

AP Environmental Science

Glossary · every term in the course, A–Z

English	Pinyin
10% rule	10% dīng lǚ
A coral reef	shān hú jiāo
 A glacier	bīng chuān
/ə 'gleɪʃə/	
A nuclear power station	hé diàn zhàn
A tropical rainforest	rè dài yǔ lín
 abiotic	fēi shēng wù de
/,æbi'vɪk/	
 acid mine drainage	suān xìng kuàng shān fèi
/'æsɪd maɪn 'dreɪnɪdʒ/	shuǐ
 acid rain	suān yǔ
/'æsɪd reɪn/	
 acute	jí xìng
/ə'kju:t/	
 adaptation	shì yìng
/,ædæp'teɪʃn/	
advantage	yōu diǎn
 age structure diagram	nián líng jié gòu tú
/eɪdʒ 'strʌktʃə 'daɪəgræm/	
 age-structure diagram	nián líng jié gòu tú
/eɪdʒ 'strʌktʃə 'daɪəgræm/	
 air pollution	kōng qì wū rǎn
/eə pə'lu:ʃn/	
 algal bloom	zǎo huá
/'ælgəl blu:m/	
altitude	hǎi bá
ammonia	ān
/æ'məʊniə/	
ammonification	ān huà zuò yòng
An open-pit mine	lù tiān kuàng

English	Pinyin
angle	jiǎo dù
 anthracite <i>/'ænrə'saɪt/</i>	wú yān méi
 anthropogenic <i>/'ænrəpə'dʒenɪk/</i>	rén wéi de
apex predator	dǐng jí bǔ shí zhě
aphotic zone	wú guāng céng
 aquaculture <i>/'ækwəkʌltʃə/</i>	shuǐ chǎn yǎng zhí
 aquatic <i>/'ækwætɪk/</i>	shuǐ shēng de
aquifer	hán shuǐ céng
aquifer depletion	hán shuǐ céng kū jié
 asbestos <i>/'æs'bestəs/</i>	shí mián
assimilation <i>/'æsimɪ'leɪʃn/</i>	tóng huà zuò yòng
 atmosphere <i>/'ætməsfɪə/</i>	dà qì céng
autotrophs	zì yǎng shēng wù
axis <i>/'æksɪs/</i>	dì zhóu
behavioral <i>/'bi'hɛvjərəl/</i>	xíng wéi de
benefits <i>/'benɪfɪts/</i>	yì chù
 bioaccumulation <i>/'baɪəʊə,kju:mjə'leɪʃn/</i>	shēng wù lěi jī
 biocapacity <i>/'baɪəʊkə'pæsɪti/</i>	shēng wù chéng zài lì
 biodiversity <i>/'baɪəʊdaɪ'vɜ:sɪti/</i>	shēng wù duō yàng xìng
biofuels	shēng wù rán liào
biogeochemical cycle	shēng wù dì qiú huà xué xún huán

English	Pinyin
biological <i>/ˌbaɪəˈlɒdʒɪkl/</i>	shēng wù de
 biomagnification <i>/ˌbaɪəʊˌmæɡnɪfɪˈkeɪʃn/</i>	shēng wù fàng dà
 biomass <i>/ˌbaɪəʊˈmæs/</i>	shēng wù liàng
biomass fuel	shēng wù zhì
 biome <i>/ˈbaɪəʊm/</i>	shēng wù qún xì
 biotic <i>/baɪˈɒtɪk/</i>	shēng wù de
 birth rate <i>/bɜːθ reɪt/</i>	chū shēng lǜ
 bitumen <i>/ˈbɪtʃuːmən/</i>	lì qīng
 bituminous <i>/baɪˈtʃuːmɪnəs/</i>	yān méi
boreal forest	běi fāng zhēn yè lín
bottom trawling	dǐ tuō wǎng
brackish	bàn xián shuǐ
 bycatch <i>/ˈbaɪkætʃ/</i>	jiān bǔ
byproducts	fù chǎn wù
calcifying organisms	gài huà shēng wù
 calcium carbonate <i>/ˈkælsiəm ˈkɑːbəneɪt/</i>	tàn suān gài
captive breeding <i>/ˈkæptɪv ˈbriːdɪŋ/</i>	quān yǎng fán zhí
carbon <i>/ˈkɑːbən/</i>	tàn
 carbon cycle <i>/ˈkɑːbən ˈsaɪkl/</i>	tàn xún huán
 carbon dioxide <i>/ˈkɑːbən daɪˈɒksaɪd/</i>	èr yǎng huà tàn
 carbon monoxide <i>/ˈkɑːbən mʌˈnɒksaɪd/</i>	yī yǎng huà tàn

English	Pinyin
 carbonic acid <i>/kɑ:'bɒnɪk 'æsɪd/</i> carnivores	tàn suān shí ròu dòng wù
 carrying capacity <i>/'kæriŋ kə'pæsɪti/</i> catalyst <i>/'kætəlist/</i>	huán jìng róng nà liàng cuī huà jì
 catalytic converters <i>/,kætə'litɪk kən'vɜ:təz/</i> catch limits cellular respiration <i>/'seljʊlə ,respr'reɪʃn/</i> certain pesticides	cuī huà zhuǎn huà qì bǔ lǎo xiàn é xì bāo hū xī mǒu xiē nóng yào
 CFCs <i>/,si: ef 'si:z/</i> challenges chemical <i>/'kemɪkl/</i> chemical energy <i>/'kemɪkl 'enədʒi/</i> chemosynthesis chlorofluorocarbons	lǚ fú tīng tiǎo zhàn huà xué de huà xué néng huà néng hé chéng zuò yòng lǚ fú tīng
 Cholera <i>/'kɒləərə/</i>	huò luàn
 chronic <i>/'krɒnɪk/</i>	màn xìng
 clay <i>/kleɪ/</i> cleaner energy	nián lì qīng jié néng yuán
 clearcutting <i>/'kliəkʌtɪŋ/</i>	jiē fá
 climate <i>/'klaɪmət/</i>	qì hòu
 climate change <i>/'klaɪmət tʃeɪndʒ/</i>	qì hòu biàn huà

