

# 40 STEPS TOWARDS YOUR NET ZERO



# WHO IS THIS GUIDE FOR?

## INTRODUCTION

The world has witnessed many devastating climate events in recent years, and organizations are increasingly aware of the serious risks posed by a changing climate. However, developing a robust sustainability strategy and roadmap to net zero can be daunting.

This guidebook from Enova aims to simplify the process and help organizations take the first steps towards this essential goal.

## WHO CAN BENEFIT

- Major Organizations who has just announced the commitment
- Small and Medium enterprises (SMEs)
- Non-profit organizations
- Local Governments and Municipalities
- Construction and real-estate groups
- Healthcare and Medical facilities
- Educational Institutions
- Industrial Organizations and groups
- Industry associations

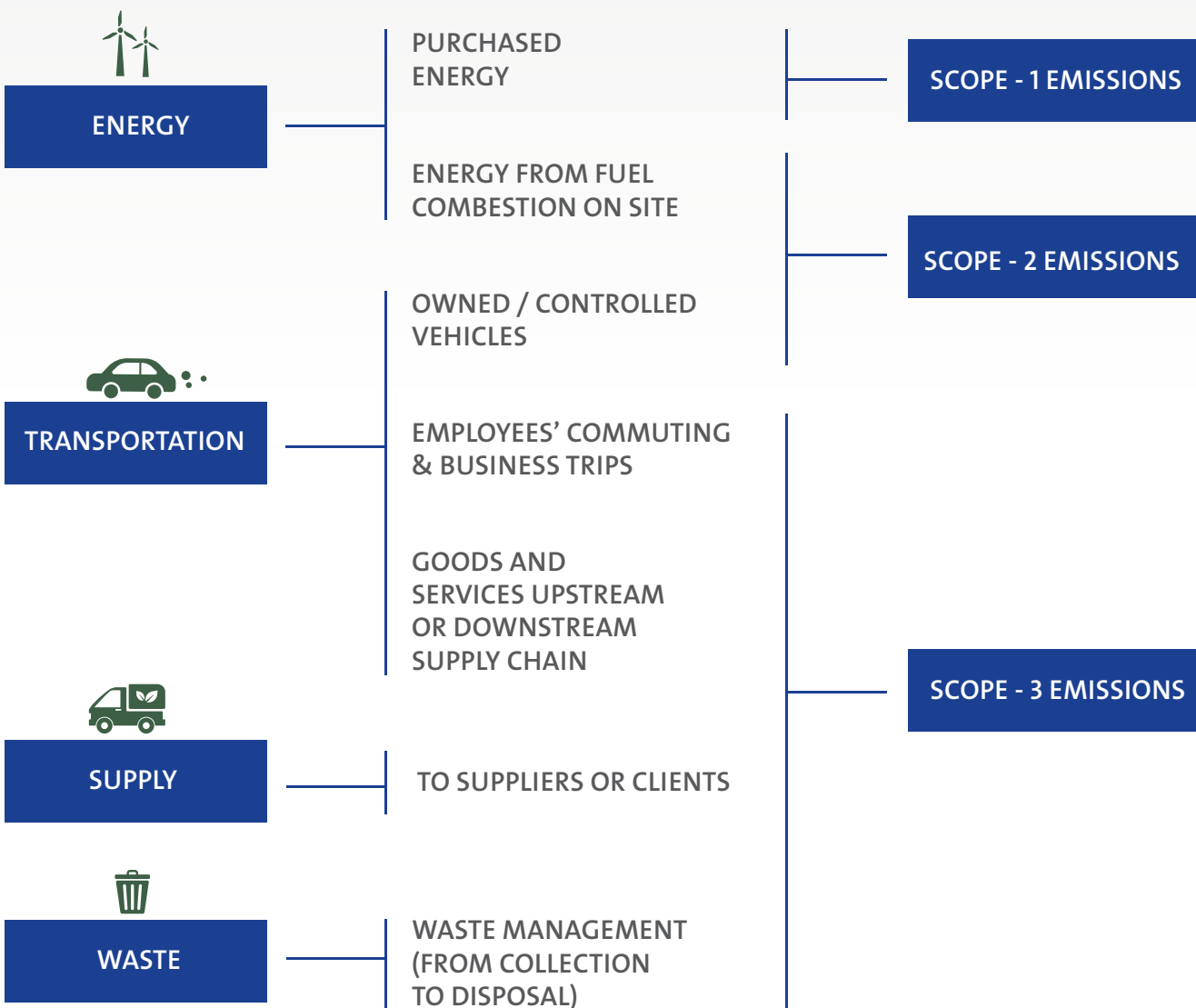


# WHAT IS NET ZERO?


## INTRODUCTION


In simple terms, achieving NET ZERO is the objective of significantly reducing greenhouse gas emissions to zero, actively contributing to the global fight against climate change. An organization's operations generate three types of emissions from four key sources.


