



Green bond Impact Report

Issuance: 2017



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1. Introduction

Founded in 2004, Greenko Group, through our subsidiaries, develops and operates clean energy projects in India. Greenko's portfolio includes solar, wind, hydropower, natural gas, and biomass assets in India. Through these assets, the group generates and sells electricity to state utilities, private customers, and other electricity transmission and trading companies. Greenko also operates as an intermediate financing company for the development of clean energy projects. Greenko is headquartered in Hyderabad, India. Greenko has a vision of "Powering India with decarbonized, digitized & decentralized energy assets" and its mission is "building, owning & operating high-quality renewable energy assets by leveraging leading edge technologies for a stable and inclusive future". On Greenko's website, we disclose that we have an objective to be a responsible corporate citizen. This includes incorporating sustainability operationally and contributing to environmental and social impact in local communities. Greenko aims to achieve this objective through the generation of clean energy and the implementation of community programs centered on education, health, and environmental stewardship.

This report gives an overview of the allocation of green assets to Green Bond and describes the impact of the Green Bond on a project by project level. The issuance of the Green Bond is even further reinforcing Greenko's commitment to sustainable development.

2. Bond issuance details

Sl. No.	Details	
1.	Green Bond issuance Year	2017
2.	Bonds issued by	Greenko Dutch BV
3.	Total amount	USD 1000 million
4.	Issue date	July, 2017
6.	ISIN	USN3700LAC92 USN3700LAB10

3. Sustainability and Greenko's Green Bond

Greenko recognizes that climate change is one of the most important issues the world is presently facing. Therefore, the transformation to a decarbonized, climate resilient, and circular economy is an important focus in Greenko's sustainability strategy. Our sustainability policies and sustainable business processes help us to reduce climate related and other environmental risks and to boost the development of sustainable alternatives.

Green Bonds are one of Greenko's initiatives to contribute to a more sustainable future. The proceeds are used to refinancing and funding projects that meet the criteria and have a positive impact on the environment by reducing the emissions of greenhouse gases and promoting the sustainable use of resources.

4. Greenko's Green Bond Framework

For the purpose of issuing a Green Bond, Greenko has developed a framework, which addresses the four key pillars of the Green Bond Principles (GBP): use of proceeds, the process for project selection, the management of proceeds, and reporting.

Greenko's Green Bond framework is published in Greenko's website <http://www.greenkogroup.com/>

5. Greenko's Green Bond impact report

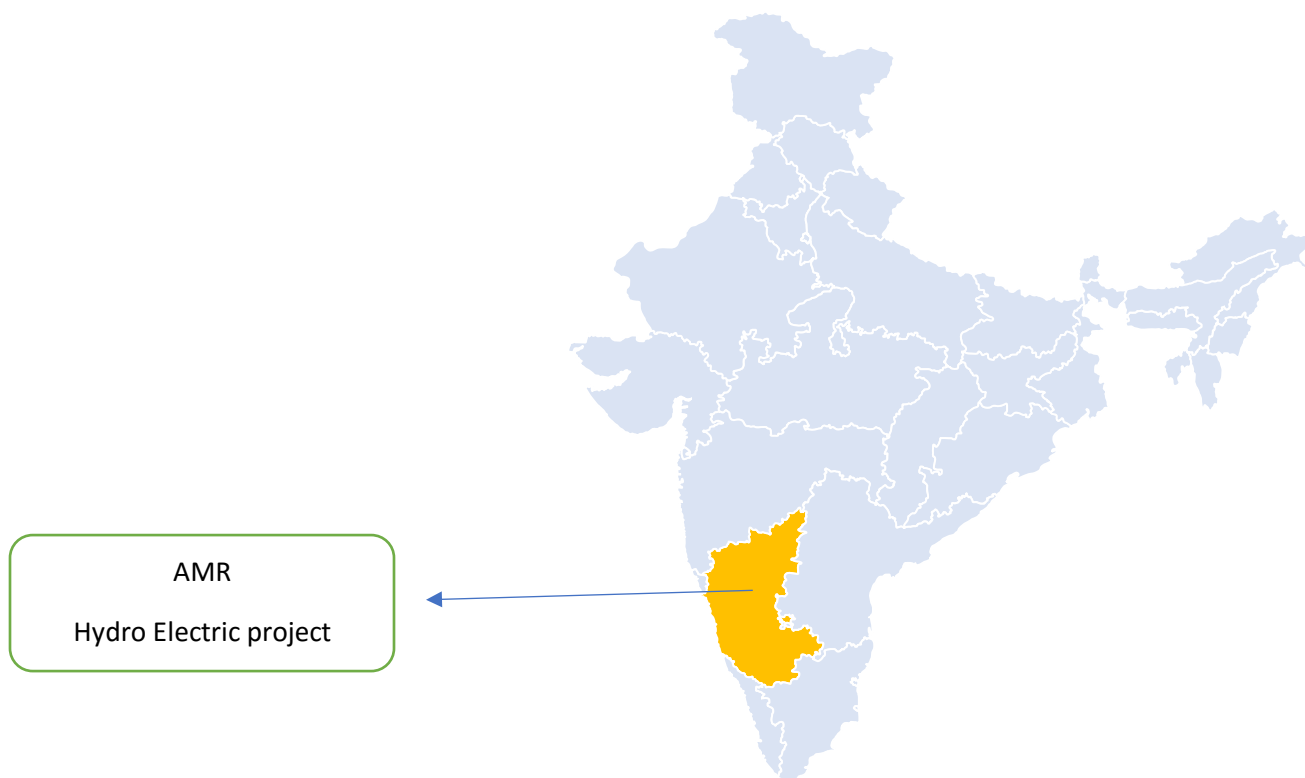
The table below summarizes the environmental benefits in FY 2019-20 related to the projects coming under this Green bond.

Sl.No.	Name of Project	Technology	Capacity MW	FY 19-20 Generation in MWh	Grid Emission factor	CO2 avoided (in tCO2)	CO2 avoided (in Million tCO2)
1	AMR Power Private Limited	HYDRO	24.75	69212	0.82	56,754	0.0567541
2	Rithwik Energy Generation Private Limited	HYDRO	24.75	27594	0.82	22,627	0.0226268
3	Hemavathy Power & Light Private Limited	HYDRO	24	76098	0.82	62,400	0.0624001
4	Sai Spurthi Power Private Limited	HYDRO	10.5	35356	0.82	28,992	0.0289922
5	Jasper Energy Private Limited	HYDRO	10.5	15749	0.82	12,915	0.0129145
6	Greenko Astha Projects (India) Private Limited	HYDRO	10	60628	0.82	49,715	0.0497149
7	Greenko Him Kailash Hydro Power Private Limited	HYDRO	5	24562	0.82	20,141	0.0201405
8	Greenko AT Hydro Private Limited	HYDRO	5	24519	0.82	20,105	0.0201054
9	Greenko Cimaron Constructions Private Limited	HYDRO	5	34074	0.82	27,940	0.0279403
10	Greenko Tarela Power Private Limited	HYDRO	5	32027	0.82	26,263	0.0262625
11	Greenko Tejassarnika Hydro Energies Private Limited	HYDRO	12	42305	0.82	34,690	0.0346905
12	Greenko Sri Sai Krishna Hydro Energies Private Limited	HYDRO	10	54979	0.82	45,083	0.0450825
13	Greenko Anubhav Hydel Power Private Limited	HYDRO	5	26149	0.82	21,442	0.021442
14	Greenko Sumez Hydro Energy Private Limited	HYDRO	14	60552	0.82	49,653	0.0496526
15	Greenko Budhil Hydro Power Private Limited	HYDRO	70	283589	0.82	2,32,543	0.2325431
16	Ratnagiri Wind Power Projects Private Limited	WIND	101.6	192860	0.82	1,58,145	0.1581452
17	Greenko Rayala Wind Power Private Limited	WIND	159.2	369900	0.82	3,03,318	0.303318
18	Fortune Five Hydel Projects Private Limited	WIND	101.2	393200	0.82	3,22,424	0.322424
19	Matrix Power (Wind) Private Limited	WIND	15	39580	0.82	32,456	0.0324556
20	Mangalore Energies Private Limited	WIND	15	38570	0.82	31,627	0.0316274
21	Poly Solar Park Private Limited	WIND	24	61310	0.82	50,274	0.0502742
22	Jed Solar Park Private Limited	WIND	24	61000	0.82	50,020	0.05002
23	Sunborne Energy Andhra Private Limited	SOLAR	35	69772	0.82	57,213	0.0572133
24	SEI Phoebus Private Limited	SOLAR	50	99381	0.82	81,492	0.0814923
25	SEI Adityashakti Private Limited	SOLAR	10	20941	0.82	17,171	0.0171713
26	RT Renewable Energy India Private Limited	SOLAR	15	29916	0.82	24,531	0.0245308
27	SEI Adhavan Power Private Limited	SOLAR	50	93570	0.82	76,727	0.0767274
28	SEI Kathiravan Power Pvt Limited	SOLAR	50	98183	0.82	80,510	0.0805102
29	SEI Sriram Power Private Limited -1	SOLAR	20	31329	0.82	25,690	0.0256898

30	SEI Sriram Power Private Limited -2	SOLAR	19.4	26489	0.82	21,721	0.021721
31	SEI Aditi Power Private Limited	SOLAR	30	51989	0.82	42,631	0.0426308
32	SEI Bheem Power Private Limited	SOLAR	30	54756	0.82	44,900	0.0448999
33	SEI Suryashakti Power Private Limited	SOLAR	30	55318	0.82	45,360	0.0453604
34	SEI Diamond Private Limited	SOLAR	30	52826	0.82	43,317	0.0433173
35	SEI Venus Private Limited	SOLAR	30	53293	0.82	43,700	0.0437003
	TOTAL		1074.9			22,64,488	2.264491307

Project by project environmental benefit details are presented below.

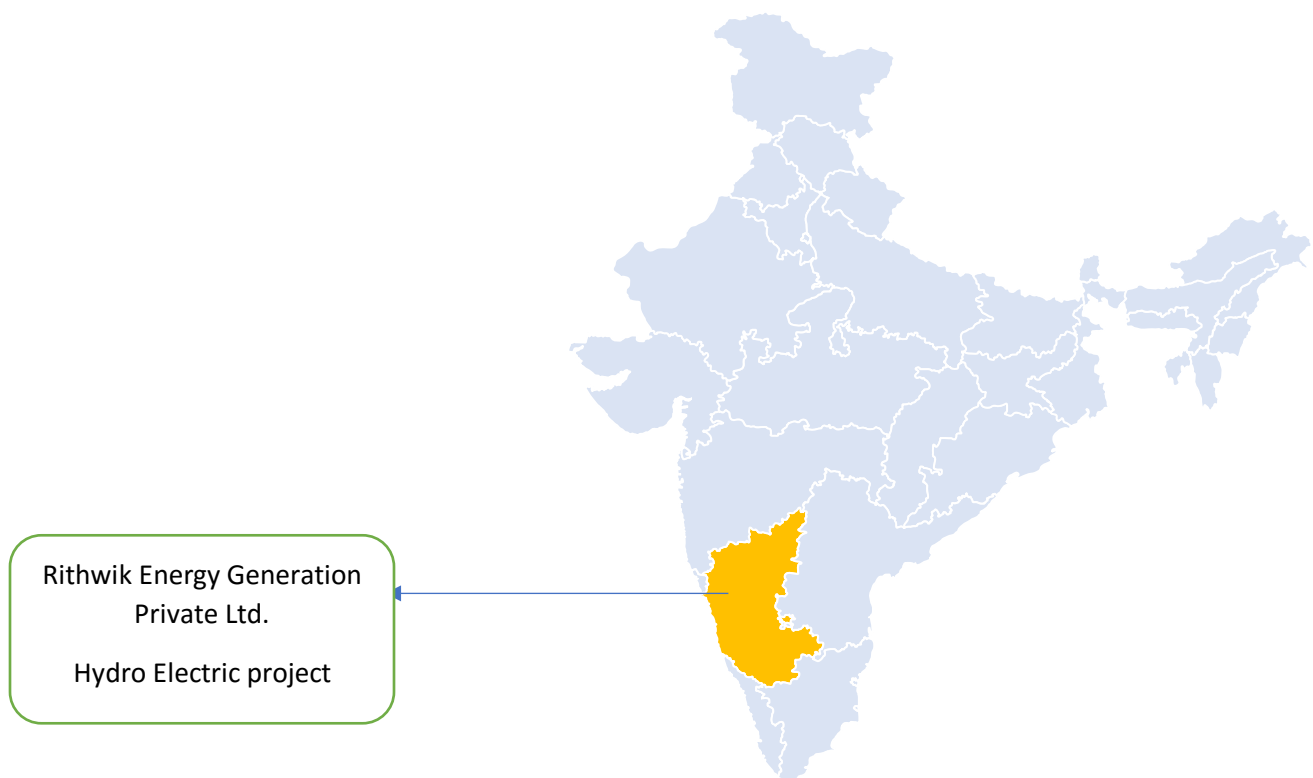
Project 1	AMR Power Private Limited
Capacity in MW	24.75
State	Karnataka



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.0567541

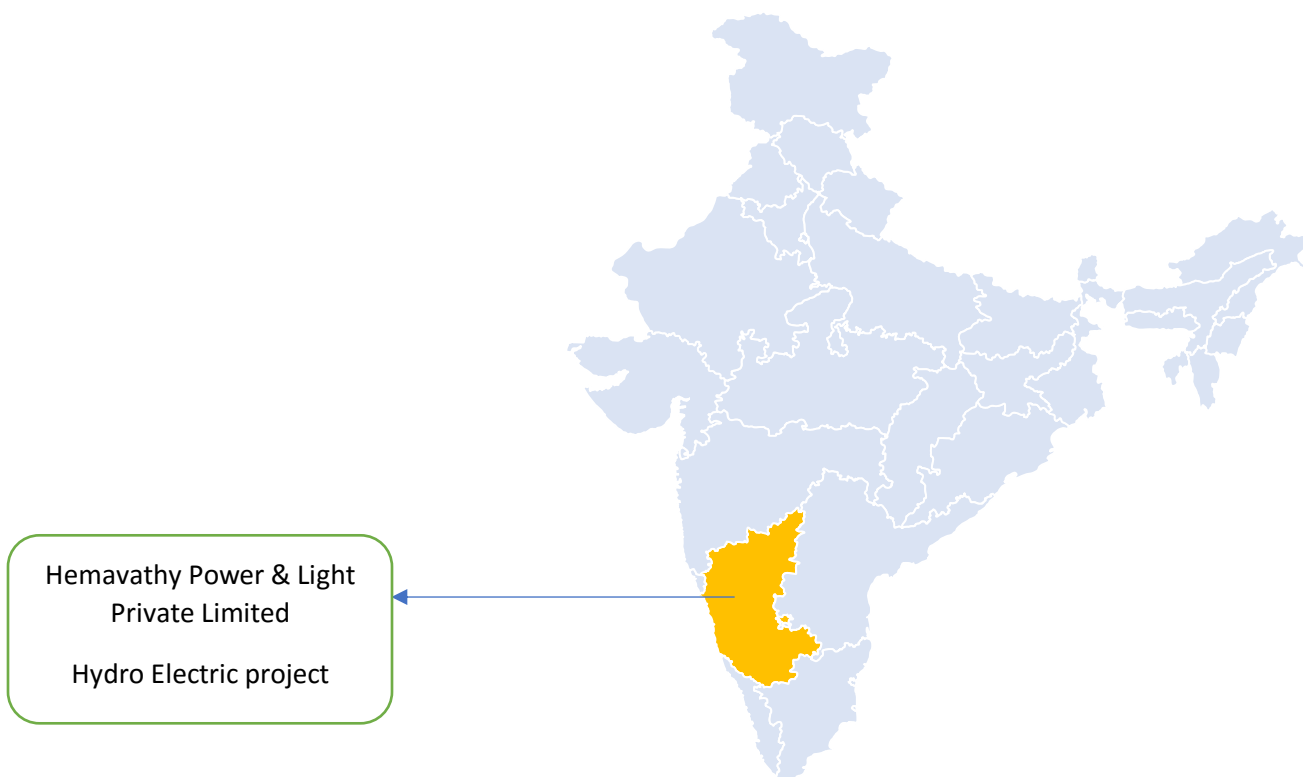
Project 2	Rithwik Energy Generation Private Limited
Capacity in MW	24.75
State	Karnataka



