



FIDIC CLIMATE CHANGE CHARTER

Working today for a greener tomorrow

November 2021



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Version	Reason for update
1.0	Release of First FIDIC Climate Change Charter

FOREWORD



Anthony Barry
President, FIDIC

The climate challenge is one that no section of society can ignore if we are to achieve a sustainable quality of life. Never before has it been so important that the entire infrastructure sector is engaged in the debate as to how we address this issue tackle it's significance and scale going forward.

FIDIC has been motivated to outline its leadership response on the behalf of the consulting engineering community because of the urgency of the climate crisis and the scale of the changes required.

This FIDIC charter sets out in basic, initial terms, how we address climate mitigation, adaptation and resilience of the built environment in the years and decades to come. The charter outlines a series of actions to be taken by the following stakeholders:

- **FIDIC itself.**
- **FIDIC member associations.**
- **Project teams and schemes.**
- **Companies.**
- **Individual professional engineers.**



Dr Nelson Ogunshakin OBE
Chief Executive Officer, FIDIC

As one of FIDIC's core principles, sustainability is an important element of FIDIC's 2020-2024 Strategic Plan. It is vital as an industry that we embed sustainability in our day-to-day delivery, lives and operations and, if done at sufficient scale, it should be possible to normalise.

This charter is designed to inspire the profession and its key stakeholders to become experts in carbon engineering, and the ways to mitigate and eliminate its impact upon our planet and consult our stakeholders in the building and infrastructure sector in the energy transition.

FIDIC wants to align the global FIDIC community around a number of concise, ambitious aspirations and commitments to mitigate climate change and put consulting engineers at the forefront of global innovation in technical and behavioural solutions.

In this regard, this charter not only underwent the widest consultation to date of a FIDIC policy document receiving high levels of support, but also will continue to evolve over time.

As noted by respondents, this charter is only the beginning. There will be guides, briefings and tools that also need developing to assist FIDIC, it's member associations, companies and projects to commit to moving forward.

That is why further suggestions for the consultation and even through engagements going forward will be collected and used to form a forward programme of as part of the FIDIC for Global Goals arena, which for the first time brings together all of FIDIC's sustainability, SDG, and climate work together in one place.

I would encourage the entire sector to be part of meeting this challenge and to sign up to this truly global aspirational charter which places engineers at the heart of change to help meet the climate challenge.



FIDIC CLIMATE CHANGE CHARTER

1. INTRODUCTION

This Climate Change Charter represents a significant new call to action by FIDIC, the global consulting engineering industry body which represents over 40,000 companies and more than one million professional engineers and consultants around the world.

In this charter we consider infrastructure to include both hard and social elements, this means that sectors are covered from energy and transport through to hospitals and schools. We consider this to be important as it considers the extent to which engineers can help to drive reductions in emissions across the widest part of society and day-to-day lives.

The Intergovernmental Panel on Climate Change (IPCC) 2018 report, Global warming of 1.5°C issued a stark message, which has been amplified in its report, Climate Change 2021, The Physical Science Basis, indicating that urgent action is not only required, but that inaction or current progress is not sufficient.

FIDIC accepts the climate science and embraces the IPCC's advice. It is FIDIC's position that there is no better premise on which to move forward.

In considering the position of the industry globally and infrastructure generally, FIDIC observes the following:



The need to reduce emissions is urgent, if we are to achieve net zero by 2050 and avoid more significant temperature rise and thus, change of our habitat.



It is an enormous challenge to reduce energy demand met by fossil fuels while the costs and efforts to increase the available electrical energy available to deliver low-carbon solutions are huge and so will require increased funding.



The demand and usage of building, infrastructure and industrial facilities is very significant globally to support social development and economic growth.



Many of the materials and technologies currently used in infrastructure, building and industrial facilities are not appropriate for a low carbon future.



Collaborative research and the development of new technologies and innovative materials is critical to transition to net zero.



