

SOLAR POWER AFRICA

Eye on the world around us:
Application of Solar PV technology

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GeoENERGY Group: GeoSUN & GeoWIND

16 February 2022



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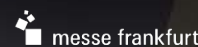
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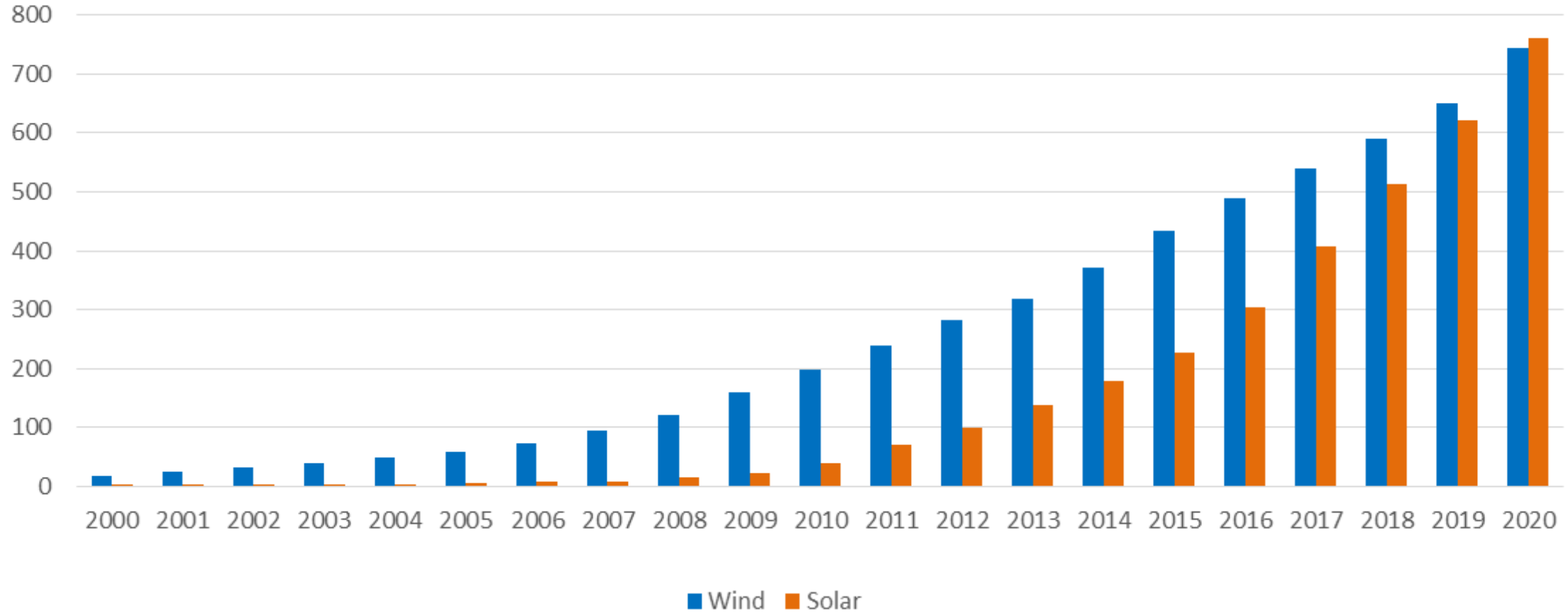


