Design of a Solar Powered Irrigation System for the Pangalata association in Moamba, Mozambique

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Disclaimer:
This document is an output of the Technical Assistance Response in Mozambique. The present report is the output of the project 'Solar based irrigation business model 'pay as you irrigate' for women empowerment, water management and food security in Mozambique. The views and information contained herein are a product of the international TA implementation team led by PRACTICA & HUB.

Content

1. **Pangalata association fields overview**
2. **General design**
3. **Pump and solar panels detail**
4. **Sub-unit drip irrigation detail**
5. **Irrigation Management**

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Pangalata SPIS design

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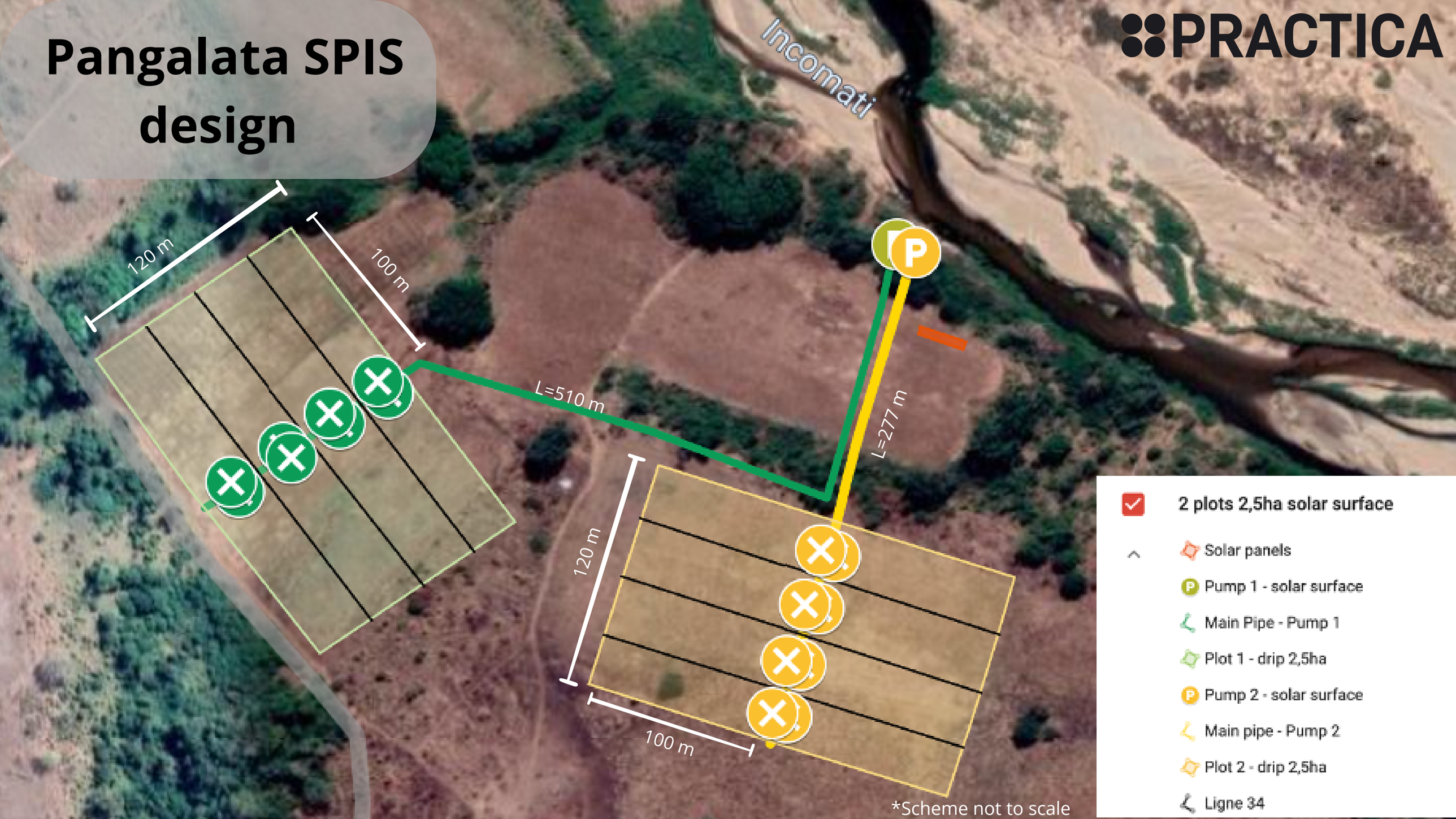
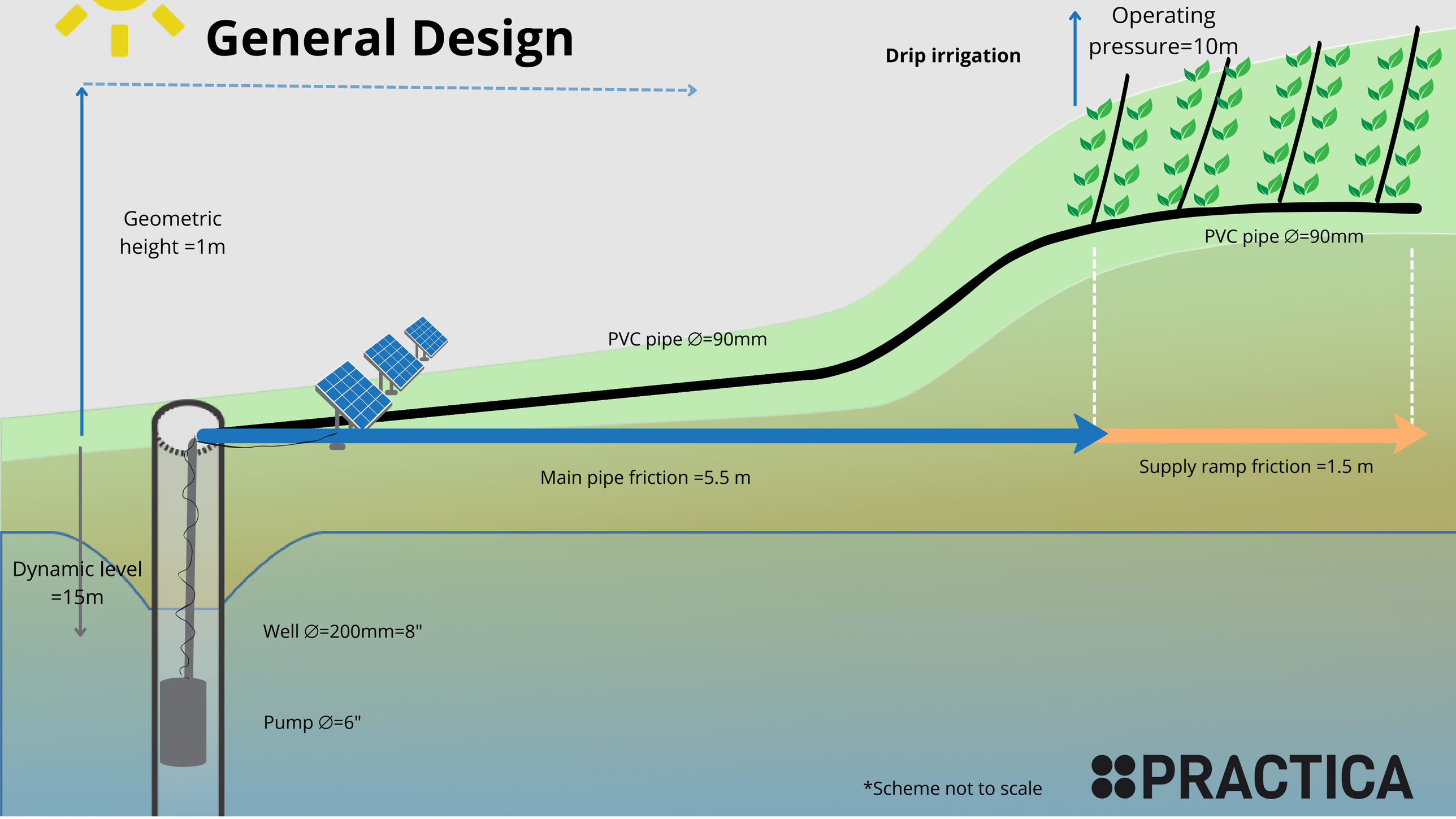


