



VASUDHA  
FOUNDATION  
Green ways for a good earth!

# ANNUAL REPORT

## 2020 - 2021

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*Vasudha Foundation is a non-profit organisation set up in 2010, with the belief in the conservation of Vasudha, which in Sanskrit means the Earth, the giver of wealth and with the objective of promoting sustainable consumption of its bounties.*

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# ABOUT THE ORGANISATION

Vasudha Foundation is one of the prominent CSO/Think Tanks with the mission to conserve Vasudha through innovative approaches that can ensure a sustainable and inclusive future for India and Mother Earth. Vasudha Foundation approach is largely data driven analysis, creation of data repositories with cross sectoral analysis, along with outreach to ensure resource conservation with the ultimate objective of conserving Mother Earth.



## OUR VISION

We believe in the conservation of *Vasudha*, which in Sanskrit means the Earth, the giver of wealth, with the objective of promoting sustainable consumption of its bounties.



## OUR MISSION

We promote environment-friendly, socially just and sustainable models of energy by focusing on renewable energy and energy efficient technologies as well as lifestyle solutions.

# AREAS OF WORK



## ACCESS TO CLEAN ENERGY AND CREATION OF LIVELIHOODS THROUGH CLEAN ENERGY APPLICATIONS

Vasudha Foundation is engaged in ensuring access to clean, sustainable, affordable, 24x7 energy for all and works in collaboration with various agencies to develop models and pilots for rural energy access with an aim to address livelihood enhancement and income creation in rural areas.

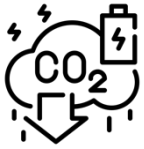
## RENEWABLE ENERGY AND POWER SECTOR – ENERGY TRANSITION

Vasudha's Energy Transition team is primarily focused on assisting India's clean energy transition by developing data repositories and conducting data-driven analysis to ensure that all stakeholders are on board with the country's clean energy transition. The team also assesses potential or possible barriers to scaling up clean energy solutions and reforming India's power sector, as well as proposes potential solutions to address the perceived barriers, through its in-depth analysis.

The energy transition team has also focused on highlighting cross-sectoral issues that have an impact on India's power sector, particularly those related to water, land, environment, and air quality.

The organisation has already built a large data repository that is housed in an exclusive website that allows easy access to data and analysis without any paywalls, which will aid in attracting a wide range of stakeholders to participate and actively engage in India's clean energy transition.





## LOW CARBON PATHWAYS AND CLIMATE POLICY

The Climate team engages actively with policymakers, researchers and others stakeholders at the state and national level with robust qualitative and quantitative research and analysis to ensure mainstreaming climate concerns and sustainable development goals into development planning. The climate team works with the energy transition team to develop cross-sectoral and sector specific solutions to mainstream climate and sustainable development goals.



## SUSTAINABLE TRANSPORT SOLUTIONS

The sustainable transport solutions team sits with the climate and energy transition team and is engaged in promoting the policies of the Government of India to scale up electric mobility, public transportation and non-motorised transportation across the length and breadth of India. The team is currently engaged in mapping barriers towards achieving the set target of 30% electric mobility by 2030 to ensure the target achievement.



## CLIMATE FINANCE

The climate finance team works on the premise that finances are key to energy transition and this requires a combination of domestic financing as well as international financing. The Climate finance team is also tracking domestic financial flows and investments into clean energy solutions in India.



## CLIMATE RESILIENCE

The work primarily engages with communities, particularly the farming communities in key states in promoting low water use cropping in India. The team also works with communities in minimising crop burning through alternate solutions of using crop waste.



## GLOBAL PARTNERSHIPS (CROSS-CUTTING)

Global Partnerships, as a cross-cutting project, entails proactively engaging with various global platforms on climate and clean energy solutions. Vasudha Foundation is a member of the IRENA Coalition of Action, The Climate Action Network, and various other Civil Society platforms such as Civil 20, BRICS 20, and others as part of its Global Partnerships. Vasudha Foundation is also a UNFCCC, World Bank, Asia Infrastructure Investment Bank, and New Development Bank accredited observer.

