

# CLIMATE ACTION PATHWAY

# **INDUSTRY**

Action Table

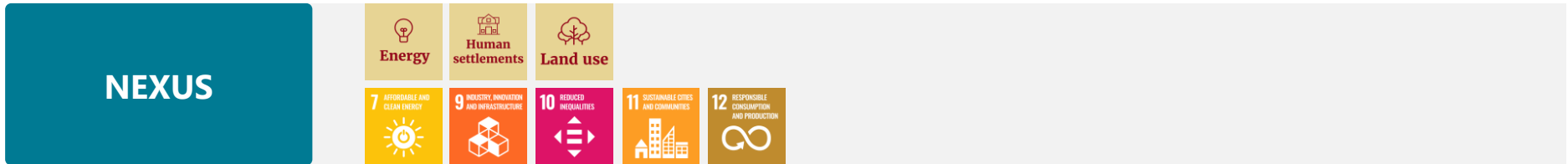
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November 2019



# INDUSTRY TRANSFORMATION ACHIEVES NET-ZERO EMISSIONS BY 2050

Mitigation



Policies (national, subnational and local)	By 2020	By 2030	By 2050
		<ul style="list-style-type: none"> <li>Promote industry transition towards net-zero by advocating for and promoting measures to enable the use of meaningful carbon-pricing mechanisms that provide a strong long-term signal to spur innovative, low-carbon technology development</li> <li>Support infrastructure development and deployment of new innovations</li> <li>Support accelerated deployment of renewable energy at scale</li> <li>Task force on Climate-related Financial Disclosure (TCFD) recommendations adopted by governments</li> <li>Commitments from policymakers to end fossil-fuel subsidies</li> </ul>	<ul style="list-style-type: none"> <li>Promote the deployment of low-carbon technologies and innovations at scale across industrial sectors</li> <li>End government support for fossil fuels (and fossil fuel subsidies)</li> <li>Implement effective and durable carbon pricing mechanisms across all economies</li> <li>Create supportive institutional, legal and regulatory frameworks to promote industry decarbonization</li> <li>Implement high labor standards and social protection regulation to ensure a Just Transition to decent jobs</li> </ul>

	<ul style="list-style-type: none"> <li>Support economy wide Just Transition to net-zero through social dialogues with key stakeholders and create supportive institutional and policy frameworks incorporated in Nationally Determined contributions and Long-term Strategies</li> </ul>
<h3>Finance and Investment</h3>	<ul style="list-style-type: none"> <li>Better evaluation of climate-related risks and opportunities, e.g. TCFD recommendations</li> <li>Develop clear plans to shift investment portfolios towards low-carbon infrastructure and technologies</li> <li>Invest in research and design (R&amp;D) projects, especially pilot plants on key innovation priorities</li> <li>Develop public-private partnerships to invest in R&amp;D projects</li> <li>Increase funding directed at driving innovation and maximize the likelihood of more fundamental breakthroughs</li> <li>Commitments by the banking and financial sector to end investment in fossil fuel portfolios</li> <li>Institutionalize financing mechanisms and incentive structures for industry decarbonization</li> </ul>
<h3>Technology and Innovation</h3>	<ul style="list-style-type: none"> <li>Identify key technology levers and establish partnerships around them to develop industry solutions</li> <li>Advance the development of key technologies necessary to support the transition to net-zero emissions e.g. Carbon Capture, Utilization and storage (CCUS), clean material innovation, clean cooling</li> <li>Accelerate action on development of zero-emission heavy-industry systems along the value chain at scale</li> <li>Establish innovation partnerships that engage various cross-sector stakeholders to accelerate industry transformations</li> </ul>
<h3>Business and Services</h3>	<ul style="list-style-type: none"> <li>Develop sector-specific roadmaps to net-zero carbon emissions by 2050, including clear specifications on how transitional solutions such as offsets will be used and eventually phased out</li> <li>Create demand for “green” materials by expanding commitments to green procurement</li> <li>Implement roadmaps to support cross-sectoral partnerships which can deliver greater material efficiency and circularity</li> <li>TCFD implementation becomes mainstream</li> <li>Support implementation of science-based targets to achieve climate-resilient supply chains</li> <li>Integrate low-carbon practices and technology, through multi-stakeholder partnerships, within key economic sectors</li> <li>Incorporate principles of Just Transition within entire business operations and value chain.</li> </ul>