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Gigawatts

Global Installed Capacity



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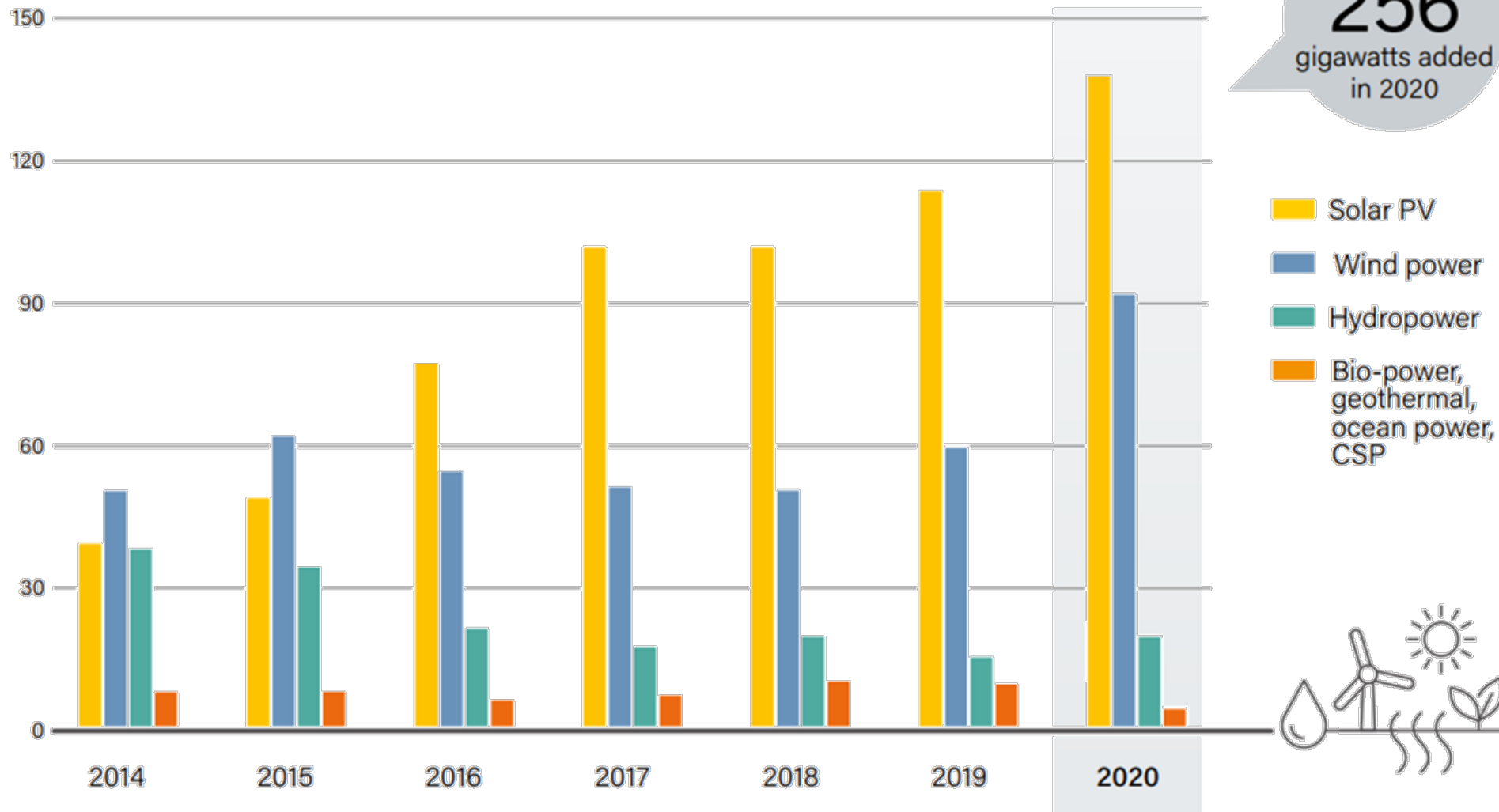




FIGURE 7.

Annual Additions of Renewable Power Capacity, by Technology and Total, 2014-2020

Additions by technology (Gigawatts)



