7.80	55.26	50.1	2817.26	95.2	4.36	26.85
2020	1023.3	522.79	81.17	42.54	771	-0.07	70.46	8.07	52.67	50.1	2543.66	95.5	0.54	27.15

**Table S2.** Data collection of indexes under four scenarios and three water resources scenarios in 2025

[illegible]

**Table S3.** Data collection of indexes under four scenarios and three water resources scenarios in 2030

[illegible]