*Scheme not to scale

General Design



*Scheme not to scale

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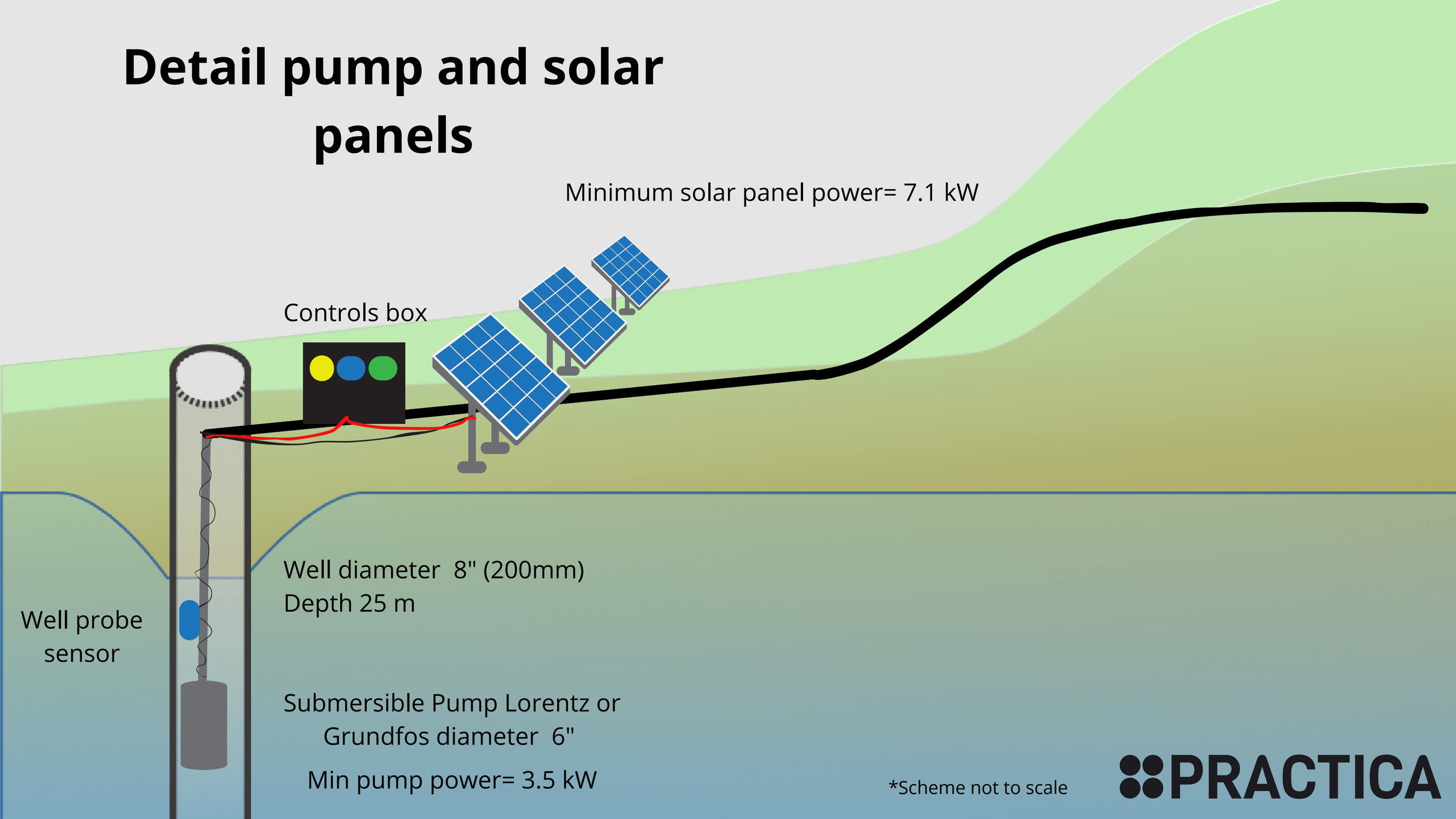
Detail pump and solar panels