The team is also showcasing India's actions in combating climate change and the leadership role it is playing in renewable energy scale-up as part of its global engagement. The global engagement also keeps track of UNFCCC climate negotiations as well as international financial flows.



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# PROJECTS



**ENERGY**



**CLIMATE**



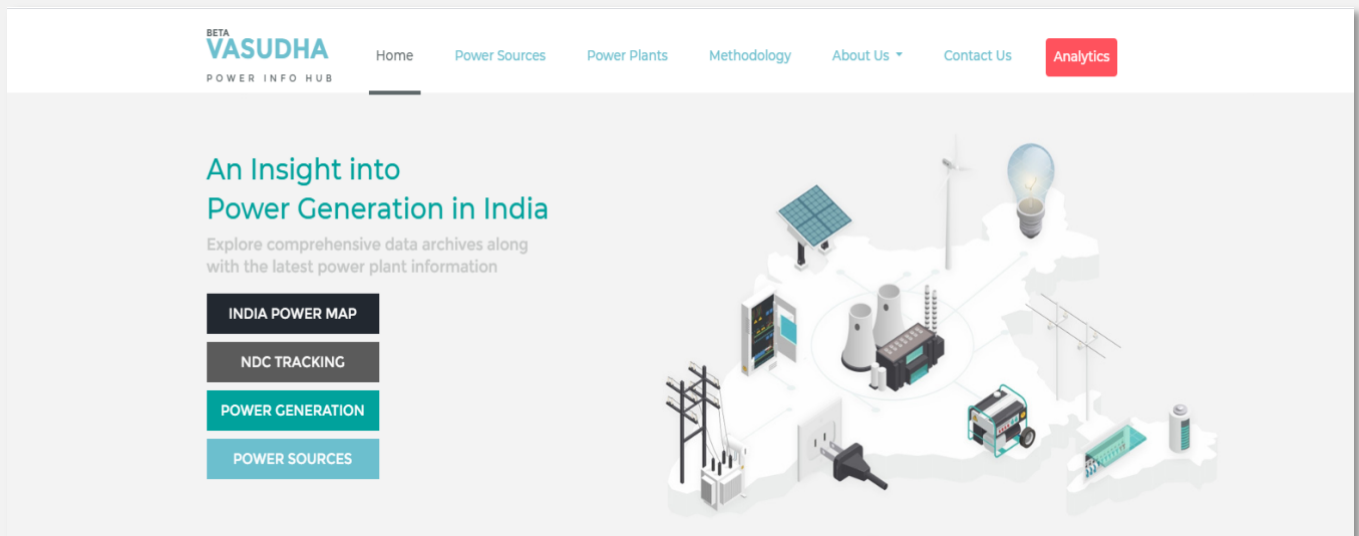
**CROSS-CUTTING**



# ENERGY

## Vasudha Power Info Hub

Children's Investment Fund Foundation  
SED Fund



Vasudha Power Info Hub is an online platform that aims to bring together comprehensive, integrated, historical, and current data on India's power sector, as well as provide insightful analysis, in order to help India's energy transition and move towards a greener future. It aims to accelerate the pace of India's Energy Transition by using data and information to ensure that everyone has access to sustainable and clean energy. This multi-year project aims to accelerate India's energy transition, with the first phase focusing on the power sector's transition from fossil fuel-intensive to renewable-energy-dominated electricity generation.

The project has taken the first step in this direction by creating a detailed database ("the tool") that captures granular data on India's electricity generation and making it publicly available.

This data-portal is unique in that it not only captures electricity generation data at the most granular level (Plant/Unit level), but it also integrates data from other sectors that impact or are impacted by the power sector.

Data on water usage/availability (current and future projections), land use, and proximity to bio-diversity hotspots are just a few examples.

From an energy transition perspective, the reason behind setting up this data-portal is to ensure that comprehensive data on the current state of affairs of India's electricity generation is made available to all as well as to ensure that key stakeholders such as the financial community and others, understand why continued investments in fossil fuel may end up with mounting non-performing asset portfolio for them.