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The incorporation of low-carbon solution or net zero principles should be incorporated in all designs.



The resilience of existing infrastructure will not be adequate to deal with the climatic events associated with significant temperature rise.



The direct cost of repairs and replacement, along with the consequential costs of social and economic disruption caused by loss of function (temporarily and/ or permanently) of infrastructure damaged by climatic events, will be very significant.



The collection of data, building geophysical models and the development of probabilistic risk-based models, will be essential to inform investment decision-making to achieve change efficiently and avoid or reduce the cost of loss and damage to building and infrastructure.



Educating participants in the industry to plan and design for a low-carbon future by sharing knowledge, case studies and experiences will be vital to upskilling the industry to address the carbon reduction challenge.



The consulting engineering industry will need to develop its workforce and universities their graduates with new skills to plan and design infrastructure for a low-carbon and climate resilient future.



Project procurement and risk allocation in contracts need significant change and innovation and carbon reduction objectives and metrics are required at project level if progress is to be made in decarbonisation of the building and infrastructure sector.



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FIDIC is of the view that there needs to be a significant shift in the approach by society, companies, industries, universities and governments (globally) to limit temperature rise, mitigate and build adaption to the impacts of climate change and address the issues identified above.

It is FIDIC's position that the world is now dealing with a climate emergency. This emergency is beginning to affect people now and will continue to affect increasing numbers of individuals and communities over the next 30 years.

In reaching this position, FIDIC is acting to achieve the objectives set out in FIDIC's statutes:

- Represent the consulting engineering industry globally.
- Be the authority on issues relating to business practice.
- Drive excellence in quality, risk and project management and leadership.
- Combat and condemn bribery and corruption and promote ethics, integrity and transparency in the industry.
- Promote safe, sustainable and resilient development.
- Promote diversity, equal opportunity and inclusiveness.
- Stimulate development of talent, skill and future leaders for the consulting engineering industry.

In publishing this charter, we acknowledge the work of FIDIC's Sustainable Development Committee to:

- Assess the impact of the construction industry and advise the consulting engineering industry as to how it may develop strategies, tools and training to maximise its contribution to achieving the Sustainable Development Goals (SDGs).
- Assess the potential impact of climate change and provide a forum for consulting engineers to share ideas as to how they can enable mitigation, adaptation and resilience to climate change to develop and maintain buildings and infrastructure assets and heritage.
- Advise FIDIC, as to appropriate sustainability policies and practices.
- Monitor, advocate and guide best practice in sustainable development across the global engineering and construction industry.
- Advise the FIDIC board and secretariat on all aspects of sustainable development across the consulting engineering industry.

FIDIC also acknowledged and thank those individual firms executives and stakeholders consulted for their comments and contributions during the drafting of the charter.



Annotation of Core Principles by FIDIC



FIDIC CLIMATE CHANGE CHARTER

2. PURPOSE

As a global industry body representing professional engineers, there are three important considerations that we aim to address through the charter.

- 1** Reduce emissions related to our own operations across the industry.
- 2** Reduce embedded and operational carbon emissions in the building and infrastructure projects on which we consult, design and deliver.
- 3** Support climate change adaptation through mitigation and design of disaster or event resilient infrastructure.

FIDIC has been motivated to outline its leadership response on the behalf of the consulting engineering community because of the urgency of the climate crisis and the scale of the changes required. This FIDIC charter sets out in basic, initial terms, how we address climate mitigation and resilience of the built environment in the years and decades to come. The charter outlines a series of actions to be taken by the following stakeholders:

- **FIDIC itself.**
- **FIDIC member associations.**
- **Project teams and schemes.**
- **Companies.**
- **Individual professional engineers.**

As one of FIDIC's core principles, sustainability is an important element of FIDICs *2020-2024 Strategic Plan*. It is vital as an industry that we embed sustainability in our day-to-day delivery, lives, and operations and, if done at sufficient scale, it should be possible to normalise sustainable behaviours and make sustainable solutions the preferred way forward.

