Unit 10 – Going net zero: Is it really necessary?				
Energy key terms				
acid rain	Acid rain poses a threat to the health of	saurer Regen		
	soil and crops in certain areas.			
carbon dioxide emissions	Carbon dioxide emissions are the main	Kohlendioxidemissionen		
	driver of climate change and the			
	greenhouse gas effect.	00 5 0 1 1 1 / 00 0 1		
carbon footprint	Large companies have the largest carbon footprints because they tend to use a	CO ₂ -Fußabdruck / CO ₂ -Bilanz		
	great deal of energy.			
climate change	Scientists have known about climate	Klimawandel		
	change for a long time.			
energy consumption	The energy consumption per capita of	Energieverbrauch		
	western nations if much higher than that			
	of the rest of the world.			
fossil fuels	Burning fossil fuels released a significant	fossile Brennstoffe		
	amount of carbon dioxide.			
global warming	Global warming is gradually being replaced	globale Erwärmung		
	by the term <i>global heating</i> in the scientific discourse around climate change.			
greenhouse effect	The greenhouse effect occurs when heat	Treibhauseffekt		
greening enece	from the sun's rays is unable to escape	Treismaderreke		
	through the atmosphere and causes the			
	Earth's surface to heat up.			
heat wave	Most countries have experienced record-	Hitzewelle		
	breaking heat waves more frequently in			
	the last few years.			
natural gas	Prices for natural gas soared in 2022, which is	Erdgas		
nuclear power plant	why heating costs exploded for many people. Nuclear power plants produce a significant	Atomkraftwerk		
nuclear power plant	portion of France's energy.	Atomicativerk		
ozone layer	The ozone layer can be damaged easily by	Ozonschicht		
,	the chemical byproducts of burning plastic.			
renewable energy sources	It is time to completely switch over to	erneuerbare Energiequellen		
	renewable energy sources for the good of			
	humanity.			
solar farms	Solar farms are becoming more and more	Solarparks		
	popular as the price of solar panels continues to drop.			
Talking about going net zero	· · · · · · · · · · · · · · · · · · ·			
		Traibbourges in die Luft freisetzen		
to release greenhouse gases into the air	Most common ways of producing electricity release greenhouse gases into the air.	Treibhausgase in die Luft freisetzen		
to get greenhouse gas	Ultimately, to support the health of the	die Treibhausgasemissionen auf		
emissions down to zero	planet, humans need to get greenhouse	null senken		
	gas emissions down to zero.			
to take greenhouse gas	New forms of energy generation take	Treibhausgasmoleküle aus der Luft		
molecules out of the air	greenhouse gas molecules out of the air	entnehmen		
	and use them as fuel sources.			
to make big changes	Needing to quickly generate more energy	große Veränderungen vornehmen		
	is going to force humans to make big			
to use less, more efficiently	changes to city infrastructures. Focusing on improving technology results	weniger (z.B. Ressourcen) verbrau-		
to age legg, more emiciently	in being able to use less, more efficiently.	chen und (diese) effizienter nutzen		
to replace greenhouse gas-	Individuals can take the initiative and	Treibhausgas-abgebende		
emitting activities with	replace greenhouse gas-emitting activities	Aktivitäten durch saubere		
clean ones	with clean ones, like choosing to bike	(Aktivitäten) ersetzen		
	instead of driving to the lake.			