*Scheme not to scale

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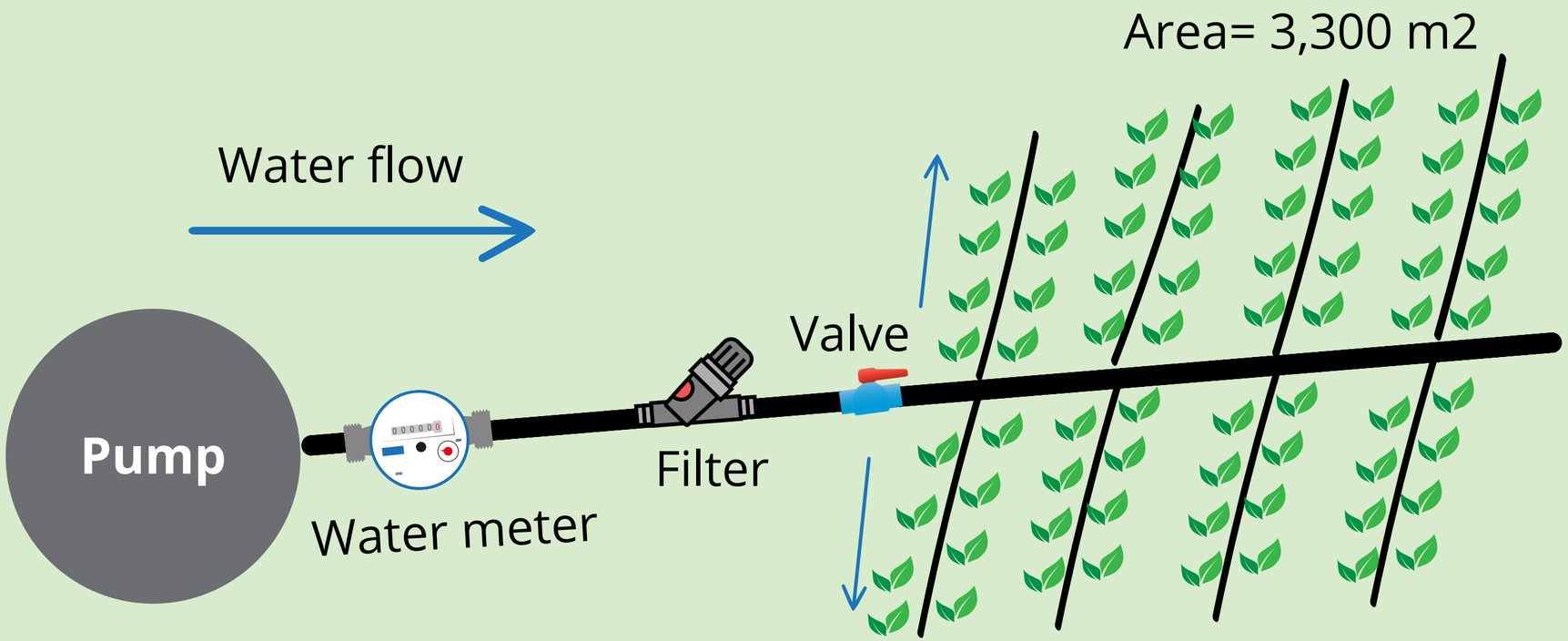
Detail sub-unit drip irrigation



Sub-unit information

Spacing between emitter (m)	0.3
Irrigated plot configuration	Mirror
Dripper line length (m)	100
Spacing between drip lines (m)	0.5
Emiter flow (l/h)	1
Operating pressure (m)	10