English	Pinyin
 climax community /'klaɪmæks kə'mju:nɪti/	dǐng jí qún luò
 coal /kəʊl/	méi tàn
 cogeneration /ˌkəʊdʒənə'reɪʃn/	rè diàn lián chǎn
collapse	bēng kuì
colonization	dìng jū
 combustion /kəm'bastʃn/	rán shāo
commensalism	piān lì gòng shēng
common resources /'kɒmən rɪ'zɔ:sɪz/	gōng gòng zī yuán
community /kə'mju:nɪti/	qún luò
 competition /ˌkɒmpə'tɪʃn/	jìng zhēng
competitive exclusion principle	jìng zhēng pái chì yuán lǐ
composition /ˌkɒmpə'zɪʃn/	zǔ chéng
 composting /'kɒmpəstɪŋ/	duī féi
concentrated animal feeding operations	jí zhōng dòng wù sì yǎng chǎng
 condensation /kɒndən'seɪʃn/	níng jié
coniferous	zhēn yè de
 consumers /kən'su:məz/	xiāo fèi zhě
 contour plowing /'kɒntəʊ 'pləʊɪŋ/	děng gāo gēng zuò
control /kən'trəʊl/	kòng zhì
 convection cells /kən'vekʃn selz/	duì liú huán liú

English	Pinyin
 convergent <i>/kən'vɜ:dʒənt/</i>	huì jù xíng
 coral bleaching <i>/'kɒrəl 'bli:tʃɪŋ/</i>	shān hú bái huà
 coral reef <i>/'kɒrəl ri:f/</i>	shān hú jiāo
 Coriolis effect <i>/ˌkɒrɪ'əʊlɪz ɪ'fekt/</i>	kē lǐ ào lì xiào yìng
cover crops	fù gài zuò wù
crop protection	zuò wù bǎo hù
 crop rotation <i>/krɒp rəʊ'teɪʃn/</i>	lún zuò
crude birth rate <i>/kru:d bɜ:θ reɪt/</i>	cū chū shēng lǜ
cultural eutrophication	wén huà fù yíng yǎng huà
cultural services	wén huà fú wù
 dam <i>/dæm/</i>	dà bà
dam reservoir	shuǐ kù
 decomposers <i>/ˌdi:kəm'pəʊzəz/</i>	fēn jiě zhě
decomposition <i>/ˌdi:kɒmpə'zɪʃn/</i>	fēn jiě
degradation	tuì huà
 demographic transition <i>/ˌdemə'græfɪk træn'sɪʃn/</i>	rén kǒu zhuǎn biàn
 denitrification <i>/diːnaɪtrɪfɪ'keɪʃn/</i>	fǎn xiāo huà zuò yòng
density-dependent <i>/'densɪtɪ dɪ'pendənt/</i>	mì dù zhì yuē
density-independent <i>/'densɪtɪ ˌɪndɪ'pendənt/</i>	fēi mì dù zhì yuē
depletion <i>/dɪ'pli:ʃn/</i>	kū jié
 desert <i>/'dezət/</i>	shā mò

English	Pinyin
 desertification <i>/dɪˌzɜːtɪfɪˈkeɪʃn/</i>	huāng mò huà
detritivores	shí fǔ dòng wù
 developed <i>/dɪˈveləpt/</i>	fā dá de
developing <i>/dɪˈveləpɪŋ/</i>	fā zhǎn zhōng de
development <i>/dɪˈveləpmənt/</i>	kāi fā
die-off	dà liàng sǐ wáng
disease <i>/dɪˈziːz/</i>	jí bìng
disinfected	xiāo dú
dispersing	kuò sàn
dissolved oxygen	róng jiě yǎng
disturbance	gān rǎo
 divergent <i>/daɪˈvɜːdʒənt/</i>	lí sàn xíng
DNA <i>/ˌdiː en ˈeɪ/</i>	tuō yǎng hé táng hé suān
 dose <i>/dəʊs/</i>	jì liàng
 dose-response curve <i>/dəʊs rɪˈspɒns kɜːv/</i>	jì liàng fǎn yìng qū xiàn
 dose-response curve <i>/dəʊs rɪˈspɒns kɜːv/</i>	jì liàng fǎn yìng qū xiàn
 doubling time <i>/ˈdʌblɪŋ taɪm/</i>	bèi zēng shí jiān
drawbacks	quē diǎn
 drip irrigation <i>/drɪp ˌɪrɪˈgeɪʃn/</i>	dī guǎn
drought	gān hàn
 Dysentery <i>/ˈdɪsəntəri/</i>	lì jí