to be the best chance for a sustainable future	Adapting to consuming less and finding a way to remove greenhouse gases from the air is the best chance for a sustainable future.	die beste Chance für eine nachhaltige Zukunft sein
Talking about global warmin	g	
to ignore scientific predictions	Recently, party leaders in certain countries have ignored scientific predictions about the effects of climate change.	wissenschaftliche Vorhersagen ignorieren
to be blind to the facts	Even after multiple national climate summits, many world leaders continue to be blind to the facts of global warming.	die Augen vor den Tatsachen verschließen
to be at risk of collapsing / being destroyed	Countless ecosystems are at risk of collapsing / being destroyed by human activity.	Gefahr laufen zusammenzu- brechen / zerstört zu werden
to cause irreparable damage to something	Hurricane Wilma caused irreparable damage to the coastline several years ago.	irreparablen Schaden an etwas verursachen
to regret something	Stevie regretted not switching to a bike from a car sooner because it is so much easier to travel by bicycle in the city.	etwas bedauern
to be concerned about the future	Children and many members of the younger generation are concerned about the future.	sich Sorgen um die Zukunft machen
to question the necessity / the truth of something	Older politicians have been questioning the necessity of responding to climate change for years.	die Notwendigkeit / den Wahr- heitsgehalt von etwas in Frage stellen
to turn out to be a hoax	Howie is convinced that climate change will turn out to be a hoax in a few years.	sich als Schwindel herausstellen
to take part in a climate summit	Gina took part in a climate summit for non-profit organisations last year to talk about potential action plans.	an einem Klimagipfel teilnehmen
to stand out from the crowd	Businesses that are fully committed to becoming climate neutral and who actually work to reduce their carbon emissions stand out from the crowd.	aus der Masse herausstechen
to be in a horrible condition	Many animals' habitats are in a horrible condition due to humans exploiting the land.	sich in einem furchtbaren Zustand befinden
to be high time to do something	Al Gore said it was high time to do something about climate change back in the 1970s.	höchste Zeit sein, etwas zu tun
to be at the end of one's rope	After two years of alternating late-night shifts and studying at night, Josh was at the end of his rope.	am Ende der eigenen Kräfte sein
there is no more time to waste	According to scientists, there is no more time to waste before making drastic change if we want a sustainable future.	es gibt keine Zeit mehr zu verlieren
to be optimistic / pessimistic about the future	Emil is quite optimistic / pessimistic about the future.	optimistisch / pessimistisch in die Zukunft blicken
to not go without notice	It doesn't go without notice how many people care about the environment and yet don't do anything about it.	nicht zu übersehen sein
to be an ecological cost of climate change	A loss of biodiversity is an ecological cost of climate change.	der ökologische Preis / Umwelt- kosten des Klimawandels sein
to be in jeopardy	Many species of birds and mammals are in jeopardy due to loss of habitat.	in Gefahr sein
to be a human endeavour	Fixing climate change is a human endeavour, and one that needs to occur as soon as possible!	ein menschliches Bemühen / Bestreben sein

to the township or established	The constant is a second by the second secon	
to tip towards a catastrophe	The world is rapidly tipping towards a catastrophe.	auf eine Katastrophe zusteuern
to limit global heating /	One of the main goals of international	die globale Erwärmung bis zum
global warming to 1.5	climate agreements is to limit global	Ende des Jahrhunderts auf 1,5
degrees Celsius by the end	heating / global warming to 1.5 degrees	Grad Celsius begrenzen
of the century	Celsius by the end of the century.	
to decarbonise the global	Climate summit leaders seek to	Kohlenstoffe in der Weltwirtschaft
economy by 2050	decarbonise the global economy by 2050.	bis 2050 reduzieren
to make coal obsolete	New technologies for electricity production	Kohle überflüssig / obsolet machen
to take responsibility	will make coal obsolete within a few years.	Varantuartung üharnahman
to take responsibility	Ying took responsibility for not shutting off the lights at her parent's house and vowed	Verantwortung übernehmen
	not to make the same mistake again.	
to not subsidise fossil fuels	The energy sector would change	fossile Brennstoffe nicht finanziell
to not subsidise lossii lueis	significantly if governments didn't	unterstützen / subventionieren
	subsidise fossil fuels.	differstatzen / subventionieren
to provide the resources	State governments should instead provide	die notwendigen Ressourcen
that are needed	the resources that are needed for citizens	bereitstellen
that are needed	to inform themselves about potential	acrenstenen
	carbon-saving alternatives	
to fulfil the Paris Agreement	Currently, member countries are still	das Pariser Klimaabkommen
	trying to fulfil the <i>Paris Agreement</i> and	erfüllen
	meet the goals they set.	
to be on the journey to net	Some countries are already on the journey	auf dem Weg sein abgasfrei zu
zero	to net zero.	werden / Treibhausgas-Emissionen
		auf null zu reduzieren
to be a powerful vehicle for	Such an ambitious commitment is a	ein wirksames Instrument für den
climate action	powerful vehicle for climate action.	Klimaschutz sein
climate benefits will be	The climate benefits will be enormous if	die Vorteile für das Klima werden
enormous	fewer plastic products are used and	enorm sein
	thrown away.	
to thrive in harmony with	Humans should focus on thriving in	im Einklang mit der Natur gedeihen
nature	harmony with nature.	
