## Annex B - UNEP Emissions Gap Report 2019

Table B-1. Examples of countries, subnational governments, and non-state actors that have subscribed to ambitious targets, which can serve as examples for others to sign up to (collection as of September 2019, sources added in footnotes)

Possible targets	National governments				Cities, regions, businesses, investors (examples, not comprehensive)	Status of G20 members
		st 2019	9. Given ti	he scop	e to identify unambiguously ambitious e of existing policies and rapid change laim to be exhaustive.	
Overarching						
Achieve zero	Norway	LB	2030	GHGs	Regions: California (2045 – carbon-	2 G20 members
emissions by	Sweden	LB	2045	Unclear	neutral), Hawaii (2045 – net zero) <sup>5</sup> ,	(United Kingdom, France) have
year x <sup>xiii</sup>	United Kingdom	LB	2050	GHGs	Australian Capital Territory (2045 – net zero) <sup>6</sup> New York (2050 – carbon-	passed legislation
Overview from the Committee on Climate	France	LB	2050	GHGs	neutral) <sup>7</sup> , Scotland (2040 – net-	3 G20 members
Change report (May	Switzerland <sup>27</sup>	LB	2050	GHGs	zero) <sup>8</sup> , Catalonia (2050 - net zero) <sup>9</sup> ,	(Germany, the European Union,
2019) <sup>1</sup> , the Net-Zero	Denmark	LB con.	2050	GHGs	Queensland (2050 – net-zero) <sup>10</sup> ,	including Italy as
Tracker (2019) <sup>2</sup> , and	Germany	LB con.	2050 (TBC)	твс	South Australia (2050 – net-zero) <sup>11</sup> ,	part of it) are
Climate Home News	EU28	LB con.	2050 (TBC)	GHGs	New South Wales (2050 – net-	currently in the process of
(June 2019) <sup>3</sup> for countries and by CDP	New Zealand	LB	2050 (TBC)	CO <sub>2</sub>	zero) <sup>12</sup> , Victoria (2050 – net-zero) <sup>13</sup> ,	considering
for cities <sup>4</sup>	Chile	LB con.	2050 (TBC)	CO <sub>2</sub>	Tasmania (2050 – net-zero) <sup>14</sup>	passing legislation
-	Ireland	LB con.	2050	GHGs	Cities (all carbon-neutral):	legislation
	Netherlands <sup>28</sup>	LB con.	2050	GHGs	32 cities have pledged carbon	15 G20 members
	Finland	Not LB	2035	GHGs	neutrality by 2050 as part of the	have no binding (net-)zero
	Ethiopia	Not LB	n/a	TBC	Carbon Neutrality Coalition <sup>15</sup> and >70	
	Costa Rica	Not LB	2050	твс	cities have pledged to become	
	Bhutan	Not LB	Achieved	GHGs	carbon-neutral by 2050, including	
	Fiji	Not LB	2050	CO <sub>2</sub>	Cape Town (2050), Barcelona (2050),	
	Iceland	Not LB	2040	твс	Paris (2050), Reykjavik (2040),	
	Marshall Islands	Not LB	2050	GHGs	London (2050), The Hague (2030), Boston (2050), Indianapolis (2050),	
	Uruguay	Not LB	2030	твс	San Francisco (2050), Seattle (2050),	
	Portugal	Not LB	2050	GHGs	Washington, D.C. (2050), New York	
	In addition to some countries already listed above, Canada, Colombia, Luxembourg, Mexico, Spain are part of the Carbon Neutrality Coalition, which requires members to develop long- term strategies towards net zero GHG emissions. <sup>29</sup> In addition to some countries already listed above, Antigua and Barbuda, Argentina, Austria, Bahamas, Barbados, Belgium, Belize, Benin, Cabo Verde, Colombia, Comoros, Cook Islands, Dominica, Dominican Republic, Estonia, Grenada, Guyana, Italy, Jamaica, Kiribati, Lebanon, Maldives, Mauritius, Micronesia (Federated States of), Monaco, Namibia			Antigua os, noros, Cook enada, , Mauritius,	City (2050), Canberra (2045), Melbourne (2020 – net-zero), Sydney (2050 – net-zero), Los Angeles (2045) <sup>16</sup> , Copenhagen (2025) <sup>17</sup> , Oslo (2030) <sup>1819</sup> , Stockholm (2040 – net- zero) <sup>20</sup> , Helsinki (2035) <sup>21</sup> , Yokohama <sup>22</sup> (2050), Kyoto (2050) <sup>23</sup> , Tokyo (2050) <sup>24</sup>	,