We have used the word 'charter' for this document to recognise its significance and the high-level nature of the commitments and aspirations that we hope the global consulting engineering community will see as bold, ambitious but achievable. This charter provides direction and guidance for our global consulting engineering profession to ensure the sector makes an ambitious and substantive difference on climate change. We think this charter can help unlock that ambition and energy and will have a serious, rapid and beneficial impact on the future of engineering and infrastructure more generally.



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FIDIC recognises that we need to manage our in-house climate performance.

More importantly, we need to lead the industry to reduce the enormous level of carbon emissions that are tied up in the buildings, infrastructure and projects for which consulting engineers provide services to clients across the built environment, globally. It is this primary category of emissions that we most profoundly seek to address through this charter, encouraging FIDIC member associations, companies, project teams and individual engineers alike, to make the difference they are capable of. This, however, is only part of the equation as carbon emissions that are created through the full lifecycle of construction, operation and decommissioning of the facilities, buildings, infrastructure and projects must also be considered in meeting the climate challenge.

This charter sets down the purpose, goals, opportunities and commitments for industry participants to address climate change as an existential challenge to the engineering profession. This charter also aims to show the principles by which our sector will help to mitigate climate change, improve resilience and help to lead the way forward.

FIDIC wants this charter to inspire the profession and its key stakeholders to become experts in carbon engineering, and the ways to mitigate and eliminate its impact upon our planet and consult our stakeholders in the building and infrastructure sector in the energy transition.

FIDIC wants to align the global FIDIC community around a number of concise, ambitious aspirations and commitments to mitigate climate change and put consulting engineers at the forefront of global innovation in technical and behavioural solutions.

We recognise that the charter is but a first step and it will be valued and interpreted in different ways by many institutions, companies and cultural contexts around the world. Nonetheless, we believe that a single point of reference at international level is urgent and necessary.

Engineering a significant reduction in carbon emissions and much greater resilience will require very different solutions dependent on geography, means, technology and workforce skills.

ACKNOWLEDGEMENT

This charter acknowledges the outcome, known as the Paris Agreement, of the 21st yearly session of the Conference of the Parties to the 1992 United Nations Framework Convention on Climate Change (UNFCCC) otherwise known as COP 21, held in Paris, France, from 30 November to 12 December 2015.

The Paris Agreement set out ambitions for pursuing a global temperature rise of just 1.5 degrees centigrade above pre-industrial levels, increasing climate adaptation ability and making financial flows consistent with low carbon and climate resilient development. Signatories to Paris agreed a nation-by-nation approach to climate change mitigation and adaptation, involving cycles of Intended Nationally Determined Contributions (INDCs).



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These INDCs form pledges of what individual nations will aim to achieve to meet the challenges of climate change and are reviewed at five yearly intervals to intensify their level of ambition. Notably, the Paris Agreement sets out to achieve a balance between the sources and sinks of greenhouse gas emissions in the second half of the 21st century. This is interpreted as reaching net zero emissions from 2050 onwards and in many different countries has been translated into national legally binding targets.

This FIDIC charter aligns with the Paris Agreement 2050 ambitions. It seeks to enable commitments and actions that will allow the global consulting engineering profession to take responsibility for enabling net zero carbon engineering solutions and enhancing the resilience of current and future engineering infrastructure to the unavoidable impacts of climate change.