Access here: [www.vasudhapower.in](http://www.vasudhapower.in)



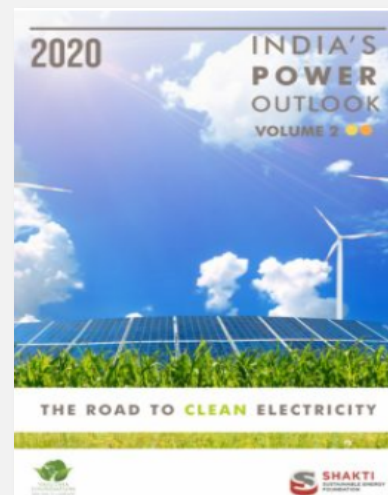
The Power Outlook Series developed by Vasudha Foundation with support from Shakti Sustainable Energy Foundation provides an overview of the current status of India's power sector with a focus on significant and emerging developments. This series aims to develop a more informed understanding of the power sector and may act as a tracking tool for stakeholders. The series will feature biannual editions to provide a comprehensive picture of current state of India's Power Sector and its value chain, with a focus on significant and emerging new developments, policies and programmes governing the power sector.

## India's Power Outlook – Volume 2

Volume 2 of India's Power Outlook Series titled '*The Road to Clean Electricity*,' provides an overview of renewable energy progress in India and assesses its impact across the entire power sector value chain. It examines current and projected growth trends in renewable energy generation capacity, transmission planning, grid integration practises, and demand requirements.

It goes on to describe the current state of energy storage in India as well as the future roadmap for the country.

Available here: <https://www.vasudha-foundation.org/indias-power-outlook-volume-2/>



## India's Power Outlook – Volume 3

Volume 3 titled '*Unpacking the Impact of Electricity Demand*,' looks at the effects of electricity demand across the entire power sector value chain. It connects various aspects of consumption, such as low demand, newer disruptions, and the state of India's electricity distribution, to generation-related challenges, such as forced outages, capacity delays, supply chain obstacles, and so on. The volume also includes a brief assessment of the Covid-19 pandemic's impact on the power sector.



Access here:

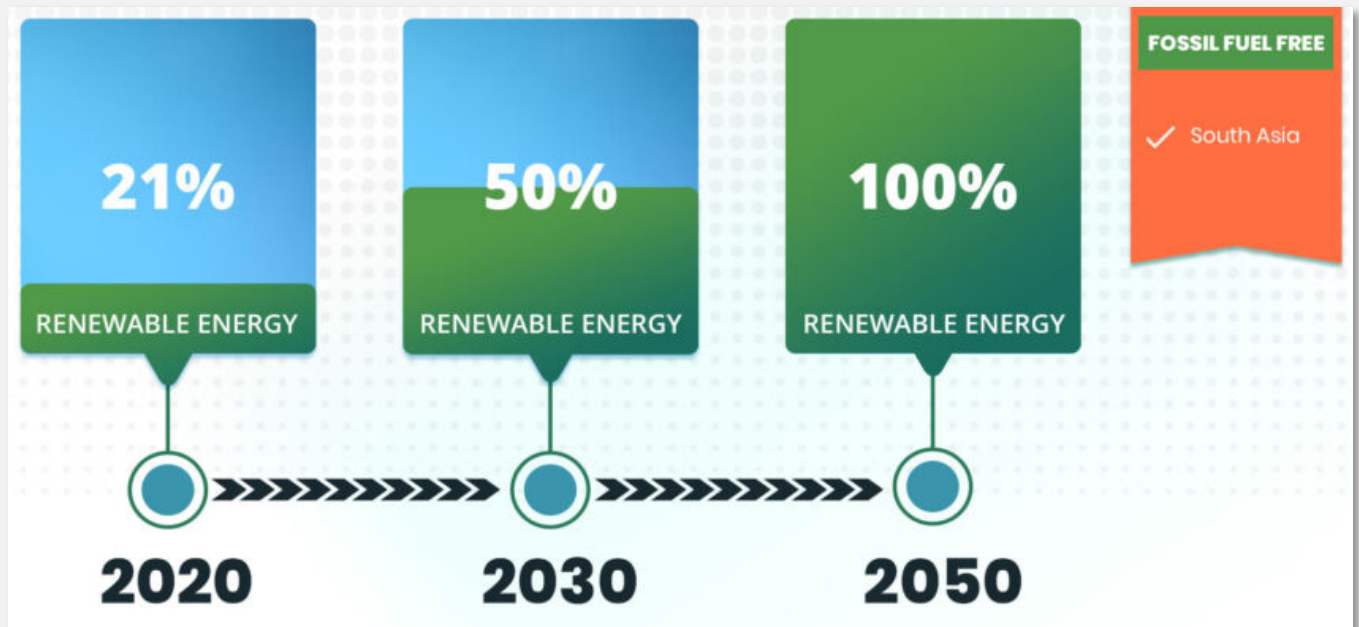
<https://www.vasudha-foundation.org/indias-power-outlook-volume-3-unpacking-the-impact-of-electricity-demand/>