There are three types of emissions resulting from four key sources associated to an organization's operations





# KEY CHALLENGES TO ACHIEVING NET ZERO


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**1** Complexity of Carbon Accounting
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**2** Lack of Awareness & Expertise in Sustainability Strategies
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**3** Costs and Resources Constraints
- 


**4** Data Collection and Management
- 

**5** Maintaining Long Term Commitment to Net Zero Goals
- 

**6** Managing the complexity of the supply chain
- 

**7** Integrating Net zero and sustainability goals to Business Strategy
- 

**8** Stakeholders' engagement and building support around Net Zero Initiatives
- 

**9** Regulatory and Reporting Compliance
- 

**10** Technology and Infrastructure Upgrades



# STEPS TOWARDS NET ZERO



## SET CLEAR GOALS AND COMMITMENTS STEPS 1-8

- Establish commitment & supporting organizational function
- Define a Clear Scope & Boundary
- Baseline Assessment
- Goal Setting
- Strategy Development



## CUT YOUR EMISSIONS STEPS 9-16

- Energy
- Transportation
- Supply Chain
- Waste



## EMPLOYEE ENGAGEMENT STEPS 17-26

- Educate & involve your employees
- Create a culture of sustainability
- Recognize and reward sustainable efforts



## CARBON OFFSETTING STEPS 27-33

- Invest in carbon offset projects
- Calculate remaining emissions
- Purchase carbon credits



## MONITOR, REPORT, ADAPT & IMPROVE STEPS 34-40

- Regular monitoring of emissions
- Reporting progress
- Adapt and Improve
- Celebrate your achievement and Lead others through the process





# SET CLEAR GOALS AND COMMITMENTS

## STEPS

- 01** Establish a dedicated sustainability or climate action team responsible for developing and executing the roadmap.
- 02** Appoint a Chief Sustainability Officer (CSO) or Sustainability Manager to lead the efforts and ensure that sustainability is represented at the organization's Board level.
- 03** Define a clear scope and boundaries for your emissions assessment. Determine what is included within your organization's boundaries and what might be excluded (e.g., emissions from leased assets or employee commuting).
- 04** Conduct a thorough greenhouse gas (GHG) emissions inventory to understand your organization's current carbon footprint. Identify emission sources, including both direct (Scope 1) and indirect (Scope 2 and 3) sources.
- 05** Establish a baseline year for emissions data and engage a third-party auditor to ensure transparency and credibility.
- 06** Define clear, science-based, and ambitious net-zero emissions targets that align with the Paris Agreement. Subsequently, establish interim reduction goals to provide short-term focus and track progress toward the net-zero target. To set these goals, performing climate scenario modeling is essential to ensure alignment with the Paris Agreement, and a cost-benefit analysis is necessary to assess feasibility.
- 07** Communicate your commitment and goals to build trust and garner support for your net-zero journey. Utilize an appropriate disclosure framework such as GRI or CDP for effective communication.
- 08** Develop a comprehensive sustainability strategy that outlines how the organization will achieve net-zero emissions and prioritizes emission reduction actions based on their impact and feasibility.



# SET CLEAR GOALS AND COMMITMENTS

## STANDARDS & REFERENCES

- Greenhouse Gas Protocol (GHG Protocol)
- ISO 14064
- Science-Based Targets (SBTs)
- The Net Zero Initiative, launched by (UNFCCC)
- Global Reporting Initiative (GRI)
- Carbon Disclosure Project (CDP)

## USEFUL TOOLS & ANALYSES

- Greenhouse Gas Protocol (GHG Protocol)
- ISO 14064
- SMART Goals Framework
- Climate scenario modeling tools like DICE or AIM
- Cost-benefit analysis tools like @RISK
- Sustainability impact assessment tools (e.g. TrueCost or SimaPro)
- Project management software (e.g. Asana or Microsoft Project)



# CUT YOUR EMISSIONS

## STEPS



### ENERGY



### SUPPLY CHAIN

- 09** Conduct comprehensive energy audits to identify areas where efficiency improvements can be made
- 10** Invest in energy efficiency measures to reduce energy consumption (Scope 1 and 2)
- 11** Transition to renewable energy sources for all operations (Scope 2 emissions)

- 13** Set sustainability criteria for supplier selection and procurement decisions (Sustainable Sourcing)
- 14** Encourage suppliers to disclose their emissions data and set reduction targets.
- 15** Collaborate with suppliers to reduce the carbon footprint of the supply chain (Scope 3 emissions) through workshops, reviews, and innovative approaches



### TRANSPORTATION



### WASTE

- 12** Optimize emissions associated with your transportation through the following:
  - encouraging employees on using **alternative commuting** options
  - Transition organization's **vehicles to electric or hybrid options**
  - Work with suppliers and logistics partners to **optimize routes and modes of transport**

- 16** Optimize waste production through the following:
  - **Conduct waste audits** to identify areas where waste reduction can be achieved
  - **Implement waste reduction and recycling** programs tailored to your organization's needs
  - **Minimize the use of single-use plastics** within your organization
  - **Embrace the principles of the circular economy**, which focus on designing products for longevity, reparability, and recyclability

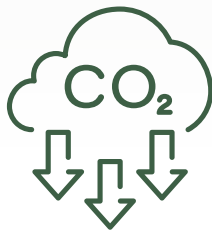




# CUT YOUR EMISSIONS

## STANDARDS & REFERENCES

- ISO 50001: Energy Management System
- ASHRAE Energy Auditing in commercial buildings
- International Performance & Verification Protocol (IPMVP)
- ISO 14064-3
- ISO 20400: for sustainable procurement
- ISO 14001 environmental management systems



## USEFUL TOOLS & ANALYSES

- Energy Management Software (e.g. Schneider Electric EcoStruxure, Hubgrade by Veolia)
- Energy Efficiency Audits and Modelling (e.g. Homer and RETScreen)
- Transportation Survey (using tools like SurveyMonkey)
- Supply chain mapping and analysis tools to identify high-impact suppliers (e.g. Sourcemap)
- Supplier assessment and scorecarding tools to evaluate supplier sustainability performance. (e.g. EcoVadis or Sedex)
- Waste Generation Estimation Tools (WAGET) and Integrated Waste Management Model (IWMM)



# ENHANCE YOUR EMPLOYEES ENGAGEMENT

## STEPS

- 17** Launch awareness campaigns to educate employees about the importance of carbon reduction and the role they play in achieving net zero.
- 18** Develop educational programs and training to equip employees with the knowledge and skills to contribute to emissions reduction.
- 19** Encourage sustainable behaviors among employees, such as reducing energy consumption, minimizing waste, and choosing eco-friendly commuting options.
- 20** Ensure that leadership demonstrates a strong commitment to sustainability, leading by example and championing sustainable practices.
- 21** Establish cross-functional green teams within the organization to drive internal sustainability initiatives and engage employees at all levels.
- 22** Create platforms for employees to share ideas and initiatives related to sustainability. Encourage them to suggest and implement improvements.
- 23** Establish feedback mechanisms that allow employees to share their sustainability related Opinions and concerns. Use this feedback to refine your sustainability strategies.
- 24** Implement awards or recognition programs for employees who make outstanding contributions to carbon reduction or sustainability.
- 25** Offer incentives, such as bonuses or additional time off, to employees who consistently engage in sustainable practices.
- 26** Celebrate sustainability achievements publicly, both within your organization and externally. This can enhance your organization's reputation as a sustainability leader.



# ENHANCE YOUR EMPLOYEES ENGAGEMENT

## STANDARDS & REFERENCES

- ISO 26000 provides guidance on social responsibility, including engaging with employees and stakeholders



## USEFUL TOOLS & ANALYSES

- Employee engagement surveys to assess awareness and attitudes toward sustainability (SurveyMonkey)
- Gamification and rewards platforms to incentivize sustainable behaviors. (e.g. Bunchball or HubEngage)
- Learning management systems (LMS) for sustainability training and education (e.g. LinkedIn Learning Moodle or Cornerstone OnDemand)
- Employee recognition and reward systems for celebrating individual and team contributions (e.g. Bonusly or Blueboard)
- Stakeholder engagement platforms for two-way communication and collaboration (e.g. Borealis or StakeTracker)