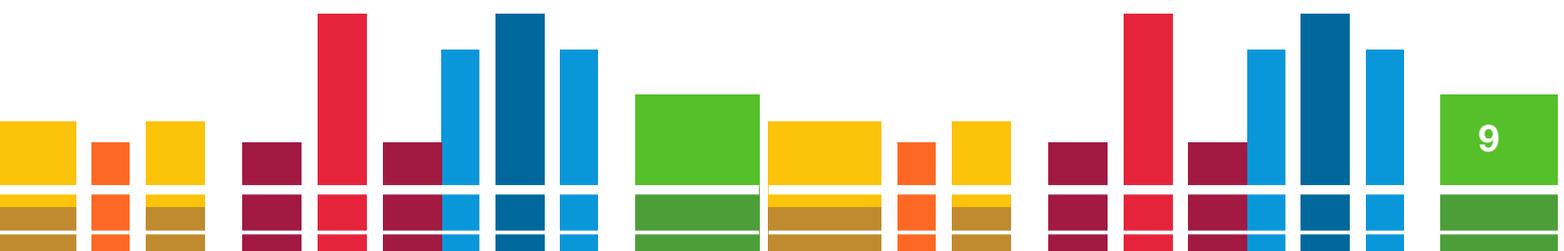
CHARTER COMMITMENTS AND MODALITIES

Engineering infrastructure is known for its longevity and durability and many engineering assets are built with a defined design life but without a fully defined lifespan, recognising that they may be utilised for generations to come and well beyond their design life. Choices made in design - from materials to the techniques deployed in engineering design - all affect the potential beneficial or detrimental effect in the context of carbon emissions and adaptability to climate change.

The engineering profession has been core to the development of global infrastructure and provided infrastructure solutions which incorporate engineering materials some of which have high embodied carbon emissions and in use may generate intense operational carbon emissions. There is little doubt that these emissions as with many other sectors all play their part in the climate challenge. This is a global problem, not just a single sector issue.

Engineers are in a unique position to change the impacts of construction, infrastructure and built environment emissions across energy, water, waste, transportation, housing and industry assets. There are opportunities to decarbonise existing assets and design future assets so that they are either net zero and climate resilient in operation or enabled for future net zero performance.

As individuals, projects, companies, investors, governments and professional institutions, FIDIC encourages engineers to develop their understanding of climate and carbon engineering and to take the lead to plan, design and develop infrastructure which will achieve or be enabled to achieve net zero performance.



FIDIC CLIMATE CHANGE CHARTER

STRUCTURE

This charter addresses the responsibilities of the participants in our industry and provides guidance on commitments and responsibilities that can be taken by individuals, projects, companies, and institutions, including FIDIC.

We begin by looking at FIDIC and its member associations. It has become clear that much more can be achieved by aligning their commitments and goals to engage in the climate agenda.

Companies play a vital role in leading climate change mitigation and some have already made commitments but there are many that have not yet done so. It is vital that FIDIC and its member associations lead by example so that the sector can have a real and significant impact on mitigating and increasing the resilience of infrastructure and maintaining people's quality of life.

This also means recognising the power that individuals have in exercising the choices they make be it at work, on projects, at home or elsewhere.

The climate challenge is one that no section of society can ignore if we are to achieve a sustainable quality of life. This charter is a significant step for FIDIC and its global networks of member associations and their firms in taking on this challenge.



ACTIONS FOR FIDIC

As the global federation of consulting engineers, FIDIC sees it as important to take a leadership position on climate action and carbon emission reduction. There are three primary elements of the challenge which FIDIC will seek to address:

- **Influence and advocacy.**
- **Building, infrastructure and industrial facilities delivery.**
- **FIDIC's operations.**

We will address these both regarding FIDIC's own operations, facilities, and activities, but also through the internationally recognised business, technical and contractual guidance that FIDIC provides to the engineering profession and infrastructure development and financing institutions.

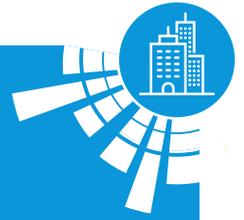
INFLUENCE AND ADVOCACY

FIDIC will:

- **Continue to advocate** for the UN SDGs, sustainable development and climate change mitigation.
- **Commit to keep** this charter under regular review.
- **Encourage and support** consulting engineers to adopt best practice in all relevant areas.
- **Develop and provide advocacy** guidance support for member associations to use in country.
- **Engage with the industry** to identify issues for business and work with global partners to address them.
- Use its various advocacy platforms to **inform society** and industry on the engineering view of the carbon reduction challenges.
- Cooperation with Multilateral development organisations for **developing programmes and initiatives** for NetZero/ Carbon Emission in the infrastructure industry.
- Engage with the World Federation of Engineering Organisations and the university sector to **identify the research needed and the skills required** of graduates to be trained at university.
- **Develop materials** which member associations can use to influence their national direction and industry.



ACTIONS FOR FIDIC

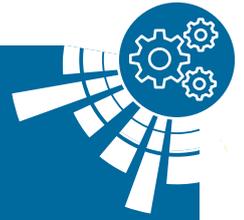


BUILDINGS, INFRASTRUCTURE AND INDUSTRIAL FACILITIES

FIDIC will:

- Task its Sustainable Development Committee to **develop dedicated climate action** and carbon reduction guidance and resources for governments, clients and financial institutions:
 - Procurement of **low carbon** buildings and infrastructure.
 - Project objectives appropriate to **carbon emission reduction**.
 - Risk allocation models which seek to support carbon reduction with **focussed innovation**.
- **Develop dedicated climate action and carbon reduction guidance** and resources for professional engineers, with a view to sharing:
 - Approaches to **achieving net zero** in infrastructure.
 - **Reduction** of embodied and operational carbon.
 - Infrastructure asset adaptation and component resilience to **address climate change**.
 - Techniques, technologies and nature-based **solutions**.
 - **Best practice** as it develops.
- **Explore** how FIDIC could best enable:
 - **Achievement of carbon reduction**, resilience and ESG objectives alongside its flagship global standard contract suite.
 - Provide **best practice templates** and clauses that can be incorporated at the scheme, project, and programme level.
- **Develop an approach** to training and training resources and sector-specific climate action for consulting engineers. These could cover aspects such as decarbonisation of operational assets, net zero enabled design of new assets and integration of nature-based solutions and resilience into the delivery and performance of engineering infrastructure.
- **Recognise the very different impacts of climate change** on countries and the divergent means to respond and commits to developing guidance and resources on decarbonisation and climate resilience that is technology appropriate and tailored to varying regional climate change patterns and socio-economic realities.
- **Issue supplementary guidance** in the coming months and years to address such diverse topics as low carbon materials and nature-based solutions to carbon sequestration and resilience.
- **Review the FIDIC awards programme** with a view to celebrating those projects that best address climate change through carbon reduction, adaptation and resilience.

ACTIONS FOR FIDIC



OPERATIONS, FACILITIES, AND ACTIVITIES

FIDIC commits to:

- **Taking a science-based approach** to reducing its carbon and other greenhouse gas emissions in line with guidance from the Greenhouse Gas Protocol working towards a net zero / 1.5 degrees centigrade of warming trajectory for Scopes 1 and 2 and covering Scope 3 as relating specifically to business travel and commuting emissions.
- **Developing a climate action plan** to cover clean energy and decarbonisation across its operations, facilities, and activities.
- **Contribute to climate neutrality** through best-in-class projects support that offset its residual operational emissions after decarbonisation efforts from 2023.
- **Annual reporting** on implementation of its **climate action plan** including details of its Scope 1, 2 and selected Scope 3 emissions reductions from 2023 in line with its science-based approach and aspiring towards the **ISO 14064-1 standard**.