<sup>&</sup>lt;sup>xiii</sup> Stakeholders use varying definitions for zero emission targets. 'Net-zero  $CO_2$  emissions' or 'carbon neutrality' refers only to  $CO_2$ . 'Net-zero greenhouse gas emissions' refers to all greenhouse gases. Climate neutrality can also include other climate forcers such as black carbon.

Possible targets	National governments	Cities, regions, businesses, investors (examples, not comprehensive)	Status of G20 members
Implement ambitious comprehensive CO <sub>2</sub> pricing in all sectors by year x <sup>xiv</sup>	Nauru, Nicaragua, Niue, Palau, Papua New Guinea, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Samaa, Seychelles, Solomon Islands, South Sudan, Suriname, Timor-Leste, Tonga, Trinidad and Tobago, Tuvalu, Vanuatu are listed to be part of the climate ambition alliance: net zero 2050 <sup>30</sup> <i>No country has implemented</i> <i>ambitious comprehensive CO2</i> <i>pricing in all sectors</i> <i>Examples of intermediate action:</i> 25 countries have implemented or planned a carbon tax (plus 3 countries that are considering doing so) and seven countries plus EU28 have implemented or planned an Emissions Trading System (plus 8 countries that are considering doing so), according to the World Bank's <i>Carbon Dashboard</i> <sup>31</sup>	Businesses: >500 airports in Europe (2050) <sup>25</sup> , Deutsche Post DHL Group <sup>26</sup> Investors: None identified Cities: None identified Businesses: None identified Investors: None identified Investors: None identified Examples of intermediate action: 4 Canadian States implemented a carbon tax and a tax is currently being considered by Catalonia and the Northwest Territory; 21 regions in Canada, China, Japan and the United States implemented an Emissions Trading System and 8 regions in Brazil, Canada, the United States and Taiwan are considering implementing an Emissions Trading System, according to the World Bank's Carbon Dashboard <sup>32</sup>	No G20 members have ambitious comprehensive CO <sub>2</sub> pricing in all sectors 7 G20 members (Argentina, Canada, France, Japan, Mexico, South Africa, United Kingdom) have implemented some form of carbon tax 3 G20 members (Australia, Canada, EU28) have implemented some form of Emissions Trading System, with 5 G20 members (China, Indonesia, Japan, Mexico, Turkey) considering doing so
Phase out all	No country has reform plans to fully	Regions: None identified	No G20 members
fossil-fuel	phase out all subsidies by a specific	<b>Cities</b> : None identified	have existing
subsidies by year x	<ul> <li>year</li> <li>Decision by G20 in 2009 to gradually phase out fossil-fuel subsidies, including an annual peer review among G20 members<sup>33</sup></li> <li>G20 members progressing on consumption-related support measures as of 2018 are Argentina, India, Indonesia and Mexico</li> <li>G20 members progressing on production-related support measures as of 2018 are Argentina, Canada,</li> </ul>	Businesses: None identified Investors: None identified	reform plans to fully phase out all fossil-fuel subsidies

<sup>&</sup>lt;sup>xiv</sup> The Report of the High-Level Commission on Carbon Prices of 2018 recommends an average economy-wide price of at least US\$40–80/tCO<sub>2</sub> by 2020 and US\$50–100/tCO<sub>2</sub> by 2030 to close the emissions gap in order to meet the 2°C target (High-Level Commission on Carbon Prices, 2017; UNEP, 2018). For this reason, economywide carbon prices would need to be higher in the respective years to close the emissions gap in order to meet the Paris Agreement's temperature goal of "holding the increase in the global average temperature to well below 2°C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5°C above preindustrial levels".

