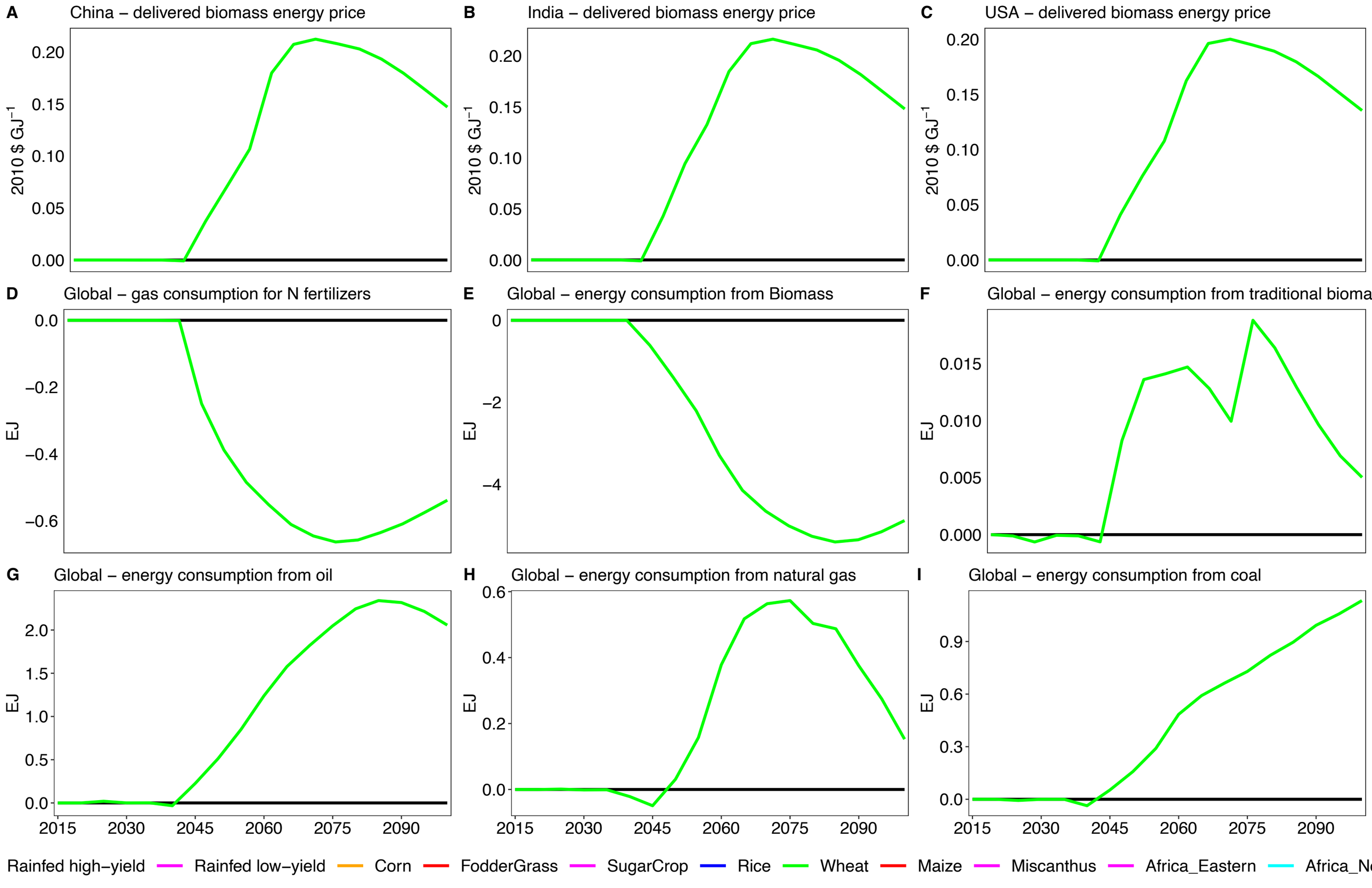
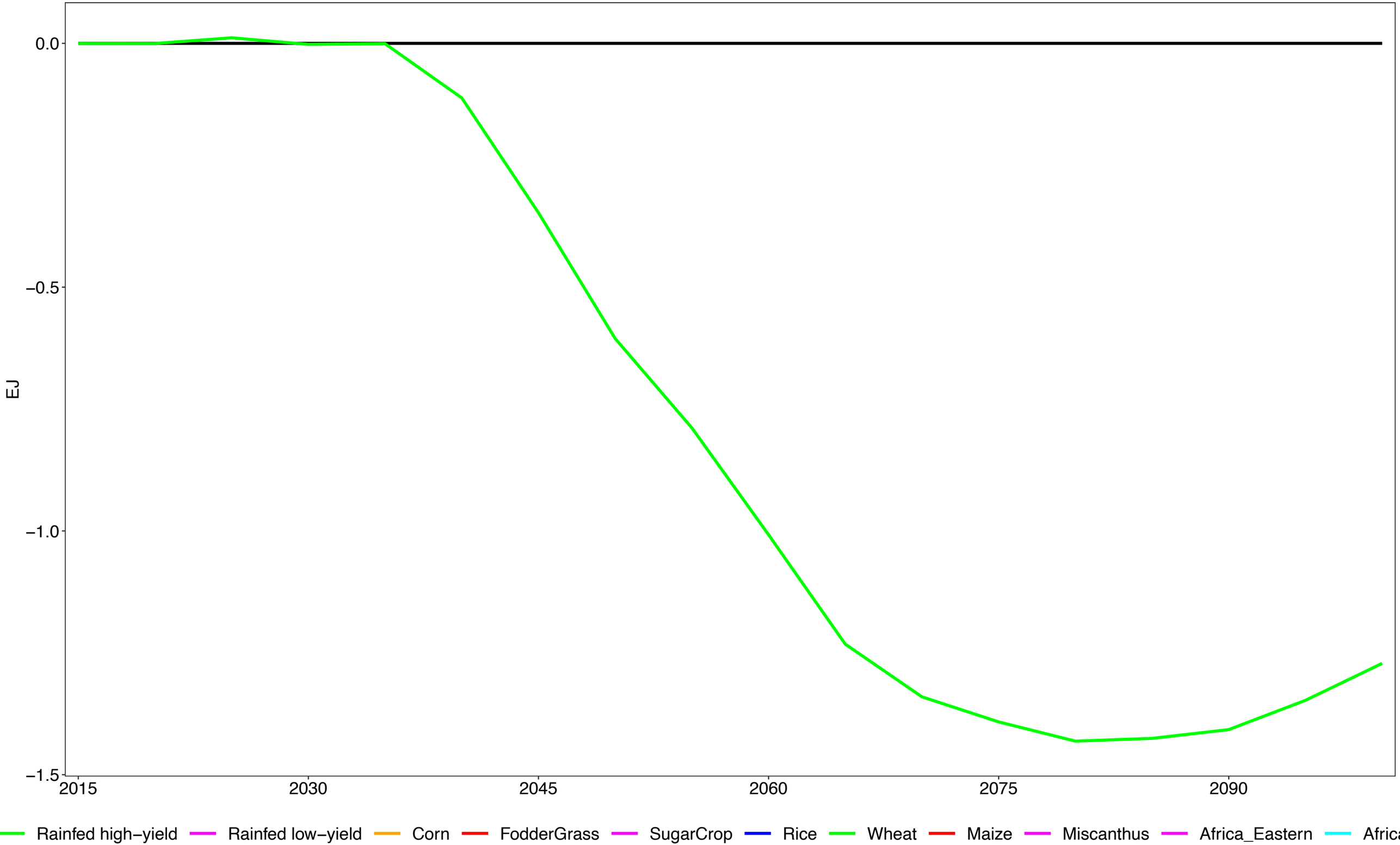

