



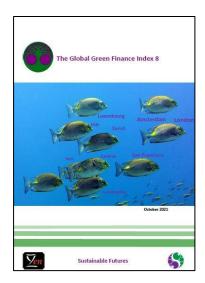
"Zest for Enlightenment"

Global Green Finance Index Global Launch

GGFI 8

Wednesday 20 October 2021 0900 – 1000 BST





Z/Yen Group Limited Risk/Reward Managers 41 Lothbury, London EC2R 7HG United Kingdom tel: +44 (20) 7562-9562 www.zyen.com







Welcome And Introduction

Simon Mills Senior Consultant Z/Yen Group











Agenda

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09:00 Welcome and Introduction Simon Mills, Senior Consultant, Z/Yen Group

09:05 GGFI 8 Results *Mike Wardle, Director, Z/Yen Group*

09:25 Commentary *Simon Mills, Senior Consultant, Z/Yen Group*

09:35 Comments, Questions & Answers

09:55 Concluding Remarks

10:00 Close









GGFI 8 Results

Mike Wardle Director, Head Of Indices Z/Yen Group











Global Green Finance Index



- © Z/Yen Group 2021
- Launched in 2018 to track the development of green finance in financial centres of the world.
- GGFI 1 included 47 centres. GGFI 8 includes 80 centres.
- GGFI is intended to:
 - Encourage financial centres to enhance the range and depth of their green finance offering.
 - > Showcase best practice in green finance.
 - Foster a race to the top.







Definitions



- Financial Centres UNEP defines financial centres as "cities with an intense concentration of financial activity involving an interlocking set of financial sectors and transactions".
- Green Finance refers to any financial instrument or financial services activity – which results in positive change for the environment and society over the long term (sustainability). The most basic "greenness" criterion of a company or project is that it contributes to reducing the emission of Greenhouse Gases.





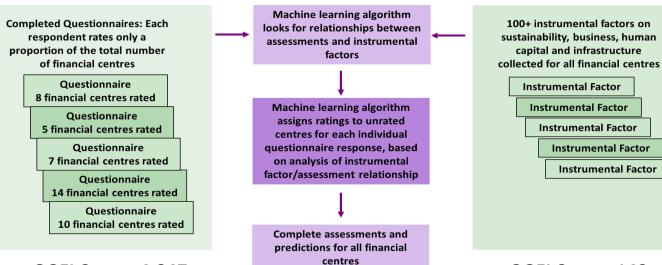


Factor Assessment Index

Global Green Finance Index completed/updated



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GGFI 8 uses 4,847 centre assessments from 776 respondents

GGFI 8 uses 143 instrumental factors

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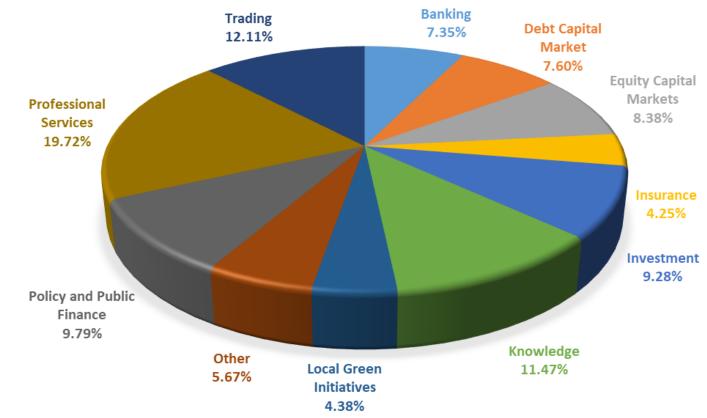




Respondents By Sector



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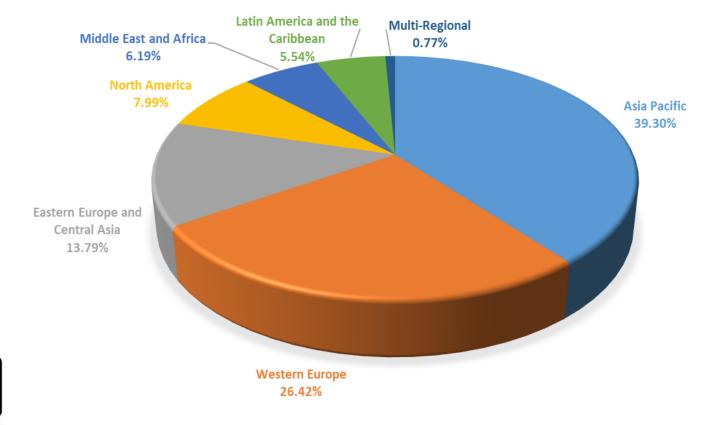




Respondents By Region



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Headlines



- London has overtaken Amsterdam to take first place in GGFI 8.
 Amsterdam is second, with San Francisco overtaking Zurich to take third place.
- Western European centres continue to dominate the top of the index, taking eight of the top 10 places. San Francisco and Los Angeles take the other two spots.
- New York has gained 18 places in the rankings to 13th place the biggest rise across the index.
- Asia/Pacific centres again performed strongly, with Beijing, Shanghai, Seoul, and Singapore all consolidating gains.
- These changes show the competitive challenge to Western European centres as North American and Asia/Pacific centres focus more intensely on green finance.







