

EnDev Indonesia GIZ Renewable Energy Programme Indonesia/ASEAN

PLTS and PLTMH Site Assessment Checklist



Purpose of this checklist is to assess the suitability of a site to accommodate PLTS or PLTMH facility. The checklist also considers available resources and anticipated demand for electricity. The checklist highlights the minimum data and information needed to make a first-level feasibility assessment.

Checklist is to be completed by the applicant for the PLTS or PLTMH infrastructure and submitted to the relevant decision-making authority, along with all supplementary information (e.g. site photographs).

List of Abbreviations

km	kilometers
l/s	litres per second
m	meter
PLN	Perusahaan Listrik Negara
PLTS	Pembangkit Listrik Tenaga Surya (Solar Power Plant)
PLTMH	Pembangkit Listrik Tenaga Mikro Hidro (Micro Hydro Power Plant)

KEMENTERIAN ENERGI DAN SUMBER DAYA MINERAL REPUBLIK INDONESIA
DIREKTORAT JENDERAL ENERGI BARU, TERBARUKAN DAN KONSERVASI ENERGI
 JALAN PEGANGSAAN TIMUR NO. 1A CIKINI JAKARTA – 10320

Telepon: (021) 39830077 Faksimile: (021) 31901097 Website: www.ebtke.esdm.go.id Email: info@ebtke.esdm.go.id

PLTS Site Selection Checklist

Village Name	<input style="width: 95%;" type="text"/>	Regency	<input style="width: 95%;" type="text"/>
Subdistrict	<input style="width: 95%;" type="text"/>	Province	<input style="width: 95%;" type="text"/>
Date of initial survey	<input style="width: 95%;" type="text"/>	Contact person:	Contact number:

1. Number of connections:

<input style="width: 95%;" type="text"/> a. Private houses	<input style="width: 95%;" type="text"/> d. Health Centre
<input style="width: 95%;" type="text"/> b. Warung and small businesses	<input style="width: 95%;" type="text"/> e. Religious Buildings
<input style="width: 95%;" type="text"/> c. School	<input style="width: 95%;" type="text"/> f. Other (Please specify): _____

2. Ownership of the land for PLTS installation is (please tick)

<input type="checkbox"/> a. Private	<input type="checkbox"/> c. State
<input type="checkbox"/> b. Community	<input type="checkbox"/> d. Other (Please specify): _____

3. Available area for PLTS installation Width (m) m Length (m) m

4. Access to village (please tick)

<input type="checkbox"/> a. by foot	<input type="checkbox"/> c. by motorcycle	<input type="checkbox"/> e. by car	<input type="checkbox"/> f. by plane
<input type="checkbox"/> b. by truck	<input type="checkbox"/> d. by boat		

5. Nearest PLN grid connection: Name: Distance: km

6. Nearest subdistrict capitol: Name: Distance: km

7. Distance of village to PLTS area km

8. Plan to connect village to PLN grid (please tick)

<input type="checkbox"/> a. in less than 5 years	<input type="checkbox"/> b. in more than 5 year	<input type="checkbox"/> c. no plan
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9. Available electricity sources in the village (please tick)

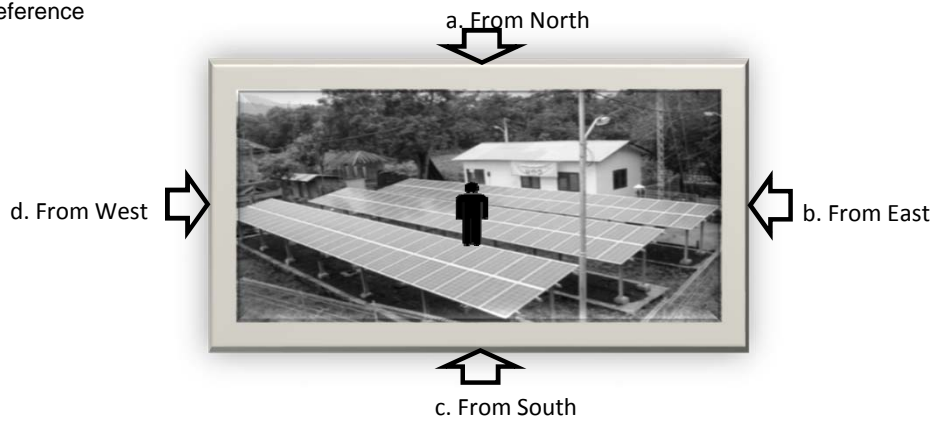
<input type="checkbox"/> a. Diesel genset	<input type="checkbox"/> c. PLTS	<input type="checkbox"/> e. none
<input type="checkbox"/> d. PLN	<input type="checkbox"/> d. PLTMH	<input type="checkbox"/> f. Other