English	Pinyin
 e-waste <i>/i: weɪst/</i>	diàn zǐ lā jī
earthquakes	dì zhèn
ecological efficiency	shēng tài xiào lǜ
 ecological footprint <i>/,ekə'lɒdʒɪkl 'fʊtprɪnt/</i>	shēng tài zú jì
 ecological succession <i>/,ekə'lɒdʒɪkl sək'seʃn/</i>	shēng tài yǎn tì
 ecological tolerance <i>/,ekə'lɒdʒɪkl 'tɒlərəns/</i>	shēng tài nài shòu xìng
ecological value	shēng tài jià zhí
ecology	shēng tài xué
economic	jīng jì de
economic benefits	jīng jì xiào yì
economic development <i>/,i:kə'nɒmɪk dɪ'veləpmənt/</i>	jīng jì fā zhǎn
economic value	jīng jì jià zhí
 ecosystem <i>/'i:kəʊsɪstəm/</i>	shēng tài xì tǒng
 ecosystem services <i>/'i:kəʊsɪstəm 'sɜ:vɪsɪz/</i>	shēng tài xì tǒng fú wù
ecotone	qún luò jiāo cuò qū
education	jiào yù
 efficiency <i>/ɪ'fɪʃənsi/</i>	xiào lǜ
effluent	chū shuǐ
El Nino	è ěr ní nuò
 El Niño <i>/el 'ni:njəʊ/</i>	è ěr ní nuò
 electrostatic precipitators <i>/ɪ,lektɹəʊ'stætɪk prɪ'sɪpɪteɪtəz/</i>	jìng diàn chú chén qì

English	Pinyin
emigration <i>/,emɪ'greɪʃn/</i>	yí chū
emissions <i>/ɪ'mɪʃnz/</i>	pái fàng
endangered <i>/en'deɪndʒəd/</i>	bīn wēi
 endangered species <i>/en'deɪndʒəd 'spi:si:z/</i>	bīn wēi wù zhǒng
 endemic <i>/en'demɪk/</i>	tè yǒu
endemic species	tè yǒu zhǒng
 endocrine disruptors <i>/'endəʊkraɪn dɪs'rʌptəz/</i>	nèi fēn mì gān rǎo wù
energy choices	néng yuán xuǎn zé
 energy conservation <i>/'enədʒi ,kɒnsə'veɪʃn/</i>	néng yuán jié yuē
energy consumption	néng yuán xiāo hào
energy content	néng liàng hán liàng
energy efficiency	néng yuán xiào lǜ
 energy pyramid <i>/'enədʒi 'pɪrəməɪd/</i>	néng liàng jīn zì tǎ
energy resources	néng yuán zī yuán
% energy return on energy investment (EROEI) <i>/'enədʒi rɪ'tʌ:n ɒn 'enədʒi ɪn'vestmənt/</i>	néng liàng tóu zī huí bào lǜ
energy trade	néng yuán mào yì
enhance	zēng qiáng
environment <i>/en'vaɪrənmənt/</i>	huán jìng
environmental <i>/en,vaɪrən'mentl/</i>	huán jìng de
environmental change	huán jìng biàn huà

English	Pinyin
environmental costs	huán jìng dài jià
environmental impacts	huán jìng yǐng xiǎng
environmental indicators	huán jìng zhǐ biāo
environmental problems	huán jìng wèn tí
 environmental stressors <i>/enˌvaɪrən'mentl 'stresəz/</i>	huán jìng yā lì
 episodic <i>/ˌepɪ'sɒdɪk/</i>	ǒu fā xìng
equator <i>/i'kwetə/</i>	chì dào
 erosion <i>/i'rəʊʒn/</i>	qīn shí
escaped	táo yì de
 estuaries <i>/'estjuːəriz/</i>	hé kǒu
 ethanol <i>/'eθənɒl/</i>	yǐ chún
 eutrophication <i>/juːtrəfi'keɪʃn/</i>	fù yíng yǎng huà
 evaporation <i>/ˌvæpə'reɪʃn/</i>	zhēng fā
evapotranspiration	zhēng sǎn
exponential growth <i>/ˌekspə'nenʃl grəʊθ/</i>	zhǐ shù zēng zhǎng
 exponentially <i>/ˌekspə'nenʃəli/</i>	zhǐ shù zēng zhǎng
 extinction <i>/ek'strɪŋkʃn/</i>	miè jué
extraction <i>/ek'strækʃn/</i>	kāi cǎi
family planning <i>/'fæmili 'plænɪŋ/</i>	jì huà shēng yù
feedback loops	fǎn kuì huí lù

English	Pinyin
feeding the power station	fā diàn zhàn
fertility <i>/fɜːˈtɪlɪti/</i>	féi lì
fertilizer	huà féi
fishery	yú yè
 fission <i>/ˈfɪʃn/</i>	liè biàn
 flood irrigation <i>/flʌd ˌɪrɪˈgeɪʃn/</i>	màn guàn
flooding	hóng shuǐ
flux	tōng liàng
 food chain <i>/fuːd tʃeɪn/</i>	shí wù liàn
 food web <i>/fuːd web/</i>	shí wù wǎng
forests	sēn lín
fossil fuel	huà shí rán liào
fragmentation <i>/ˌfrægmənˈteɪʃn/</i>	pò suì huà
free-range grazing	fàng yǎng
 freshwater <i>/ˈfreʃwɔːtə/</i>	dàn shuǐ
fuel economy	rán yóu jīng jì xìng
fuel types	rán liào lèi xíng
furrow irrigation	gōu guàn
 garbage patches <i>/ˈgɑːbɪdʒ ˈpætʃɪz/</i>	lā jī dài
 generalist <i>/ˈdʒenərəlist/</i>	guǎng shì xìng
 genetic diversity <i>/dʒɪˈnetɪk daɪˈvɜːsɪti/</i>	yí chuán duō yàng xìng

English	Pinyin
genetic variation <i>/dʒiˈnetɪk ˌveəriˈeɪʃn/</i>	yí chuán biàn yì
geography	dì lǐ
geology	dì zhì
 Geothermal <i>/ˌdʒiːəʊˈθɜːml/</i>	dì rè néng
geothermal energy	dì rè néng
glacier	bīng chuān
 Global climate change <i>/ˈgləʊbl ˈklaɪmət tʃeɪndʒ/</i>	qì hòu biàn huà
 global warming potential (GWP) <i>/ˈgləʊbl ˈwɔːmɪŋ pəˈtenʃl/</i>	quán qiú biàn nuǎn qián néng zhí
 global wind patterns <i>/ˈgləʊbl wɪnd ˈpætnz/</i>	quán qiú fēng dài
 Green Revolution <i>/ˈɡriːn ˌrevəˈluːʃn/</i>	lǚ sè gé mìng
 green roofs <i>/ˈɡriːn ruːfs/</i>	lǚ sè wū dǐng
 greenhouse effect <i>/ˈɡriːnhaʊs ɪˈfekt/</i>	wēn shì xiào yìng
 greenhouse gas <i>/ˈɡriːnhaʊs ɡæs/</i>	wēn shì qì tǐ
gross primary produc- tivity	zǒng chū jí shēng chǎn lì
groundwater	dì xià shuǐ
groundwater recharge	dì xià shuǐ bǔ jǐ
growing season	shēng zhǎng jì
 growth rate <i>/ˈɡrəʊθ reɪt/</i>	zēng zhǎng lǜ
habitable	yí jū de
habitat <i>/ˈhæbɪtæt/</i>	qī xī dì
 habitat destruction <i>/ˈhæbɪtæt dɪˈstrʌkʃn/</i>	qī xī dì pò huài

English	Pinyin
habitat diversity	qī xī dì duō yàng xìng
 habitat fragmentation /'hæbɪtæt ˌfrægmən'teɪʃn/	qī xī dì pò suì huà
habitat loss /'hæbɪtæt lɒs/	qī xī dì sàng shī
health	jiàn kāng
health effects	jiàn kāng yǐng xiǎng
 hearing loss /'hiəriŋ lɒs/	tīng lì sǔn shī
herbivores	shí cǎo dòng wù
heterotrophs	yì yǎng shēng wù
 high-yield /'haɪ jiːld/	gāo chǎn
 horizons /'hɒ'reɪnz/	tǔ céng
hormone /'hɔ:məʊn/	jī sù
hot spot	rè diǎn
household /'haʊshəʊld/	jiā tíng
human activities	rén lèi huó dòng
human population	rén kǒu
human-driven pres- sures	rén wéi yā lì
 hydraulic fracturing /'haɪ'drɔːlɪk 'fræktʃərɪŋ/	shuǐ lì yā liè
 Hydroelectric /'haɪdrəʊ'lektrɪk/	shuǐ diàn
hydroelectric power	shuǐ lì fā diàn
 hydrogen fuel cell /'haɪdrədʒn 'fjuːəl sel/	qīng rán liào diàn chí
 hydrologic cycle /'haɪdrə'lɒdʒɪk 'saɪkl/	shuǐ xún huán

English	Pinyin
 hypoxic <i>/ˌhaɪpəʊˈzɪk/</i>	quē yǎng
 immigration <i>/ˌɪmɪˈɡreɪʃn/</i>	yí rù
 impervious surfaces <i>/ɪmˈpɜːviəs ˈsɜːfɪsɪz/</i>	bù tòu shuǐ miàn
 incineration <i>/ɪnˌsɪnəˈreɪʃn/</i>	fén shāo
 incinerators <i>/ɪnˈsɪnəreɪtəz/</i>	fén shāo lú
 indicator species <i>/ˈɪndɪkeɪtə ˈspiːsiːz/</i>	zhǐ shì wù zhǒng
individual self-interest	gè rén sī lì
indoor air pollutants	shì nèi kōng qì wū rǎn wù
industrialization	gōng yè huà
infectious disease <i>/ɪnˈfekʃəs dɪˈziːz/</i>	chuán rǎn bìng
infiltration	xià shèn
infrared radiation	hóng wài fú shè
 integrated pest management <i>/ˈɪntɪɡreɪtɪd pest ˈmænɪdʒmənt/</i>	bìng chóng hài zōng hé zhì lǐ
intercropping	jiàn zuò
intermittency	jiàn xiē xìng
international cooperation	guó jì hé zuò
 invasive species <i>/ɪnˈveɪsɪv ˈspiːsiːz/</i>	rù qīn wù zhǒng
 irrigation <i>/ˌɪrɪˈɡeɪʃn/</i>	guàn gài
irrigation methods	guàn gài fāng fǎ
 island biogeography <i>/ˈaɪlənd baɪəʊdʒɪˈɒɡrəfi/</i>	dǎo yǔ shēng wù dì lǐ xué
 keystone species <i>/ˈkiːstəʊn ˈspiːsiːz/</i>	guān jiàn zhǒng