ACTIONS FOR FIDIC MEMBER ASSOCIATIONS



FIDIC's member associations are encouraged to commit to a similar or enhanced regime of climate action as set out above for FIDIC, including:

- **Advocate for the UN SDGs**, sustainable development and climate change mitigation.
- **Encourage consulting engineers** to adopt best practice in the areas of climate change, demand reduction, carbon emission reduction and infrastructure adaptation and resilience.
- **Develop policy and advocacy documents** to address climate change in their country and for their industry.
- **Contribute** to government and industry policy discussion and debate.
- **Promote dedicated FIDIC climate action resources** for professional engineers, documenting approaches to achieving net zero in infrastructure (embodied and operational carbon) and climate adaptation (asset and component resilience to unavoidable climate change).
- Develop country-relevant guidance on **climate-relevant engineering**, taking account of:
 - o National energy mix and projected transition to **clean, low carbon energy**.
 - o Country-specific climate vulnerabilities **as set out in the relevant NDC / National Climate Action Plan**.
 - o **Reginal/local cultural and economic** circumstances.
 - o **Infrastructure demand**.
- **Advocate the use of FIDIC** and other relevant training resources and sector-specific climate action guidance.
- Collaborate with universities to **improve the capability and expertise of graduate engineers** and offer post-graduate courses for practising engineers focused on net zero solutions, resilience and carbon literacy.
- **Review the member association's awards programmes** with a view to celebrating those projects that best address climate change through carbon reduction, adaptation and resilience.

Member associations are encouraged to consider developing a country-specific route map for their national engineering community, addressing the priority sectors for application of climate-responsible solutions and setting out a series of milestones for achieving net zero emissions and climate resilient infrastructure networks.

ACTIONS FOR PROJECT TEAMS AND SCHEMES



Our engineering design, advisory and project teams have the most significant opportunity to make contributions to carbon reduction and to mitigate climate change through the projects and schemes they enable through planning and engineering design and those they deliver through build-out, finance and operations.

Bringing carbon emissions under management and reporting on progress at the project-level is intrinsic to climate-responsible engineering. To be successful on climate change action requires close collaboration with all partners, fellow consultants, employees, contractors and clients.

Project teams are encouraged to collaborate to develop their commitment to climate action as suggested by FIDIC, taking into consideration the geographic location and business environment, scale and available resources including:

- **Include appropriate expertise** in project teams to address climate change challenges.
- Provide advice to clients which **promotes carbon reduction objectives** for their project.
- **Assess and advise clients** on risks associated with carbon emissions and their impact on climate change.
- Assess and advise clients on risks associated with climate change impact on building and **infrastructure vulnerability and resilience**.
- Establish appropriate metrics to monitor and report embodied energy and carbon emissions through the **design, construction and operation of infrastructure**.



CULTURE

FIDIC recognises that companies have very different levels of expertise and capacities to address and impact climate change but asks all firms to aspire to taking actions which will reduce carbon emissions and improve the resilience of buildings and infrastructure.

Engineering and consulting companies are encouraged and invited to consider making the following commitments across their business, taking into consideration their capacity, scale and resources and local business environment:

- **Develop and promulgate policies** and corporate objectives which promote a climate responsible approach to business and projects.
- Create a culture that **encourages the development of net zero** and resilient engineering solutions.
- Where realistically possible, **support employees** to work on projects that align with their professional preferences and desire for eliminating climate harm.
- Create mechanisms that encourage employees to contribute and / or work on solutions that help to **mitigate climate change**.
- Develop a programme to develop its engineers' climate skills, supporting their competence in **carbon literacy**.
- Develop a team of climate change champions who may be accredited with a company-level '**Net Zero Practitioner**' qualification or similar to act as a resource to help implement the company's climate strategy and rolling out climate relevant training.
- **Invest in the tools and platforms** to help employees to calculate the carbon load of their designs to assist in development of efficiencies and options to further reduce the carbon load of infrastructure, while integrating low carbon and resilient technology solutions.
- **Assign a climate champion** to every major project or scheme, from brief, scope, and feasible options through to completion.
- **Resource its project teams** to assess and report the total carbon load of every project design or scheme created in the business
- Work to lower the total carbon load against the baseline metrics year or year. This entails developing a company-level or applying an **off-the-shelf carbon calculator** for the project design and operations and deploying that carbon calculator on every project, to develop aggregated carbon loading figures across the projects the company works on.
- Design all new schemes and projects to be **net zero emissions or net zero emissions enabled** and supporting the incorporation of nature-based solutions and the adaptation of assets and processes to the consequences of climate change, building in resilience.
- Incorporate the latest developments in **renewable and decentralised energy** to power assets and infrastructure components required to fulfil the scheme or project.