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.022626822

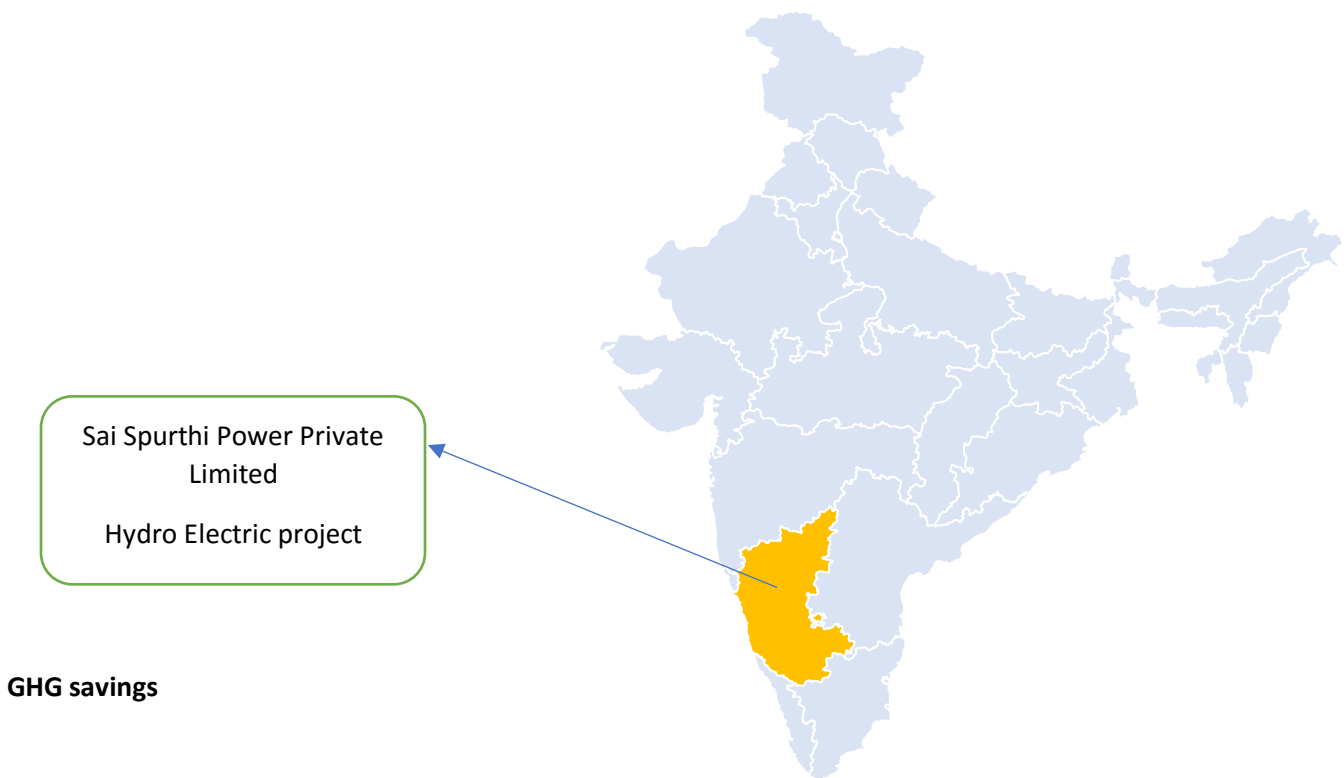
Project 3	Hemavathy Power & Light Private Limited
Capacity in MW	24
State	Karnataka



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.06240014

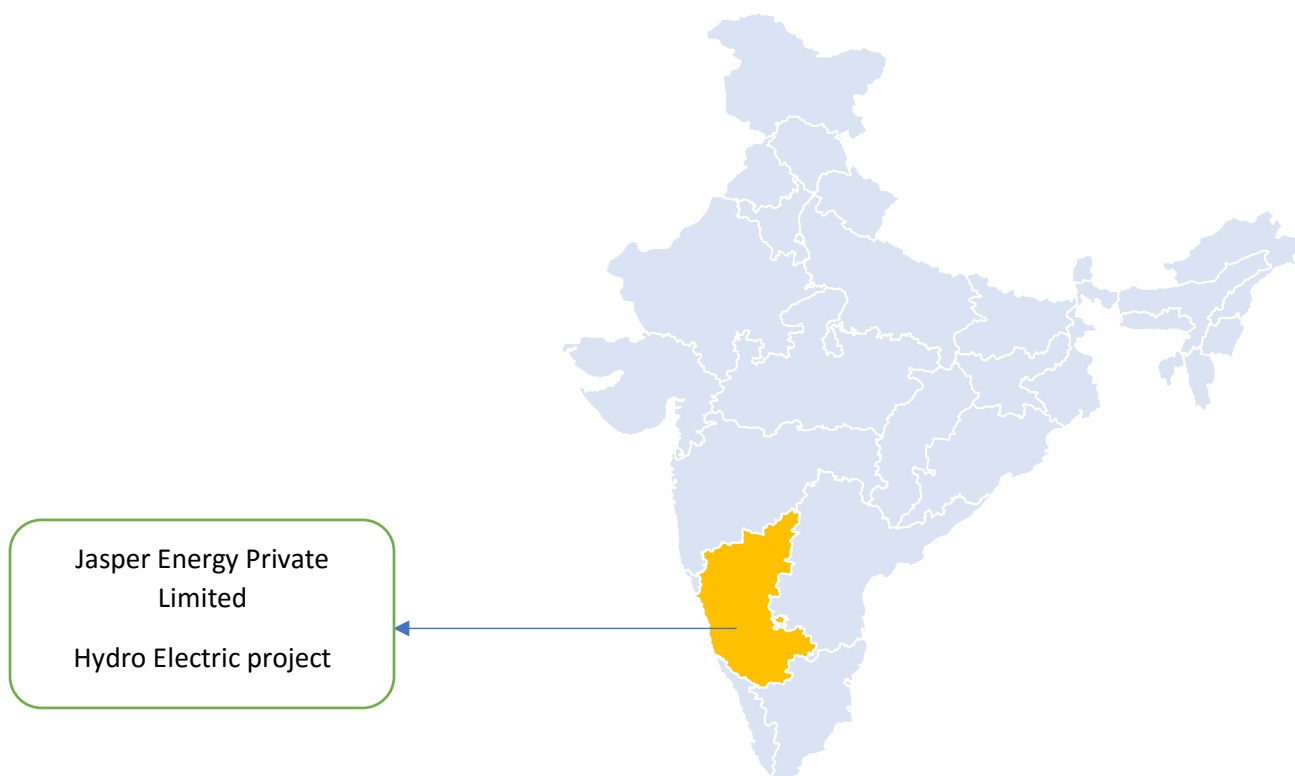
Project 4	Sai Spurthi Power Private Limited
Capacity in MW	10.50
State	Karnataka



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.028992166

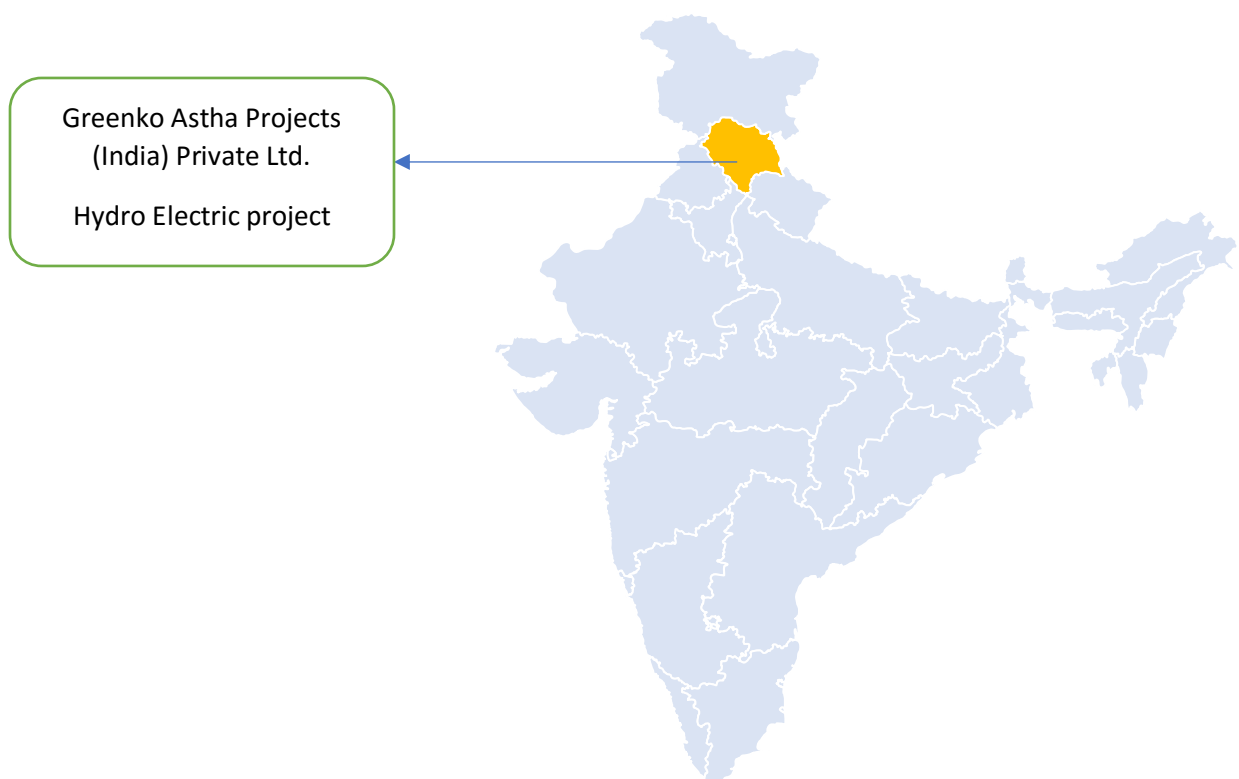
Project 5	Jasper Energy Private Limited
Capacity in MW	10.50
State	Karnataka



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.012914508

Project 6	Greenko Astha Projects (India) Private Limited
Capacity in MW	10
State	Himachal Pradesh

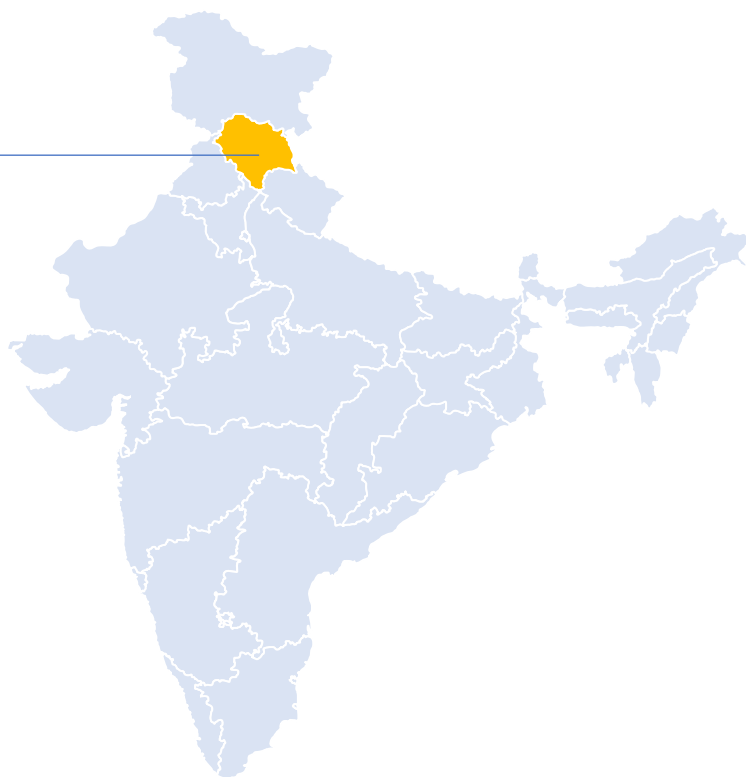


GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.049714926

Project 7	Greenko Him Kailash Hydro Power Private Limited
Capacity in MW	5
State	Himachal Pradesh