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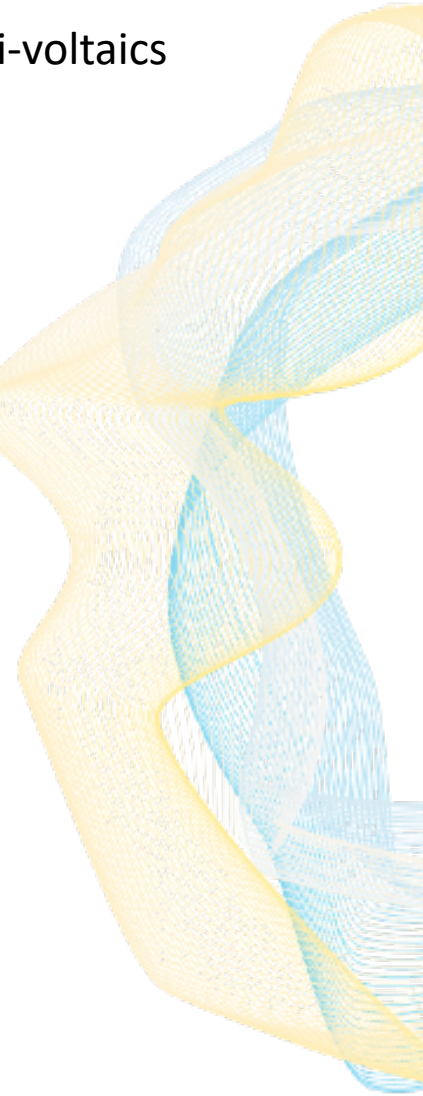


In SA we are used to utility PV plants typically being a single large “block”.

In regions where space is limited, utility size PV plants are often scattered as per the photo.



Agri-voltaics



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Agri-voltaics



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Aqua-voltaics



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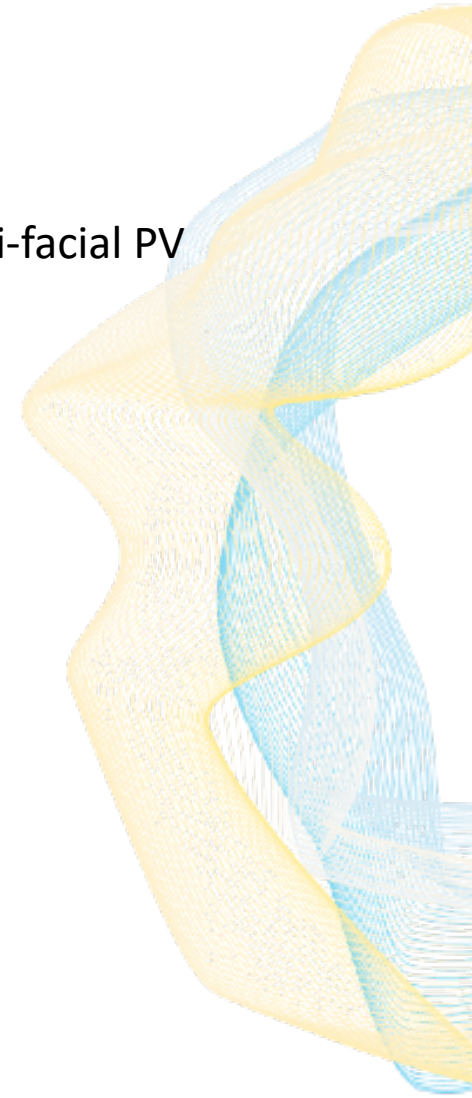
Floating PV



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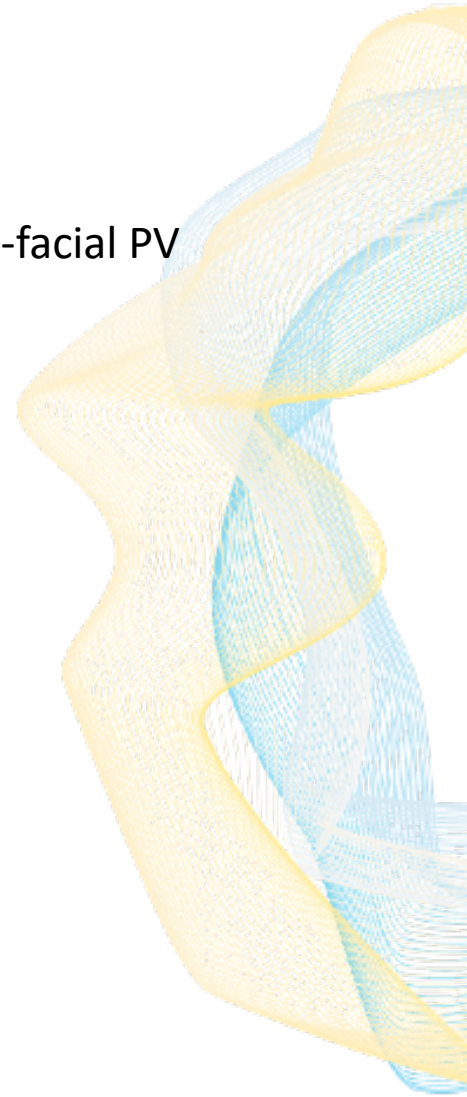


