CARBON NEUTRAL PRODUCT

ARCORA® International GmbH supports the following UN goals for sustainable development:

ARCORA® International GmbH
Product „PU-PAD® 2022“

Participant ID: DE-2875-0505

This certificate guarantees that the reported quantity of 9 tons CO_2 has been saved in Gold Standard and VCS tested climate projects.

ARCORA® International GmbH has acquired shares (certificates) in climate protection projects corresponding to the calculated volume of 9 tons CO_2 to offset the carbon emissions of “PU-PAD® 2022”, and therefore plays a transparent part in the realisation of the projects. This ensures that the company compensates for its own CO_2 emissions, and thus scales back the rise in global warming.

The projects have been certified, and the issue and closure of the certificates is registered transparently.

ARCORA® International GmbH is therefore a voluntary participant in emissions trading, and thus makes a contribution to maintaining a viable environment by reducing the emissions of greenhouse gases. The holder of this certificate makes a sustainable contribution to the commitment to tackle global warming.

Frank Huschka

CLIMATE EXTENDER

VCS VERIFIED CARBON STANDARD

Gold Standard
Climate Security & Sustainable Development

ARCORA® International GmbH supporting climate protection projects:

Musi Hydropower Project

Indonesia

Renewable energy from hydropower in Sumatra

Indonesia's largest island, Sumatra, is covered by dense tropical forest that is home to a variety of plants and animals. The fertile soil is perfect for growing rice and other commodities such as coffee, cocoa, cinnamon and palm sugar. However, economic development opportunities are limited by rudimentary infrastructure and inadequate power supply. Growing energy demand also threatens Sumatra's unique ecosystems.

The solution
The run-of-river power plant on the upper reaches of the Musi River on the Indonesian island of Sumatra uses the kinetic energy of flowing water to supply 700,000 people with renewable energy. With its 210 MW of installed capacity, the power plant feeds 765,000 MWh into the public power grid annually.

The impact
This project addresses several challenges in rural Sumatra, including weak electricity supply and a lack of skilled jobs, to promote sustainable economic development. The Musi River Hydropower Plant has created good jobs and training opportunities for local residents in a traditionally agricultural region. A share of project profits flows back to the community and has enabled the construction of an orphanage, new roads and bridges, and a marketplace, among other projects.

Category	**Standard**
Carbon	VCS VER 487

Biomass Power Project 20MW at Godawari Power and Ispat Limited

India

Godawari Power and Ispat Limited (GPIL) has installed a 20MW biomass based power project at Siltara, Raipur. The purpose of the project activity is to generate electricity using renewable biomass residues i.e. rice husk to reduce GHG (CO2) emissions. As biomass is a CO2 neutral fuel, the power produced by the GPIL from renewable biomass will have zero GHG emissions. Also as it is replacing fossil fuel intensive based power generation from Indian grid, thereby results in reducing emissions from such fossil fuels.

In the project activity, biomass shall be combusted in the boiler for producing high pressure steam to generate 20MW electricity. The total annual generation of electricity from the project activity will be 126.72 GWh. The rice husk will be collected from a radius of 50km from projectsite. The project has obtained the requisite clearances and is commissioned on 01 November 2010.

Government of India has stipulated the following indicators for the sustainable development in the interim approval guidelines for Gold Standard projects.

Social and Economic wellbeing: The project would lead to generation of direct and indirect employment and improving economic condition of the area. The project activity adds income to the farmers by providing added economic value to the produce of farmers by procuring rice husk from the rice mills. This will definitely help the
millers to pay better price to the farmers for their paddy crop.
Since the biomass resources are to be collected and transported to the plant site from the fields, opportunities are being generated for the rural people to collect and transport the biomass residues. The rice husk transportation to site will provide employment opportunities to a number of trucks and other similar vehicles will be making trips to project site throughout the year. This will increase the transport related income and employment. The above benefits due to the project activity ensure that the project would contribute to social and economic wellbeing in the region.

Environmental wellbeing: The project activity utilises biomass potential available for power generation, which
otherwise is left un-utilised (left to decay or burnt). Thus it aids in the resource utilization and avoids pollution due to burning / dumping of biomass in nearby areas. Further, project activity replaces part of power generated in the grid using predominantly fossil fuels such as coal, lignite and gas. The project would not result in increase of GHG emissions and cause no negative impact on the environment.

Technological wellbeing: Successful implementation of this project would encourage other promoters to adopt
similar technology in the relevant sector and hence the project leads to technological wellbeing.

Category	Standard
Carbon	Gold Standard 3547