Headlines – Top 20 Centres



© Z/Yen Group 2021

Centre	GGFI 8		GGFI 7		Change In	Change In	
	Rank	Rating	Rank	Rating	Rank	Rating	
London	1	571	3	562	▲ 2	▲ 9	
Amsterdam	2	562	1	567	-1	- 5	
San Francisco	3	549	5	546	▲ 2	▲ 3	
Zurich	4	548	2	563	- 2	- 15	
Luxembourg	5	545	6	542	▲ 1	▲ 3	
Geneva	6	544	7	541	▲ 1	▲ 3	
Stockholm	7	543	9	539	▲ 2	▲ 4	
Los Angeles	8	542	10	538	▲ 2	▲ 4	
Oslo	9	541	4	547	- 5	V -6	
Paris	10	540	11	537	▲ 1	▲ 3	
Beijing	11	539	14	531	▲ 3	▲ 8	
Copenhagen	12	538	8	540	- 4	- 2	
New York	13	537	31	517	▲ 18	A 20	
Shanghai	14	536	17	528	▲ 3	▲ 8	
Washington DC	15	534	21	524	▲ 6	1 0	
Seoul	16	533	22	523	▲ 6	1 0	
Singapore	16	533	20	525	▲ 4	▲ 8	
Helsinki	18	532	12	534	-6	-2	
Munich	19	531	15	530	-4	▲ 1	
Sydney	20	530	18	527	▼ -2	▲ 3	



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GGFI 8 Dimensions



© Z/Yen Group 2021

GGFI 8 Rank	Contro	De	pth	Quality	
GGFI & Kalik	Centre	Rank	Rating	Rank	Rating
1	London	2	280	1	291
2	Amsterdam	1	281	3	281
3	San Francisco	3	274	5	275
4	Zurich	17	266	2	282
5	Luxembourg	4	273	7	272
6	Geneva	8	270	6	274
7	Stockholm	5	272	9	271
8	Los Angeles	6	271	9	271
9	Oslo	23	263	4	278
10	Paris	6	271	12	269
11	Beijing	15	267	7	272
12	Copenhagen	8	270	13	268
13	New York	11	269	13	268
14	Shanghai	8	270	17	266
15	Washington DC	11	269	21	265
16	Seoul	13	268	21	265
16	Singapore	25	262	9	271
18	Helsinki	20	264	13	268
19	Munich	13	268	28	263
20	Sydney	25	262	13	268



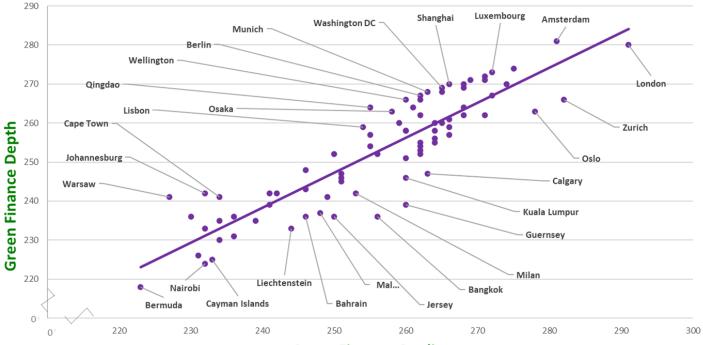
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Relationship Between Depth & Quality