Bi-facial PV

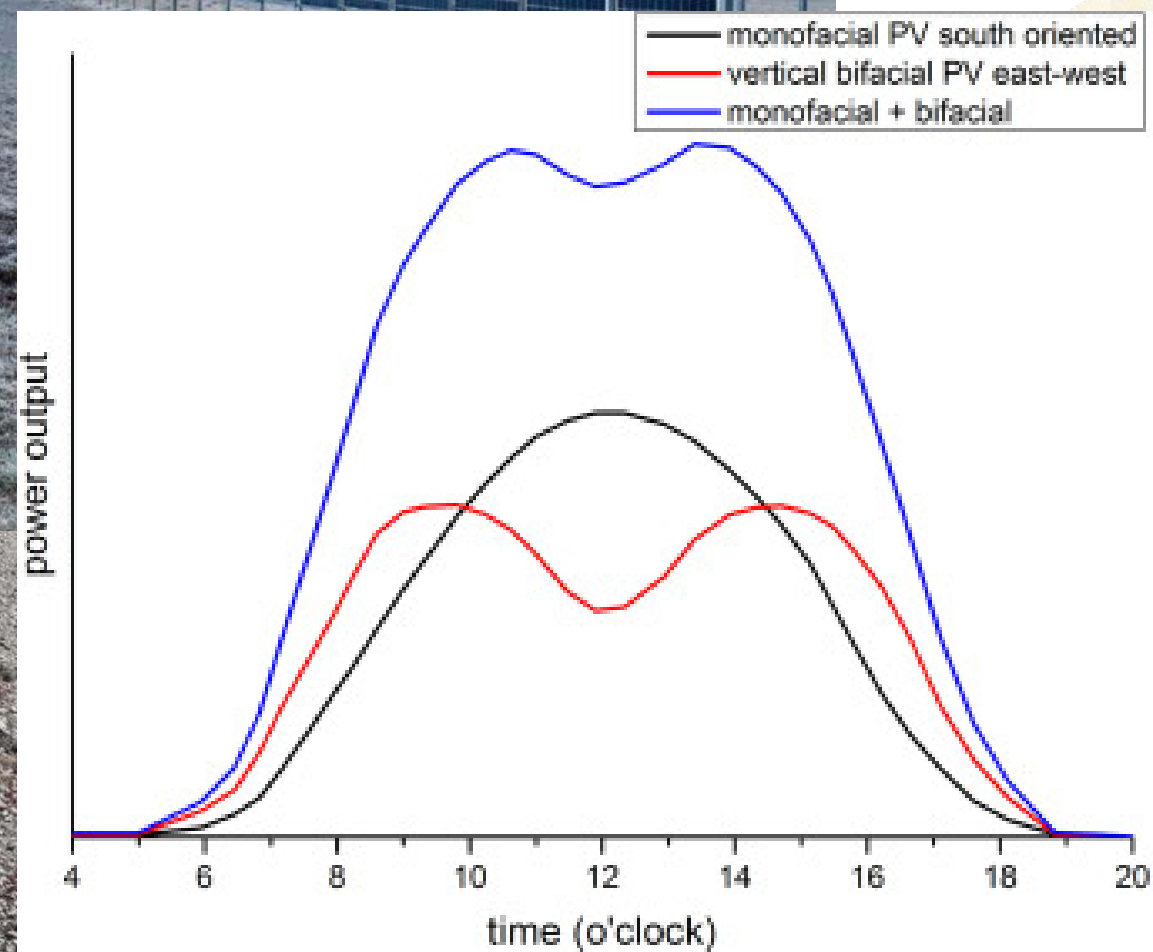


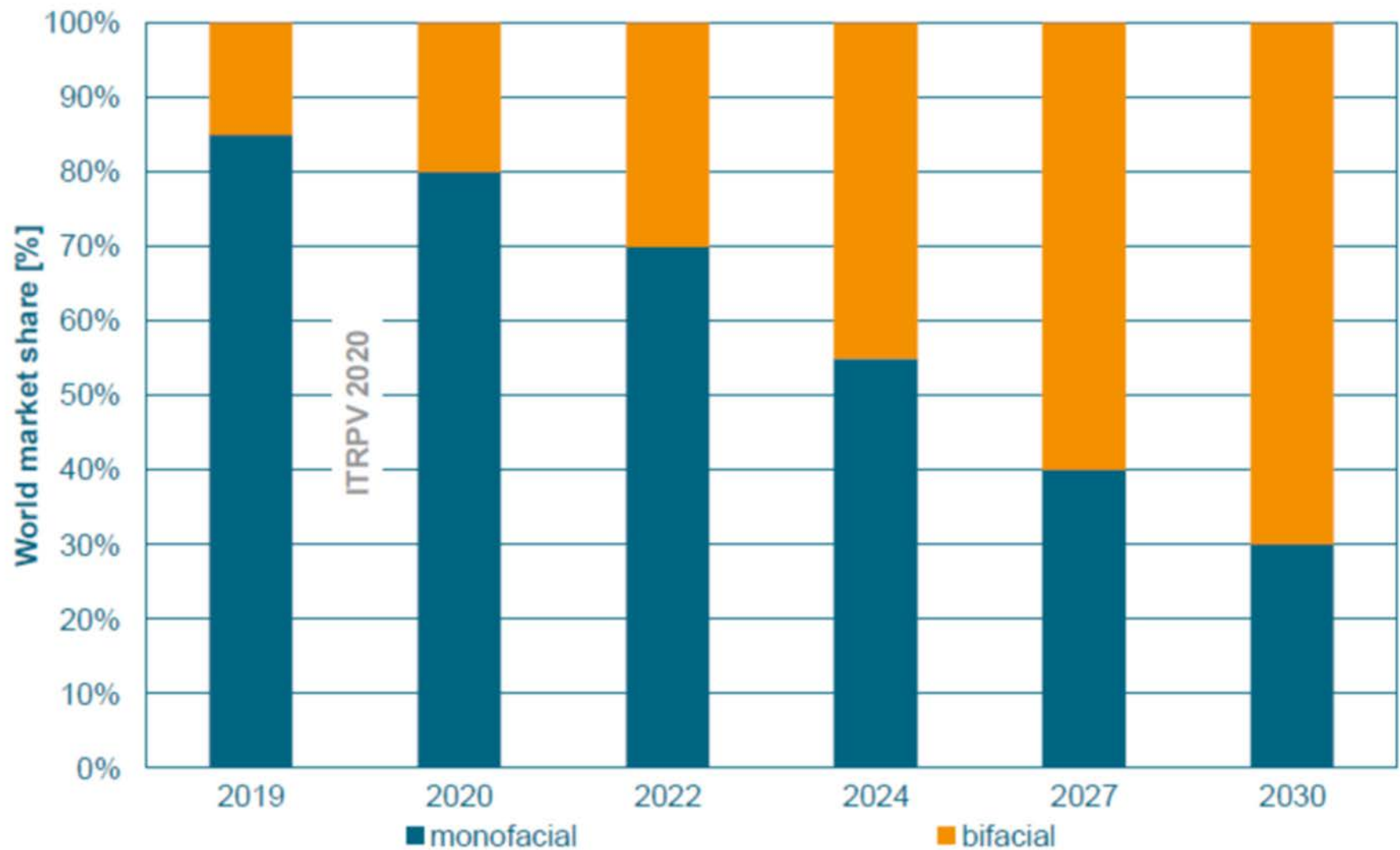
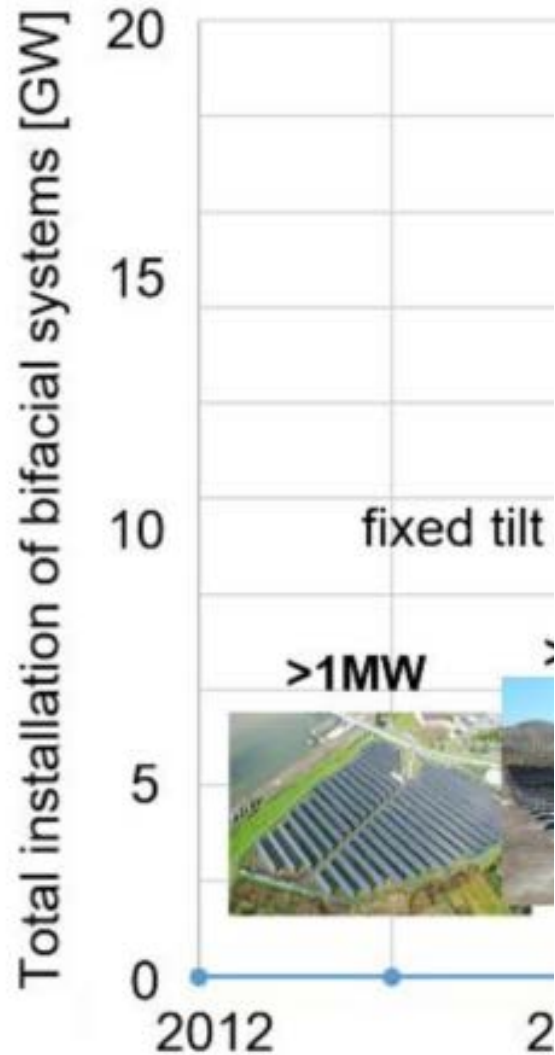