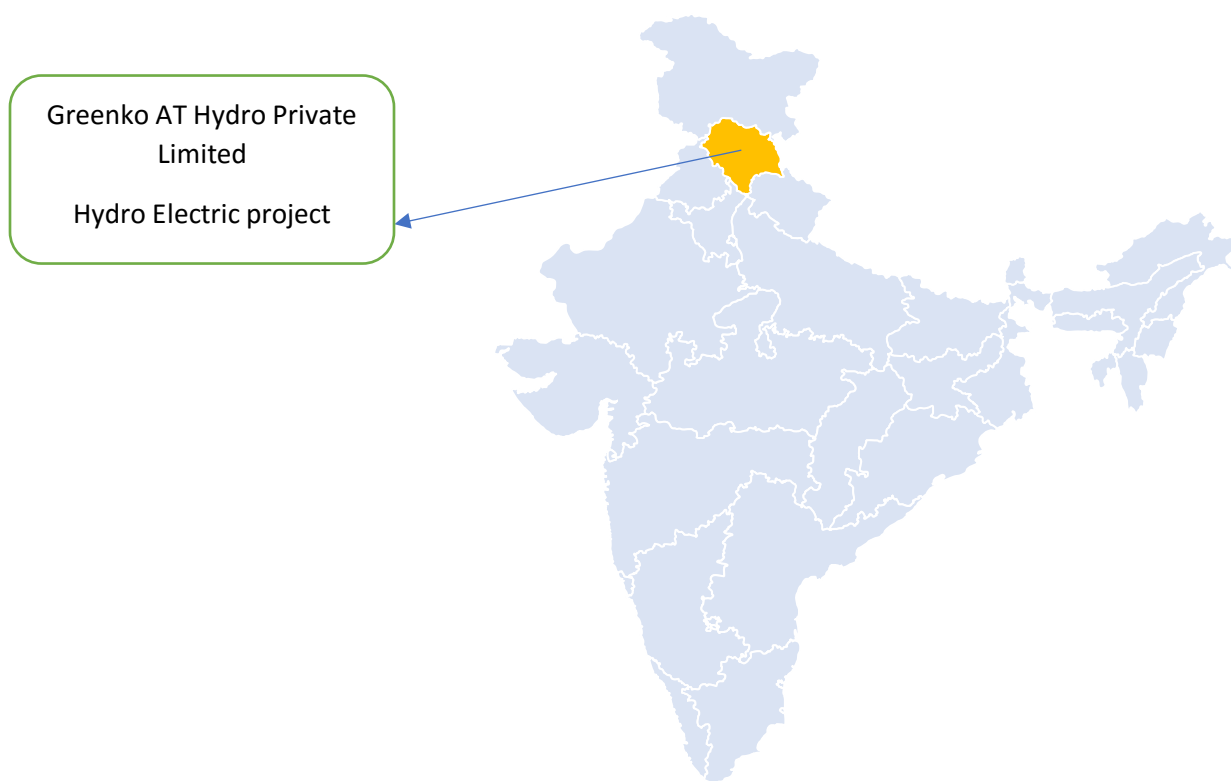
Greenko Him Kailash Hydro Power
Private Limited
Hydro Electric project



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.020140512

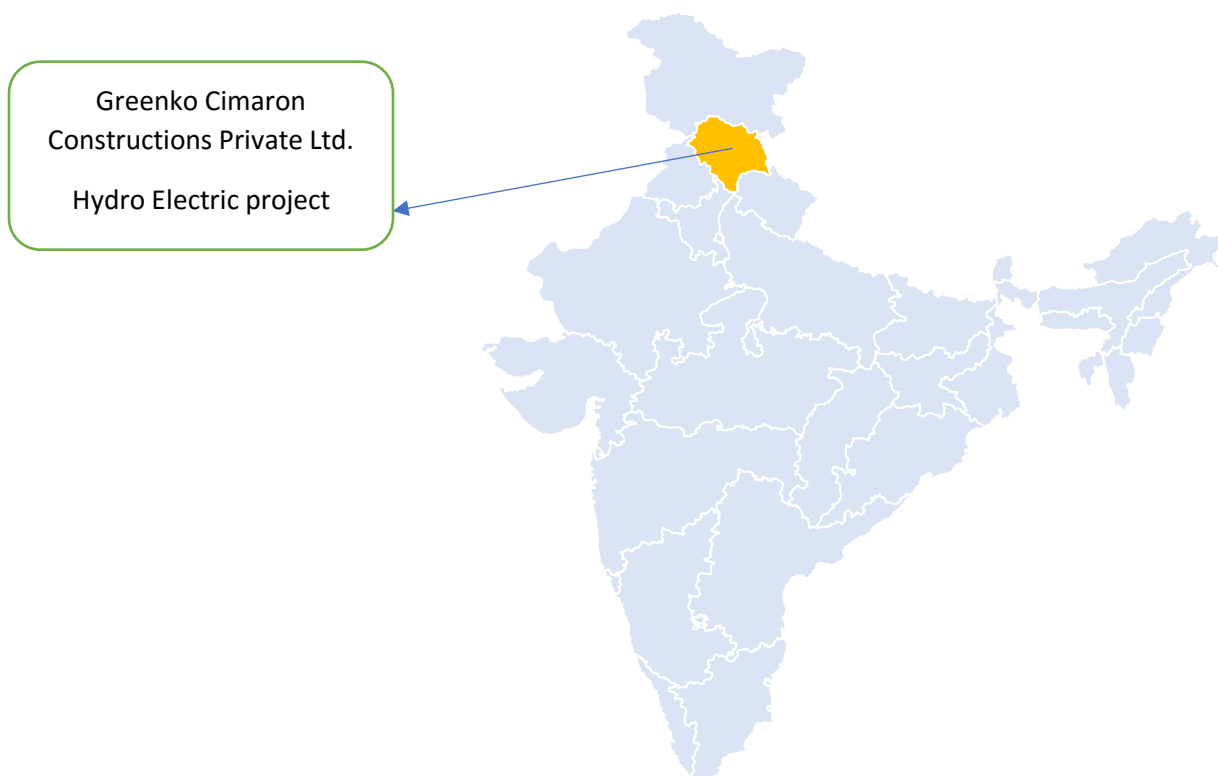
Project 8	Greenko AT Hydro Private Limited
Capacity in MW	5
State	Himachal Pradesh



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.020105447

Project 9	Greenko Cimarón Constructions Private Limited
Capacity in MW	5
State	Himachal Pradesh



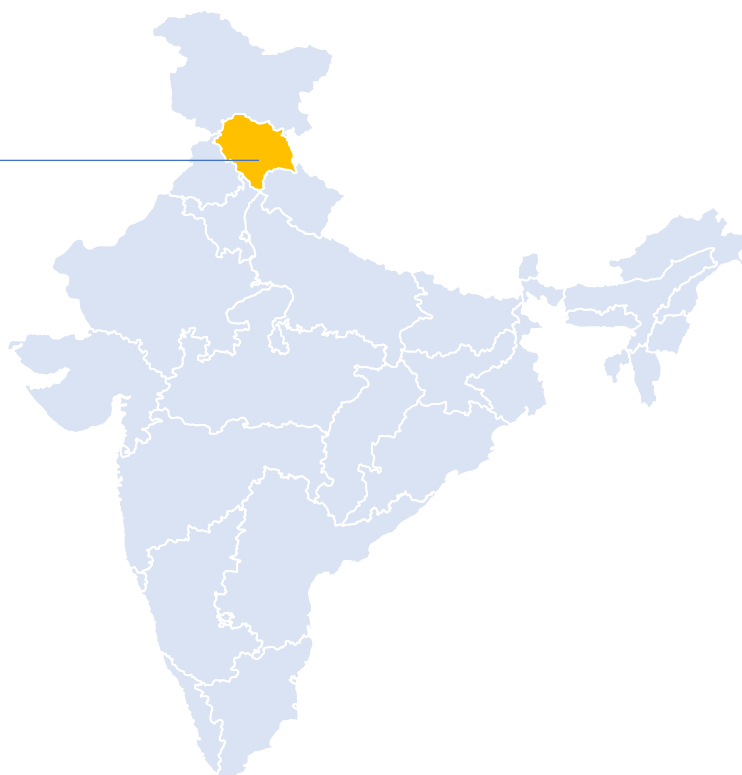
GHG savings

Year	GHG avoided in Million tCO ₂
2019-20	0.027940344

Project 10	Greenko Tarela Power Private Limited
Capacity in MW	5
State	Himachal Pradesh

Greenko Tarela Power
Private Limited

Hydro Electric project

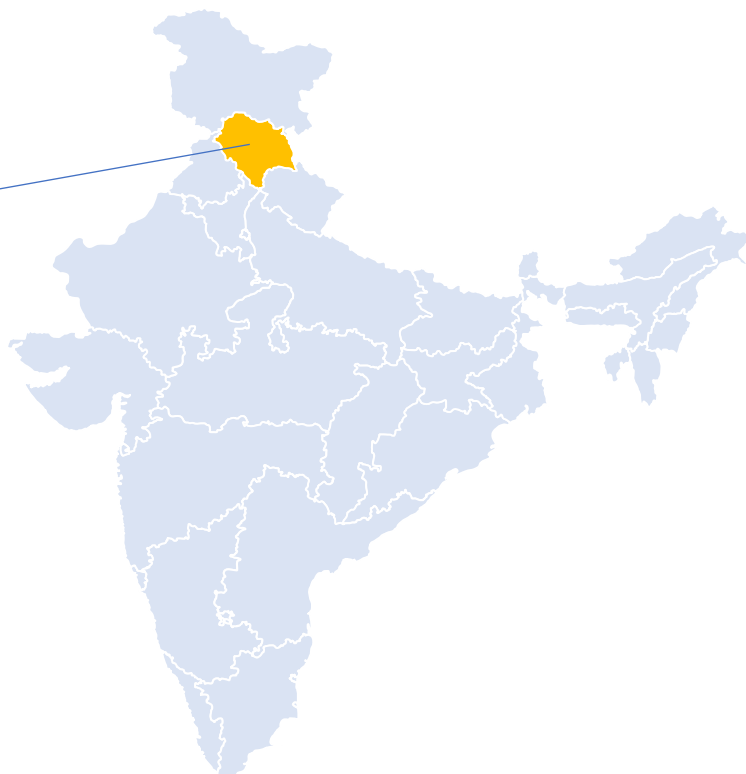


GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.026262525

Project 11	Greenko Tejassarnika Hydro Energies Private Limited
Capacity in MW	12
State	Himachal Pradesh

Greenko Tejassarnika Hydro Energies Private Limited
Hydro Electric project

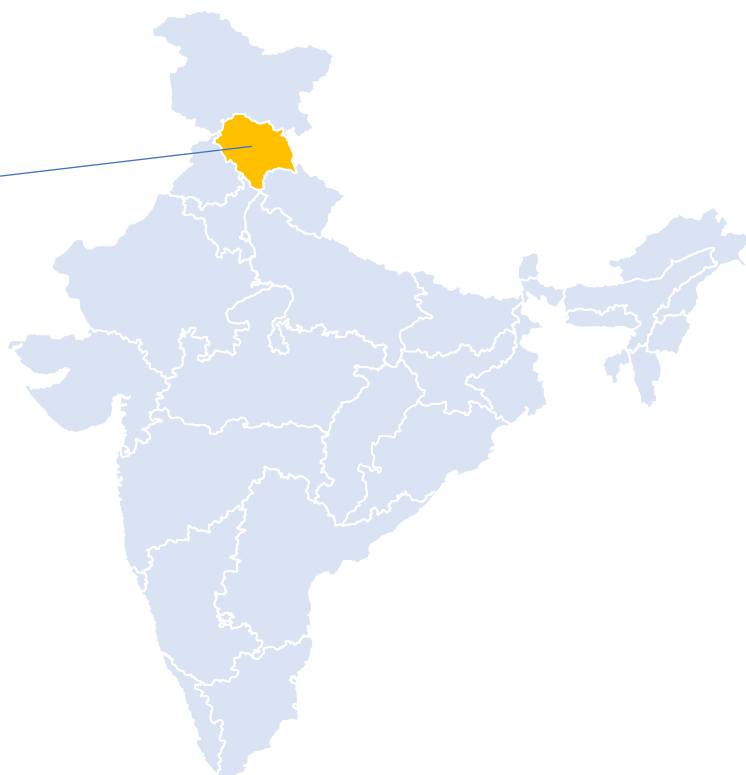


GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.034690469

Project 12	Greenko Sri Sai Krishna Hydro Energies Private Limited
Capacity in MW	10
State	Himachal Pradesh

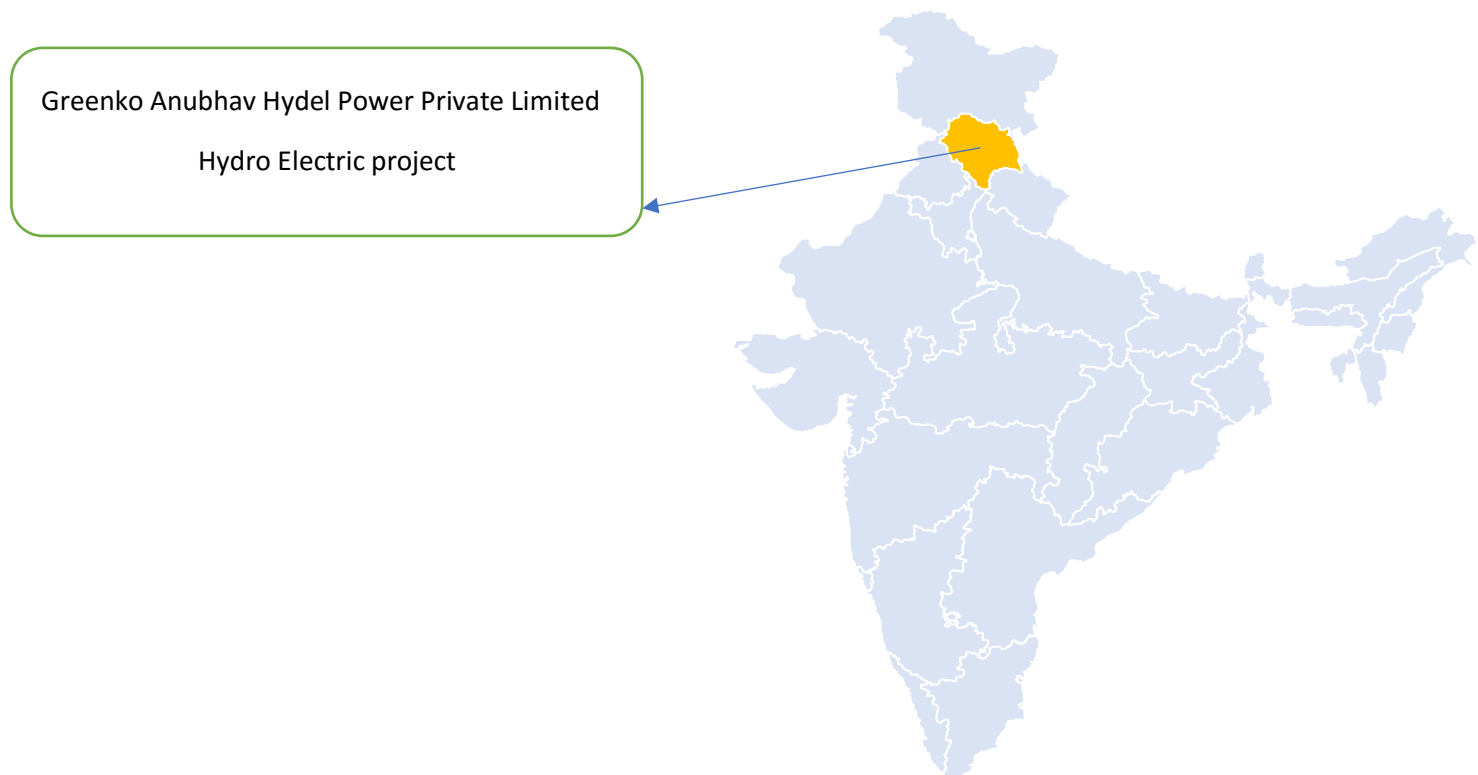
Greenko Sri Sai Krishna Hydro Energies Private Limited
Hydro Electric project



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.045082534

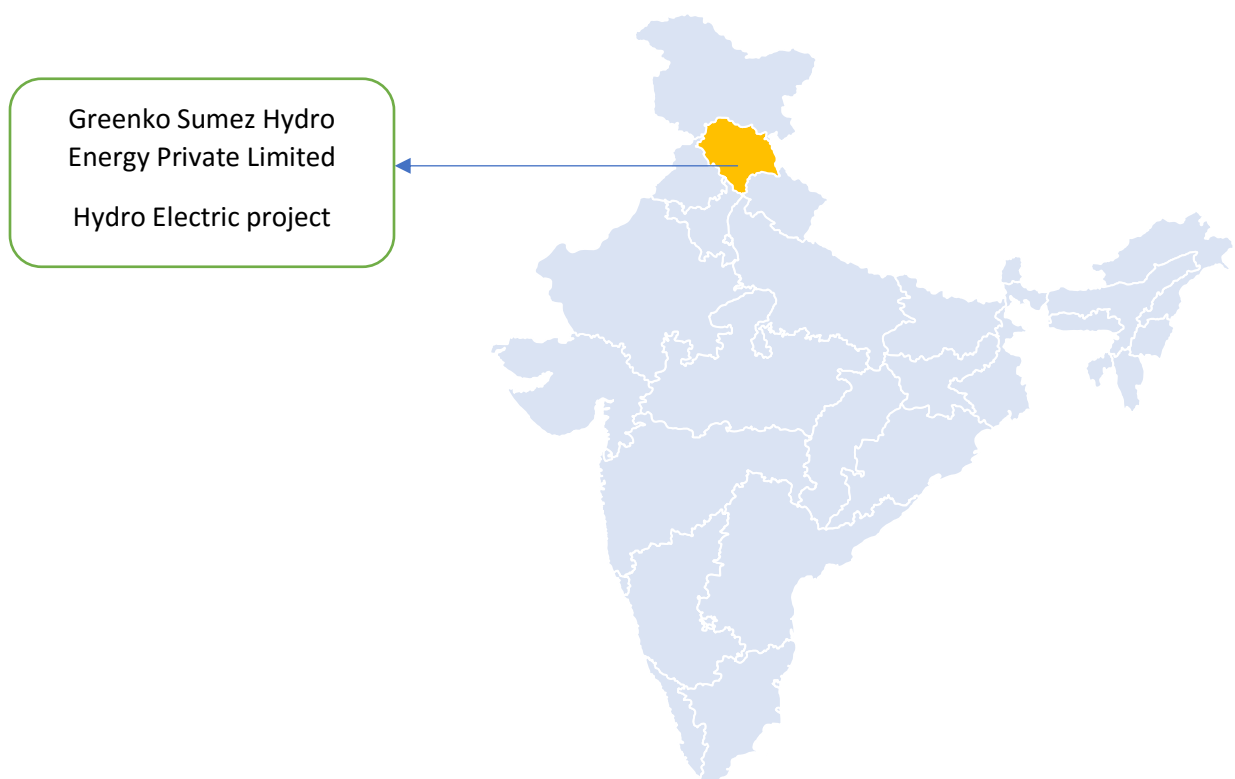
Project 13	Greenko Anubhav Hydel Power Private Limited
Capacity in MW	5
State	Himachal Pradesh



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.021442016

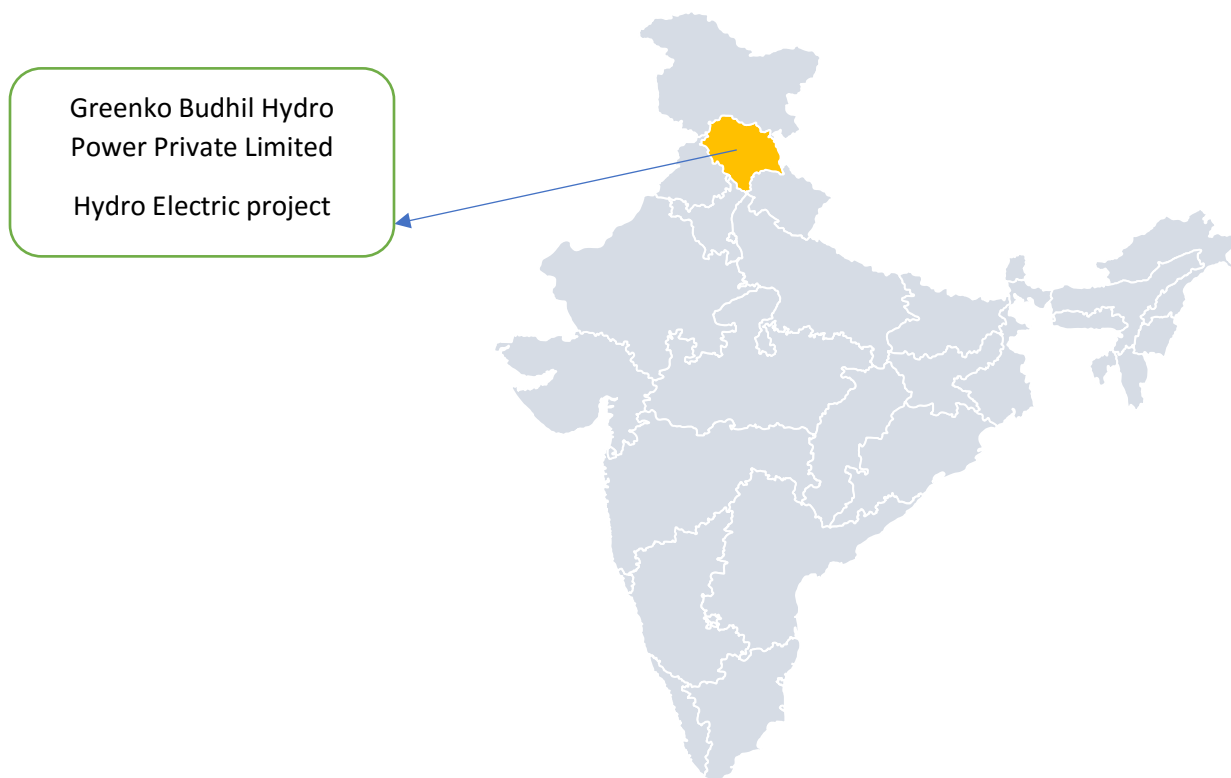
Project 14	Greenko Sumez Hydro Energy Private Limited
Capacity in MW	14
State	Himachal Pradesh



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.049652563

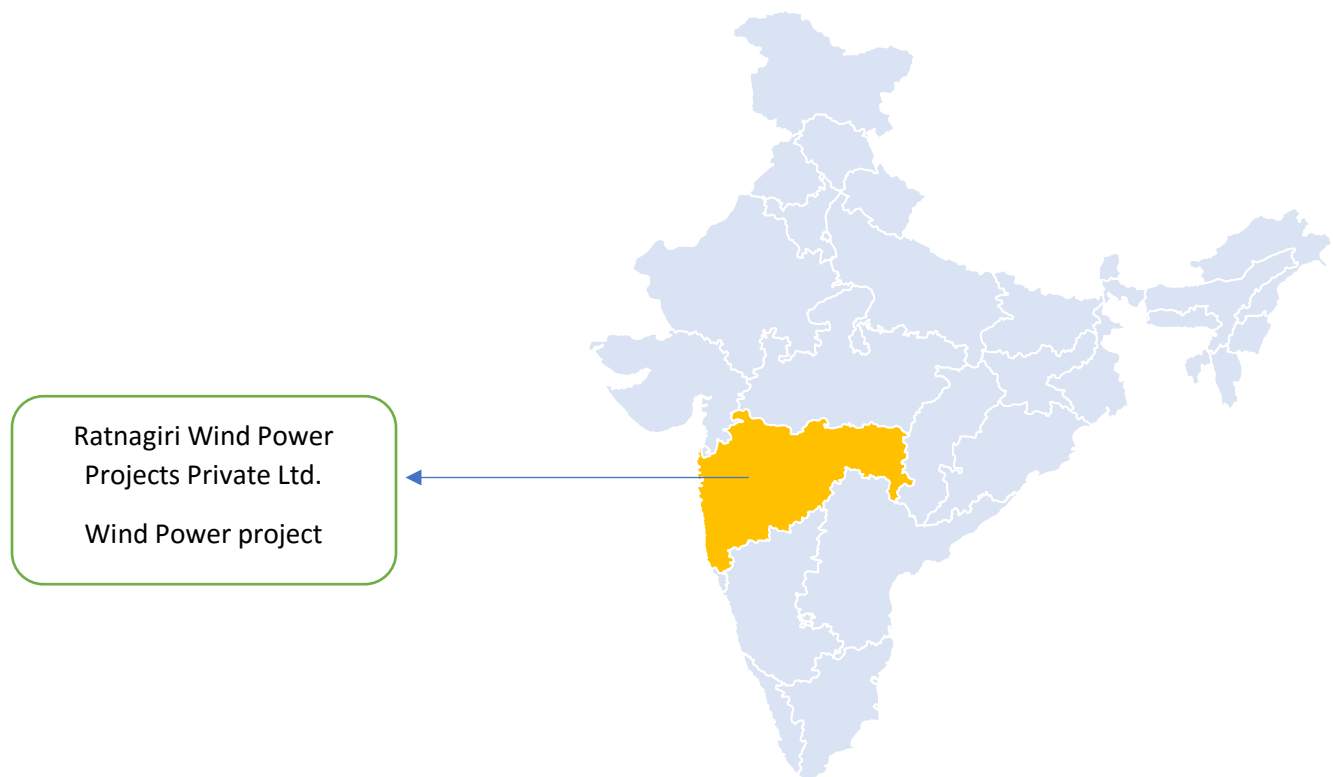
Project 15	Greenko Budhil Hydro Power Private Limited
Capacity in MW	70
State	Himachal Pradesh



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.232543074

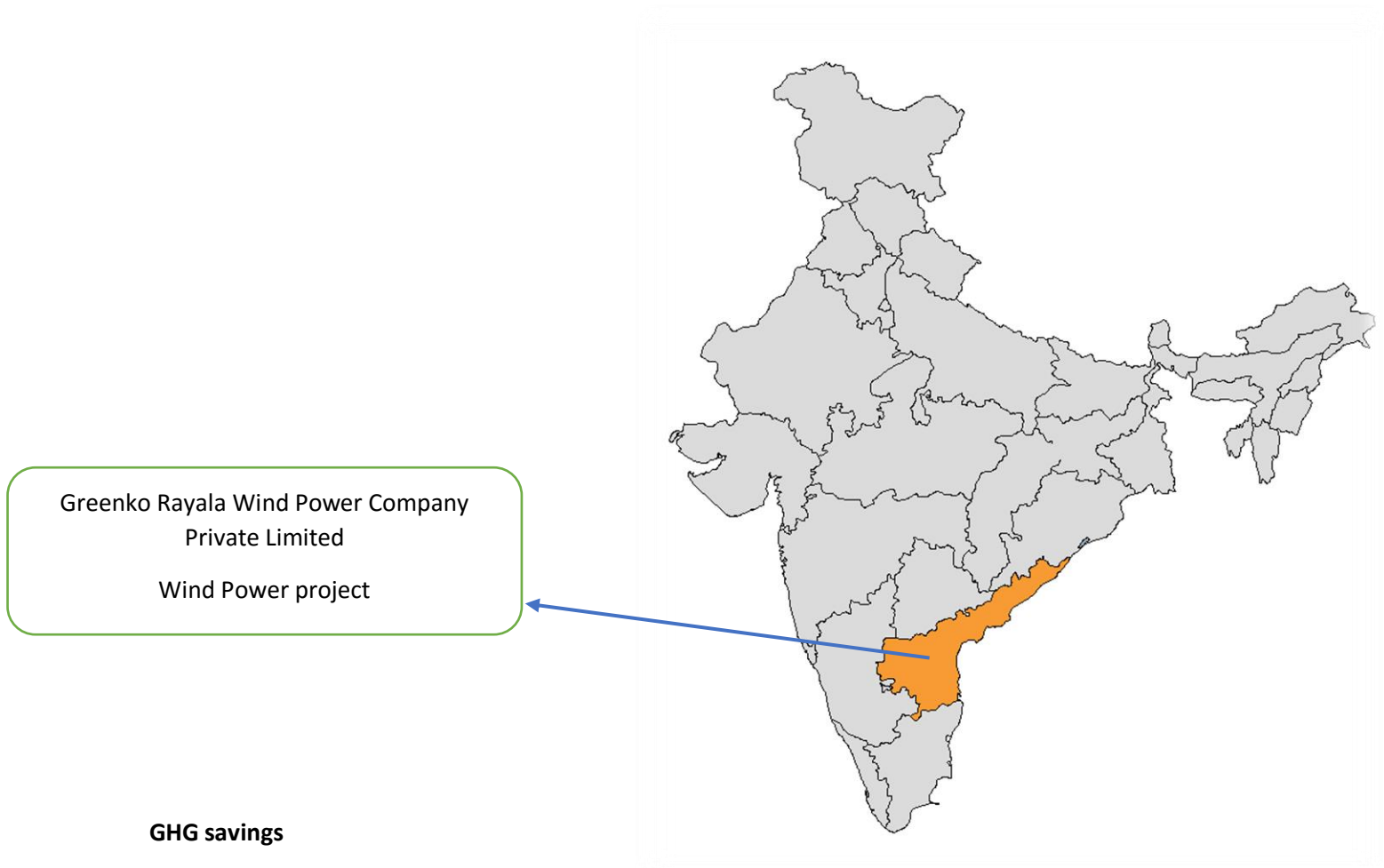
Project 16	Ratnagiri Wind Power Projects Private Limited
Capacity in MW	101.60
State	Maharashtra