English	Pinyin
kinetic energy <i>/kɪˈnetɪk ˈenədʒi/</i>	dòng néng
La Nina	lā ní nà
 La Niña <i>/lə ˈniːnjə/</i>	lā ní nà
lakes and ponds	hú pō
land use	tǔ dì lì yòng
landfills	lā jī tián mái chǎng
latitude <i>/ˈlætɪtjuːd/</i>	wěi dù
 LD50 <i>/el diː ˈfɪfti/</i>	bàn shù zhì sǐ jì liàng
 leachate <i>/ˈliːtʃeɪt/</i>	shèn lǚ yè
leeward	bèi fēng
legislation <i>/ˌledʒɪˈsleɪʃn/</i>	lǐ fǎ
legumes	dòu kē zhí wù
 lichens <i>/ˈlaɪkənz/</i>	dì yī
life history	shēng huó shǐ
lifestyle	shēng huó fāng shì
 lignite <i>/ˈlɪɡnaɪt/</i>	hè méi
limitations <i>/ˌlɪmɪˈteɪʃnz/</i>	jú xiàn xìng
 limiting factors <i>/ˈlɪmɪtɪŋ ˈfæktəz/</i>	xiàn zhì yīn sù
 limiting nutrient <i>/ˈlɪmɪtɪŋ ˈnjuːtriənt/</i>	xiàn zhì xìng yǎng fèn
livelihoods	shēng jì
 logistic <i>/ləˈdʒɪstɪk/</i>	luó jí sī dì zēng zhǎng

English	Pinyin
logistic growth <i>/lə'dʒɪstɪk grəʊθ/</i>	luó jí sī dì zēng zhǎng
mainland	dà lù
 Malaria <i>/mə'leəriə/</i>	nüè jí
 mangroves <i>/'mæŋgrəʊvz/</i>	hóng shù lín
mantle	dì màn
 marine <i>/mə'ri:n/</i>	hǎi yáng de
marine food webs	hǎi yáng shí wù wǎng
marine productivity	hǎi yáng shēng chǎn lì
mechanical <i>/mi'kænikl/</i>	jī xiè de
mechanization <i>/,mekənaɪ'zeɪʃn/</i>	jī xiè huà
mercury	gǒng
 methane <i>/'mi:θeɪn/</i>	jiǎ wán
 migration <i>/maɪ'greɪʃn/</i>	qiān xǐ
 Mining <i>/'maɪnɪŋ/</i>	cǎi kuàng
monitoring <i>/'mɒnɪtərɪŋ/</i>	jiān cè
 monoculture <i>/'mɒnəkʌltʃə/</i>	dān yī zāi péi
 Montreal Protocol <i>/,mɒntri'ɔ:l 'prəʊtəkol/</i>	méng tè lì ěr yì dìng shū
mortality	sǐ wáng lǜ
 mosquito <i>/mə'ski:təʊ/</i>	wén zi
mountain ranges	shān mài
mutualism <i>/'mju:tʃu:əlɪzəm/</i>	hù lì gòng shēng

English	Pinyin
 natural gas <i>/'nætʃərəl gæs/</i>	tiān rán qì
 natural selection <i>/'nætʃərəl sɪ'leɪʃn/</i>	zì rán xuǎn zé
natural systems	zì rán xì tǒng
net primary productiv- ity	jìng chū jí shēng chǎn lì
 niche <i>/niːʃ/</i>	shēng tài wèi
nitrate <i>/'naɪtreɪts/</i>	xiāo suān yán
nitrification <i>/'naɪtrɪfɪ'keɪʃn/</i>	xiāo huà zuò yòng
nitrite	yà xiāo suān yán
nitrogen <i>/'naɪtrədʒn/</i>	dàn
 nitrogen cycle <i>/'naɪtrədʒn 'saɪkl/</i>	dàn xún huán
 nitrogen fixation <i>/'naɪtrədʒn fɪk'seɪʃn/</i>	gù dàn zuò yòng
 nitrogen oxides <i>/'naɪtrədʒn 'ɒksaɪd/</i>	dàn yǎng huà wù
 no-till <i>/nəʊ tɪl/</i>	miǎn gēng
 noise pollution <i>/nɔɪz pə'luːʃn/</i>	zào shēng wū rǎn
non-native	fēi běn dì de
non-target species	fēi mù biāo wù zhǒng
noninfectious disease	fēi chuán rǎn bìng
 nonpoint source <i>/'nɒn'pɔɪnt sɔːs/</i>	fēi diǎn yuán
 nonrenewable <i>/'nɒnrɪ'njuːəbl/</i>	bù kě zài shēng
 nonrenewable resource <i>/'nɒnrɪ'njuːəbl rɪ'zɔːs/</i>	bù kě zài shēng zī yuán
nuclear fission <i>/'njuːklɪə 'fɪʃn/</i>	hé liè biàn

English	Pinyin
 nuclear power /'nju:klɪə 'paʊə/	hé néng
 nuclear power station /'nju:klɪə 'paʊə 'steɪʃn/	hé diàn zhàn
nuclear waste	hé fèi liào
 ocean acidification /'əʊʃn ə,sɪdɪfi 'keɪʃn/	hǎi yáng suān huà
ocean circulation	hǎi yáng huán liú
ocean currents	yáng liú
 ocean warming /'əʊʃn 'wɔ:mnɪŋ/	hǎi yáng biàn nuǎn
oil /ɔɪl/	shí yóu
oil spills	shí yóu xiè lòu
omnivores	zá shí dòng wù
 open-pit mine /'əʊpən pɪt maɪn/	lù tiān kuàng
 optimal range /'ɒptɪml reɪndʒ/	zuì shì fàn wéi
organism /'ɔ:gənɪzəm/	shēng wù tǐ
 outcompete /aʊtkəm'pi:t/	pái jǐ
overexploitation	guò dù kāi fā
 overfishing /,əʊvə'fɪʃɪŋ/	guò dù bǔ lāo
 overgrazing /,əʊvə'greɪzɪŋ/	guò dù fàng mù
overharvesting /,əʊvə'hɑ:vɪstɪŋ/	guò dù huò qǔ
 overshoot /,əʊvə'ʃu:t/	chāo chū
 ozone /'əʊzəʊn/	chòu yǎng
ozone depletion	chòu yǎng hào sǔn