Dessible terrete	National governments	Cities, regions, businesses, investors	Status of G20
Possible targets	National governments	(examples, not comprehensive)	members
	China, the European Union, and the United Kingdom		
Make all	No country has made all finance	Regions: None identified	No G20 members
finance flows	flows consistent with the Paris	<b>Cities</b> : None identified	have finance
consistent with	Agreement goals	Businesses: None identified	flows fully aligned with the
the Paris		Investors: French Development	Paris Agreement
Agreement	Examples of intermediate action: United	Agency (AFD) (since 2017) <sup>35</sup> , the	goals
goals by year x	Kingdom (Green Finance Strategy of 2019) <sup>34</sup>	Netherlands Development Finance	0
	2019)-*	Company (FMO) (2016) <sup>3637</sup> ,	
		Multilateral Development Banks	
		(MDBs) (approach to be developed	
		by 12/2019) <sup>38</sup>	
Electricity			
production	42 42		
Reach 100 per cent renewable	Austria (2030) <sup>42</sup> , Sweden (2040) <sup>43</sup> ,	<b>Regions</b> : California (2045), Hawaii (2045), Rhineland-Palatinate (2030),	<b>No</b> G20 members have a 100 per
electricity or	Cape Verde (2025) <sup>44</sup> , Costa Rica	South Australia (2025), Cook Islands	cent renewable
100 per cent	(2030) <sup>45</sup> , Denmark (2035) <sup>46</sup> , Fiji	(2020), El Hierro (not defined), New	electricity or a
carbon-free	(2030) <sup>47</sup> , Iceland ( <i>achieved</i> ) <sup>48</sup> , New	Mexico (2050) <sup>57</sup> , Nevada (2050) <sup>58</sup> ,	100 per cent
electricity by	Zealand (2035) <sup>49</sup> , the Solomon	Washington State (2045) <sup>59</sup> , New York	carbon-free
year x	Islands (2030) <sup>50</sup> , Tuvalu (2020) <sup>51</sup> ,	$(2050)^{60}$ , Puerto Rico $(2035)^{61}$ ,	electricity target
-	Papua New Guinea (2030) <sup>52</sup> Samoa	Washington, D.C. (2032) <sup>62</sup> , Maine	
Overview by the	(2021) <sup>53</sup>	(2050) <sup>63</sup> , Burgenland (2020) <sup>64</sup> , Upper	
International Renewable Energy			
Agency (IRENA) (2019)	Example(s) of other intermediate action: 53 countries have further pledged to	Austria (2030) <sup>65</sup> , Lower Austria	
<sup>39</sup> , REN21 (2019) <sup>40</sup> ,	achieve some sort of 100 per cent	( <i>achieved</i> ) <sup>66</sup> , Schleswig-Holstein	
and Go100%Renewable (2019) <sup>41</sup>	renewable energy target with	( <i>achieved</i> ) <sup>67</sup> , Mecklenburg-	
(2019)	differences/little clarity on the scope and	Vorpommern ( <i>achieved</i> ) <sup>68</sup> , Hessen	
	legal durability <sup>54</sup> , including the Climate	(2050) <sup>69</sup> , Fukushima (2040) <sup>70</sup> , Sumba	
	Vulnerable Forum (CVF) comprising 48	(2025) <sup>71</sup> , Scotland (2020) <sup>72</sup>	
	developing countries <sup>55</sup>	<b>Cities</b> : Sydney (2030) <sup>73</sup> , Canberra	
	Example(c) of other intermediate action:	(2020) <sup>74</sup> , Vancouver (2050) <sup>75</sup> ,	
	Example(s) of other intermediate action: 33 states have further pledged to achieve	Victoria (2050) <sup>76</sup> , Malmo (2020) <sup>77</sup> ,	
	some sort of 100 per cent renewable	122 United States cities have	
	energy target with differences/little	committed to 100 per cent	
	clarity on the scope and legal durability <sup>56</sup>	renewable energy <sup>78</sup> including San	
		Francisco (2030), Portland (2035) and	
		Los Angeles (2045) <sup>79</sup>	
		Businesses: 180 companies "to go	
		100 per cent renewable" as part of the RE100 initiative <sup>80</sup>	
		Investors: None identified	
Phase out coal-	Finland (2029), Austria (2020), Chile	<b>Regions</b> : Australian Capital Territory,	<b>3</b> G20 members
fired power	(2040), Denmark (2030), France	Alberta, British Columbia, Balearic	(France, Canada,
plants by year x	(2021), Ireland (2025), Italy (2025),	Islands, California, South	Italy) have
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,	passed legislation