GHG savings

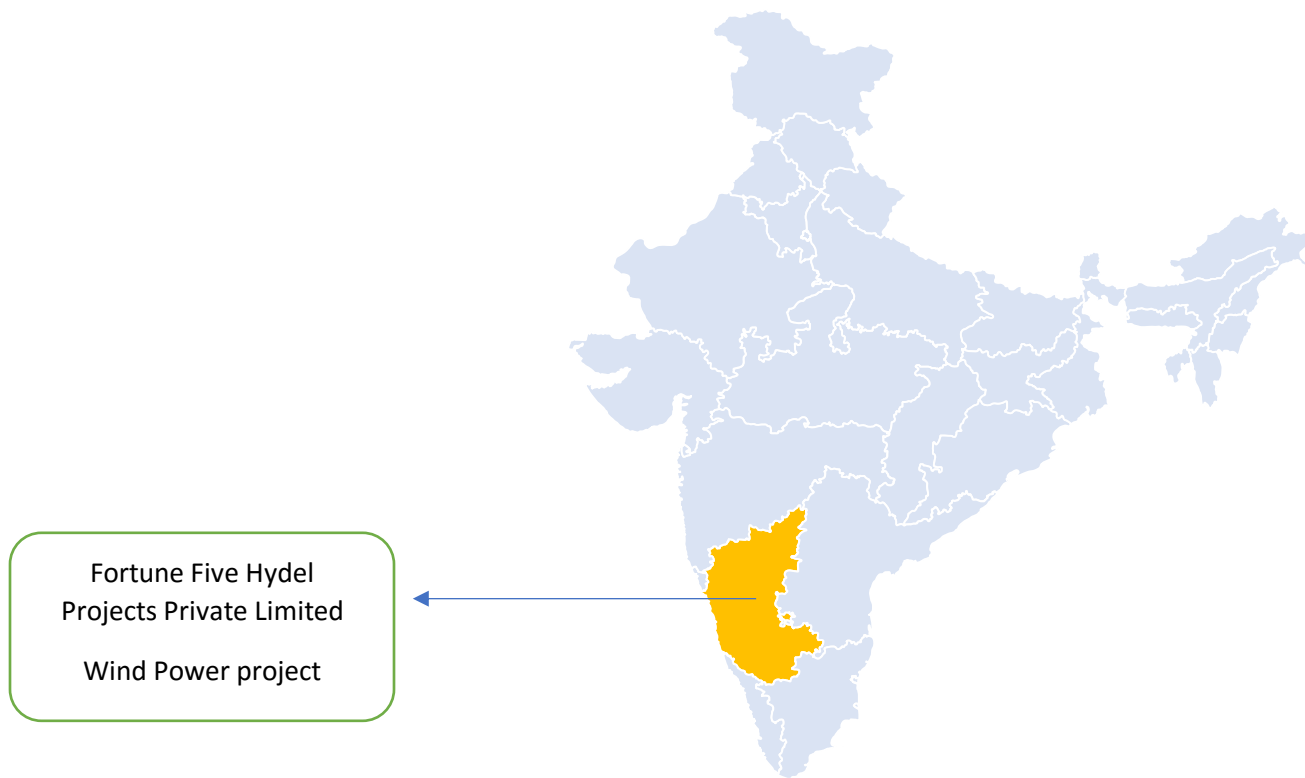
Year	GHG avoided in Million tCO2
2019-20	0.1581452

Project 17	Greenko Rayala Wind Power Private Limited
Capacity in MW	159.20
State	Andhra Pradesh



Year	GHG avoided in Million tCO2
2019-20	0.303318

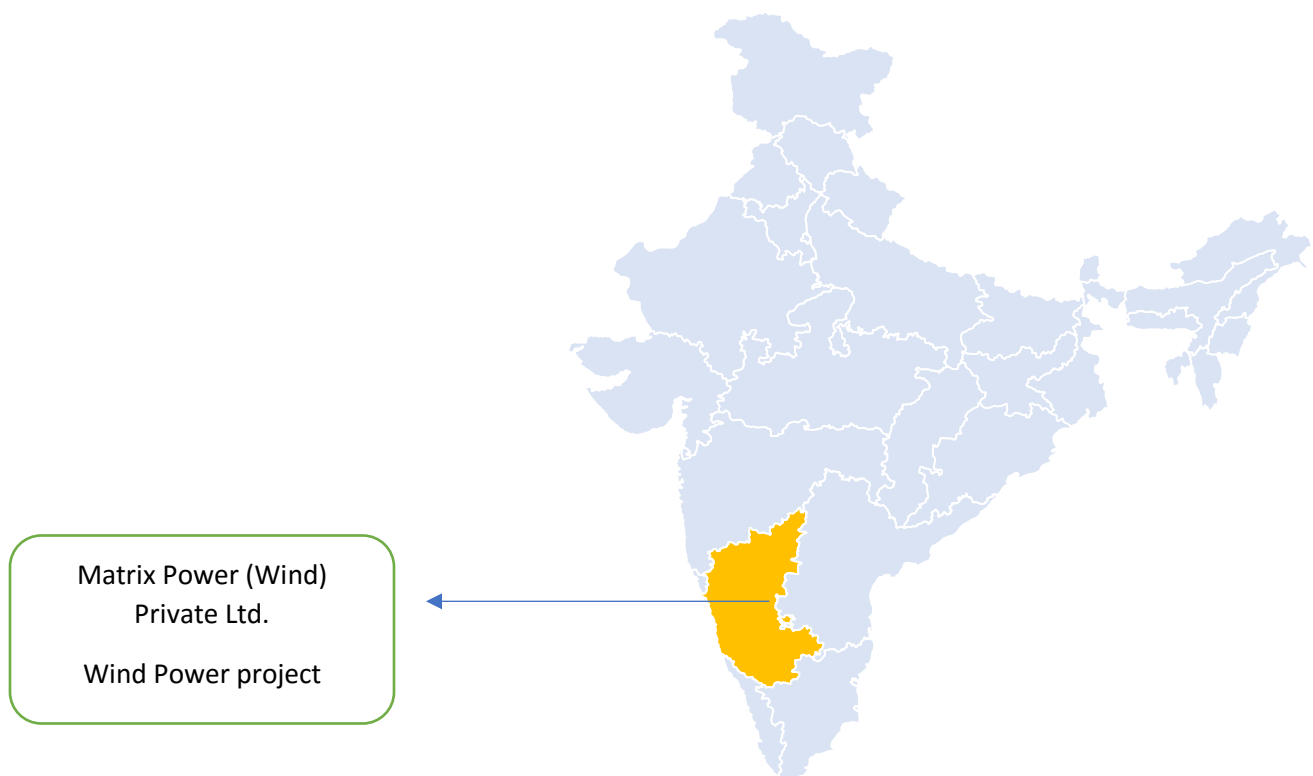
Project 18	Fortune Five Hydel Projects Private Limited
Capacity in MW	101.20
State	Karnataka



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.322424

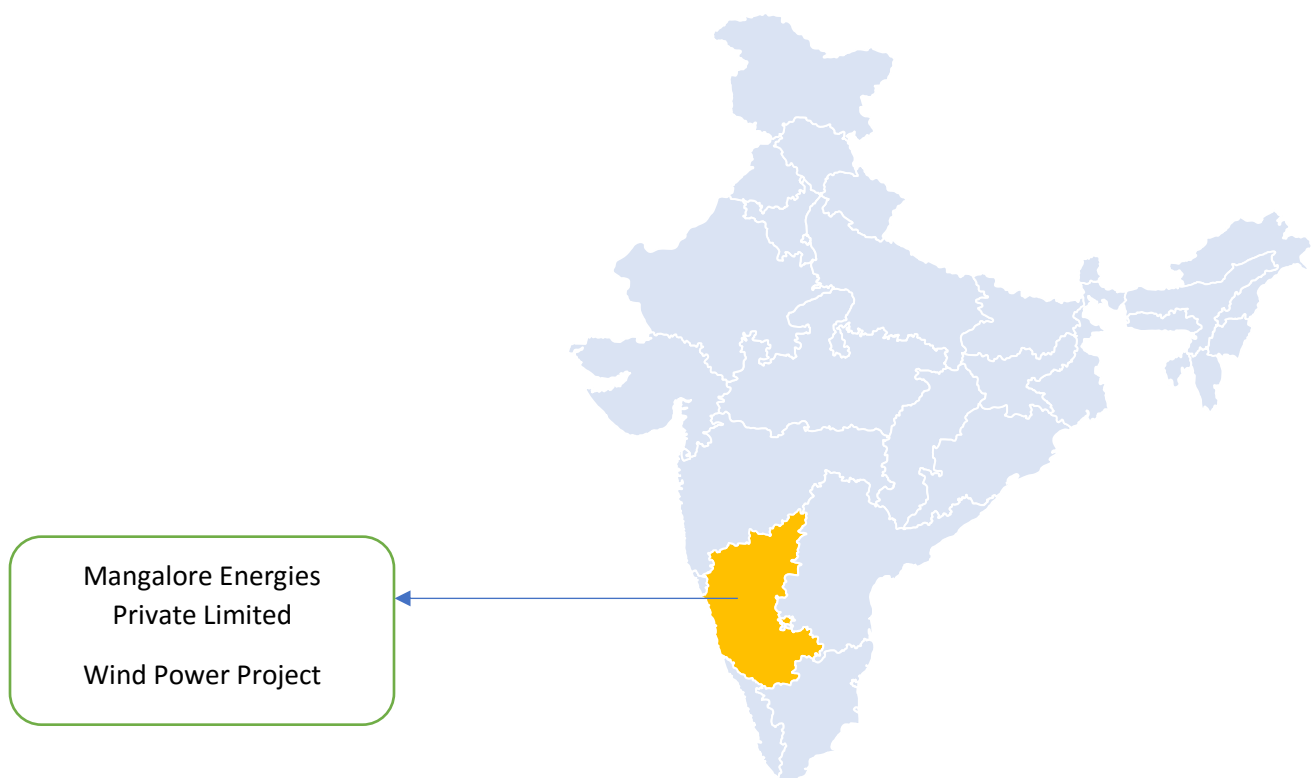
Project 19	Matrix Power (Wind) Private Limited
Capacity in MW	15
State	Karnataka



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.0324556

Project 20	Mangalore Energies Private Limited
Capacity in MW	15
State	Karnataka

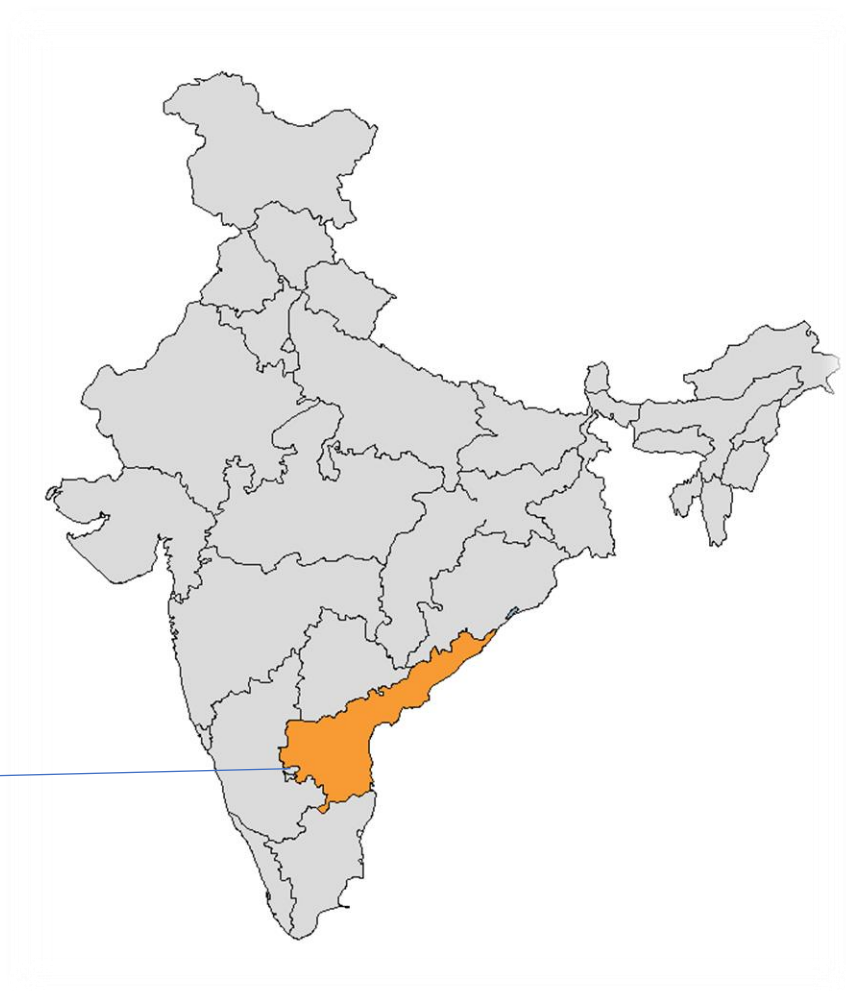


GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.0316274

Project 21	Poly Solar Park Private Limited
Capacity in MW	24
State	Andhra Pradesh

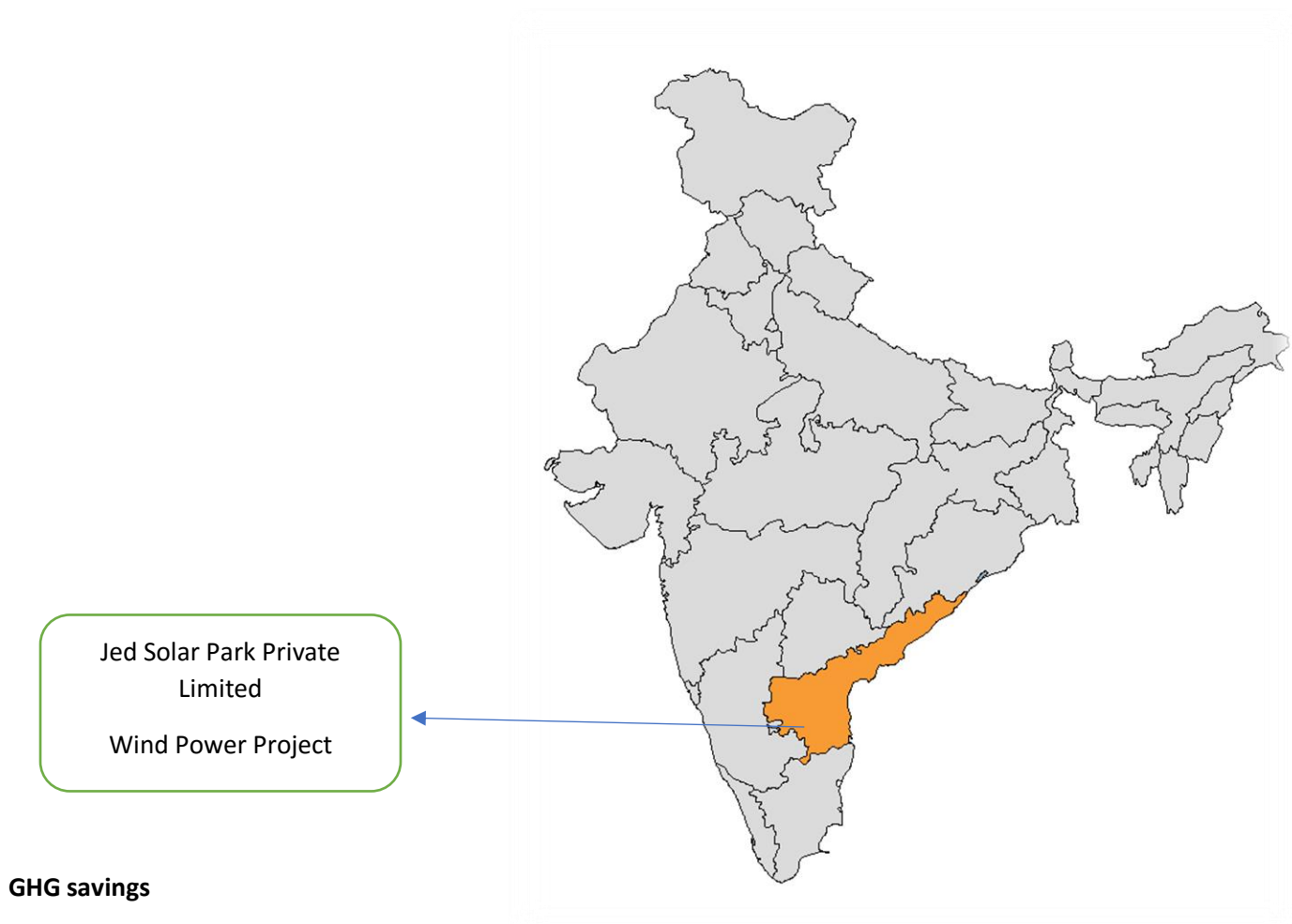
Poly Solar Park Private
Limited
Wind Power Project



