

GIIA global asset database

2022/2023 edition

2,750 stakes

69 infrastructure partners

>2,400 infrastructure assets

\$1,650bn AUM

70 countries



Heatmap of GIIA member assets by continent



GLIA members' assets under management

Utilities

120m
customers

▲ 2%

1.0m km
gas pipeline

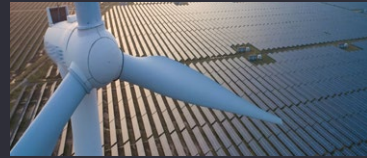
▲ 3%

114,000 MW
electricity capacity

▲ 140%

2.3m km
cable

▲ 12%



Telco/Digital

800,000
towers ▲ 30%

69m
customers served

755
datacentres ▲ 12%

Renewables

64,500 MW
solar ▲ 10%

120,000 MW
wind ▲ 22%

17,300 MW
hydro, biomass and
EfW ▼ 19%

Social

1,692 education
facilities ▲ 10%

233,000
students ▲ 6%

1,460 hospitals/
healthcare ▼ 1%

90,000
hospital beds

EV

14,166
infrastructure
charging stations

7 countries



Airports

100
airports ◆

16
countries

851m
passengers ▲ 64%

Rail

95,600km
rail ▲ 18%

34,000 units
of rolling stock ▲ 7%

Ports

360 ports ▲ 16%

19 countries ▲ 19%

125m
TEU ▲ 9%

1.1bn
tonnes ▲ 22%

Roads

83,600km
roads ▲ 20%

23m
AADT

GIIA members' assets by key region

USA

Assets 404

Stakes 451

Utilities			
Water & waste	Gas pipeline	Electricity	Elec/Gas gen.
10	13	16	17
Transport			
Airports	Ports	Roads	Rail
7	11	25	12
Renewable		Others	
Solar	Wind	Hyd, Bio, EfW	Sustainability
42	52	8	2
Telco			
Towers	Fibre	Data centres	Storage
8	24	24	3
Social			
Education	Healthcare	Accommodation	Other
1	3	1	125

UK

Assets 759

Stakes 875

Utilities			
Water & waste	Gas pipeline	Electricity	Elec/Gas gen.
17	8	9	5
Transport			
Airports	Ports	Roads	Rail
11	6	28	19
Renewable		Others	
Solar	Wind	Hyd, Bio, EfW	EV
51	92	37	3
Telco			
Towers	Fibre	Data centres	Storage
5	22	4	2
Social			
Education	Healthcare	Accommodation	Other
136	119	43	142

EU

Assets 684

Stakes 757

Utilities			
Water & waste	Gas pipeline	Electricity	Elec/Gas gen.
6	33	11	8
Transport			
Airports	Ports	Roads	Rail
12	16	81	28
Renewable		Others	
Solar	Wind	Hyd, Bio, EfW	Sustainability
58	187	20	7
Telco			
Towers	Fibre	Data centres	Storage
12	44	4	9
Social			
Education	Healthcare	Accommodation	Other
14	22	3	109

Canada

Assets 111

Stakes 117

Utilities			
Water & waste	Gas pipeline	Electricity	Elec/Gas gen.
1	4	1	4
Transport			
Airports	Ports	Roads	Rail
2	4	7	4
Renewable		Others	
Solar	Wind	Hyd, Bio, EfW	Trad. Gen.
3	5	7	0
Telco			
Towers	Fibre	Data centres	Sustainability
0	3	2	1
Social			
Education	Healthcare	Accommodation	Others
1	23	1	38

Middle East Africa

Assets 30

Stakes 31

Utilities	Transport	Renewable
4	4	11
Telco.	Social	Other
3	3	5

South and Central America

Assets 92

Stakes 106

Utilities			
Water & waste	Gas pipeline	Electricity	Elec/Gas gen.
7	7	9	4
Transport			
Airports	Ports	Roads	Rail
0	3	24	1
Renewable		Others	
Solar	Wind	Hyd, Bio, EfW	Batt. Storage
8	6	2	1
Telco			
Towers	Fibre	Data centres	Waste
2	7	2	0
Social			
Education	Healthcare	Accommodation	Others
0	1	0	8

Asia

Assets 168

Stakes 177

Utilities			
Water & waste	Gas pipeline	Electricity	Elec/Gas gen.
7	4	1	6
Transport			
Airports	Ports	Roads	Rail
0	3	36	2
Renewable		Others	
Solar	Wind	Hyd, Bio, EfW	Trad. Gen.
28	8	4	2
Telco			
Towers	Fibre	Data centres	Storage
4	4	8	3
Social			
Education	Healthcare	Accommodation	Others
0	0	0	48