# Energy Transition Platform

South Asia

Heinrich-Böll-Stiftung (HBF, India)

Energy Transition Platform is an initiative that brings together Sustainable Energy Practitioners and Civil Society Organisations (CSOs) from South Asia to form a partnership to work towards the vision of creating a Fossil Fuel Free South Asia by 2050.



This Pan-Asia platform aims to bring together diverse voices on Climate Change; developing a platform for energy practitioners across South Asia, to work on energy transition at a regional level and explore the impact of forest and land use due to coal mining, amongst others.

Access here: <http://www.ghgplatform-india.org/>





# CLIMATE

## Climate Change and Environment Action Plan

Shakti Foundation

Vasudha Foundation with support from Shakti Sustainable Energy Foundation to develop 'Climate Change and Environment Action Plans (CCEAP)' for a number of Indian districts (namely: Bhopal, Indore, Ahmedabad, Rajkot, Nagpur & Pune). The goal of the CCEAPs is to take a bottom-up approach to determining climate-proof development priorities for districts, as well as to serve as the foundation for the State Climate Change Action Plan (SAPCC) and its implementation processes. Vasudha has partnered with the Gujarat Ecological Education and Research (GEER) Foundation in two Gujarat districts (an autonomous body of the Forest Department, Govt. of Gujarat [GoG]). Furthermore, the GoG's Climate Change Department recently formed a strategic partnership with Vasudha for the state's DCEAPs in the two districts.

The first draft of the Action Plans has been prepared for all the districts. In order to further refine them, inputs have been sought from sectoral and regional experts.

## GHG Platform India – Phase IV

Shakti Foundation

Vasudha Foundation conceptualised the setting up of a civil society platform comprising of six civil society groups to provide independent assessment of year-on-year GHG emissions for India and for individual states, accounting for CO<sub>2</sub>, N<sub>2</sub>O and Methane. The GHG Platform, which was set up in 2015 has since provided estimates for GHG emissions for India and the states from 2005 to 2015 (year-on-year) and for all key GHG emitting sectors and sub-sectors, as per the methodology of the Inter-Governmental Panel on Climate Change (IPCC).

In the current phase of the project funding, we will be extending the time series of emission estimations from 2015 to 2019. The work of the GHG Platform has been recognised by the Government of India in its second and third biannual submissions (BUR II and BUR III) to the UNFCCC, in December 2019 and more recently in March 2021.

Access here: <http://www.ghgplatform-india.org/>

## Developing the Mitigation Action Plan for Madhya Pradesh

Shakti Foundation

As part of the GHG Platform-India's (GHGPI) activities, Vasudha has also developed a detailed mitigation action plan for Madhya Pradesh, as part of the state's climate action plan, version 2.0. The mitigation action plan, prepared by the GHG Platform is to ensure that the climate action for the state is in sync with India's National Determined Contribution (NDC) submission to the UNFCCC for the period of 2021 to 2030. The draft plan has been submitted to the Madhya Pradesh government for further refinement, as well as stakeholder consultation.