# CARBON OFFSETTING

## STEPS

- 27** Your Carbon offsetting strategy should address emissions that cannot be eliminated through internal reduction efforts, and should take into consideration the investments associated to this process.
- 28** Calculate the emissions that remain after implementing your emissions reduction strategies (aka. residual emissions).
- 29** There are many offsetting projects options such as renewable energy installations, reforestation and afforestation, and methane capture. Select the project types that aligns with your organization values and goals.
- 30** Ensure the offsets from selected projects are verifiable, additional and contribute to other sustainable development goals.
- 31** Verify the legitimacy of projects by ensuring they meet recognized standards and certifications (e.g, Verified Carbon Standard (VCS), Gold standard (GS) or Climate Action Reserve (CAR)).
- 32** Explore carbon offset marketplaces or registries to find suitable projects and credits.
- 33** Only buy carbon credits from reputable sources that have undergone third-party verification.





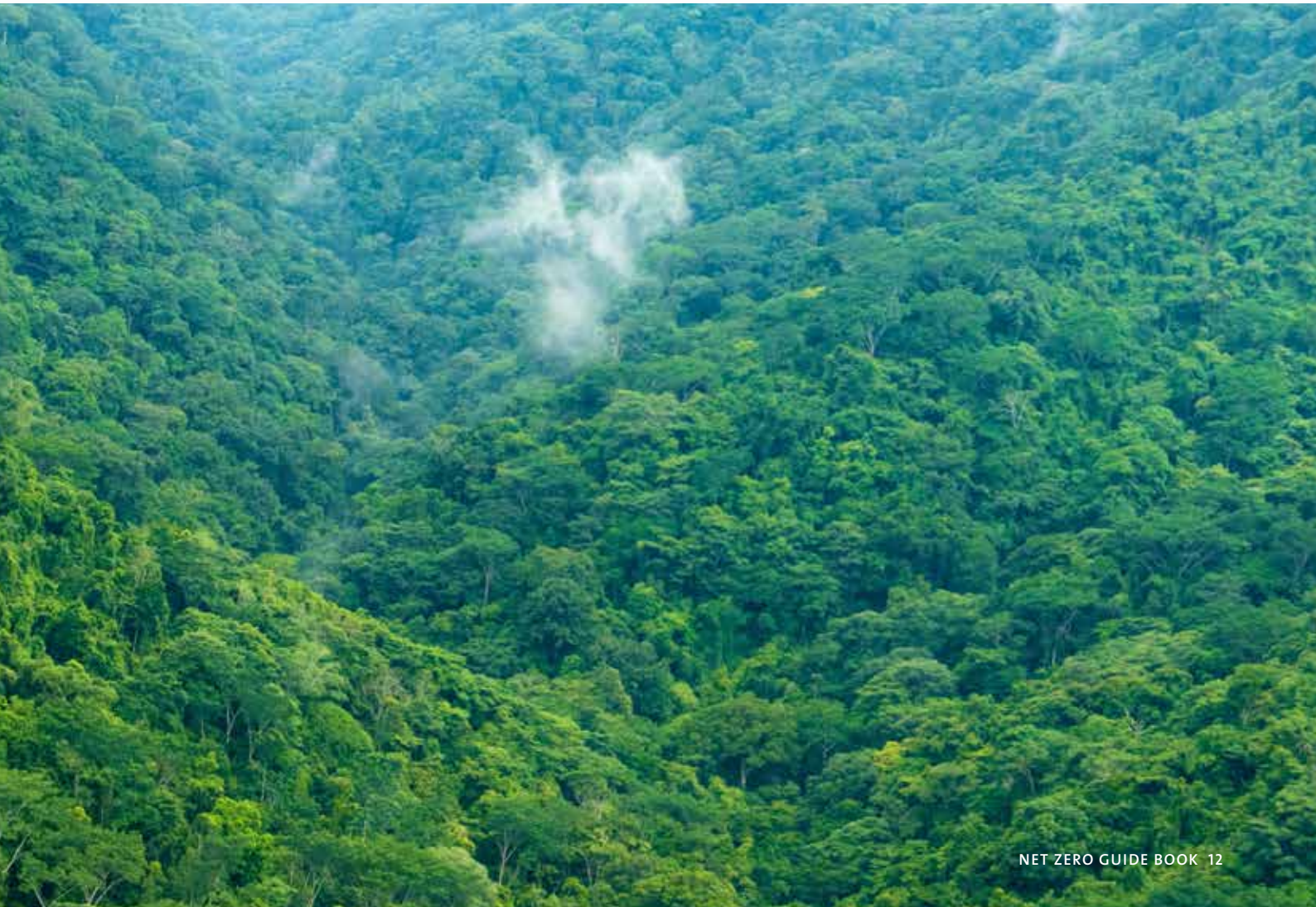
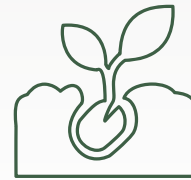
# CARBON OFFSETTING