Green Finance Quality







Ranking By Instrumental Factor Group



Rank	Factor Group							
Ndlik	Sustainability	Business	Human Capital	Infrastructure				
1	London	London	London	London				
2	Amsterdam	Stockholm	Zurich	New York				
3	New York	Amsterdam	Copenhagen	San Francisco				
4	Copenhagen	New York	Amsterdam	Los Angeles				
5	Oslo	Zurich	New York	Washington DC				
6	Zurich	Copenhagen	Geneva	Amsterdam				
7	Paris	San Francisco	Luxembourg	Frankfurt				
8	Helsinki	Geneva	Stockholm	Copenhagen				
9	San Francisco	Los Angeles	San Francisco	Munich				
10	Geneva	Beijing	Boston	Tokyo				
11	Stockholm	Luxembourg	Washington DC	Stockholm				
12	Beijing	Shanghai	Sydney	Montreal				
13	Washington DC	Shenzhen	Oslo	Zurich				
14	Berlin	Edinburgh	Seoul	Seoul				
15	Boston	Washington DC	Paris	Berlin				
16	Shanghai	Seoul	Beijing	Beijing				
17	Singapore	Paris	Munich	Boston				
18	Los Angeles	Singapore	Vienna	Edinburgh				
19	Luxembourg	Guangzhou	Singapore	Busan				
20	Montreal	Busan	Berlin	Paris				



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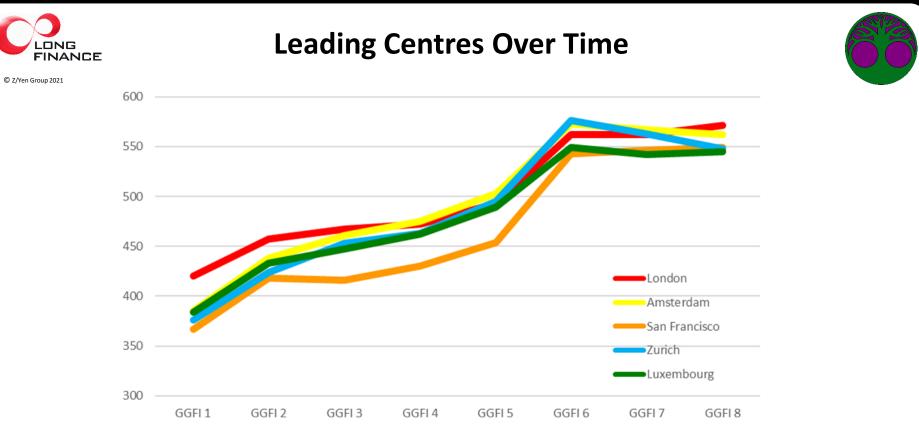
Ranking By Industry Sector



Rank	Policy	Knowledge	Banking	Investment	Trading
1	London	London	Beijing	London	Beijing
2	Geneva	Amsterdam	Shanghai	Amsterdam	San Francisco
3	Zurich	Paris	Guangzhou	New York	Guangzhou
4	Edinburgh	New York	Singapore	Shanghai	New York
5	Los Angeles	Los Angeles	Sydney	Dubai	Los Angeles
6	Shenzhen	San Francisco	Hong Kong	Tokyo	Boston
7	Amsterdam	Berlin	Shenzhen	Beijing	Washington DC
8	San Francisco	Frankfurt	New York	Singapore	Shenzhen
9	Melbourne	Copenhagen	Seoul	Osaka	Shanghai
10	Abu Dhabi	Shenzhen	Boston	San Francisco	Chicago
11	Luxembourg	Luxembourg	Washington DC	Seoul	Nur-Sultan
12	Singapore	Seoul	Montreal	Boston	Edinburgh
13	Beijing	Brussels	Los Angeles	Malta	Doha
14	Berlin	Singapore	Tokyo	Hong Kong	Abu Dhabi
15	Guangzhou	Beijing	Melbourne	British Virgin Islands	Melbourne
16	Frankfurt	Stockholm	Busan	Los Angeles	Vancouver
17	Washington DC	Munich	Zurich	Luxembourg	Busan
18	Seoul	Hamburg	San Francisco	Chicago	Almaty
19	Glasgow	Washington DC	Chicago	Geneva	Singapore
20	Paris	Helsinki	London	Mumbai	London



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Headlines – Western Europe



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Centre	GGFI 8		GGFI 7		Change in	Change in
Centre	Rank	Rating	Rank	Rating	Rank	Rating
London	1	571	3	562	2	9
Amsterdam	2	562	1	567	-1	-5
Zurich	4	548	2	563	-2	-15
Luxembourg	5	545	6	542	1	3
Geneva	6	544	7	541	1	3
Stockholm	7	543	9	539	2	4
Oslo	9	541	4	547	-5	-6
Paris	10	540	11	537	1	3
Copenhagen	12	538	8	540	-4	-2
Helsinki	18	532	12	534	-6	-2







Headlines – Asia/Pacific



Change in **GGFI 8** GGFI 7 Change in Centre Rank Rating Rank Rating Rank Rating Beijing Shanghai Seoul Singapore Sydney -2 Tokyo -9 -4 Wellington Busan Shenzhen Guangzhou -8