# CROSS-CUTTING

## Land Use Change – Analysis | India 2020

Heinrich-Böll-Stiftung (HBF, India)

**India's Coal generation and Land Use – a data driven analysis and making a business case for energy transition in India**

The purpose of the analysis is to highlight the extent of land use due to coal mining operations through the use of GIS Mapping and Satellite Image Analysis. This is done with an aim to drive home the point that with increasing coal mining operations, meeting one of India's goals of creating additional carbon sinks of 2.5 billion to 3 billion tonnes of CO<sub>2</sub> equivalent through creating additional forest cover could be a daunting task.



Available here: <https://www.vasudha-foundation.org/land-use-change-analysis-india-2020/>

## Air Quality Mapping – Analysis | India 2020

Heinrich-Böll-Stiftung (HBF, India)

**India's Coal Generation and Air Quality – A Data Driven Analysis of the Impacts of Coal Fired Power Plants on India's Air Quality Index**

The mapping's overall goal is to establish a clear link between coal-fired power plants and coal mining operations and regional air quality. It's also a mapping exercise to add to the conversation about India's energy transition, particularly from coal to renewables, with the ultimate goal of giving the issue more dimensions.

Available here: <https://www.vasudha-foundation.org/air-quality-mapping-analysis-india-2020/>





# Climate, Environment, Development Platform India

OAK Foundation

## Integrating Climate Change and Environment into Development Bringing Together Common Voices in India

Vasudha has set up a platform that was envisioned in the original concept as part of the ongoing processes revealed under this project. As a result, the Climate, Environment, and Development Platform India (CEDPI) has been established, which is a Pan-India platform of organisations that have come together to explore options and pathways for greater sustainability of India's development programmes and processes in the climate and environment space. Vasudha Foundation has served as the platform's secretariat. Around 20 organisations are currently affiliated with the platform, some of which work on a pan-India level and others on specific states such as Uttar Pradesh, Bihar, Tamil Nadu, Kerala, Andhra Pradesh, Telangana, Karnataka, and others.

The platform has been established to create a network of civil society groups and actors around climate change and environmental issues that can push forward a pro-poor long term sustainable development agenda.

The ultimate objective of such a platform would be to engage with select state governments as well as the Union Government departments to proactively address issues of natural resources management, clean energy, climate change, sustainable use and conservation, in order to achieve an equitable, sustainable and low-carbon development trajectory.

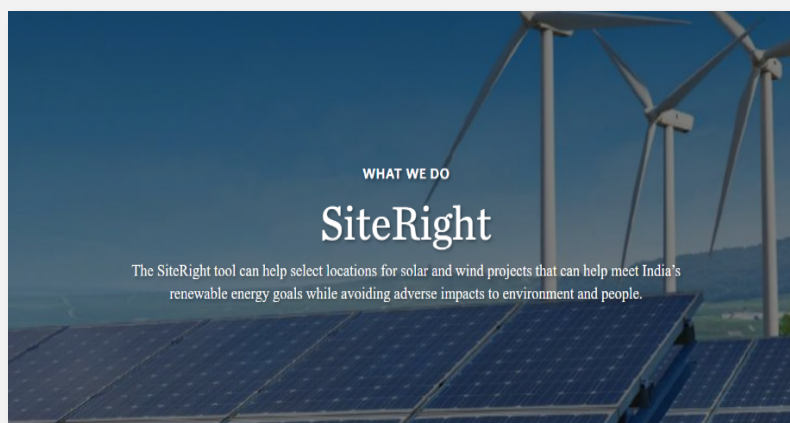
Overarching goals of the platform are:

- Exploring the linkages between sub-national actions and their synergies in the achievement and/or enhancement of India's NDC targets
- Integrating mitigation and adaptation concerns at the sub-national level for climate-resilient development
- Explore the interface between NDCs and SDGs and facilitate their convergence
- Bring together disparate voices on climate, environment and development to amplify the need for integrated actions.

## SiteRight Tool

The Nature Conservancy, India

Vasudha Foundation is part of a consortium that developed the SiteRight Tool to identify land parcels for utility-scale solar and wind projects in India, along with The Nature Conservancy, Center for the Study of Science, Technology, and Policy (CSTEP), and Foundation for Ecological Security (FES). The tool aids in the identification of land parcels by taking into account resource potentials as well as the social and ecological value of those parcels.