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.0502742

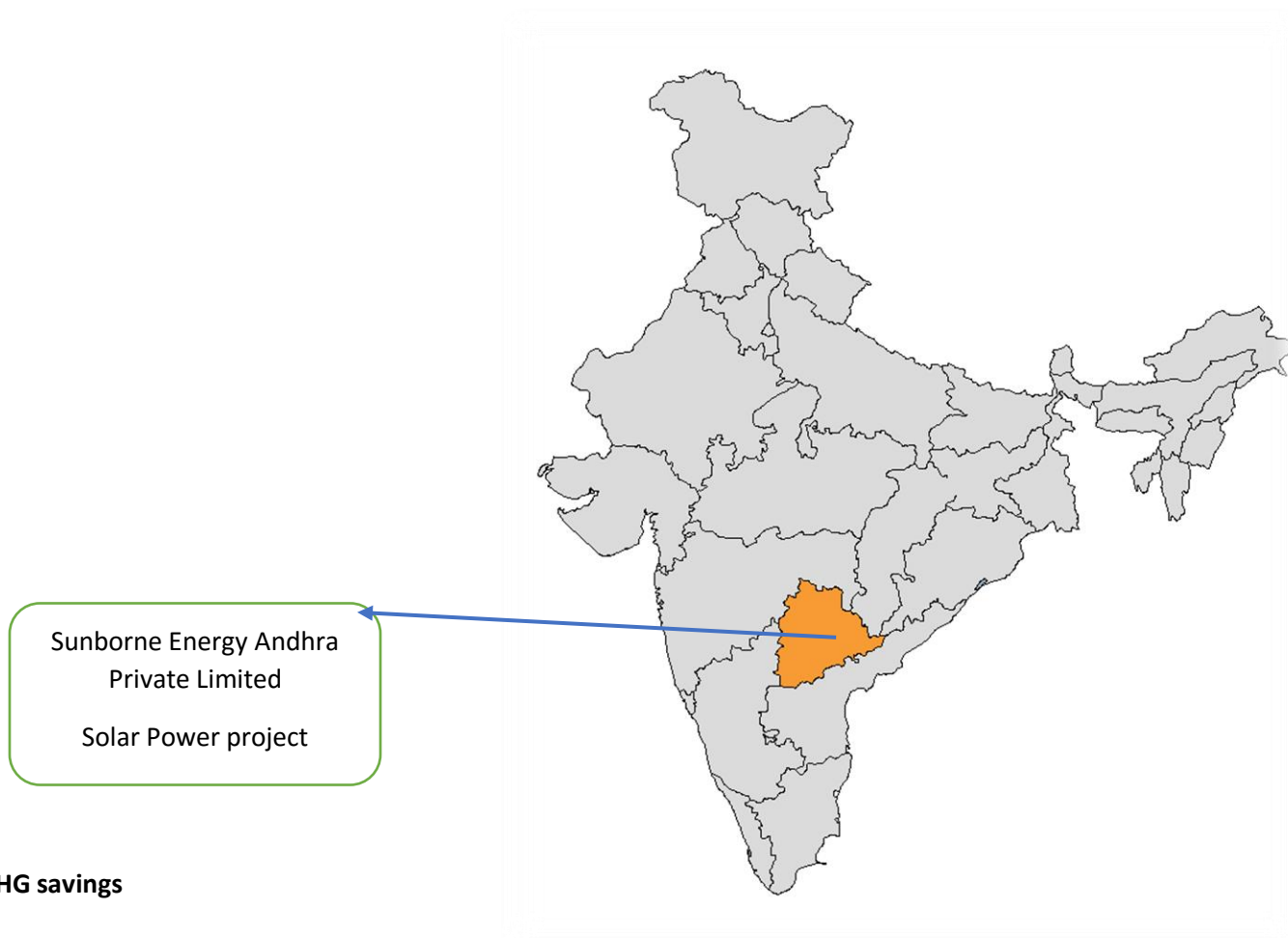
Project 22	Jed Solar Park Private Limited
Capacity in MW	24
State	Andhrapradesh



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.05002

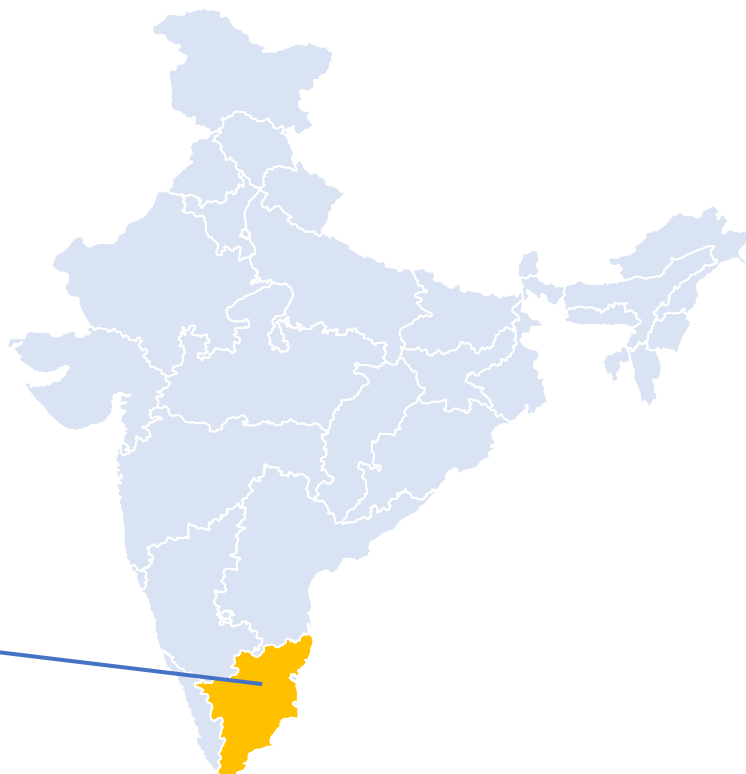
Project 23	Sunborne Energy Andhra Private Limited
Capacity in MW	35
State	Telangana



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.057213323

Project 24	SEI Phoebus Private Limited
Capacity in MW	50
State	Tamil Nadu

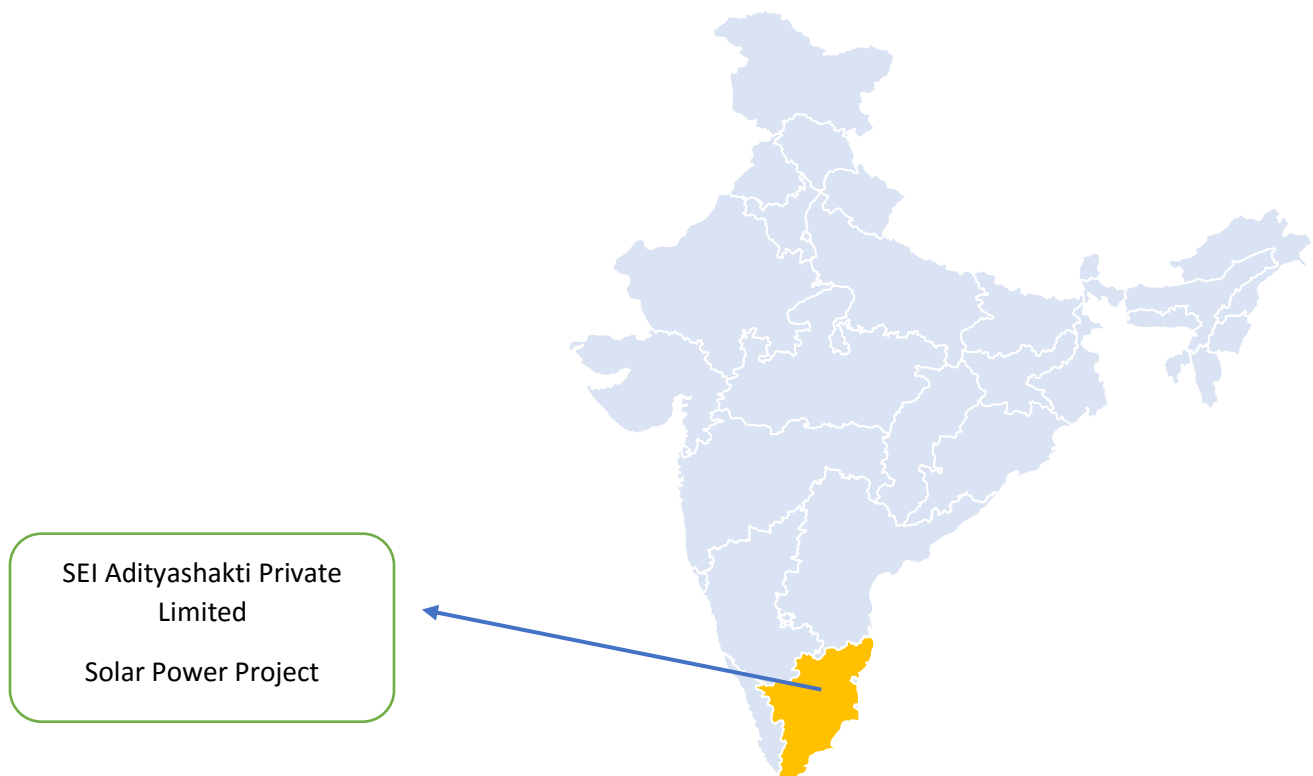


SEI Phoebus Private Limited
Solar Power Project

GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.08149229

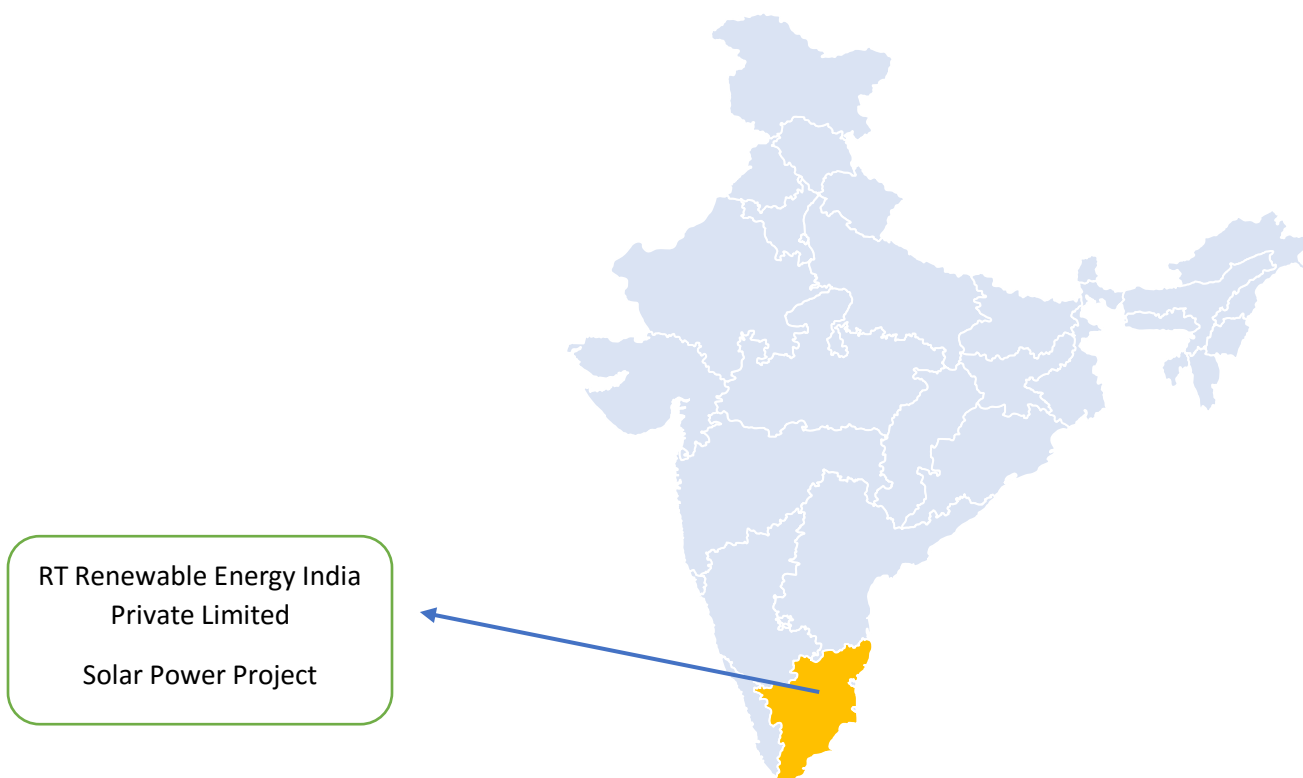
Site Name 25	SEI Adityashakti Private Limited
Capacity in MW	10
State	Tamil Nadu