Possible targets	National governments	Cities, regions, businesses, investors	Status of G20
		(examples, not comprehensive)	members
with just a transition plan <sup>xv</sup>	the Netherlands (2030) <sup>xvi81</sup> , Portugal (2030), Sweden (2022), Canada (2030) <sup>82</sup> , United Kingdom (2025, <u>under consideration</u> ) <sup>83</sup> , Germany (2038, <u>under consideration</u> ) <sup>84</sup>	Chungcheong Province, Connecticut, Hawaii, Minnesota, New York, Ontario, Oregon, Quebec, Scotland, Wales, State of Washington (all part of the Powering Past Coal Alliance) <sup>85</sup> <b>Cities</b> : Honolulu, Melbourne, Los Angeles, Rotterdam, Sydney, Vancouver (all part of the Powering Past Coal Alliance <sup>86</sup> ) <b>Businesses</b> : 28 businesses in the Powering Past Coal Alliance <sup>87</sup> <b>Investors</b> : None identified	<ul> <li>2 G20 members (Germany, the United Kingdom) are currently in the process of passing legislation</li> <li>15 G20 members have no binding phase-out plan</li> </ul>
Stop financing and insuring coal-fired power plants elsewhere as of year x	No country has legally binding legislation to fully stop financing and insuring coal-fired power plants elsewhere	Regions: None identified Cities: None identified Businesses: None identified Investors: DBS Group Holdings Ltd. <sup>88</sup> ; Oversea-Chinese Banking Corp. <sup>89</sup> ; Standard Chartered <sup>90</sup> ; Commonwealth Bank by 2030 <sup>91</sup> ; National Bank for Economic and Social Development (BNDES) <sup>92</sup> ; <u>22</u> <u>banks</u> stopped directly financing new coal mine projects worldwide and <u>23</u> <u>banks</u> stopped directly financing new coal plant projects worldwide <sup>93</sup>	No G20 members have legally binding legislation to fully stop financing and insuring coal-fired power plants elsewhere
Other energy			
industry			
Stop new fossil- fuel explorations and production as of year x	Ireland (2018 – oil and gas) <sup>94</sup> , Denmark (2018 – oil and gas) <sup>95</sup> , New Zealand (2018 – offshore oil and gas) <sup>96</sup> , Belize (2017 – oil) <sup>97</sup> , Costa Rica (2014–2021 – petroleum) <sup>98</sup> , France (2040 – oil & gas) <sup>99</sup> <i>Example(s) of other intermediate action:</i> <i>The Netherlands (2030 – <u>Groningen gas</u> <u>field)<sup>100</sup>, United States (<b>TBC</b> – <u>Arctic oil</u> <u>and gas exploration</u>), Canada (<b>TBC</b> – <i>Arctic oil and gas exploration</i>)<sup>101</sup></u></i>	Regions: None identified Cities: None identified Businesses: None identified Investors: AXA and Swiss Reinsurance Company Ltd. (stop insuring/underwriting oil pipelines, shale gas, tar sands and Arctic drilling), ADB, The African Development Bank Group (AfDB), World Bank Group <sup>102</sup>	<ul> <li>1 G20 member (France) has passed legislation</li> <li>19 G20 members have no binding commitments to stop new fossil- fuel explorations and production</li> </ul>
Commit to zero fugitive	No country has committed to a zero fugitive emissions target	Regions: None identified Cities: None identified	<b>No</b> G20 members have a zero

<sup>&</sup>lt;sup>xv</sup> Uncertainty remains as to whether all phase-out plans in the countries and regions mentioned are paired with a transition plan.

<sup>&</sup>lt;sup>xvi</sup> The Netherlands will ban co-firing in power plants but has left the door open for them to shift to other fuels.

Possible targets	National governments	Cities, regions, businesses, investors (examples, not comprehensive)	Status of G20 members
emissions target for year x	Example(s) of other intermediate action: Canada (40-50 per cent by 2025) <sup>103</sup> , 32 governments endorse the World Bank's Zero Routine Flaring by 2030 initiative <sup>104</sup>	<b>Businesses</b> : Qatar Petroleum ( <u>under</u> <u>consideration</u> ) <sup>105</sup> , 13 Oil and Gas Climate Initiative (OGCI) companies have a target of reducing methane intensity in up-stream gas and oil operations to below 0.25 per cent by 2025, with the ambition to reach 0.20 per cent <sup>106</sup> <b>Investors</b> : None identified	fugitive emissions target
Industry			
Ensure all new installations are low- carbon/zero- emission and maximize material efficiency as of year x	No country has legally binding legislation to phase-in low- carbon/zero-emissions industrial technologies	Regions: None identified Cities: None identified Businesses: ThyssenKrupp (hydrogen-based steelmaking by 2050) <sup>107</sup> , SSAB (fossil-free steelmaking by 2045) <sup>108</sup> , Heidelberg (carbon-neutral concrete by 2050) <sup>109</sup> Investors: None identified	No G20 members have a target for all new installations to be low- carbon/zero emissions
Implement ambitious carbon pricing for industry by year x <sup>xvii</sup>	Sweden (€114 per tCO <sub>2</sub> , <u>industry</u> <u>outside the EU Emissions Trading</u> <u>System</u> ) <sup>110</sup> Example(s) of other intermediate action: EU Emissions Trading System for selected industry sectors (€26–29 per tCO <sub>2</sub> )	Regions: None identified Cities: None identified Businesses: None identified Investors: None identified	No G20 members have implemented ambitious carbon pricing for the industry sector
Transport Shift to x per cent public transport by year x	China (30 per cent by 2020, in large- and medium-sized cities) <sup>111</sup> , India (45 per cent with no target year defined, share of railways in total land transport) <sup>112</sup> , Indonesia (32 per cent in 2019) <sup>113</sup> , Singapore (75 per cent in 2030) <sup>114</sup>	2025 by foot, bike or on public transit) <sup>115</sup> , San Francisco (58 per cent by 2019) <sup>116</sup> , New York (80 per cent	3 G20 members (China, India, Indonesia) have varying modal shift targets <i>No conclusion</i> <i>possible for any</i> <i>other G20</i> <i>member</i>

<sup>&</sup>lt;sup>xvii</sup> The Report of the High-Level Commission on Carbon Prices of 2018 recommends an average economy-wide price of at least US\$40–80/tCO<sub>2</sub> by 2020 and US\$50–100/tCO<sub>2</sub> by 2030 to close the emissions gap in order to meet the 2°C target (High-Level Commission on Carbon Prices, 2017; UNEP, 2018). For this reason, economywide carbon prices would need to be higher in the respective years to close the emissions gap in order to meet the Paris Agreement's temperature goal of "holding the increase in the global average temperature to well below 2°C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5°C above preindustrial levels".