A
China – delivered biomass energy price
2010 $ GJ−1
0.20
0.15
0.10
0.05
0.00
B
India – delivered biomass energy price
2010 $ GJ−1
0.20
0.15
0.10
0.05
0.00
C
USA – delivered biomass energy price
2010 $ GJ−1
0.20
0.15
0.10
0.05
0.00
D
Global – gas consumption for N fertilizers
EJ
0.0
−0.2
−0.4
−0.6
E
Global – energy consumption from Biomass
EJ
0
−2
−4
F
Global – energy consumption from traditional bioma
EJ
0.015
0.010
0.005
0.000
G
Global – energy consumption from oil
EJ
2.0
1.5
1.0
0.5
0.0
2015
2030
2045
2060
2075
2090
H
Global – energy consumption from natural gas
EJ
0.6
0.4
0.2
0.0
2015
2030
2045
2060
2075
2090
I
Global – energy consumption from coal
EJ
0.9
0.6
0.3
0.0
2015
2030
2045
2060
2075
2090
Rainfed high−yield
Rainfed low−yield
Corn
FodderGrass
SugarCrop
Rice
Wheat
Maize
Miscanthus
Africa_Eastern
Africa_N

Global – total energy consumption
Change compared to the Reference scenario



Energy consumption for 2100

Units	scenario	region	fuel	year	value	change_ref	per_change_ref
EJ	Global constraint (15%) on fertilizer	Global	a oil	2060	259.9	1.240	0.479
EJ	Global constraint (15%) on fertilizer	Global	a oil	2100	304.9	2.057	0.679
EJ	Global constraint (15%) on fertilizer	Global	b natural gas	2060	279.2	0.378	0.136
EJ	Global constraint (15%) on fertilizer	Global	b natural gas	2100	355.9	0.153	0.043
EJ	Global constraint (15%) on fertilizer	Global	c coal	2060	287.5	0.485	0.169
EJ	Global constraint (15%) on fertilizer	Global	c coal	2100	314.3	1.133	0.362
EJ	Global constraint (15%) on fertilizer	Global	d biomass	2060	94.2	–3.293	–3.376
EJ	Global constraint (15%) on fertilizer	Global	d biomass	2100	106.2	–4.883	–4.397
EJ	Global constraint (15%) on fertilizer	Global	j traditional biomass	2060	14.5	0.015	0.101
EJ	Global constraint (15%) on fertilizer	Global	j traditional biomass	2100	5.4	0.005	0.093
EJ	Global constraint (15%) on fertilizer	Global	Total energy consumption	2060	1008.9	–1.008	–0.100
EJ	Global constraint (15%) on fertilizer	Global	Total energy consumption	2100	1208.9	–1.272	–0.105
EJ	Reference	Global	a oil	2060	258.7	0.000	0.000
EJ	Reference	Global	a oil	2100	302.8	0.000	0.000
EJ	Reference	Global	b natural gas	2060	278.9	0.000	0.000
EJ	Reference	Global	b natural gas	2100	355.8	0.000	0.000
EJ	Reference	Global	c coal	2060	287.0	0.000	0.000
EJ	Reference	Global	c coal	2100	313.1	0.000	0.000
EJ	Reference	Global	d biomass	2060	97.5	0.000	0.000
EJ	Reference	Global	d biomass	2100	111.1	0.000	0.000
EJ	Reference	Global	j traditional biomass	2060	14.5	0.000	0.000