to harness technology	Engineers harness technology to create	Technologie nutzbar machen
	fuel out of seaweed and create electricity	
	from wind.	die Engusialduft übenbuüsten
to bridge the energy divide	Even with modern technology, it can be	die Energiekluft überbrücken
	difficult to bridge the energy divide between countries that can afford a large	
	infrastructure and those that can't.	
climate devastation	It's crucial to slow the melting of the polar	Klimazerstörung
cimiate devastation	ice caps and glaciers to avoid climate	Kiiiidzerstorung
	devastation.	
droughts / floods / wildfires	Weather events like droughts, floods and	Dürren / Überschwemmungen /
	wildfires are becoming more frequent as	Waldbrände
	climate change progresses.	
to reach degrees Celsius	It is possible that the Earth reaches 5	Grad Celsius globaler Erwär-
of global warming by (year)	degrees Celsius of global warming by 2060.	mung bis (Jahr) erreichen
to exceed degrees Celsius	Certain polar regions could exceed an	Grad Celsius innerhalb der nächs-
within the next two decades	increase of 2 degrees Celsius within the next two decades.	ten zwei Jahrzehnte überschreiten
to reach the temperature	Once the Earth reaches the temperature	die Temperaturschwelle erreichen
threshold	threshold, it will become even more	
	difficult to reverse the effects of climate	
	change.	
to come with costly	Decisions to heat with oil or subsidise fossil	mit kostspieligen Konsequenzen
consequences	fuels come with costly consequences.	einhergehen

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to offer policy-makers a	A report detailing the urgency of the	den politischen Entscheidungs-
clear-eyed view of the	situation offered policy-makers a clear-	trägern/-trägerinnen einen klaren
current state	eyed view of the current state and a	Blick auf den aktuellen Stand
	necessary path for action.	ermöglichen
to be on course to do	Even though the outlook is grim, many	auf dem Weg sein etwas zu tun
something	organisations and countries are already on	
	course to do something impactful and	
	make a difference.	
to (not) take a carbon-	Policy-makers often take a carbon-	(nicht) einen kohlenstoffintensiven
intensive pathway	intensive pathway and make it easier to	Weg einzuschlagen
	damage the climate than care for it.	
to (not) face destructive	Harold has already faced destructive	(nicht) mit zerstörerischen
extreme weather events	extreme weather events on the coast of	Extremwetterereignissen
	Louisiana, including a devastating hurricane.	konfrontiert sein
to prevent the most severe	Humankind needs rapid change in order to	die schlimmsten Klima-
climate impacts	prevent the most severe climate impacts.	auswirkungen verhindern
to need rapid change	The world's energy infrastructure needs	einen schnellen Wandel brauchen
	rapid change and restructuring to include	
	renewable options and save the climate.	
to redefine the way energy	Maisie wants to redefine the way energy is	die Art und Weise, wie Energie
is produced and used	produced and used with her business,	erzeugt und genutzt wird, neu
	which builds batteries for storing	festlegen / neu definieren
	renewable energy from wind turbines.	,
to (not) be reversible	Certain effects of climate change are	(nicht) umkehrbar sein
() 20 1010.3.2.0	reversible, and some are not.	(money animemous som
melting ice sheets / melting	Melting ice sheets and melting glaciers will	schmelzende Eisdecke /
glaciers	cause oceans levels to rise.	schmelzende Gletscher
thawing permafrost	Land erosion and landslides can be	auftauender Permafrost
thawing permanost	triggered by thawing permafrost.	dartadender i ermanost
rising sea levels	Rising sea levels will significantly affect a	Anstieg des Meeresspiegels
1131118 300 101013	great many coastal communities.	, motieg des meeresspregers
species loss	Species loss directly result from humans	Artenschwund
Species 1033	spreading out into wild spaces and driving	7 ii ceriserii aria
	animal populations into smaller areas.	
acidic oceans	Acidic oceans can lead to many aquatic	Übersäuerung der Ozeane
aciaic occaris	animals having to adapt quickly or perish.	obersaderang der ozeane
landslides	Landslides pose a significant threat in moun-	Erdrutsche / Hangrutschungen
lariasinaes	tainous communities with high rainfall.	Lidiated frianglated and gen
Talking about different annu		I.
