

# Alliance for Industry Decarbonization



# Importance of Decarbonisation of end-use sectors



Less than a decade is left to achieve the **2030 Agenda** and secure a fighting chance for a **1.5-degree world**.



A **renewables-based energy transition** can be a **powerful equaliser** in a world where disparities and gaps between communities, nations and regions continue to widen.



A 1.5-degree world requires **wide-reaching actions across multiple dimensions** to maximise benefits and carefully manage adverse effects, including the private sector.



Industrial sector produces **about ¼ of global GDP** and emits up to **40% of GHG emissions**.

## Alliance Industry Decarbonization



## Towards Industry Net- Zero



Foster action for  
**decarbonization of industrial  
value chains**



Promote understanding of  
**renewables-based solutions**  
and their adoption by industry



Contribute to country-specific  
**net-zero goals**

**Join the Alliance! More info at <http://www.allianceforindustrydecarbonization.org/>**

# The membership in the Alliance offers several benefits, from sharing knowledge and best practices to supporting you implement your decarbonization strategy

## Benefits

- 1 Receive support to develop and implement your decarbonization strategy 
- 2 Effectively address current challenges on decarbonization through partnership 
- 3 Access knowledge, best practices, standards and insights into pilot projects 
- 4 Collaborate on joint initiatives in technology working groups on renewables, bioenergy & CCUS, green hydrogen and circularity n 
- 5 Improve skills and capacities by joining working group human capital 
- 6 Remove barriers and facilitate access to finance for your company decarbonization projects 
- 7 Engage in a dialog with governments and present your successes at COPs 

## Members

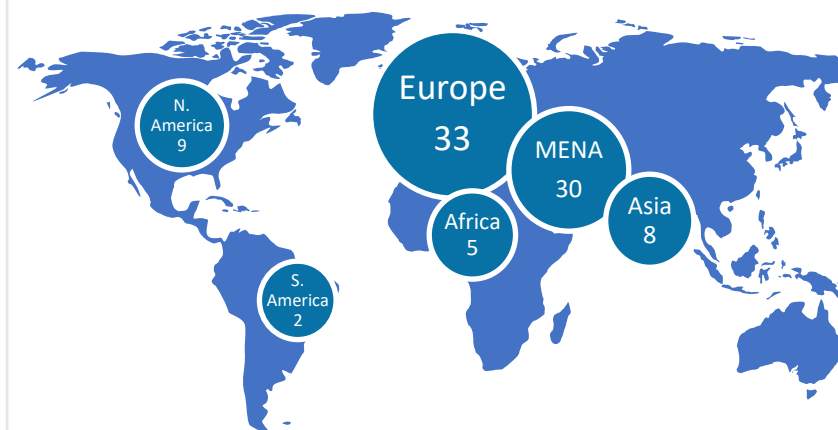


## Knowledge partners











## Member's distribution by region and sector

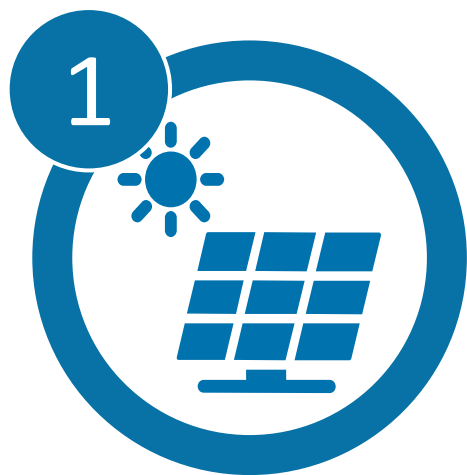
### Members by region



### Members by sector

	Energy	23
	Industry Services	28
	Steel/Aluminum	5
	Chemicals	2
	Mining	3
	Waste & Water	1
	Capital Goods	4
	Consumer goods and IT solutions	2
	Cross-sector Knowledge	17