Access here: <https://www.tncindia.in/what-we-do/siteright/>

# EVENTS

## Workshop on

### 'India's Power Sector: The Journey till Date and Going Forward'

9<sup>th</sup> July, 2020

The Webinar focused on:

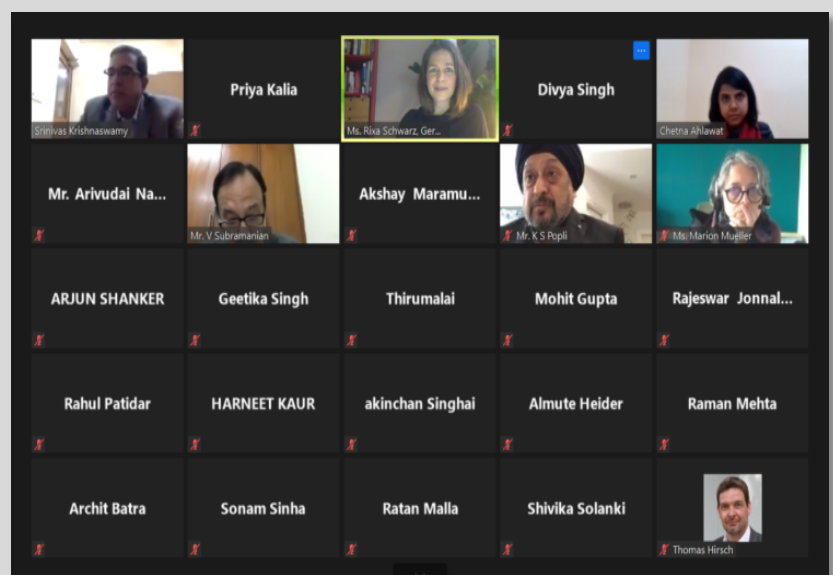
- Release of the India Power Outlook Series, Volume 2, which deep dives into different aspects of India's trajectory towards meeting the 175 GW Renewable Energy (RE) target by 2022.
- Panel discussion on key issues related to Indian power sector value chain.
- How to meet the 175 GW RE target.
- The role of the new power couple – RE + Storage in meeting the 175 GW and 455 GW RE target.
- Continuous financial reform packages for Electricity Distribution Utilities (DISCOMs).
- Electricity demand in the post Covid-19 scenario.

## Workshop on

### 'Green and Resilient Recovery in India'

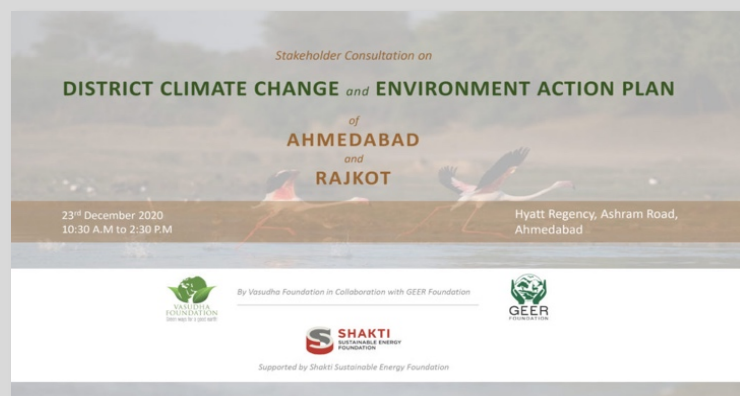
17<sup>th</sup> December, 2020

The webinar started off with brief presentations from the Vasudha Team, followed by Dr Nambi, Director, Resilience Practice, WRI and Rixa from GW. The presentations were followed by a panel consisting of V Subramanian, Former Secretary, Ministry of New and Renewable Energy, India, Sharmila Barathan, President Corporate Affairs and Policy, GE South Asia, Marion Regina Mueller, India Director, Heinrich Böll Stiftung, and K S Popli, Advisor for the International Solar Alliance, and former Chairman and Managing Director, Indian Renewable Energy Development Agency.