Oceania

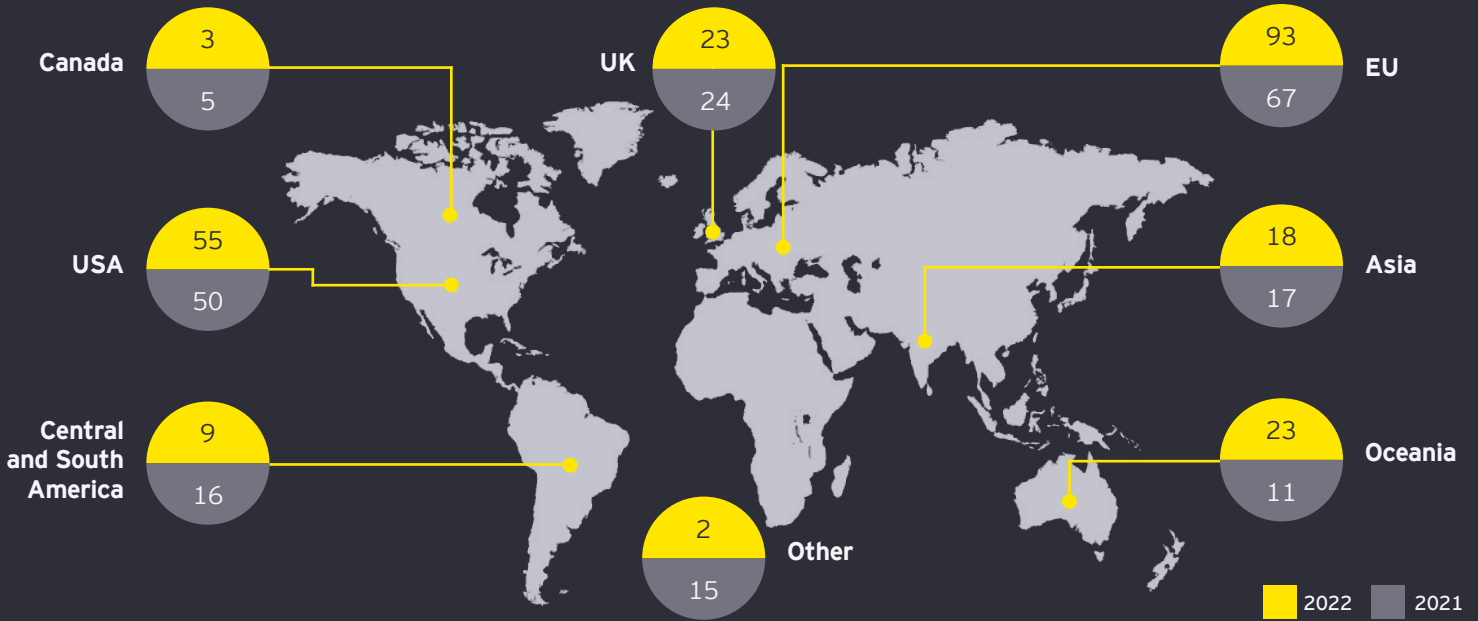
Assets 196

Stakes 237

Utilities			
Water & waste	Gas pipeline	Electricity	Elec/Gas gen.
8	6	10	4
Transport			
Airports	Ports	Roads	Rail
12	14	15	18
Renewable		Others	
Solar	Wind	Hyd, Bio, EfW	Trad. Gen.
12	9	2	1
Telco			
Towers	Fibre	Data centres	Storage
5	5	3	3
Social			
Education	Healthcare	Accommodation	Others
5	12	8	44

