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**A REVIEW OF POTENTIAL RENEWABLE
ENERGY AT POS SINDERUT AND POS LENJANG,
PAHANG, MALAYSIA USING GLOBAL
INFORMATION SYSTEM (GIS) BY COERI**

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BY COERI

Problem:

Rural electrification in Pos Sinderut and Pos Lenjang

Challenges:

- 1) Pre-investigation of the site
- 2) Natural constraints

Approach:

Global Information System (GIS) as one of pre investigation method

Predicted Outcomes:

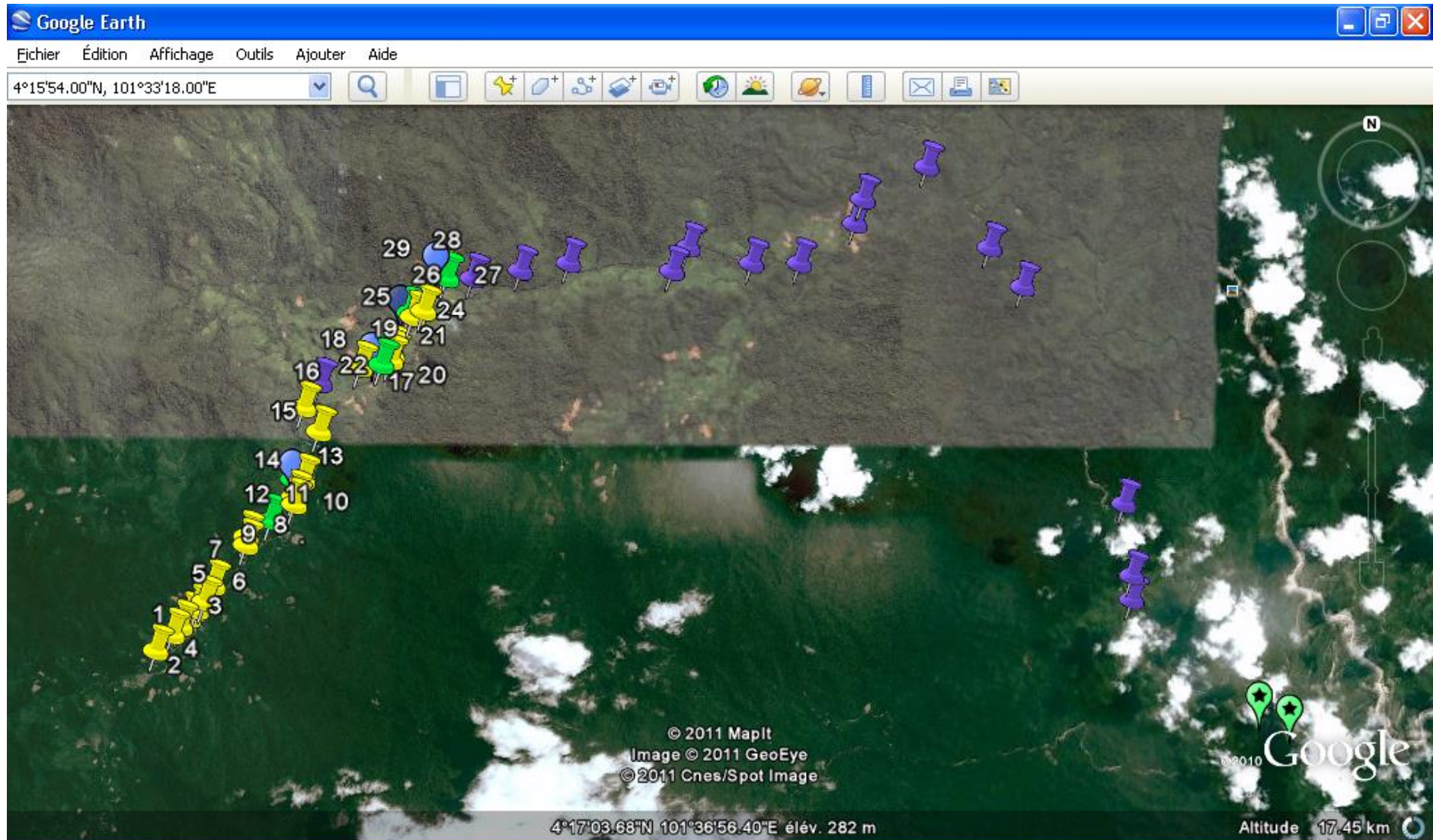
- 1) Identify appropriate location
- 2) Analyze potential site topographically and and demographically
- 3) Choose the best RE solution