	<ul style="list-style-type: none"> <li>▪ Involve key enabling sectors to support industry transformation, e.g. traceability of materials to improve resource efficiency, digitalization of energy use, financing infrastructure development (e.g. hydrogen, Carbon capture and storage (CCS))</li> <li>▪ Commit to science-based targets in line with achieving 1.5°C</li> <li>▪ Develop internal structures and integrated corporate strategies to ensure a Just transition decent jobs that meet high labor standards</li> <li>▪ Increase implementation of TCFD recommendations</li> </ul>
<p><b>Civil Society</b></p>	<ul style="list-style-type: none"> <li>▪ Implement corporate strategies that supports a Just Transition through social dialogue with workers and their unions, social protection, wage guarantees etc.</li> <li>▪ Promote public-private collaboration for industry decarbonization</li> <li>▪ Advocate for public policies that support a Just Transition towards green jobs</li> <li>▪ Promote changes in consumer patterns to demand low-carbon emission products and services</li> <li>▪ Develop partnerships and collaborations with businesses and governments to support industry-sector initiatives that aim to achieve net-zero</li> </ul>



## EXISTING INITIATIVES

<b><u>Science-Based Targets initiative</u></b>	The initiative mobilizes companies to set greenhouse gas emission reduction targets consistent with the level of decarbonization required by science to limit warming to less than 1.5°C compared to pre-industrial temperatures.
<b><u>Low-Carbon Technology Partnerships initiative</u></b>	The initiative demonstrates how business is implementing real solutions at scale by bringing different sectors together to sharply reduce emissions.
<b><u>RE100</u></b>	RE100 brings together influential businesses committed to 100 per cent renewable electricity.
<b><u>Take Action Platform</u></b>	The Take Action Platform is a campaign initiative which provides a global business platform to demonstrate ambitious climate action.
<b><u>Industry Transition Platform</u></b>	The platform supports governments to develop ambitious strategies to achieve the deep emission cuts of heavy-emitting countries that are necessary for a net-zero future.
<b><u>Carbon-Pricing Leadership Coalition</u></b>	The coalition brings together leaders of government, private sector, academia and civil society to expand the evidence base for the most effective carbon-pricing systems and policies.
<b><u>Alliance to End Plastic Waste</u></b>	The alliance is the largest global CEO-led, cross-value-chain, not-for-profit organization with a mission to develop, deploy and bring to scale solutions that will minimize and keep plastic waste out of the environment.
<b><u>Business for Nature</u></b>	This coalition brings together influential business organizations to call for comprehensive action to reverse nature loss and restore the planet's vital natural systems.
<b><u>Mission Possible Platform</u></b>	The platform is collaborative initiative between businesses and governments to drive down heavy-industry greenhouse gas emissions by delivering technology, policy and financing solutions.
<b><u>Climate Action 100</u></b>	This global investor initiative that puts coordinated pressure on the biggest-emitting companies to adopt climate change strategies.



<b><u>Divest-Invest Global Movement</u></b>	The movement represents a global network of individuals and organizations united in the belief that by using our collective influence as investors to divest from fossil fuels, and invest in climate solutions, we can accelerate to a zero-carbon economy.
<b><u>Business Leadership Criteria on Carbon-Pricing</u></b>	This initiative seeks to inspire companies to reach the next level of climate performance and to advocate for a price on carbon as a necessary and effective measure to tackle the climate challenge.
<b><u>Chambers Climate Coalition</u></b>	The coalition provides a unique platform to visibly demonstrate an unprecedented mobilization of local businesses and chambers of commerce in support of ambitious climate action aligned with 1.5°C and net zero by 2050.
<b><u>We Mean Business Coalition</u></b>	The We Mean Business Coalition is a global non-profit working with the world’s most influential businesses to take action on climate change. The group works together to catalyze business leadership to drive policy ambition and accelerate the transition to a zero-carbon economy.