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.017171292

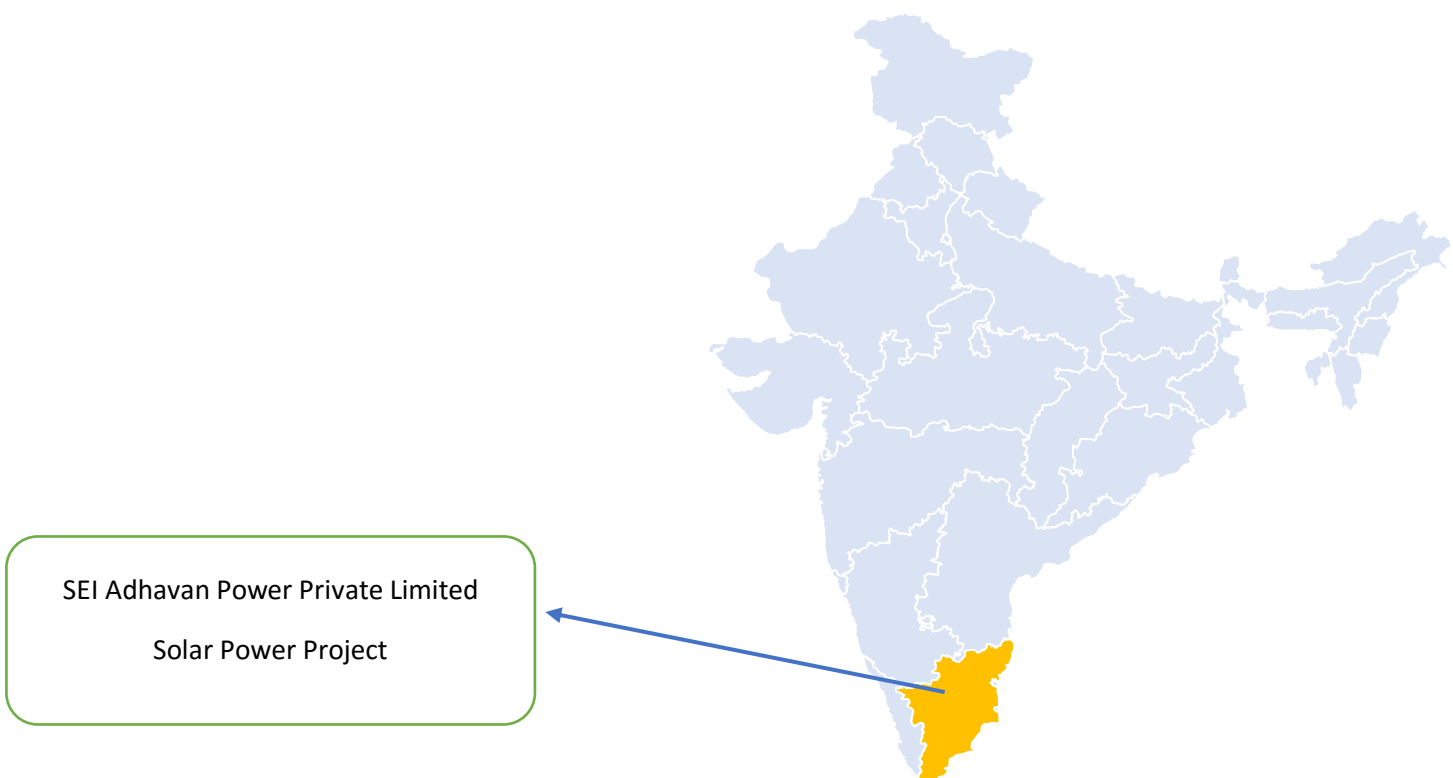
Project 26	RT Renewable Energy India Private Limited
Capacity in MW	15
State	Tamil Nadu



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.024530825

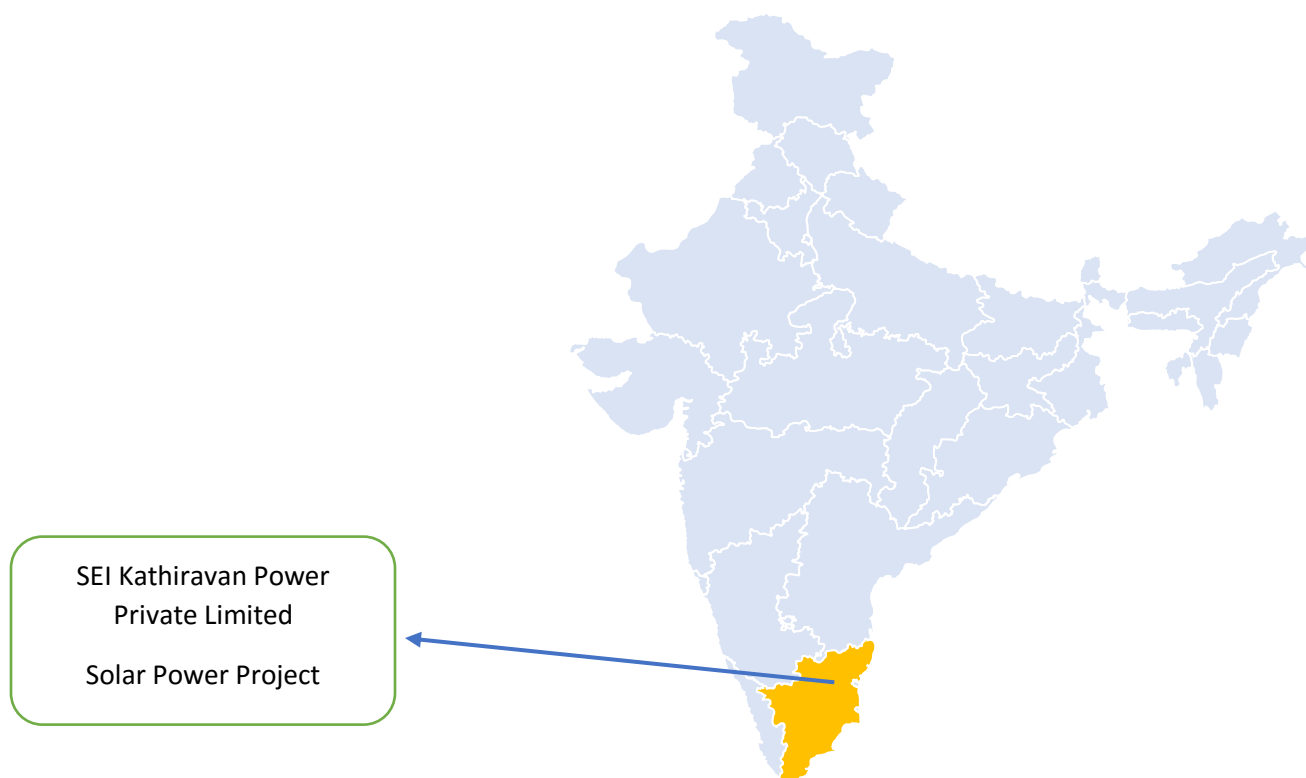
Project 27	SEI Adhavan Power Private Limited
Capacity in MW	50
State	Tamil Nadu



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.0767274

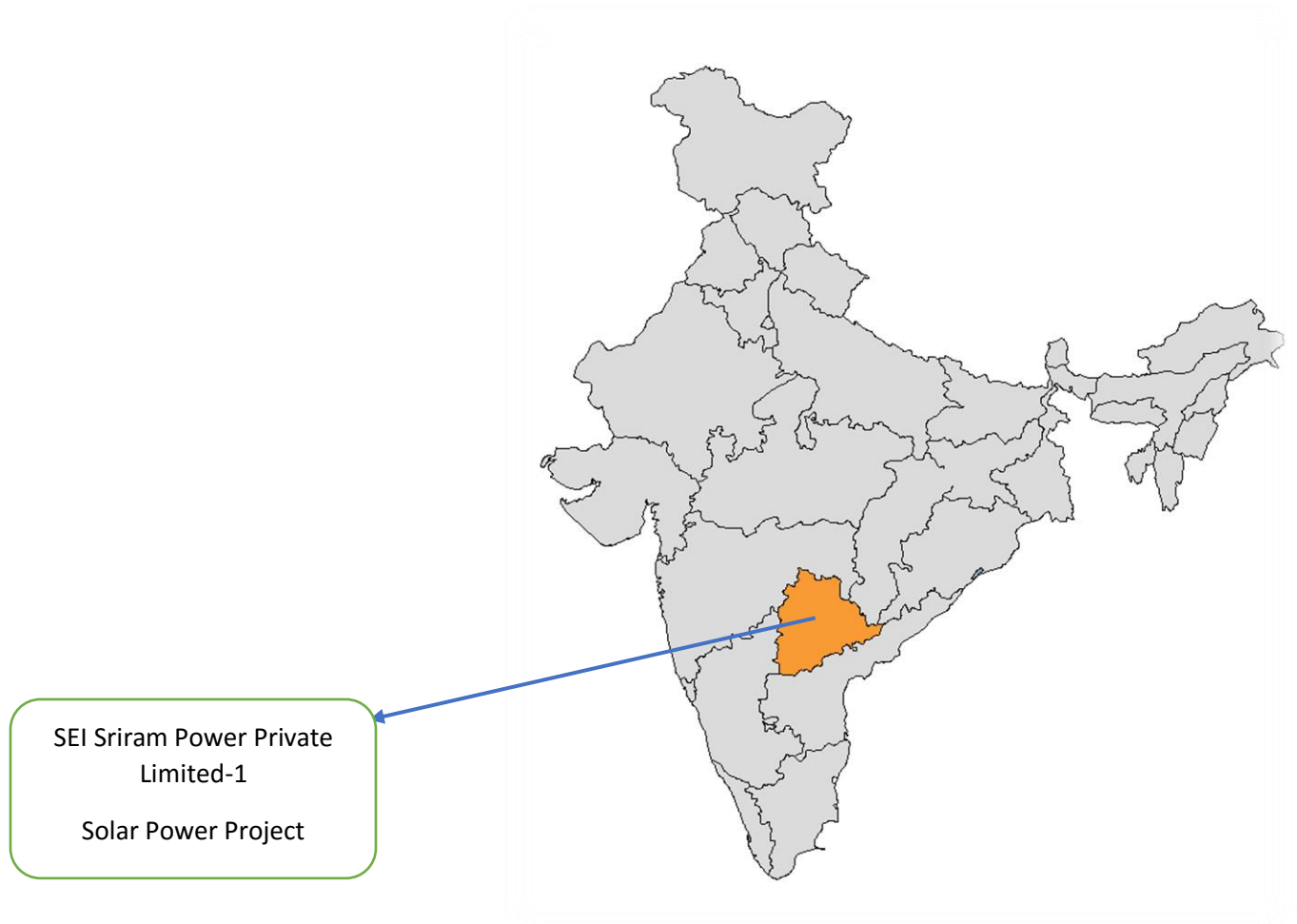
Project 28	SEI Kathiravan Power Private Limited
Capacity in MW	50
State	Tamil Nadu



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.0805102

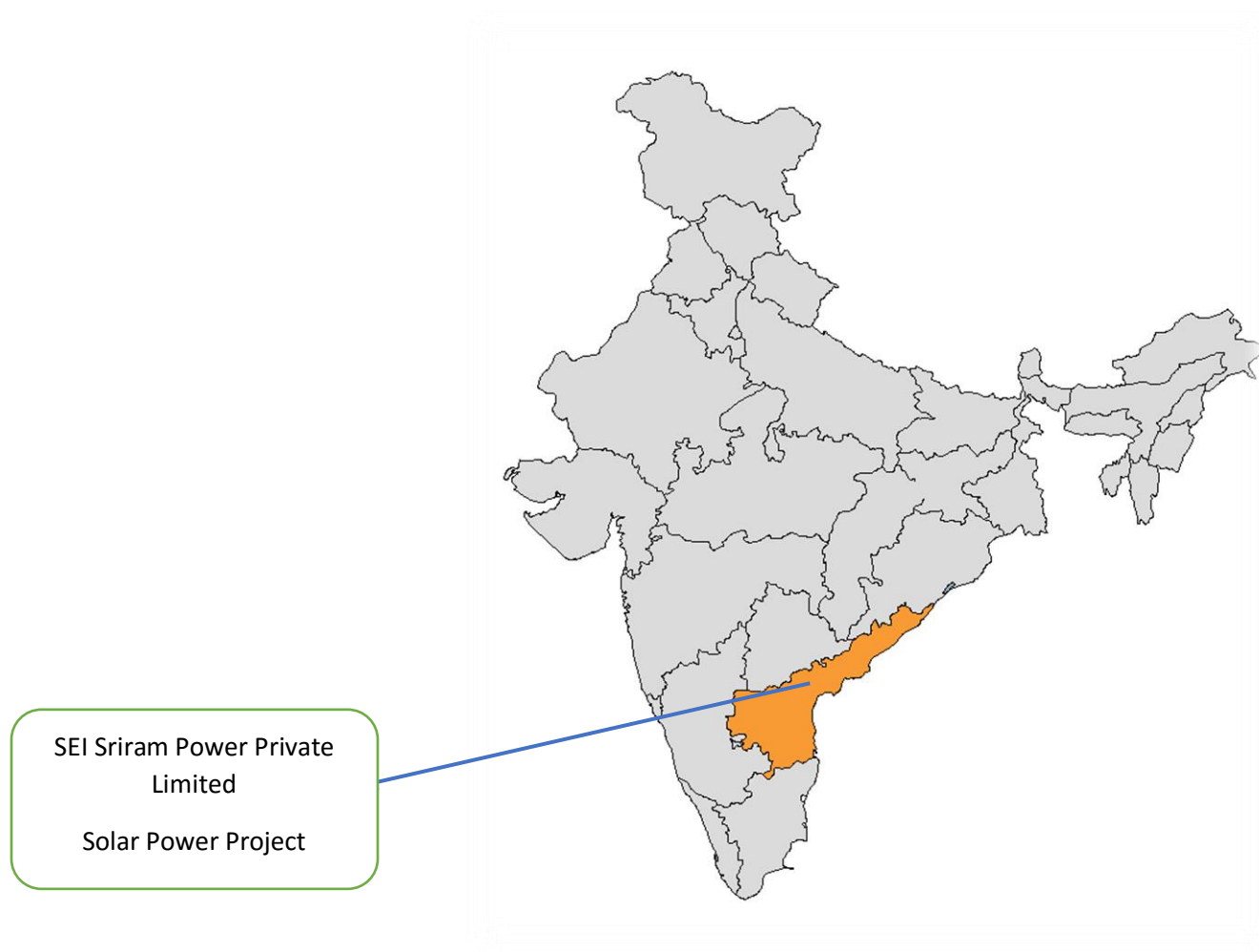
Project 29	SEI Sriram Power Private Limited -1
Capacity in MW	20
State	Telangana



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.021894

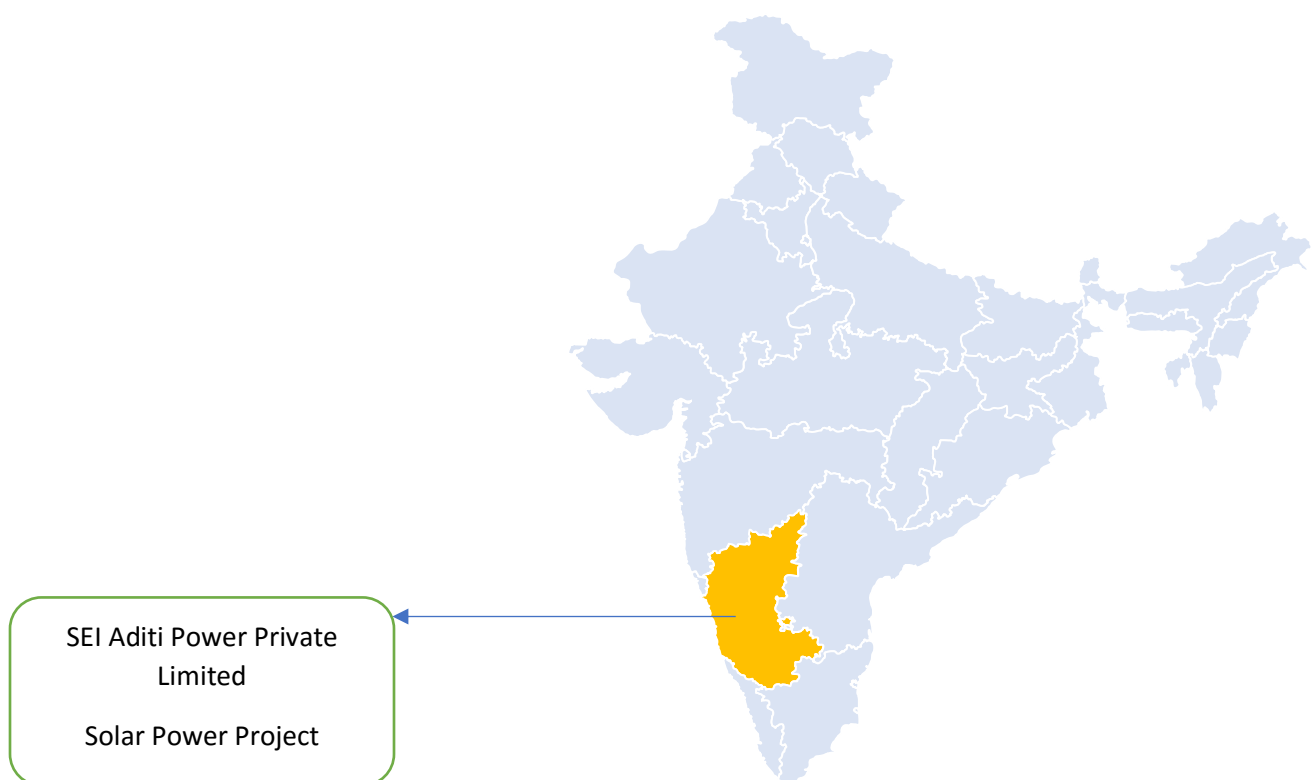
Project 30	SEI Sriram Power Private Limited -2
Capacity in MW	19.4
State	Andhra Pradesh



