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

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>km</td>
<td>kilometers</td>
</tr>
<tr>
<td>l/s</td>
<td>litres per second</td>
</tr>
<tr>
<td>m</td>
<td>meter</td>
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<tr>
<td>PLN</td>
<td>Perusahaan Listrik Negara</td>
</tr>
<tr>
<td>PLTS</td>
<td>Pembangkit Listrik Tenaga Surya (Solar Power Plant)</td>
</tr>
<tr>
<td>PLTMH</td>
<td>Pembangkit Listrik Tenaga Mikro Hidro (Micro Hydro Power Plant)</td>
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For more information: www.endev-indonesia.org; endev.indonesia@giz.de
**PLTS Site Selection Checklist**

<table>
<thead>
<tr>
<th>Village Name</th>
<th>Regency</th>
<th>Province</th>
<th>Date of initial survey</th>
<th>Contact person</th>
<th>Contact number</th>
</tr>
</thead>
</table>

1. **Number of connections:**
   - a. Private houses
   - b. Warung and small businesses
   - c. School
   - d. Health Centre
   - e. Religious Buildings
   - f. Other (Please specify): ____________________________

2. **Ownership of the land for PLTS installation is (please tick):**
   - a. Private
   - b. Community
   - c. State
   - d. Other (Please specify): ____________________________

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

4. **Access to village (please tick):**
   - a. by foot
   - b. by truck
   - c. by motorcycle
   - d. by boat
   - e. by car
   - f. by plane

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):**
   - a. in less than 5 years
   - b. in more than 5 years
   - c. no plan

9. **Available electricity sources in the village (please tick):**
   - a. Diesel genset
   - b. PLTS
   - c. PLN
   - d. PLTMH
   - e. none
   - f. Other

10. **The immediate area is (tick all that apply):**
   - a. Surrounded by high trees
   - b. Surrounded by tall buildings
   - c. Situated in a small narrow valley
   - d. Frequently flooded in the rainy season
   - e. Located on a slope with signs of soil erosion
   - f. Next to an ocean beach
   - g. Next to a river bank
   - h. Frequently very windy
   - i. Located on a mountain with regular cloud cover and mist
   - 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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**Diagram:**

- a. From North
- b. From East
- c. From South
- d. From West
PLTMH Site Selection Checklist

1. Number of connections:
   a. Private houses
   b. Warung and small businesses
   c. School
   d. Health Centre
   e. Religious Buildings
   f. Other (Please specify):

2. Ownership of the land for PLTMH installation is (please tick):
   a. Private
   b. Community
   c. State
   d. Other (Please specify):

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

4. Access to village (please tick):
   a. by foot
   b. by truck
   c. by motorcycle
   d. by boat
   e. by car
   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):
   a. in less than 5 years
   b. in more than 5 years
   c. no plan

9. Available electricity sources in the village (please tick):
   a. Diesel genset
   b. PLTS
   c. PLN
   d. PLTMH
   e. none
   f. Other

10. Other sub-villages to connect:
    Name: ____________________________
        Distance: ____________________________ m
    Name: ____________________________
        Distance: ____________________________ m

11. Name of the River / Irrigation
    12. Size of River (please tick):
        a. Big River (W> 20m)
        b. Medium River (5m < W < 20m)
        c. Small River (W <5 m)
        d. Irrigation channel

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 ____________________________

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:

______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________