*Scheme not to scale

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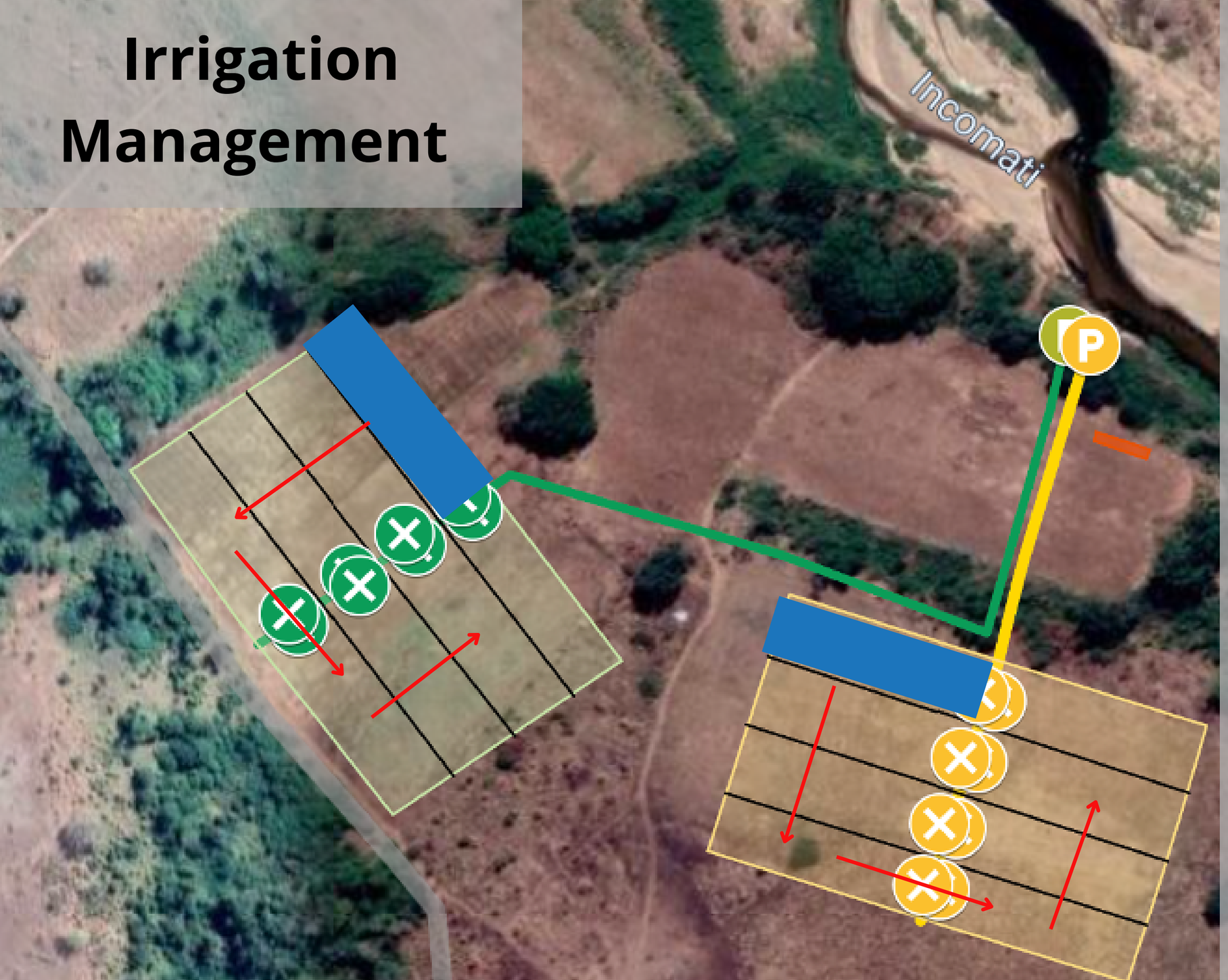
Irrigation Management



Irrigation cycle information

Number of lines used per irrigation cycle	66
Duration of an irrigation cycle (min)	00h 40min
Irrigated area of one irrigation cycle (m2)	3,300
Total irrigation time (hours)	5.1

Irrigated area of one irrigation cycle

Direction of irrigation cycles

*Scheme not to scale

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