English	Pinyin
ozone hole	chòu yǎng dòng
 ozone layer <i>/ˈəʊzəʊn ˈleɪə/</i>	chòu yǎng céng
parasitism <i>/ˈpærəsɪtɪzəm/</i>	jì shēng
parental care	qīn dài fù yù
particle size	kē lì dà xiǎo
• Particulate matter <i>/pəˈtɪkjələɪt ˈmætə/</i>	kē lì wù
 particulates <i>/pəˈtɪkjələɪts/</i>	kē lì wù
 pathogens <i>/ˈpæθədʒnɪz/</i>	bìng yuán tǐ
 peat <i>/pi:t/</i>	ní tàn
 periodic <i>/ˌpɪərɪˈɒdɪk/</i>	zhōu qī xìng
permafrost	yǒng jiǔ dòng tǔ
 permeability <i>/ˌpɜ:məˈbɪlɪti/</i>	shèn tòu xìng
 permeable pavement <i>/ˌpɜ:məbl ˈpeɪvmənt/</i>	tòu shuǐ lù miàn
 persistent organic pollutants <i>/pəˈsɪstənt ɔːˈɡænɪk pəˈlu:tənts/</i>	chí jiǔ xìng yǒu jī wū rǎn wù
pest vulnerability	yì shòu chóng hài
 pesticide <i>/ˈpestɪsaɪd/</i>	nóng yào
 pesticide resistance <i>/ˈpestɪsaɪd rɪˈzɪstəns/</i>	kàng yào xìng
 pH <i>/pi: eɪtʃ/</i>	suān jiǎn dù
phosphorus <i>/ˈfɒsfɔːrəs/</i>	lín
 phosphorus cycle <i>/ˈfɒsfɔːrəs ˈsaɪkl/</i>	lín xún huán

English	Pinyin
photic zone	tòu guāng céng
 photochemical smog /ˈfəʊtəʃˈkemɪkl smɒɡ/	guāng huà xué yān wù
 photosynthesis /ˈfəʊtəʃˈsɪnθəˌsɪs/	guāng hé zuò yòng
 photovoltaic /ˈfəʊtəʃvəʊlˈteɪɪk/	guāng fú
photovoltaic cells	guāng fú diàn chí
 physiological /ˈfɪziəˈlɒdʒɪkl/	shēng lǐ de
 pioneer species /paɪəˈniə ˈspiːsiːz/	xiān fēng wù zhǒng
 Plague /pleɪɡ/	shǔ yì
plate boundaries	bǎn kuài biān jiè
 plate tectonics /pleɪt tekˈtɒnɪks/	bǎn kuài gòu zào
 plates /pleɪts/	bǎn kuài
• point source /pɔɪnt sɔːs/	diǎn yuán
poles /pəʊlz/	liǎng jí
pollutants /pəˈluːtənts/	wū rǎn wù
pollution /pəˈluːʃn/	wū rǎn
population /ˌpɒpjəˈleɪʃn/	zhǒng qún
 population bottleneck /ˌpɒpjəˈleɪʃn ˈbɒtəlnek/	zhǒng qún píng jǐng
population growth	rén kǒu zēng zhǎng
 porosity /pɔːˈrɒsɪti/	kǒng xì dù
power plants	fā diàn chǎng
 power station /ˈpaʊə ˈsteɪʃn/	fā diàn zhàn

English	Pinyin
pre-reproductive	fán zhí qián qī
 precipitation <i>/prɪˌsɪpɪ'teɪʃn/</i>	jiàng shuǐ
 predation <i>/prɪ'deɪʃn/</i>	bǔ shí
 prescribed burn <i>/prɪ'skraɪbd bʊ:n/</i>	jì huà shāo chú
prevailing winds	shèng xíng fēng
primary consumers	chū jí xiǎo fèi zhě
 primary pollutants <i>/'praɪməri pə'lutənts/</i>	yī cì wū rǎn wù
 primary productivity <i>/'praɪməri ˌprɒdæk'tɪvɪti/</i>	chū jí shēng chǎn lì
 primary succession <i>/'praɪməri sək'seʃn/</i>	chū jí yǎn tì
primary treatment	yī jí chǔ lǐ
 primary, secondary, and tertiary consumers <i>/'praɪməri 'sekəndəri ænd 'tɜːʃjəri kən'su:məz/</i>	xiǎo fèi zhě
private ownership	sī yǒu zhì
 producers <i>/prə'dju:səz/</i>	shēng chǎn zhě
properties <i>/'prɒpətɪz/</i>	xìng zhì
protected areas	bǎo hù qū
provisioning services	gōng jǐ fú wù
radioactive waste	fàng shè xìng fèi wù
 radon <i>/'reɪdɒn/</i>	dōng
rain forests	yǔ lín
rain gardens	yǔ shuǐ huā yuán