## STANDARDS & REFERENCES

- **Verified Carbon Standard (VCS):** The VCS ensures that carbon offset projects meet rigorous criteria for additionality, verifiability, and environmental integrity. Choosing VCS-certified projects enhances the credibility of your offsetting efforts.
- **Gold Standard:** This standard emphasizes additional sustainable development benefits, such as social and environmental co-benefits. It's particularly suitable for projects with broader impacts beyond carbon reduction.

## USEFUL TOOLS & ANALYSES

- Carbon offset market platforms to identify and purchase high-quality offsets. - Gold Standard or Verra's Registry.
- Social and environmental impact assessments of offset projects



# MONITOR, REPORT, ADAPT & IMPROVE

## STEPS

- 34** Implement a robust monitoring and reporting system to track progress towards emissions reduction goals.
- Establish a regular routine to collect data on emissions sources, energy consumption, and other relevant metrics to cover all scopes, including Scopes 1, 2, and 3 emissions.
  - Consider implementing automated monitoring systems and software that can provide real-time data and alerts. Conduct periodic audits to verify data accuracy and identify any discrepancies or areas needing improvement.
  - Publish annual sustainability reports that detail your organization's progress toward net zero. Include key performance indicators, emissions reductions achieved, and an challenges faced.
  - Engage with stakeholders through regular communication channels, such as meetings, newsletters, or sustainability webinars. Share your successes and challenges openly.
  - Ensure that your reporting aligns with any regulatory requirements or industry standards. Compliance can enhance your organization's reputation.
- Use third-party verification to enhance credibility.
- 35** Use data and feedback to refine your strategies and make continuous improvements, this can include ad-hoc data analysis to benchmark and compare as well as identify trends and areas of further improvements, or activating feedback mechanisms from employees and other stakeholders
- 36** Allocate resources for research and development of innovative solutions and technologies to further reduce emissions.
- 37** Stay informed about emerging trends and breakthroughs in sustainability.
- 38** Advocate for supportive climate policies at the local, national, and international levels.
- 39** Engage with industry associations to promote sustainability and emissions reduction.
- 40** Position your organization as a leader in sustainability within your industry, setting an example for others to follow.





# MONITOR, REPORT, ADAPT & IMPROVE

## STANDARDS & REFERENCES

- Greenhouse Gas Protocol (GHG Protocol)
- ISO 14064
- Science-Based Targets (SBTs)
- The Net Zero Initiative, launched by (UNFCCC)
- Global Reporting Initiative (GRI)
- Carbon Disclosure Project (CDP)
- Recognized assurance standards, such as the International Standard on Assurance Engagements (ISAE) 3000



## USEFUL TOOLS & ANALYSES

- Sustainability performance dashboards for ongoing assessment and adjustment (e.g. Hubgrade by Veolia, Klipfolio or Geckoboard)
- Continuous improvement frameworks like the Plan-Do-Check-Act (PDCA) cycle
- Feedback collection tools to gather input from employees and stakeholders (e.g. SurveyMonkey or IdeaScale)
- Communication and branding tools (e.g. press releases, and marketing campaigns)
- Policy analysis tools to monitor and assess the impact of climate and sustainability regulations (e.g. Policy Reporter)
- Public affairs and advocacy management software for tracking and influencing policy developments (e.g. FiscalNote or Quorum)



## ABOUT US

At Enova, innovation is our driving force. Combining global expertise and cutting-edge technologies, we help elevate our clients' facilities with comprehensive and integrated sustainable solutions.

Enova was created in 2002 as a joint venture between Majid Al Futtaim and Veolia. As the regional leader in integrated energy and multi-technical services, Enova delivers comprehensive and performance-based energy and facilities management solutions to our clients, enabling them to achieve their financial, operational, and environmental targets.

### Our Services Include:

- Facilities Management
- Project Management for MEP & EPC
- Asset & Performance Management
- Digital & Technologies
- Energy Management
- Renewable Energy Services
- Sustainable Solutions
- Consultancy for Decarbonization







Sustaining your growth



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