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.021238

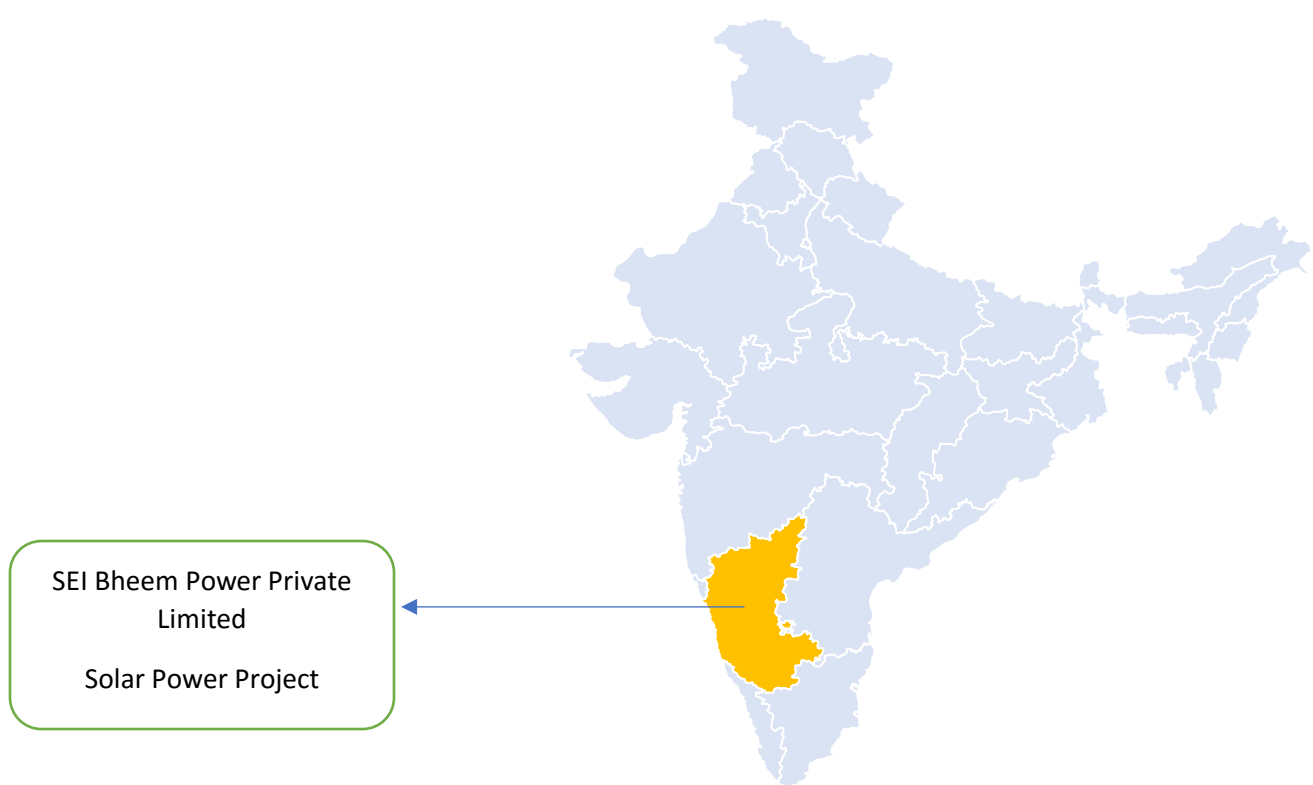
Project 31	SEI Aditi Power Private Limited
Capacity in MW	30
State	Karnataka



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.042630787

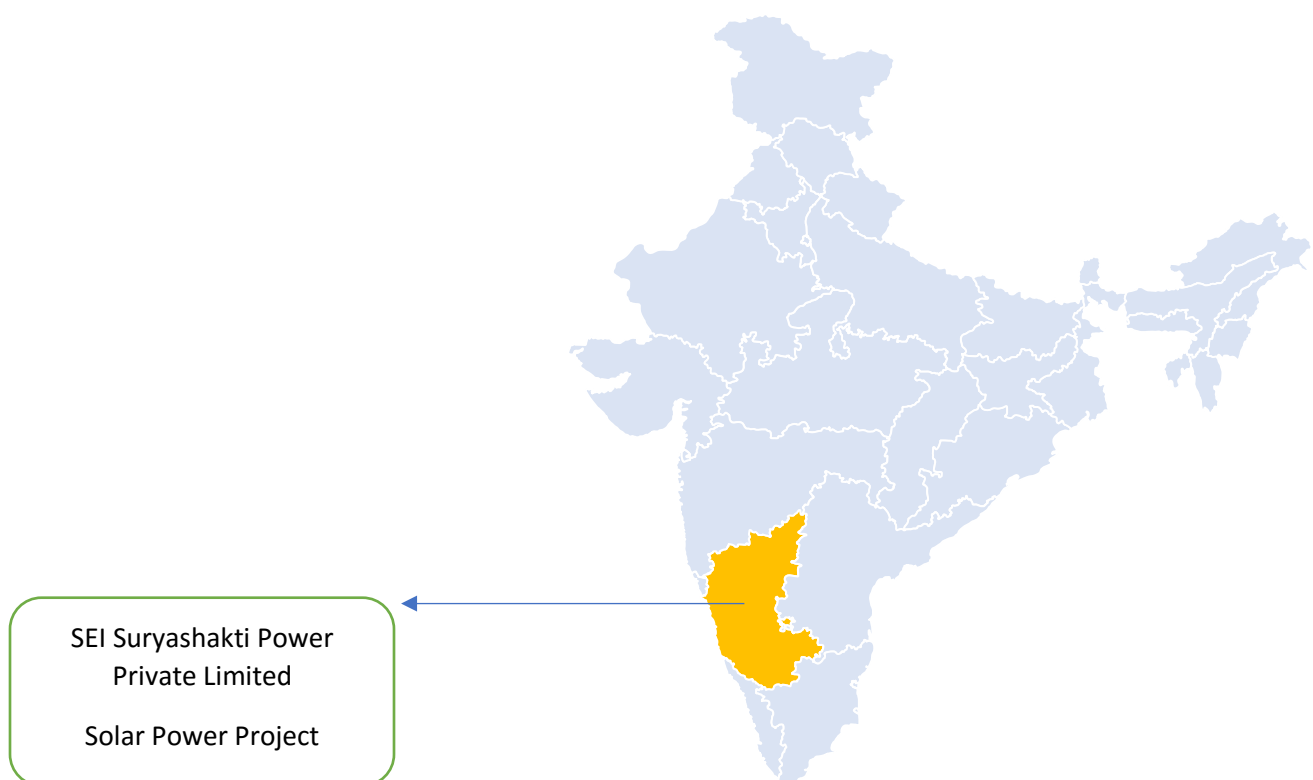
Project 32	SEI Bheem Private Limited
Capacity in MW	30
State	Karnataka



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.04489992

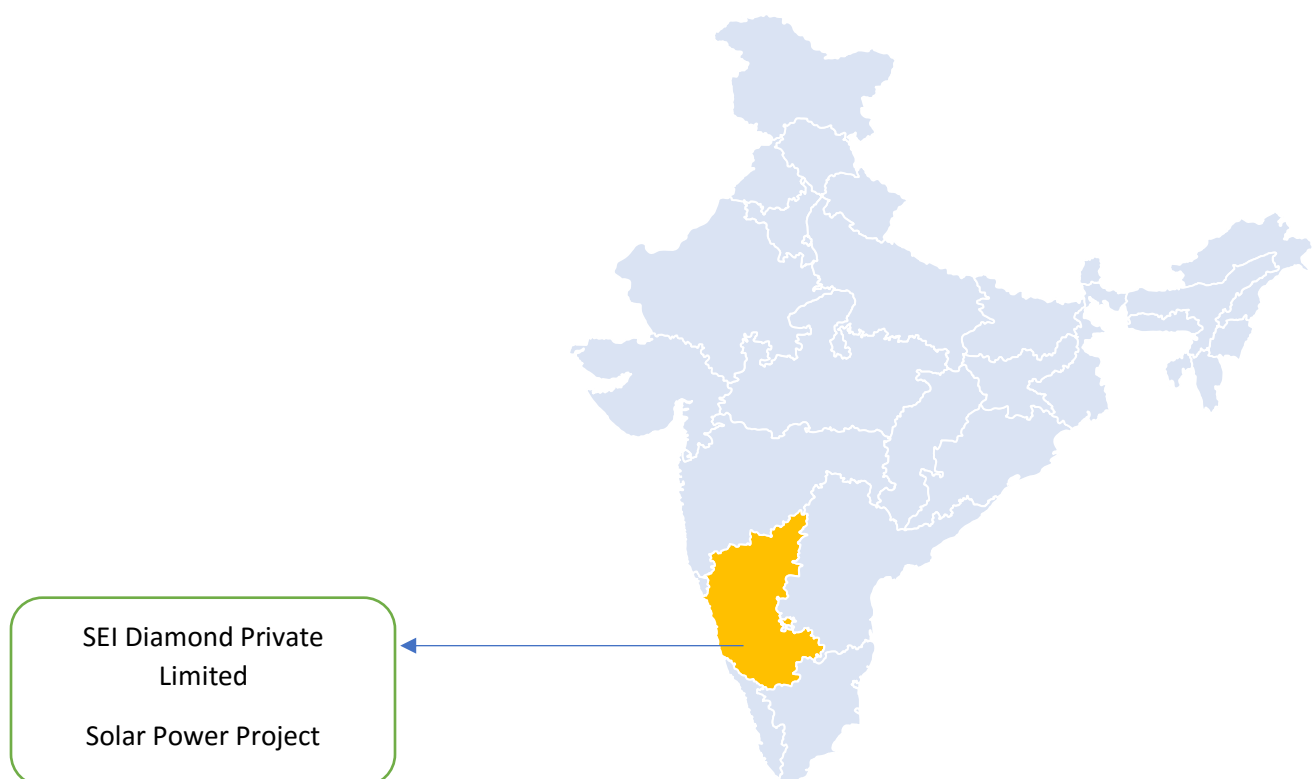
Project 33	SEI Suryashakti Power Private Limited
Capacity in MW	30
State	Karnataka



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.045360353

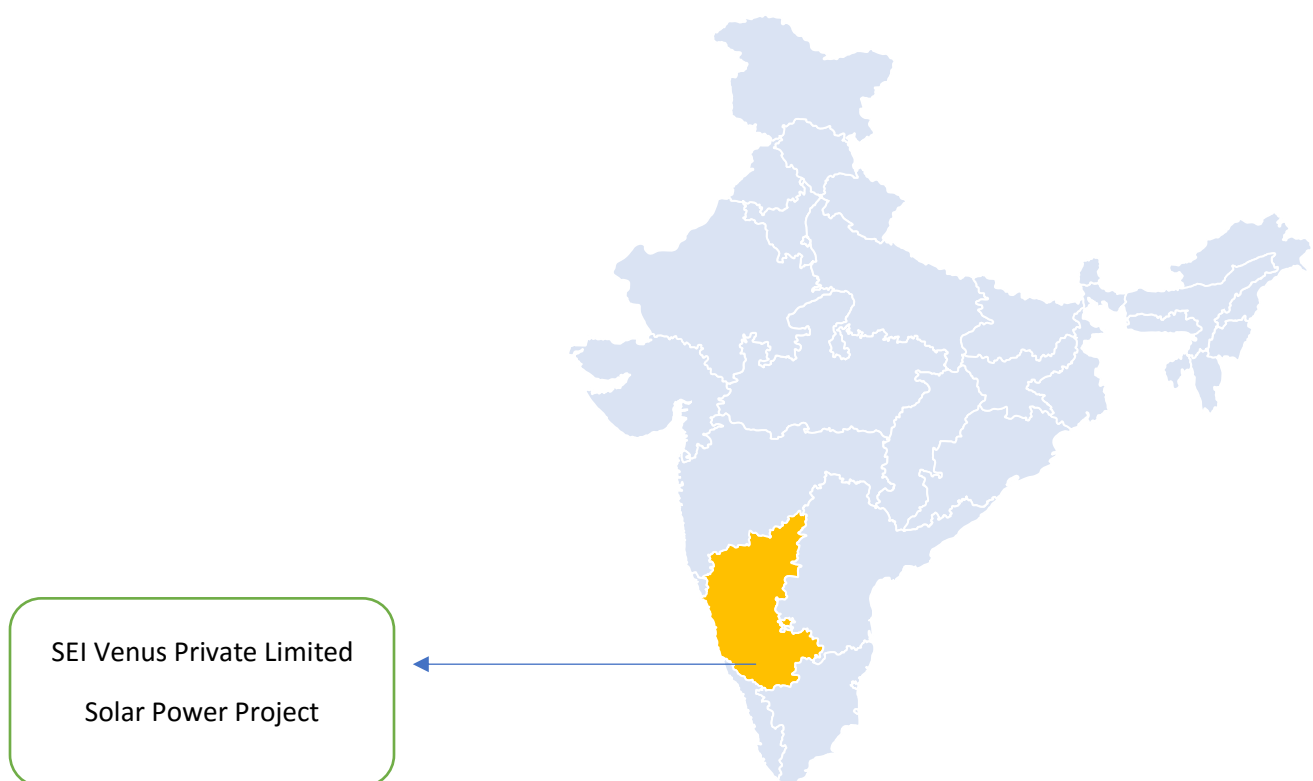
Project 34	SEI Diamond Private Limited
Capacity in MW	30
State	Karnataka



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.04331732

Project 35	SEI Venus Private Limited
Capacity in MW	30
State	Karnataka



GHG savings

Year	GHG avoided in Million tCO2
2019-20	0.04370026