English	Pinyin
 rain shadow <i>/reɪn 'ʃædəʊ/</i>	yǔ yǐng
 random <i>/'rændəm/</i>	suí jī
 range of tolerance <i>/reɪndʒ ɒv 'tɒlərəns/</i>	nài shòu fàn wéi
reclaim	fù kěn
 recycle <i>/rɪ'saɪkl/</i>	huí shōu
 reduce <i>/rɪ'dju:s/</i>	jiǎn shǎo
 reduce, reuse, recycle <i>/rɪ'dju:s ri:'ju:z rɪ'saɪkl/</i>	jiǎn liàng 、 zài lì yòng 、 huí shōu
 reforestation <i>/rɪ,fɒrɪ'steɪʃn/</i>	chóng xīn zào lín
regulating services	tiáo jié fú wù
regulation <i>/,regjʊ'leɪʃn/</i>	guǎn zhì
reliable <i>/rɪ'laɪəbl/</i>	kě kào de
 renewable <i>/rɪ'nju:əbl/</i>	kě zài shēng
 renewable resource <i>/rɪ'nju:əbl rɪ'zɔ:s/</i>	kě zài shēng zī yuán
replacement-level fertility	gēng tì shuǐ píng shēng yù lǜ
replenishment	bǔ chōng
 reproduction <i>/rɪprə'dʌkʃn/</i>	fán zhí
reproductive strategies	fán zhí duì cè
 reservoir <i>/'rezəvwa:/</i>	shuǐ kù
 resilient <i>/rɪ'sɪliənt/</i>	yǒu rèn xìng de
resist breakdown	kàng fēn jiě
 respiration <i>/,respɪ'reɪʃn/</i>	hū xī zuò yòng

English	Pinyin
retention ponds	zhì liú chí
 reuse <i>/ri:'ju:z/</i>	chóng fù lì yòng
risk analysis	fēng xiǎn fēn xī
risks	fēng xiǎn
 rotational grazing <i>/rəʊ'teɪʃənəl 'greɪzɪŋ/</i>	lún mù
 runoff <i>/'rʌnɒf/</i>	jìng liú
 salinity <i>/seɪ'lɪnɪti/</i>	yán dù
 salinization <i>/ˌseɪlɪnaɪ'zeɪʃn/</i>	yán jiǎn huà
 saltwater intrusion <i>/'sɒltwɔ:təɪn'tru:ʒn/</i>	hǎi shuǐ rù qīn
 sand <i>/sænd/</i>	shā lì
sanitary landfill	wèi shēng tián mái chǎng
savanna	xī shù cǎo yuán
 scrubbers <i>/'skrʌbəz/</i>	xǐ dí qì
 sea level <i>/si: 'levl/</i>	hǎi píng miàn
sea-level rise	hǎi píng miàn shàng shēng
second law of thermodynamics <i>/'sekənd lɔ: ɒv 'θɜ:məʊdaɪ'næmɪks/</i>	rè lì xué dì èr dìng lǚ
secondary consumers	cì jí xiāo fèi zhě
 secondary pollutants <i>/'sekəndəri pə'lu:tənts/</i>	èr cì wū rǎn wù
 secondary succession <i>/'sekəndəri sək'seʃn/</i>	cì jí yǎn tì
secondary treatment	èr jí chǔ lǐ
 sediment <i>/'sedɪmənt/</i>	chén jī wù

English	Pinyin
 selective cutting <i>/sɪˈlektɪv ˈkʌtɪŋ/</i>	zé fá
 sewage treatment <i>/ˈsuːɪdʒ ˈtriːtmənt/</i>	wū shuǐ chǔ lǐ
• silt <i>/sɪlt/</i>	fěn lì
slash-and-burn	dāo gēng huǒ zhòng
slope <i>/sləʊp/</i>	pō dù
social <i>/ˈsəʊʃl/</i>	shè huì de
 Soil <i>/sɔɪl/</i>	tǔ rǎng
soil erosion <i>/sɔɪl ɪˈrəʊʒn/</i>	tǔ rǎng qīn shí
soil fertility	tǔ rǎng féi lì
soil health	tǔ rǎng jiàn kāng
soil horizons	tǔ rǎng céng
soil profile	tǔ rǎng pōu miàn
 soil salinization <i>/sɔɪl ˌseɪlɪnaɪˈzeɪʃn/</i>	tǔ rǎng yán jiǎn huà
soil texture triangle	tǔ rǎng zhì dì sān jiǎo tú
 Solar <i>/ˈsəʊlə/</i>	tài yáng néng
solar energy	tài yáng néng
solar intensity	tài yáng qiáng dù
 solar radiation <i>/ˈsəʊlə ˌreɪdɪˈeɪʃn/</i>	tài yáng fú shè
solid waste disposal	gù tǐ fèi wù chǔ zhì
solstices	zhì diǎn
source reduction	yuán tóu jiǎn liàng
sources <i>/ˈsɔːsɪz/</i>	lái yuán

English	Pinyin
 specialist /'speʃəlist/ species /'spi:si:z/ species diversity species evenness	tè huà wù zhǒng wù zhǒng duō yàng xìng wù zhǒng jūn yún dù
 species richness /'spi:si:z 'ritʃnəs/ sprawl /sprɔ:l/ spray irrigation standing crop	wù zhǒng fēng fù dù chéng shì màn yán pēn guàn xiàn cún liàng
 steam /sti:m/ storms stormwater	zhēng qì fēng bào yǔ shuǐ
 stratosphere /'strætəsfia/ streams and rivers	píng liú céng hé liú
 stress /stres/	yā lì
 structural /'strʌktʃərəl/	jié gòu de
 subsurface mining /'sʌbsəfis 'maɪnɪŋ/	dì xià kāi cǎi
 sulfur dioxide /'sʌlfɜ: daɪ'ɒksaɪd/ supporting services	èr yǎng huà liú zhī chí fú wù
 surface mining /'sɜ:fis 'maɪnɪŋ/	lù tiān kāi cǎi
 survivorship curve /sə'vaɪvəʃɪp kɜ:v/	cún huó qū xiàn
 sustainability /sə'steɪnə'bɪlɪti/	kě chí xù xìng