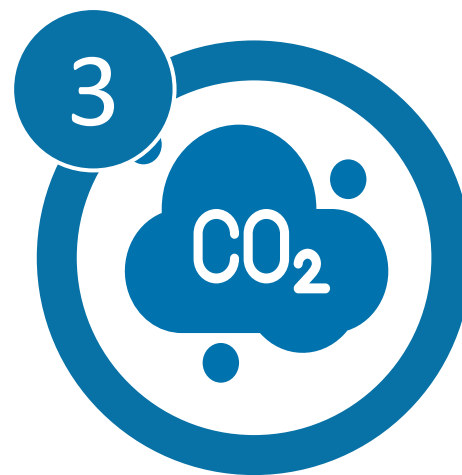
# 2nd CEO Roundtable adopted “Decarbonization Commitment” at COP28



Increasing  
**production/output** of -  
carbon-free energy, incl.  
Renewables and clean  
Hydrogen



Increasing  
**offtake/usage** of green  
energy



Reducing **scope 1 and  
scope 2** emissions  
directly<sup>1)</sup>. Engaging  
supply chain on  
reducing **scope 3**  
emissions



Increasing **investments**  
in decarbonization  
projects and energy  
transition technologies

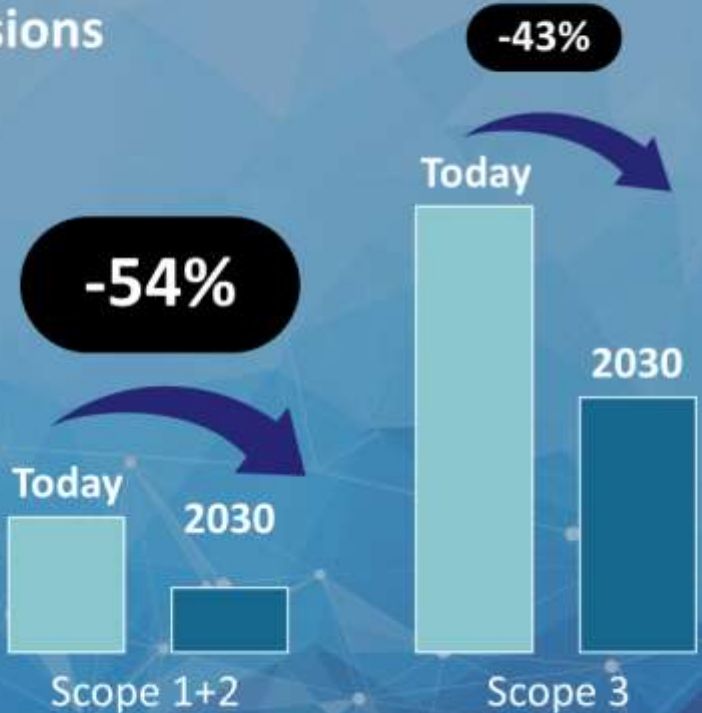
1) Through electrification, carbon removals, Energy efficiency and Heat Optimization and Storage



## AFID – Decarbonization Commitment by 2030



Reduce Scope 1 + 2  
Emissions



Increasing  
Renewables



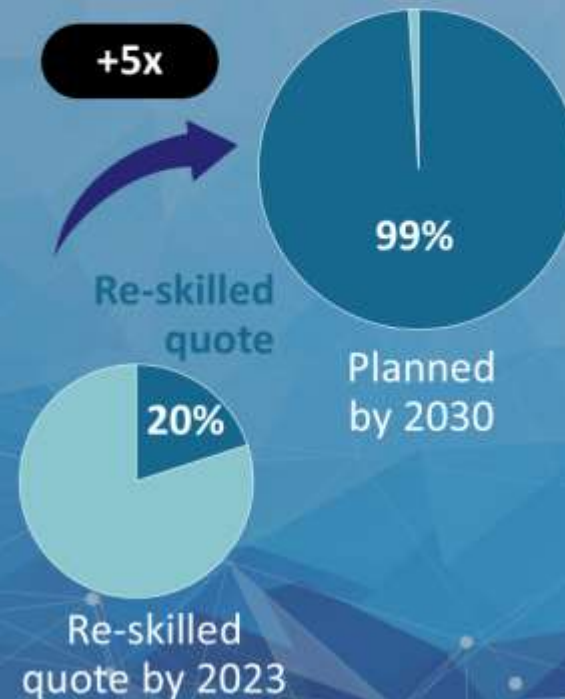
## AFID – Decarbonization Commitment by 2030