## Stakeholder Consultation on 'District Climate Change & Environment Action Plans of Ahmedabad & Rajkot'

23<sup>rd</sup> December, 2020



The first round of Stakeholder Consultation was organised for Ahmedabad & Rajkot District Action Plans at Hyatt Regency, Ashram Road, Ahmedabad.

Keeping the ongoing Covid-19 situation in mind, a hybrid meet was planned where participants could either attend in-person or online. The in-person meet was attended by close to 38 participants while a few had joined through the webinar.

A wide range of stakeholders from renowned CSOs/NGOs (CEE, Paryavaran Mitra, MHT, Toxic Links, among others), reputed academic institutes (IIT-Gandhinagar, CEPT, PDU, Gujarat University, L. D. College of Engineering) and autonomous bodies of GoG (GWSSB, WASMO and UGVCL) etc. had participated in this consultation. The Action Plans were appreciated and meaningful suggestions and inputs were received from the participating stakeholders. It was emphasised that the Action Plans will be helpful as a benchmark for formulation district level plans for other districts

## Webinar on 'Power Sector Transition Towards a Sustainable Energy Future'

23<sup>rd</sup> February, 2021

Virtual Launch of Vasudha's Power Portal and India's Power Outlook Series followed by a Panel Discussion on Power Sector Transition Towards a Sustainable Energy Future, was hosted by Vasudha Foundation with support from Children's Investment Fund Foundation (CIFF), Shakti Sustainable Energy Foundation (SSEF) and the SED Fund.





# FINANCIALS

## VASUDHA FOUNDATION

Regd. Office: 12, 9th Main Banashankari 2nd Stage Bangalore Karnataka 560070  
Project Office: CISRS House, 14 Jangpura B, Mathura Road, New Delhi-110 014

### FCRA RECEIPTS AND PAYMENTS ACCOUNTS FOR THE YEAR 01.04.2020 TO 31.03.2021

RECEIPTS	31-MARCH-2021	PAYMENTS	31-MARCH-2021
<b>Opening Balances:</b>			
Cash in hand	4,861.00	Project Expenses	33,983,129.75
<b>Bank Balance</b>		Administrative Salaries, Consultancy Fees	1,073,012.00
- Indian Bank	10,827,693.48	Office Maintenance	108,570.05
Fixed Deposits	15,000,000.00	Travel and Conveyance Expenses	24,155.00
Interest Accrued on Fixed Deposits	28,478.00	Staff Welfare and Benefits	415,197.00
		Audit and Certification Fees	17,850.00
		Bank Charges	6,016.60
		Communication	89,802.25
		Electricity Expenses	56,540.00
Interest Received	1,099,120.00	Office Rent	1,389,156.00
		Printing and Stationery	71,941.00
Grant Received	32,221,177.00	Professional Expenses	395,550.00
General Purpose Grants	4,449,000.00	Purchase of Fixed Assets	410,528.00
		Advances paid to Suppliers	49,590.80
		Prepaid Insurance	216,148.00
		TDS Receivable	30,702.00
		Payment made to Creditors, Statutory Liability	163,639.00
		<b>Closing Balances:</b>	
		Cash in hand	4,223.00
		<b>Bank Balance</b>	
		Indian Bank	12,095,589.03
		Fixed Deposits	13,000,000.00
		Interest Accrued on Fixed Deposits	28,990.00
	<b>63,630,329.48</b>		<b>63,630,329.48</b>

For Tinu Sood and Company  
Chartered Accountant



*[Signature]*

Tinu Sood  
Partner  
M.No. 511444, FRN 022090N  
Udin: 21511444AAAAADI4520

Date: 07/10/2021  
Place: New Delhi

For Vasudha Foundation

*[Signature]*

Srinivas Krishnaswamy  
Trustee





## Vasudha Foundation

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Visit us at [www.vasudha-foundation.org](http://www.vasudha-foundation.org)

For more information about Vasudha Foundation, email us at  
[info@vasudhaindia.org](mailto:info@vasudhaindia.org)