GIIA members' transaction activity

Acquired assets by country in 2021 and 2022

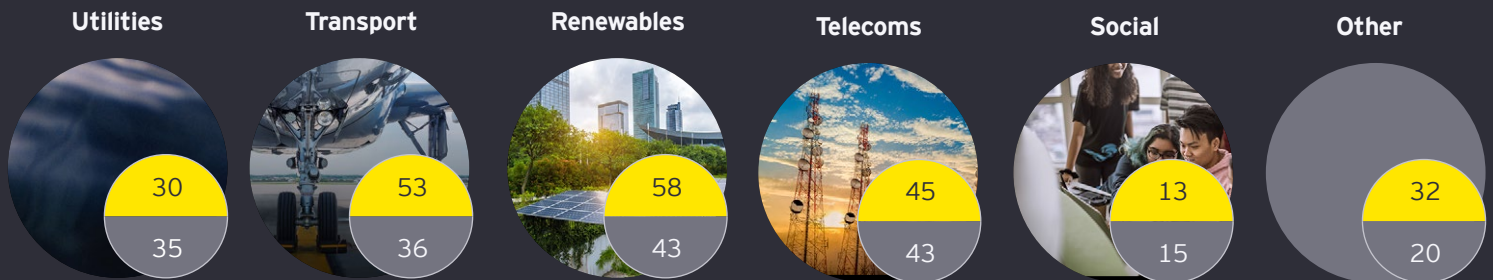


Deal flow for GIIA members increased in 2022 with 231 assets acquired, (39 more than 2021).

New investments in 2022 saw an uptick compared to 2021 in assets in the EU and Oceania.

Transactions continue to be centred around Western markets, with the US, UK and EU accounting for 74% of all new acquisition albeit with growth in other regions.

Acquired assets by sector in 2021 and 2022



Renewable and Telecom/Digital infrastructure continues to be a focus area for new investments across the market with growth in Solar, Wind and Digital including Towers and FTTH/FTTP Connections.

The increase in activity in the **Transport** sector was spread across all sub sectors, with the highest activity focused towards new road networks in Asia (8) and the EU (7).

The increase in **Other** is due to increased activity in the sustainability sector including waste management and heat networks and infrastructure.

"The GIIA members consulted for this database are investing significantly in new renewable energy generation assets, helping to make net zero a reality. Wind has seen the largest increase in investment, with members adding 22GW of operational onshore and offshore capacity since our last report. Through acquisitions and repowering initiatives, our members proudly own and operate around 13% of total global installed wind capacity. Similarly impressive, GIIA members have added 9GW of solar capacity to the 191GW that was installed in 2022.

As well as investing in established energy networks, our members are at the cutting edge of new sustainable technologies. Critical to global decarbonization is the delivery of electric vehicles (EVs) and battery capacity. Our members are charging ahead on this front, delivering 14,000 new EV charging points. At the same time, they are deploying capital to new battery storage projects which allow

the efficient and flexible use of renewable energy power, thereby mitigating the intermittency of renewable energy production.

Hydrogen has the potential to decarbonize not only energy systems but also hard to abate sectors such as shipping, steel and cement production. Due to hydrogen's unique potential, our members have invested in new green hydrogen projects with a potential capacity of over 14GW. This is only a fraction of the investment that has taken place over the past year through the GIIA community. What's more, our members have around \$200bn in 'dry powder' – capital already raised which is ready to deploy in any part of the world.

It is imperative that policy makers develop enabling investment environments, allowing investors to support delivery of net zero goals and ambitions set by governments in an equitable and universal way."

Jon Phillips, Chief Executive Officer, GIIA

EY | Building a better working world

EY exists to build a better working world, helping to create long-term value for clients, people and society and build trust in the capital markets.

Enabled by data and technology, diverse EY teams in over 150 countries provide trust through assurance and help clients grow, transform and operate.

Working across assurance, consulting, law, strategy, tax and transactions, EY teams ask better questions to find new answers for the complex issues facing our world today.

EY refers to the global organization, and may refer to one or more, of the member firms of Ernst & Young Global Limited, each of which is a separate legal entity. Ernst & Young Global Limited, a UK company limited by guarantee, does not provide services to clients. Information about how EY collects and uses personal data and a description of the rights individuals have under data protection legislation are available via ey.com/privacy. EY member firms do not practice law where prohibited by local laws. For more information about our organization, please visit ey.com.

Ernst & Young LLP

The UK firm Ernst & Young LLP is a limited liability partnership registered in England and Wales with registered number OC300001 and is a member firm of Ernst & Young Global Limited.

Ernst & Young LLP, 1 More London Place, London, SE1 2AF.

© 2023 Ernst & Young LLP. Published in the UK.
All Rights Reserved.

UKC-029503.indd (UK) 06/23. Artwork by Creative UK.

ED None



In line with EY's commitment to minimise its impact on the environment, this document has been printed on paper with a high recycled content.

Information in this publication is intended to provide only a general outline of the subjects covered. It should neither be regarded as comprehensive nor sufficient for making decisions, nor should it be used in place of professional advice. Ernst & Young LLP accepts no responsibility for any loss arising from any action taken or not taken by anyone using this material.

ey.com/uk