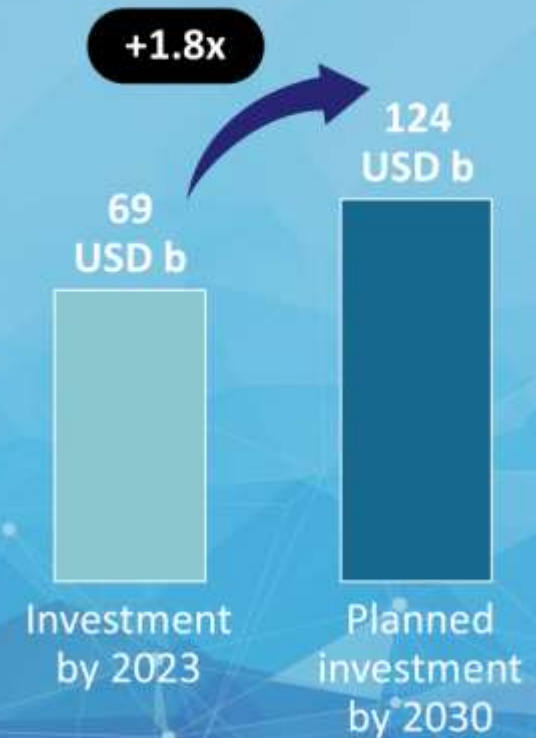
### Increasing Bioenergy with CCUS



### Re-skilling Human Capital



### Increasing Financing





## Technology



**Renewables**



**Bioenergy  
with CCUS**



**Green Hydrogen**

## Process



**Circularity**

## Enablers



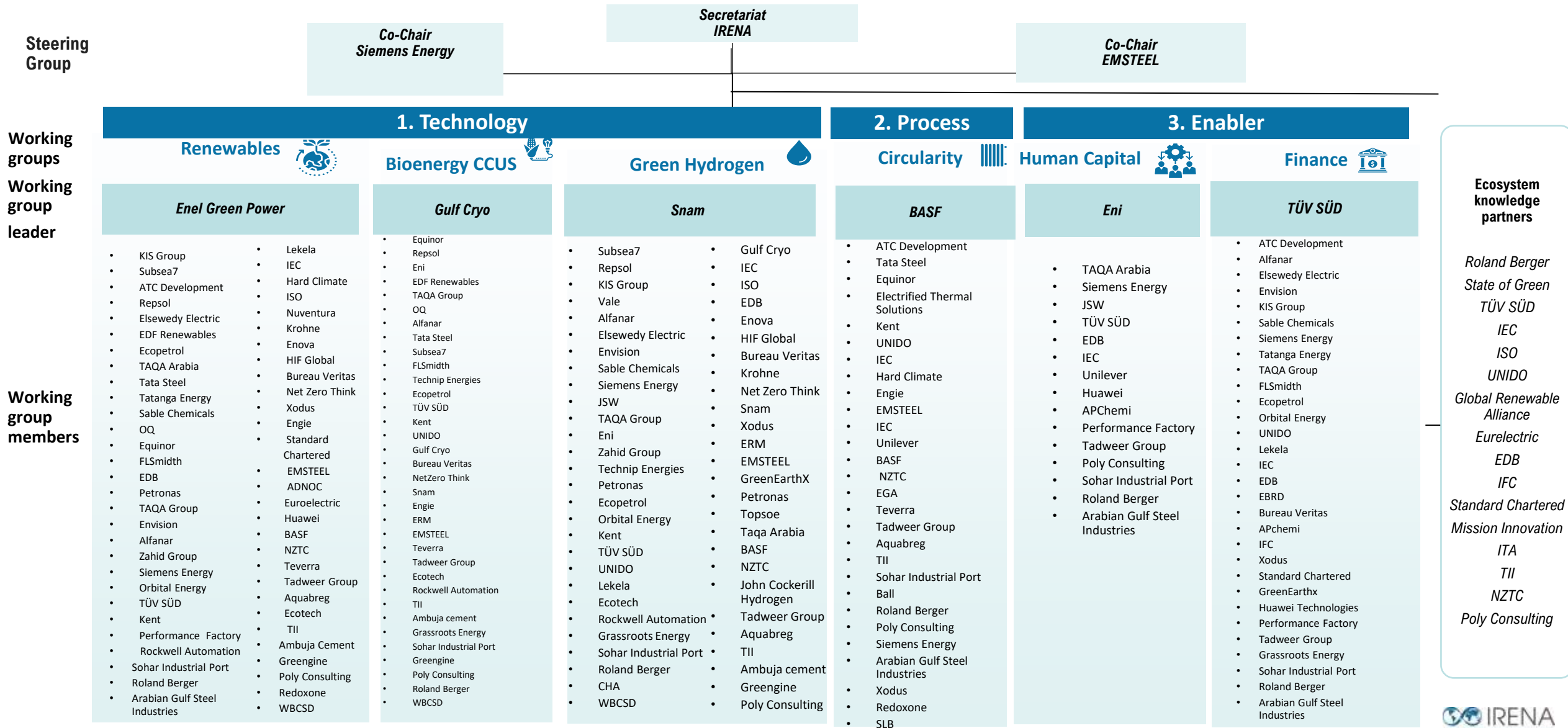
**Human Capital**



**Finance**

Through collective efforts of the industrial sector, the Alliance will accelerate the achievement of a net-zero future

# Structure of the Alliance





## AFID Enterprise Twinning Platform

An initiative dedicated to fostering strategic partnerships for industrial decarbonization

This platform connects AFID members with external organizations, enabling effective collaboration to accelerate the transition towards sustainable industrial practices. Access a comprehensive repository of detailed AFID member profiles, including geographical scope, organization type, sector specialization, and AFID working group affiliations. Utilize our advanced search engine to efficiently identify suitable partners aligned with your organization's objectives. Initiate collaboration by connecting directly with AFID members through this [link](#) and support global efforts in achieving industrial decarbonization.



Showing **85** Companies