Headlines – North America



GGFI8 GGFI7 Change in Change in Centre Rank Rating Rank Rating Rank Rating San Francisco Los Angeles New York Washington DC Vancouver Boston Montreal -6 -1 Toronto -2 Chicago -1 Calgary -4







Headlines – Eastern Europe & Central Asia





Centre	GG	GGFI 8		GGFI 7		Change In
	Rank	Rating	Rank	Rating	Rank	Rating
Nur-Sultan	52	498	57	485	5	13
Moscow	70	472	71	469	1	3
Prague	71	469	67	476	-4	-7
Warsaw	72	468	72	468	0	0
Istanbul	73	467	74	459	1	8
Almaty	74	466	62	478	-12	-12







Headlines – Latin America & The Caribbean



Centre	GG	GGFI 8		GGFI 7		Change In
Centre	Rank	Rating	Rank	Rating	Rank	Rating
Sao Paulo	65	480	60	479	-5	1
Mexico City	68	474	73	463	5	11
Rio de Janeiro	75	465	76	458	1	7
British Virgin Islands	76	464	77	456	1	8
Cayman Islands	77	458	69	473	-8	-15
Bermuda	80	441	78	455	-2	-14







Headlines – Middle East & Africa



GGFI 8 GGFI 7 Change In Change In Centre Rating Rating Rank Rating Rank Rank Dubai 40 516 45 505 5 11 Casablanca 42 514 33 516 -9 -2 Abu Dhabi 15 45 511 50 496 5 Tel Aviv 54 496 -6 -6 48 502 Mauritius 58 490 52 491 -6 -1 Doha 62 59 483 -3 484 1 Bahrain 64 482 67 3 476 6 Cape Town 67 475 62 478 -5 -3 Johannesburg 68 474 66 477 -2 -3 Nairobi 79 456 New New New New







GGFI 8 Conclusions



- Green finance continues to grow in popularity: ratings of green finance rose in nearly all centres for both depth and quality
- Policy matters not just through its direct effect on green finance: Where a city is showing leadership on clean water, clean air, public transport, and "liveability", green finance is strong
- There is no room for complacency at the top Asia/Pacific and North American centres are improving rapidly.







Commentary

Simon Mills Senior Consultant Z/Yen Group











Views Of Those Working In Green Finance



City	Adjusted Rating	Adjusted Rank	GGFI 8 Rank	Difference
London	521	1	1	0
Amsterdam	509	2	2	0
Paris	507	3	10	7
San Francisco	502	4	3	-1
Luxembourg	501	5	5	0
New York	496	6	13	7
Berlin	491	7	21	14
Oslo	490	8	9	1
Copenhagen	486	9	12	3
Zurich	485	10	4	-6
Los Angeles	484	11	8	-3
Sydney	483	12	20	8
Stockholm	482	13	7	-6
Munich	480	14	19	5
Geneva	478	15	6	-9
Washington DC	477	16	15	-1
Vienna	477	16	33	17
Brussels	475	18	23	5
Wellington	474	19	24	5
Beijing	473	20	11	-9



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What Is On Practitioners' Minds?

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Areas Of Interest





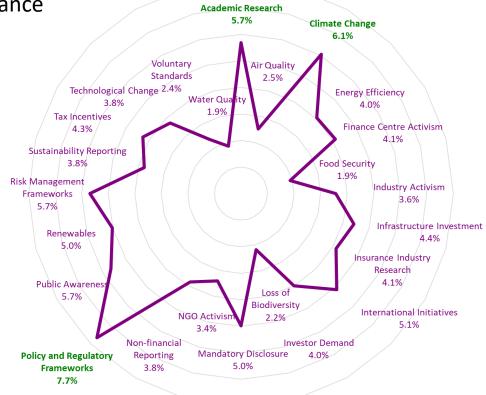






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Drivers Of Green Finance









The Role Of Financial Centres



Local action

bringing together key players, supporting market access, developing standards and regulatory approaches, enabling a focus on priority areas of the economy, and financial inclusion measures.

- Disclosure and reporting
 - metrics and taxonomies
 - ➤access to data
 - transparency
- The move to digitisation and embedded finance



 The contribution of emissions trading schemes in delivering change.





Emissions Trading And COP 26



- © Z/Yen Group 2021
- Challenges to the successful implementation of carbon trading
 - ➢ Pricing
 - Net Zero
 - Setting The Cap
 - Grandfathering
 - ➢ Fungibility
 - Scope 3 Emissions
 - Offsetting Schemes



 The greatest challenge will be reaching agreement among the world powers

















GGFI 9 April 2022





Global Green Finance Index Rating The World's Green Financial Centres

Take part: <u>www.greenfinanceindex.net/survey/</u>