Possible targets	Nationa	l governments	Cities, regions, businesses, investors (examples, not comprehensive)	Status of G20 members
			Investors: None identified	
cent share of new zero- emission motorbikes, cars and/or buses as of year X Extensive overview for countries, regions, cities and companies carried out by the Partnership on Sustainable, Low Carbon Transport (May 2019) <sup>120</sup>	2025 2030 2040 2050	2023, <u>TBC</u> ), Norway (cars) 2030 Denmark (cars), Iceland (cars), India (cars, <u>TBC</u> ), Ireland (cars), Israel (cars), Nepal (cars, <u>TBC</u> ), Netherlands (cars), Scotland (cars by <u>2032</u> ), Slovenia (cars, <u>TBC</u> ), Sweden (cars) 2040 Canada (cars), France (cars), Indonesia (cars, <u>TBC</u> ), Portugal (cars, <u>TBC</u> ), Spain (cars, <u>TBC</u> ), United Kingdom (cars) <sup>130</sup>	<b>Regions</b> : California (cars by 2040, buses by 2029) <sup>121</sup> , Hainan (cars by 2030), British Colombia (cars and trucks by 2040), Hawaii (cars and bus fleets by 2045), Australian Capital Territory (public fleet by 2021) <b>Cities</b> : Seoul (car fleet by 2027, but including compressed natural gas vehicles [CNG]), Bangalore (bus fleet by 2023), Rotterdam (bus fleet by 2029), Medellin (buses, <b>TBC</b> ), Paris (cars and buses by 2025), Rome (cars by 2024), London (buses by 2025), Los Angeles (car fleet by 2050); 30 Chinese cities, including Guangzhou, Zhuhai, Dongguan, Foshan, Zhongshan, Nanjing, Hangzhou, Shaanxi and Shandong (bus and taxi fleet by 2022) <sup>122</sup> , Rio de Janeiro	<ul> <li>5 G20 members (Canada, France, Japan, Mexico, United Kingdom) announced targets</li> <li>2 G20 members (India, Indonesia) have announced a phase-in but it is pending confirmation</li> <li>13 G20 members have not announced a phase-in of new zero-emission motorbikes, cars and/or buses</li> </ul>
		(public bus fleet by 2025) <sup>123</sup> , 13 European cities will ban all internal combustion cars by 2030 <sup>124</sup> ; Shenzen (bus and taxis, <i>achieved</i> ) <sup>125</sup> <b>Businesses</b> : 49 companies as part of the EV100 initiative <sup>126</sup> ; Volvo (50 per cent electric cars by 2025 and 100 per cent of all models <u>available</u> to be electric by 2019) <sup>127</sup> , Volkswagen (15 million cars by 2025) <sup>128</sup> , Jaguar (all models available by 2020) <sup>129</sup> <b>Investors</b> : <i>None identified</i>		
Shift to 100 per cent carbon- free heavy goods transport and ships as of year x	target fo	try has a legally binding or 100 per cent carbon-free oods transport and ships	Regions: None identified Cities: None identified Businesses: A.P. Moller-Maersk (net- zero carbon emissions by 2030 and carbon-neutral vessels by 2030) <sup>131</sup> , Nippon Yusen (NYK) and Elomatic (concept for carbon-free ships by 2050) <sup>132</sup> , e5 Lab Inc. (first zero- emission tanker by 2021) <sup>133</sup> , 7 port authorities announced World Ports Climate Action Program to keep global warming well below 2°C <sup>134</sup> Investors: None identified	<b>No</b> G20 members have a legally binding target for 100 per cent carbon-free heavy goods transport and ships