OPERATIONS

We look first at how a company might deliver on their commitments and on their associated practices and objectives.

- The company commits to developing a science-based approach to decarbonising their operations and supply chain in line with the **Greenhouse Gas Protocol** and/or aspire to the **ISO 14064-1 standard** (Greenhouse gases — Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals).
- The company develops a **net zero and climate adaptation strategy** to address carbon emissions and resilience to unavoidable climate impacts across its business operations, offices and facilities and into its value chain.
- The company works with energy utilities and through **power purchase agreements** to switch operational energy consumption to renewable or clean energy sources where available.
- The company works to convert its fleet vehicles to electric power, provided charging infrastructure is available and **powered by renewable or low-carbon energy**
- The company reports annually on its **GHG emissions and adaptation actions** in line with a globally recognised framework or standard, for example, TCFD and SABS, and makes this information publicly available on its website.
- If the company adopts a **science-based net zero approach to climate action**, then it will need to neutralise residual emissions after decarbonisation through best-in-class offsets.

ACTIONS FOR INDIVIDUAL PROFESSIONAL ENGINEERS



FIDIC recognises that individual professional engineers have very different levels of expertise, capacities and different working environments. Individuals aspire to taking actions and contribute to reduction of carbon emissions and deliver resilient and sustainable buildings and infrastructure, globally.

The individual professional engineer is invited to consider making the following commitments, objectives and goals:

- **Audit personal behaviours and thinking** on climate change and consider how an individual can make a positive contribution to action on climate as an individual or project team member.
- Commit to **expanding an individual's knowledge** on climate science and innovative engineering solutions that can mitigate climate change and make assets more adaptable and resilient.
- Know the **total carbon load of every design an individual creates** or project they work on and strive to lower that figure, year-on-year.
- **Be an advocate for net zero** and resilient infrastructure solutions in the workplace, with team members and across the projects an individual is involved in, develop training materials or guidance where possible
- For any brief coming in from an individual's employer or client, scrutinise it for opportunities to add low carbon climate solutions and **set out a net zero pathway** (even when one has not been requested).
- **Work to integrate climate considerations** into project processes, services, and solutions that an individual and their colleagues provide. Considering:
 - o Can operational energy requirements be **minimised**?
 - o Can opportunities be created for **sourcing renewable energy**?
 - o **Can the embodied carbon in the asset be reduced** (the carbon needed to extract, fabricate, transport and construct, including options for deconstruction and reuse)?
 - o How climate events might impact **future performance and continuity of service** over the life of the asset and build in further resilience?
 - o Whether the creation or delivery of the asset might **impact the level of climate risks** for others?
 - o Can natural system functions be built into the asset to deliver a service function or lock in carbon, creating a **carbon sink** as part of the engineering solution?
 - o Is there a **different solution** that should be considered, that addresses these considerations in a more beneficial manner?

ABOUT FIDIC

FIDIC, the International Federation of Consulting Engineers, is the global representative body for national associations of consulting engineers and represents over one million engineering professionals and 40,000 firms in more than 100 countries worldwide.

Founded in 1913, FIDIC is charged with promoting and implementing the consulting engineering industry's strategic goals on behalf of its member associations and to disseminate information and resources of interest to its members. Today, FIDIC membership covers over 100 countries of the world.

FIDIC Member Associations operate in over 100 countries with a combined population in excess of 6.5bn people and a combined GDP in excess of \$30tn. The global industry including construction is estimated to be worth over \$22tn this means that FIDIC member associations across the various countries are an industry are worth over \$8.5tn.



