# SELAR PRICE POWER POWER POWER PRICE POWER PRICE POWER PRICE POWER POWER

#### OPTIMISAING SOLAR PV PERFORMANCE

David Raphael

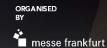
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Performance: Goals & Systems

Focus Areas of Performance

Performance in: Development, Design, Construction, Operation

Closing



IN PARTNERSHIP WITH



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# "You do not rise to the level of your goals. You fall to the level of your systems."

- James Clear Atomic Habits



RTNERSHIP WITH PC













#### What is performance in solar PV?

**Performance**: how well a person, machine, etc. does a piece of work or completes an activity

**Solar PV Performance**: How *reliably* a solar PV facility produces energy, over its lifetime

**Associated words**: Robust, Availability, Financial Return, Dependable, Consistent

Performance, like quality, is an active process (system) starting at day one.



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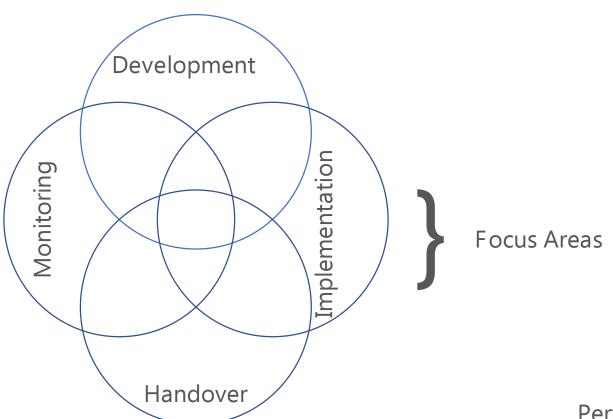








### Solar PV performance focus areas



Performance = Goal System of Excellence = System

















### Performance in Development



Solar Resource

**Electrical Load** 

Space

Energy Costs (Tariff)



Understand the Parameters

# Secondary Determinations

Structural/wind Assessment

Roof Corrosion Assessment

LRA

**Grid Capacity** 

















## Performance in Implementation



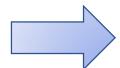
Shading

Cable Runs

Stringing

**Heat Dissipation** 

**Dust Measurement** 



Build for the Environment

#### **Construction**

Access

Maintenance Utilities

Roof Preservation

Gen Interface



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#### Performance in the Hand-over

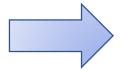
#### **Training**

**PV** Basics

Safe Operating Procedure

Basic Maintenance Procedure

Tests & Checks



Transfer the Competence

#### Handover

As-built Documents

Warranties

**Datasheets** 

Certificates/Approvals

Critical Spares list



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#### Performance in Operations



Visibility on:

Production

Unavailability

**Faults** 

Weather



Measure & Review

#### **Maintenance**

Cleaning

Mechanical/Thermal Monitoring

Servicing

Performance Guarantee



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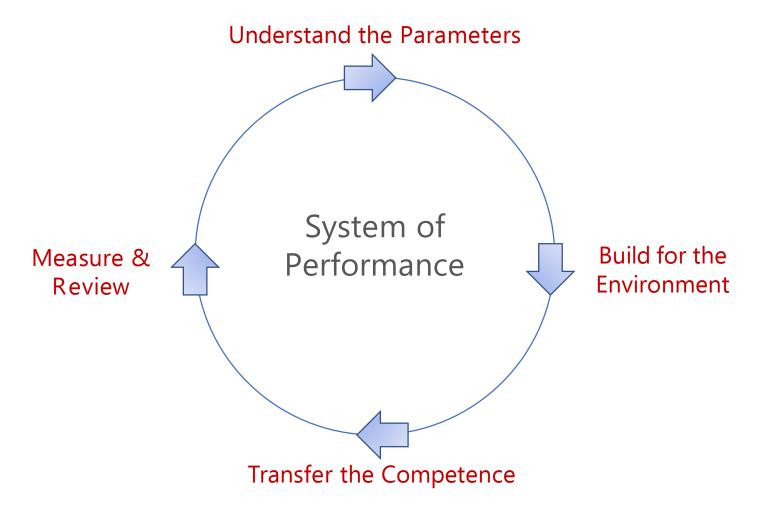






#### S®LARE POWERS

#### Performance in Summary









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THANK YOU FOR LISTENING!

FOLLOW US ON SOCIAL MEDIA FOR SOLAR INDUSTRY UPDATES