Bi-facial PV



Bi-facial PV







Building integrated PV (BIPV)





Utility scale solar and batteries.

Utility scale solar and wind (and batteries).

Sometimes with a bit of diesel generation.



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#	Project Name	Fully Indexed Price [ZAR/MWh]	Technology	Contracted Capacity [MWac]	Plant details
1	ACWA Power Project DAO	R 1,462.00	PV, batteries and gas/diesel	150	Unknown
2	Mulilo Total Hydra Storage	R 1,515.97	PV, batteries and diesel	75	PV (180 MW), Battery (75? MW / 450 MWh), Diesel (20 MW)
3	Oya Energy Hybrid Facility	R 1,550.34	PV, wind, batteries and diesel	128	PV (155 MW), Wind (82.5 MW), Battery (40 MW / 160 MWh), Diesel (106 MW)
4	Umoyilanga Energy	R 1,721.64	PV, wind, batteries and diesel	75	Dassiesridge - Wind (77.8 MW), Diesel (6 MW), BESS (45 MW, 135 MWh); Avondale - PV (138 MW), Diesel (8 MW), BESS (30 MW, 90 MWh)
5	Scatec Kenhardt 3	R 1,884.56	PV and batteries	50	PV (180 MW), Battery (75 MW / 380 MWh)
6	Scatec Kenhardt 1	R 1,884.61	PV and batteries	50	PV (180 MW), Battery (75 MW / 380 MWh)
7	Scatec Kenhardt 2	R 1,884.64	PV and batteries	50	PV (180 MW), Battery (75 MW / 380 MWh)
8	Mulilo Total Coega	R 1,885.37	PV and LNG	198	Gemsbok - PV (180 MW); Coega - Gas (198 MW)
				776	MWac

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GeoSUN Colaborators



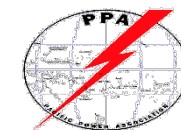
Selection of GeoSUN Clients



WORLD BANK GROUP



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