ACKNOWLEDGEMENT AND CONSULTEES OF THE CLIMATE CHANGE CHARTER

We would like to give special acknowledgement to the FIDIC Sustainability Development Committee, Task Group who championed the development of the Climate Change Charter under the collective leadership of Tracey Ryan- Aurecon NZ, Robert Spencer - Aecom UK, Natalie Muir -Cardno Australia and Stephanie Groen Aurecon Singapore, and supported by the FIDIC president's team made up of Gavin English, Mark Pehlig, Dr Nelson Ogunshakin and Graham Pontin.

Finally, and by no means least, FIDIC is a product of those that engage in its activities. As part of the development of this charter FIDIC consulted its board members, a sample of member associations, committee chairs and vice chairs, regional chairs and a sample of regional companies.

In recognition of the importance of transparency, below we recognise those approached who had the opportunity to respond on the development of this charter.

FIDIC MEMBER ASSOCIATIONS

- Henrik Garver, CEO, Foreningen af Rådgivende Ingeniører, Denmark
- Pierre Verzat, Chief Executive Systra, President, SYNTEC Ingénierie, France
- Robin S Greenleaf, Chair of ACEC-USA, President, Architectural Engineers Inc, USA
- George Okoroma, President, ACEN, Nigeria
- Olga Senyuk, DNSAC member, AECU, Ukraine

FIDIC COMMITTEE AND COUNCIL CHAIRS AND VICE CHAIRS

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- Andrew Read, Business Practice Committee Chair, Pedersen Read Ltd, New Zealand
- Enni Moeliati Soetanto, Membership Committee Chair, PT. Mott MacDonald Indonesia
- Husni Madi, Contract Committee Vice Chair, Shura Construction Management, Jordan
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- Stephane Giraud, CBC (Capacity Building Committee) Chair, Plan J Consulting , France
- John Gamble, DNSAC member, President ACEC, Canada
- Juan Carlos Sierra, President of CNEC, FIDIC North America, Mexico
- Kiri Parr, Contract Committee Vice Chair, Kiri Parr Ltd , Australia
- Edmond Mirzakhanian, DNSAC member, ISCE, Iran



ACKNOWLEDGEMENT AND CONSULTEES OF THE CLIMATE CHANGE CHARTER

FIDIC REGIONAL PRESIDENT AND CHAIRS

- Henrique De Aragão, President, FEPAC, Peru
- Benoit Clocheret, Chief Executive, Artelia, President, FIDIC Europe, France
- Kabelo Motswagole, President, FIDIC Africa, Botswana
- Linda Bauer Darr, President & CEO of ACEC, FIDIC North America, USA
- Sudhir Dhawan, President, FIDIC Asia Pacific, India

REGIONAL COMPANIES AND STAKEHOLDERS

- José M. Aparicio, Senior Executive Vice President, Siemens, Mexico
- Peter Oosterveer, Chief Executive, Arcadis NV, Netherlands
- Anthony Bouchard, President and Chief Operating Officer, CDM Smith Inc., USA
- Carol Lemmens, Director, Arup, Netherlands
- Fidel Saenz de Ormijana, Chief Technical Officer, Ferrovial, Spain
- Gavin English, Managing Director, IMC Worldwide Ltd, UK
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- Michael Haigh, Chairman, Mott MacDonald Group, UK
- Moncef Ziani, Executive Manager, CID, Morocco
- Ryuichi Arimoto, President, Nippon Koei.Co., Ltd., Japan
- Susan Reisbord, Chief Executive, Cardno, USA
- Tian Feng, General Manager / FCCE trainer, CHELBI , China
- William Cox, Chief Executive, Aurecon, Australia
- Yoshi Yamashita, DNSAC member, ECFJA, Japan
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Finally, but by no means least, FIDIC is a product of its member associations without which FIDIC would not exist. All member associations can be found on the FIDIC website, we continue to engage with FIDIC member associations on the detail of our work and we would like to thank all FIDIC associations of listed below:





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