Possible targets	National governments	Cities, regions, businesses, investors ( <i>examples, not comprehensive</i> )	Status of G20 members
cent carbon- free aviation as of year x	No country has a legally binding target for 100 per cent carbon-free aviation Example(s) of other intermediate action: Norway (2040, short-haul flights) <sup>135</sup>	Regions: None identified Cities: None identified Businesses: None identified Investors: None identified Example(s) of other intermediate action: Scotland (net-zero domestic aviation region by 2040 with trials of low/zero- emission flights beginning in 2021) <sup>136</sup>	<b>No</b> G20 member has a legally binding target for 100 per cent carbon-free aviation
Buildings			
Shift to 100 per	EU28 (public by 2019, all by 2021),	Regions: California (residential by	6 G20 members
cent (near-) zero energy buildings for	Japan (public by 2020, all by 2030), United States (public by 2030)	2020, commercial by 2030) <sup>138</sup> , 6 regions have signed the <i>Net Zero</i> <i>Carbon Buildings Commitment</i> (by	(The European Union, including France, Germany, Italy and the United Kingdom
new buildings as of year x Extensive overview		2050) <sup>139</sup> <b>Cities</b> : 23 cities have signed the <i>Net</i> <i>Zero Carbon Buildings Commitment</i> (by 2050) <sup>140</sup>	United Kingdom as part of it, and Japan) have passed legislation
for countries, regions, and cities by the International Partnership for Energy Efficiency Cooperation (IPEEC) (2018) <sup>137</sup>		<b>Businesses</b> : 23 businesses have signed the <i>Net Zero Carbon Buildings</i> <i>Commitment</i> (by 2050) <sup>141</sup> <b>Investors</b> : <i>None identified</i>	14 G20 members have not passed legislation
Fully	EU28 (2050)	<b>Regions</b> : 6 regions have signed the	5 G20 members
decarbonize the building sector by year x		Net Zero Carbon Buildings Commitment (by 2050) <sup>142</sup> Cities: Coalition of European cities, including Madrid, Wroclaw, Leeds, Dublin, Velika Gorica, Budaors, Padua, and Eskisehir (2050) <sup>143144</sup> ; 23 cities signed the Net Zero Carbon Buildings Commitment (by 2050) <sup>145</sup> Businesses: 23 businesses have signed the Net Zero Carbon Buildings	(the European Union, including France, Germany, Italy and the United Kingdom as part of it) have passed legislation <b>15</b> G20 members have not passed legislation
		Commitment by 2050 <sup>146</sup> Investors: None identified	
	Netherlands (2050) <sup>147</sup>	Regions: None identified	No G20 members
fuels (for example, gas) for residential heating by year x	Example(s) of other intermediate action: United Kingdom (no connection to the gas grid by 2025, <u>TBC</u> ) <sup>148</sup>	<b>Cities</b> : Amsterdam (2050) <sup>149</sup> , Vancouver (2050) <sup>150</sup> , Berkeley (n/a) <sup>151</sup> <b>Businesses</b> : <i>None identified</i> <b>Investors</b> : <i>None identified</i>	have a legally binding target to phase out gas for residential heating
Increase the	No country has a legally binding	Regions: None identified	No G20 members
rate of zero-	target for the rate of zero-energy	Cities: None identified	have a legally
energy	renovation across all buildings	Businesses: None identified	binding target for
renovations to x		Investors: None identified	the rate of zero-

	National governments	Cities, regions, businesses, investors (examples, not comprehensive)	Status of G20 members
per cent per	Example(s) of other intermediate action:		energy
year	EU28 (3 per cent, <u>public buildings</u> ) <sup>152</sup>		renovation
Agriculture and			
forestry			
Zero net	50 countries endorsed the New York	Regions: 21 regions endorsed the	12 G20 members
deforestation	Declaration on Forests (2030) <sup>153</sup>	New York Declaration on Forests	(Canada, Germany, the European
by year x		(2030) <sup>155</sup>	Union, France, Italy,
	67 countries pledged support for The	<b>Cities</b> : None identified	Indonesia, Japan, Mexico, South
	World Wide Fund for Nature (WWF)'s	Businesses: >50 businesses endorsed	Korea, Turkey, the
	call for zero net deforestation by	the New York Declaration on Forests	United States, the
	2020 <sup>154</sup>	(2030) <sup>156</sup> ; Consumer Goods Forum	have signed the
	2020	(some 400 c stakeholders) pledged to achieve zero net deforestation by 2020 <sup>157</sup>	United Kingdom) have signed the New York Declaration on Forests <b>12</b> G20 members (Australia, Brazil, the European Union, France,

climate-change-strategy-2015-2050-towards-low-carbon-economy.pdf

<sup>12</sup> https://www.environment.nsw.gov.au/-/media/OEH/Corporate-Site/Documents/Climate-change/nsw-climate-change-policy-

framework-160618.pdf

<sup>13</sup> <u>https://www.climatechange.vic.gov.au/reducing-emissions/emissions-targets</u>

<sup>14</sup> http://www.dpac.tas.gov.au/divisions/climatechange/tasmanias climate change action plan 20172021

<sup>15</sup> <u>https://www.carbon-neutrality.global/members/</u>

https://cdn.locomotive.works/sites/5ab410c8a2f42204838f797e/content\_entry5ab410faa2f42204838f7990/5ab563eda2f4220acf45cff6/f\_iles/pLAn\_2019\_final.pdf?1558628720

https://cdn.locomotive.works/sites/5ab410c8a2f42204838f797e/content\_entry5c8ab5851647e100801756a3/5cab5f148ee1a4007fe44c9f /files/CPH\_2025\_Climate\_Plan.pdf?1554735309

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