Methodology

- on site
- off site

Pos Lenjang		Terrain		Landscape	Population density inh/km2	Description
		Elevation	Slope azimuth / inclination			
1	4°15'32.40"N 101°32'56.40"E	499.0 m	115 SE 4.6 °	Mosaic of cropland, tree cover and natural vegetation	6	Orang asli settlement area-Pos Lenjang. The population is mostly concentrated in this area. Basic facilities such as schools, clinics etc are available. The river flow fast due to the high altitude enables The construction of telecenter and and renewable energy power plant.
2	4°15'39.60"N 101°33'3.60"E	439.0 m	348° (N) 4.3 °	Mosaic of cropland, tree cover and natural vegetation	6	Orang asli settlement area There is a river with high water flow running across the village
3 to 6	4°15'43.20"N 101°33'7.20"E to 4°15'54.00"N 101°33'18.00"E	439.0 m	348° (N) 4.3 °	Mosaic of cropland, tree cover and natural vegetation	6	Orang asli settlement area Water source is located quite far from The villages which restrict The development of hydro power.
7	4°16'1.20"N 101°33'21.60"E	433.0 m	69° (E) 3.4 °	Mosaic of cropland, tree cover and natural vegetation	6	
8 to 9	4°16'19.20"N 101°33'36.00"E to 4°16'22.80"N 101°33'36.00"E	403.0 m	323° (NW) 6.8 °	Mosaic of cropland, tree cover and natural vegetation	6	
10 to 11	4°16'37.20"N 101°33'57.60"E to 4°16'40.80"N 101°33'57.60"E	416.0 m	115° (SE) 1.2 °	Mosaic of cropland, tree cover and natural vegetation	6	
12 to 13	4°16'48.29"N 101°33'56.83"E to 4°16'49.32"N 101°33'59.33"E	416.0 m	115° (SE) 1.2 °	Mosaic of cropland, tree cover and natural vegetation	6	Within this area, there is an orang asli housing estate, a big open space suitable for building a telecenter and a river nearby that offers high water flow throughout the whole year.

15 to 16	4°17'9.60"N 101°34'8.40"E to 4°17'20.40"N 101°34'1.20"E	362.0 m	330° (NW) 3.6 °	Mosaic of cropland, tree cover and natural vegetation	6	This area locate 3 orang asli villages
17	4°17'38.40"N 101°34'26.40"E	316.0 m	32° (NE) 3.1 °	Evergreen broadleaved forests	6	
18 to 22	4°17'41.62"N 101°34'34.39"E to 4°17'46.00"N 101°34'40.00"E	347.0 m	323° (NW) 6.8 °	Evergreen broadleaved forests	6	Within this area, there are four orang asli housing estates, a big open space suitable for building a telecenter and a river nearby that offers high water flow throughout the whole year. These four villages can share the same power source because they are located near to the potential telecenter.
23 to 25	4°18'2.80"N 101°34'47.14"E to 4°18'1.00"N 101°34'50.00"E	304.0 m	212° (SW) 1.3 °	Evergreen broadleaved forests	6	Within this area, there are two orang asli housing estates, a big open space suitable for building a telecenter and a river nearby that offers high water flow throughout the whole year. These two villages can share the same power source because they are located near to the potential telecenter.
26 to 28	4°18'18.50"N 101°35'5.05"E to 4°18'22.35"N 101°35'3.12"E	298.0 m	39° (NE) 2.7 °	Mosaic of cropland, tree cover and natural vegetation	6	Within this area, there is an orang asli housing estate, a big open space suitable for building a telecenter and a river nearby that offers high water flow throughout the whole year.



Site profiles from Pos Lenjang to Kuala Lipis