10. The immediate area is (tick all that apply)

<input type="checkbox"/> a. Surrounded by high trees	<input type="checkbox"/> f. Next to an ocean beach
<input type="checkbox"/> b. Surrounded by tall buildings	<input type="checkbox"/> g. Next to a river bank
<input type="checkbox"/> c. Situated in a small narrow valley	<input type="checkbox"/> h. Frequently very windy
<input type="checkbox"/> d. Frequently flooded in the rainy season	<input type="checkbox"/> i. Located on a mountain with regular cloud cover and mist
<input type="checkbox"/> e. Located on a slope with signs of soil erosion	<input type="checkbox"/> j. Other (Please specify): _____

11. Site photographs
- Minimum **four (4) site photographs**, each from different direction (North, East, South and West) aiming into centre of area.
 - Place person in centre of area, for size reference

Additional information:



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PLTMH Site Selection Checklist

Village Name	<input style="width: 90%;" type="text"/>	Regency	<input style="width: 90%;" type="text"/>
Subdistrict	<input style="width: 90%;" type="text"/>	Province	<input style="width: 90%;" type="text"/>
Date of initial survey	<input style="width: 90%;" type="text"/>	Contact person:	Contact number:

1. Number of connections:

<input type="checkbox"/> a. Private houses	<input type="checkbox"/> d. Health Centre
<input type="checkbox"/> b. Warung and small businesses	<input type="checkbox"/> e. Religious Buildings
<input type="checkbox"/> c. School	<input type="checkbox"/> f. Other (Please specify): _____

2. Ownership of the land for PLTMH installation is (please tick)

<input type="checkbox"/> a. Private	<input type="checkbox"/> c. State
<input type="checkbox"/> b. Community	<input type="checkbox"/> d. Other (Please specify): _____

3. Available flat area for PLTMH power house: Width (m) m Length (m) m

4. Access to village (please tick)

<input type="checkbox"/> a. by foot	<input type="checkbox"/> c. by motorcycle	<input type="checkbox"/> e. by car
<input type="checkbox"/> b. by truck	<input type="checkbox"/> d. by boat	<input type="checkbox"/> f. by plane

5. Nearest PLN grid connection: Name: Distance: km

6. Nearest subdistrict capitol: Name: Distance: km

7. Distance of village to PLTMH power house km

8. Plan to connect village to PLN grid (please tick)

<input type="checkbox"/> a. in less than 5 years	<input type="checkbox"/> b. in more than 5 year	<input type="checkbox"/> c. no plan
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9. Available electricity sources in the village (please tick)

<input type="checkbox"/> a. Diesel genset	<input type="checkbox"/> c. PLTS	<input type="checkbox"/> e. none
<input type="checkbox"/> d. PLN	<input type="checkbox"/> d. PLTMH	<input type="checkbox"/> f. Other

10. Other sub-villages to connect:

Name: <input style="width: 90%;" type="text"/>	Distance:	<input style="width: 80%;" type="text"/> m
Name: <input style="width: 90%;" type="text"/>	Distance:	<input style="width: 80%;" type="text"/> m

11. Name of the River / Irrigation 12. Size of River (please tick)

<input type="checkbox"/> a. Big River (W > 20m)	<input type="checkbox"/>
<input type="checkbox"/> b. Medium River (5m < W < 20m)	<input type="checkbox"/>
<input type="checkbox"/> c. Small River (W < 5 m)	<input type="checkbox"/>
<input type="checkbox"/> d. Irrigation channel	<input type="checkbox"/>

13. Is the water of the river / irrigation reduced much during the dry season ? Yes No

14. The rainy season is usually started in the month of: to

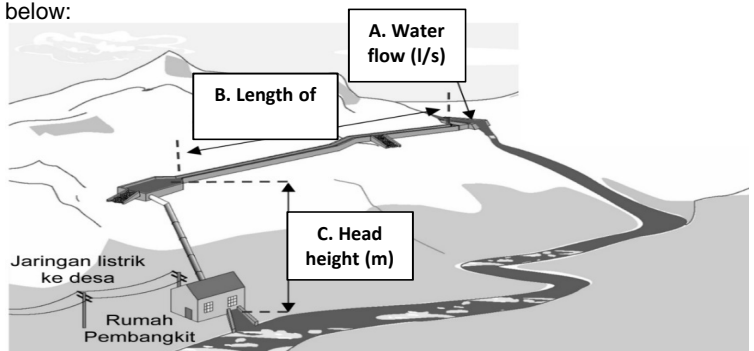
If d. Irrigation channel:
 Width cm Depth cm

15. Using the picture of PLTMH, please estimate of some key data below:

A. Water flow: l/s (litres per second)

B. Length of channel: m

C. Head height: m



Additional information:
