



Solar Home Systems, Indonesia

Despite advances in technology, access to electricity in Indonesia remains low. Currently more than 70 million Indonesians do not have access to reliable and affordable electricity services. Over 80% of Indonesians who suffer from the lack of access to electricity live in rural areas. These power shortages affect economic growth and industrial development.

In August 2009, the central government of Indonesia and the local government of the Bengkalis district embarked on a rural electrification program as part of their development plan to increase electricity access in remote areas and promote renewable energy. Attracted by the cost-effectiveness and quality of the Conergy-GMN solar home system in comparison to a diesel generator set, the fishing and farming villages of Kabupaten Bengkalis, Prop Riau and Propinsi Maluku now experience the wonders of artificial lighting thanks to solar energy.

Each rural household was provided with a Conergy-GMN solar home system that consisted of a 50 Wp polycrystalline solar module, a pole-mount and a 12 VDC battery bank which generates enough electricity to power three 10w fluorescent lamps in each home.

Investing in these solar home systems contributes to the realization of the Government of Indonesia's goal of providing electricity to 90% of Indonesian households by 2020. Many of these households in poor areas are too remote to connect to the electricity grid and would not have received electricity through conventional electrification methods.



OFF GRID

Data		
	Project 1	Project 2
Date	November 2009	November 2009
Location	Kabupaten Bengkalis, Prop. Riau, Indonesia	Propinsi Maluku, Indonesia
Type of System	Solar Home System	Solar Home System
Installed Capacity	460 units	4175 units
Type of Module	Conergy Q50PI Polycrystalline 50 Wp	Conergy Q50PI Polycrystalline 50 Wp
Battery Bank	Lead Acid, 65 Ah / 12 VDC	Lead Acid, 65 Ah / 12 VDC
Load	3 Tubular Fluorescent Lamps at 10 W	3 Tubular Fluorescent Lamps at 10 W
Mounting System	Roof-Pole Mounted	Roof-Pole Mounted
Client	Dinas Pertambangan dan Energi Kabupaten Bengkalis	Direktorat Jendral Listrik dan Pemanfaatan Energi
Local Partner	Gerbang Multindo Nusantara	Gerbang Multindo Nusantara

SHS-INDO-RP-ENG-1004