English	Pinyin
sustainable /sə'steɪnəbl/	kě chí xù de
 sustainable agriculture /sə'steɪnəbl 'ægrɪkʌltʃə/	kě chí xù nóng yè
 sustainable forestry /sə'steɪnəbl 'fɒrɪstri/	kě chí xù lín yè
 sustainable yield /sə'steɪnəbl ji:ld/	kě chí xù chǎn liàng
 symbiosis /ˌsɪmbaɪ'əʊsɪs/	gòng shēng
symbiotic	gòng shēng
 synthetic fertilizers /sɪn'θetɪk 'fɜ:təlaɪzəz/	huà féi
 taiga /ˈteɪgə/	tài jiā lín
 tailings /ˈteɪlɪŋz/	wěi kuàng
 tar sands /tɑ: sændz/	yóu shā
temperate deciduous forest	wēn dài luò yè lín
temperate grassland	wēn dài cǎo yuán
temperature /ˈtemprɪtʃə/	wēn dù
 temperature and precipitation /ˈtemprɪtʃə ænd prɪˌsɪpɪ'teɪʃn/	jiàng shuǐ
 terracing /ˈterɪsɪŋ/	tī tián
 terrestrial /tə'restriəl/	lù dì de
tertiary consumers	sān jí xiāo fèi zhě
 texture /ˈtekstʃə/	zhì dì
the open ocean	yuǎn yáng
 The ozone hole /ði 'əʊzəʊn həʊl/	chòu yǎng dòng

English	Pinyin
thermal expansion <i>/ˈθɜ:ml ek'spænjən/</i>	rè péng zhàng
 thermal inversion <i>/ˈθɜ:ml ɪn'vɜ:ʃn/</i>	nì wēn xiàn xiàng
 thermal pollution <i>/ˈθɜ:ml pə'lu:ʃn/</i>	rè wū rǎn
— threshold <i>/ˈθreʃəʊld/</i>	yù zhí
threshold dose	yù zhí jì liàng
 tillage <i>/ˈtɪlɪdʒ/</i>	gēng zuò
tilt	qīng xié
timber	mù cái
tolerance <i>/ˈtɒlərəns/</i>	nài shòu xìng
top predators	dǐng jí bǔ shí zhě
 total fertility rate <i>/ˈtəʊtl fɜ:'tɪlɪti reɪt/</i>	zǒng hé shēng yù lǜ
toxicity	dú xìng
 trade <i>/treɪd/</i>	mào yì
trade winds	xìn fēng
trade-off <i>/treɪd ɒf/</i>	quán héng
tragedy	bēi jù
 tragedy of the commons <i>/ˈtrædʒədi ʌv ðə 'kɒmənz/</i>	gōng dì bēi jù
 transpiration <i>/trænspe'reɪʃn/</i>	zhēng téng zuò yòng
 trophic level <i>/ˈtrəʊfɪk 'levl/</i>	yíng yǎng jí
 tropical rainforest <i>/ˈtrɒpɪkl 'reɪnfɒrɪst/</i>	rè dài yǔ lín
 troposphere <i>/ˈtrɒpəsfiə/</i>	duì liú céng

English	Pinyin
 Tuberculosis (TB) <i>/ˈtjuː.bəkjʊˈləʊsɪs/</i>	jié hé bìng
 tundra <i>/ˈtʌndrə/</i>	tái yuán
 ultraviolet <i>/ˈʊltrəˈvaɪələɪt/</i>	zǐ wài xiàn
uneven heating	bù jūn yún jiā rè
unregulated	wú guǎn zhì de
 upwelling <i>/ˈʌpwəlɪŋ/</i>	shàng shēng liú
 urban heat island <i>/ˈɜːbən hi:t ˈaɪlənd/</i>	chéng shì rè dǎo
 urban heat islands <i>/ˈɜːbən hi:t ˈaɪləndz/</i>	rè dǎo
 urban runoff <i>/ˈɜːbən ˈrʌnɒf/</i>	chéng shì jìng liú
 urban sprawl <i>/ˈɜːbən sprɔːl/</i>	chéng shì kuò zhāng
 urbanization <i>/ˌɜːbənaɪˈzeɪʃn/</i>	chéng shì huà
 vectors <i>/ˈvektəz/</i>	bìng méi
vegetation	zhí bèi
 ventilation <i>/ˌventɪˈleɪʃn/</i>	tōng fēng
 volatile organic compounds <i>/ˈvɒlətaɪl ɔːˈɡænik ˈkɒmpaʊndz/</i>	huī fā xìng yǒu jī huà hé wù
volcanic eruptions	huǒ shān pēn fā
volcanoes	huǒ shān
warming potential	zēng wēn qián shì
 waste <i>/weɪst/</i>	fèi wù
 water cycle <i>/ˈwɔːtə ˈsaɪkl/</i>	shuǐ xún huán
water quality	shuǐ zhì

English	Pinyin
water table	dì xià shuǐ wèi
water vapor	shuǐ zhēng qì
waterlogging	lào zì
 watershed <i>/ˈwɔ:təʃed/</i>	liú yù
 weather <i>/ˈweðə/</i>	tiān qì
weather patterns	tiān qì mó shì
 weathering <i>/ˈweðərɪŋ/</i>	fēng huà
 weathers <i>/ˈweðəz/</i>	fēng huà
 West Nile / Zika <i>/west naɪl ˈzi:kə/</i>	xī ní luó
 wetlands <i>/ˈwetləndz/</i>	shī dì
 wildlife <i>/ˈwaɪldlaɪf/</i>	yě shēng dòng wù
 Wind <i>/wɪnd/</i>	fēng néng
 wind turbines <i>/wɪnd ˈtɜːbaɪnz/</i>	fēng lì wō lún jī
zone of stress	xié pò qū