Organisation name	Geography	Type of organisation	Sector	Cross-cutting AFID working group	Sustainability rep
<a href="#">African Transmission Corporation</a>	Africa	Industry Partner	Energy	Renewable Energy, Circularity, and Finance	
<a href="#">Tatanga Energy</a>	Africa	Industry Partner	Energy	Renewable Energy and Finance	
<a href="#">Sable Chemicals</a>	Africa	Industry Partner	Industry	Renewable Energy, Green Hydrogen and Finance	
<a href="#">Ambuja Cement</a>	Asia	Industry Partner	Cement	Renewable Energy, BECCUS, and Green Hydrogen	<a href="#">Sustainability Rep</a>
<a href="#">Orbital Energy</a>	Asia	Industry Partner	Energy	Renewable Energy, Green Hydrogen, and Finance	
<a href="#">Petrobras</a>	Asia	Industry Partner	Energy	Renewable Energy, and Green Hydrogen	<a href="#">Sustainability Rep</a>
<a href="#">JSW</a>	Asia	Industry Partner	Energy & Steel	BECCUS, Green Hydrogen, and Human Capital	<a href="#">Integrated Report</a>
<a href="#">Envision (digi)</a>	Asia	Industry Partner	Industry	Renewable Energy, Green Hydrogen, and Finance	<a href="#">Carbon Neutrality</a>
<a href="#">Greengine Environmental Technologies Private Limited</a>	Asia	Technology Provider	Industry	Renewable Energy, BECCUS	
<a href="#">Huawei</a>	Asia	Technology Provider	IT	Renewable Energy and Finance	<a href="#">Sustainability Add</a>

