

# Scaling Solar Application for Agricultural Use – Demand Aggregation

## Demand Aggregation of Solar Water Pumps from ISA Member Countries

S. N.	Name of the Country	Demand	Demand of Specific Capacities of Pumps
1	Benin	50000	-
2	Democratic Republic of Congo	80000	10hp each
3	Djibouti	100	-
4	Fiji	27	-
5	Mali	15000	10000 of 20hp & 5000 of 10hp
6	Mauritius	00027	-
7	Niger	15000	-
8	Senegal	4000	-
9	Somalia	500	-
10	South Sudan	6800	-
11	Sudan	50000	5000 of 20 kW; 35000 of 11 kW: 10000 of 4 kW
12	Tonga	258	-
13	Tuvalu	10000	-
14	Uganda	30000	-
15	Cabo Verde	100	-
16	Sri Lanka	2000	2kW each
17	Guyana	111	0.86hp, 2.64hp, 5hp, 7.5hp, 10hp & 15hp
18	Peru	1750	-
19	Zambia	6	35hp each
20	Yemen	1500	-
21	Nauru	400	5hp and 10hp
22	Togo	5000	-
	<b>Total</b>	<b>272579</b>	



(As on 31<sup>st</sup> Dec 2018)

## Demand aggregation of Solar Mini Grids received from ISA Countries



S No	Member Country	Solar Mini-Grids
1	Democratic Republic of Congo	10.4 MW (104 Mini Grids)
2	Cuba	0.0094 MW (5 Projects)
3	Guyana	1.634 MW (15 Projects)
4	Malawi	2.8 MW (13 locations)
5	Sri Lanka	3.73 MW (36 Projects)
6	Sudan	46.042 MW (44 projects)
7	Tonga	1.008 MW (11 Projects)
8	Guinea-Bissau (Prospective member country)	5 MW (5 projects)
9	Zambia (Prospective Member Countries)	2.5 MW (3 Projects)

### Summary

Parameter	Aggregation capacity
Solar Mini-grids	73.1234 MW

(As on 31<sup>st</sup> Dec 2018)

Scaling  
Solar  
Mini-Grids

—

Demand  
Aggregation

Details of the demand of Solar Rooftop projects received from ISA Member Countries



**Scaling  
Rooftop  
Solar**

—

**Demand  
Aggregation**

S No	Member Country	Rooftop Projects		
		Government buildings	Industrial complexes	Commercial complexes
1	Cape Verde	1.39 MW (94 projects)	1.15 MW (29 projects)	2 MW (100 projects)
2	Democratic Republic of Congo	253.2 MW (2532 Rooftops)	506.4 MW (2532 Rooftops)	253.2 MW (2532 Rooftops)
3	Cuba	0.004 MW (3 projects)	0.0068 MW (5 Projects)	-
4	Guinea	1 MW (9 Projects)	-	-
5	Malawi	2.65 MW (85 projects)	-	-
6	Nauru	1.2 MW (5 Projects)	-	1 MW (5 Projects)
7	Sudan	4.365 MW (16 projects)	-	-
8	Tonga	0.5 MW (2 projects)	0.3 MW (1 projects)	0.2 MW (3 projects)
9	Tuvalu	5 MW	-	-
10	Guinea-Bissau (Prospective member country)	4.5 MW (4 projects)	1.5 MW (3 projects)	0.5 MW (2 projects)
11	Zambia (Prospective member country)	1.5 MW	-	-

**Summary**

Parameter	Aggregation capacity
Solar Rooftop systems (Govt. Buildings)	275.309 MW
Solar Rooftop systems (Industrial complexes)	509.3568 MW
Solar Rooftop systems (Commercial complexes)	256.9 MW

**(As on 31<sup>st</sup>  
Dec 2018)**