Talking about different energy		
to rely on hydropower	Canada relies primarily on hydropower to	auf Wasserkraft setzen
	generate renewable energy.	
to generate electricity	A magnet moving through a coil of metal	Strom erzeugen
	wire generates electricity.	
to (not) release carbon	New forms of energy generation should	Kohlendioxid oder Schadstoffe
dioxide or pollutants	not release carbon dioxide or any other	(nicht) freisetzen
	pollutants.	
to not be without an	Building facilities to produce renewable	Umweltkosten bedingen, auf
environmental cost	energy is not without an environmental cost.	Kosten der Umwelt gehen
to wreak havoc on species	Commercial farming wreaks havoc on	den Arten und ihren Ökosystemen
and their ecosystems	species and their ecosystems.	Schaden zufügen
to restore wildlife	A main goal of the National Parks is to	die Tierwelt wiederherstellen
	restore wildlife to their natural habitats	
	and protect the land from development.	
to reduce the environ-	Biking to work reduces the environmental	die Umweltauswirkung verringern
mental impact	impact Des has due to his commute.	
to the southern services		Dogionon out dor gonzon Wolt
to threaten regions throughout the world	Dangerously high temperatures threaten regions throughout the world.	Regionen auf der ganzen Welt bedrohen

to prompt unusual weather patterns	Unseasonable temperatures prompt unusual weather patterns, like thunderstorms in winter.	ungewöhnliche Wetterlagen auslösen
to make innovative solutions more urgent	The dependency of our societal structure on large amounts of unsustainable fossil fuels makes innovative solutions more urgent.	innovative Lösungen dringender notwendig machen
to transition to a low or zero carbon grid	Representatives have already outlined a plan to transition to a low or zero carbon grid and derive all required energy from renewable sources.	zu einem kohlenstoffarmen oder kohlenstofffreien Netz übergehen
to enhance climate resilience	Changing the structures of coastal buildings can enhance their climate resilience, as they'll be more likely to remain standing even in high winds.	Klimaresistenz / Widerstandsfähig- keit gegenüber Klimaeinflüssen verbessern
Talking about electric cars		
to run on gasoline	Most cars on the road today run on gasoline.	mit Benzin betreiben
to power a car	It takes a great deal of energy to power a car for longer trips.	ein Auto antreiben
to be refined from crude oil	A great deal of modern products are refined from crude oil.	aus Rohöl raffiniert werden
to have many drawbacks	Using fossil fuels has many drawbacks.	viele Nachteile haben
to be as efficient as gas- powered cars	Some electric vehicles are just as efficient at transporting goods from point A to point B as gas-powered cars.	so effizient sein wie Autos mit Verbrennungsmotoren
to avoid greenhouse gas emissions	Cars powered by electricity generated through renewable sources avoid greenhouse gas emissions completely.	Treibhausgasemissionen vermeiden
to use clean energy	Bev uses clean energy to power the irrigation system for her garden.	saubere Energie nutzen
to make carbon-neutral fuels from plants	An innovative start-up makes carbon- neutral fuels from plants and is marketing it as "green gas".	kohlenstoffneutrale Kraftstoffe aus Pflanzen herstellen
to subsidise electric vehicles	Governments have already started subsidising electric vehicles as an attempt to get more eco-friendly cars on the road.	Elektrofahrzeuge finanziell unterstützen / subventionieren
to take advantage of tax credits	Many people take advantage of tax credits to pay less if they own an electric car.	Steuerabsetzbeträge in Anspruch nehmen
electric cars tend to be quieter	Electric cars tend to be quieter because they have less moving internal machinery than gas-powered vehicles.	Elektroautos sind tendenziell leiser
to require less maintenance	Appliances that require less maintenance are environmentally friendlier than those that constantly need upkeep.	weniger Wartung erfordern
to reduce costs for fuel	Going electric reduces costs for fuel to a significant degree, especially if you're only taking short trips.	die Kosten für Treibstoff reduzieren
to be tough to find a charging station	Because not many electric cars are being driven, it is tough to find a charging station.	schwierig sein, eine Ladestation zu finden
to not be suitable for long- distance travel	Many electric cars are not suitable for long-distance travel.	nicht für Langstreckenfahrten geeignet sein
charging the car might be a	Charging the new solar-powered van might	das Aufladen des Fahrzeugs kann
lengthy process	be a lengthy process when it's a cloudy day.	ein langwieriger Prozess sein
to require high upfront costs	Many eco-friendly modifications to current appliances or systems require high upfront costs.	hohe Anschaffungskosten / Investitionskosten erfordern