**Filter AFID member profiles**

Organisation name  
All

Geography  
All

Type of organisation  
All

Sector  
All

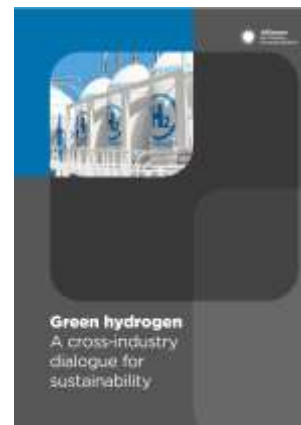
AFID working group

Renewable Energy    Circularity

Green Hydrogen    BECCUS

Human Capital    Finance

**AFID 2030 Joint Target**



Led by AFID & supported by NZTC and AFID members and knowledge partners

Source innovative decarbonization and net zero technologies, and showcase them to industry end users

Supports Operational and Regional GHG Emissions Reduction

## Timeline

### Phase 1 Source Technologies



Agree technology focus areas with IRENA (e.g. green hydrogen, BECCS)

Engage Alliance for Industrial Decarbonisation (AFID) group, asking for technologies in identified technology focus areas

Engage relevant NZTC TechX alumni (70 companies) and previous projects

March

### Phase 2 Secure Finalists



Agree ranked shortlist of 10 technologies with IRENA to engage and invite to Showcase Final

Engage shortlist of developers / innovators, inviting them to pitch their technology at the Showcase Final

Secure confirmation from top 5 developers / innovators they will attend and pitch at final in Bonn

April

### Phase 3 Final Prep



NZTC to coordinate developers' involvement in Showcase Final (developers' travel and subsistence cost not included in the pricing)

NZTC to utilise in-house TechX Accelerator team, for coaching webinars to ensure quality of final pitch

Pitches will outline why technology is innovative, and how it can help IRENA members to decarbonise

May

### Phase 4 Showcase Support



NZTC to provide briefing packs for developers, outlining the order of the event and timings, developer requirements on the day and final pitch tips

NZTC to attend and available for keynote / introductory speech. This would be considered an in-kind contribution from NZTC in addition to this scope

June



# AFID engagement with Policy Makers and Key Stakeholders throughout 2024



**A session on Accelerating Renewable Demand In Industries and Transport to Achieve the COP28 Tripling RE pledge, IRENA 28<sup>th</sup> Council**



**A session on Accelerated Partnerships for Renewables in Africa, APRA Investment Forum**



**Roundtable on Decarbonizing Hard-to-Abate Sectors with Renewables, NYC Climate Week**



**A session on Industry Driven Partnerships for Accelerated Energy Transition, IRENA 27<sup>th</sup> Council**



**A session on Exploring Innovative Financing Solutions to Tackle Commercial Barriers in Global Industrial Decarbonization, AIM Congress, ADNEC**



**The Industry Perspective on The Global Decarbonization of Industries, the World Future Energy Summit (WFES)**



**Fourteenth session of the IRENA Assembly: Alliance for Industry Decarbonization, IRENA Assembly Part II**



**CEO Dialog on Enhancing Commitment to Deep, Rapid and Sustained Emission Reductions COP29**



<http://www.allianceforindustrydecarbonization.org/>



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[www.youtube.com/user/irenaorg](https://www.youtube.com/user/irenaorg)

## Contacts:

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