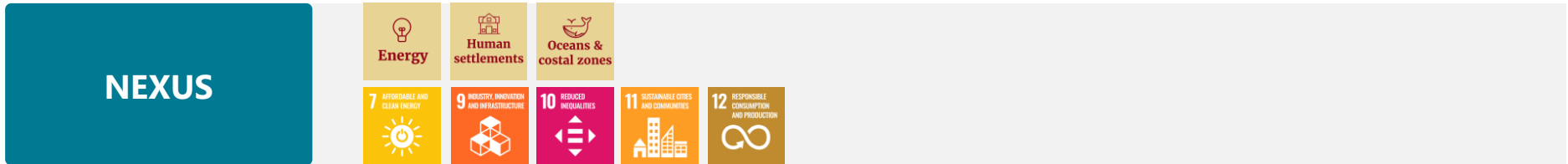
## FURTHER REFERENCES

<b><u>Intergovernmental Panel on Climate Change, Special Report: Global Warming of 1.5°C</u></b>	<b><u>United Nations Global Compact, World Resources Institute, We Mean Business: The Ambition Loop Report</u></b>
<b><u>Energy Transitions Commission: Mission Possible; Reaching Net-Zero Carbon Emission from Harder-To-Abate Sectors by Mid-Century</u></b>	<b><u>Carbon-Pricing Leadership Report</u></b>
<b><u>Material Economics; Industrial Transformation 2050: Towards an Industrial Strategy for a Climate Neutral Europe, IES</u></b>	<b><u>We Mean Business Ambition Benchmarks</u></b>

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# INDUSTRY IS RESILIENT TO CLIMATE RISKS AND IMPACTS

Adaptation



	By 2020	By 2030	By 2050
<b>Policies (national, subnational and local)</b>	<ul style="list-style-type: none"> <li>Provide integrated policy frameworks to provide clarity to businesses, investors and governments on a long-term policy framework for clean energy</li> <li>Promote value-chain approach for climate-resilient industry</li> <li>Support institutional capacity-building to identify and manage climate risk</li> </ul>	<ul style="list-style-type: none"> <li>Support and promote climate-resilient strategies by industry and governments</li> </ul>	
<b>Finance and Investment</b>	<ul style="list-style-type: none"> <li>Demand disclosure of risk management approaches that ensure business resilience</li> <li>Develop institutional capacity to identify and manage climate risk</li> </ul>	<ul style="list-style-type: none"> <li>Review business-case and investment financing criteria to facilitate delivery of climate-resilient infrastructure</li> </ul>	



<h2>Technology and Innovation</h2>	<ul style="list-style-type: none"> <li>Develop modelling and information management systems</li> <li>Collect sufficient data to reveal areas of risk and opportunity towards building industry resilience</li> <li>Transfer best available technologies to improve technical capacities to adopt climate resilience technologies</li> <li>Deploy advanced technologies to support adaptation projects within industry</li> <li>Develop new design standards, planning processes and evaluation techniques to accommodate climate change-related risks</li> </ul>
<h2>Business and Services</h2>	<ul style="list-style-type: none"> <li>Incorporate climate-resilient strategies into business operations</li> <li>Build institutional capacity to manage climate risks to existing assets and operations</li> <li>Monitor asset condition; prioritize maintenance activity to maximize adaptive capacity</li> <li>Build resilient supply chains with the capacity to address changes</li> <li>Implement real-time monitoring and early warning systems; prepare and publicize contingency plans</li> <li>Establish cross-sectoral and cross-value-chain collaboration to improve supply chain resilience</li> </ul>
<h2>Civil Society</h2>	<ul style="list-style-type: none"> <li>Ensure familiarity with disaster recovery and other contingency plans</li> <li>Engage, where relevant, in decisions on resilient transport infrastructure; help to identify no-regret or win-win opportunities</li> <li>Facilitate information exchange, share evolving good practices and feedback into industry guidelines and standards</li> </ul>

## EXISTING INITIATIVES

<p><b><u>Green Industry for Climate Action</u></b></p>	<p>Places sustainable industrial development in the context of new global sustainable and climate-resilient development challenges.</p>
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## FURTHER REFERENCES

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[UNIDO: Promoting Climate Resilient Industry](#)

[World Business Council for Sustainable Development |Business Climate Resilience - Thriving through the Transformation](#)

[Global Centre on Adaptation Report](#)