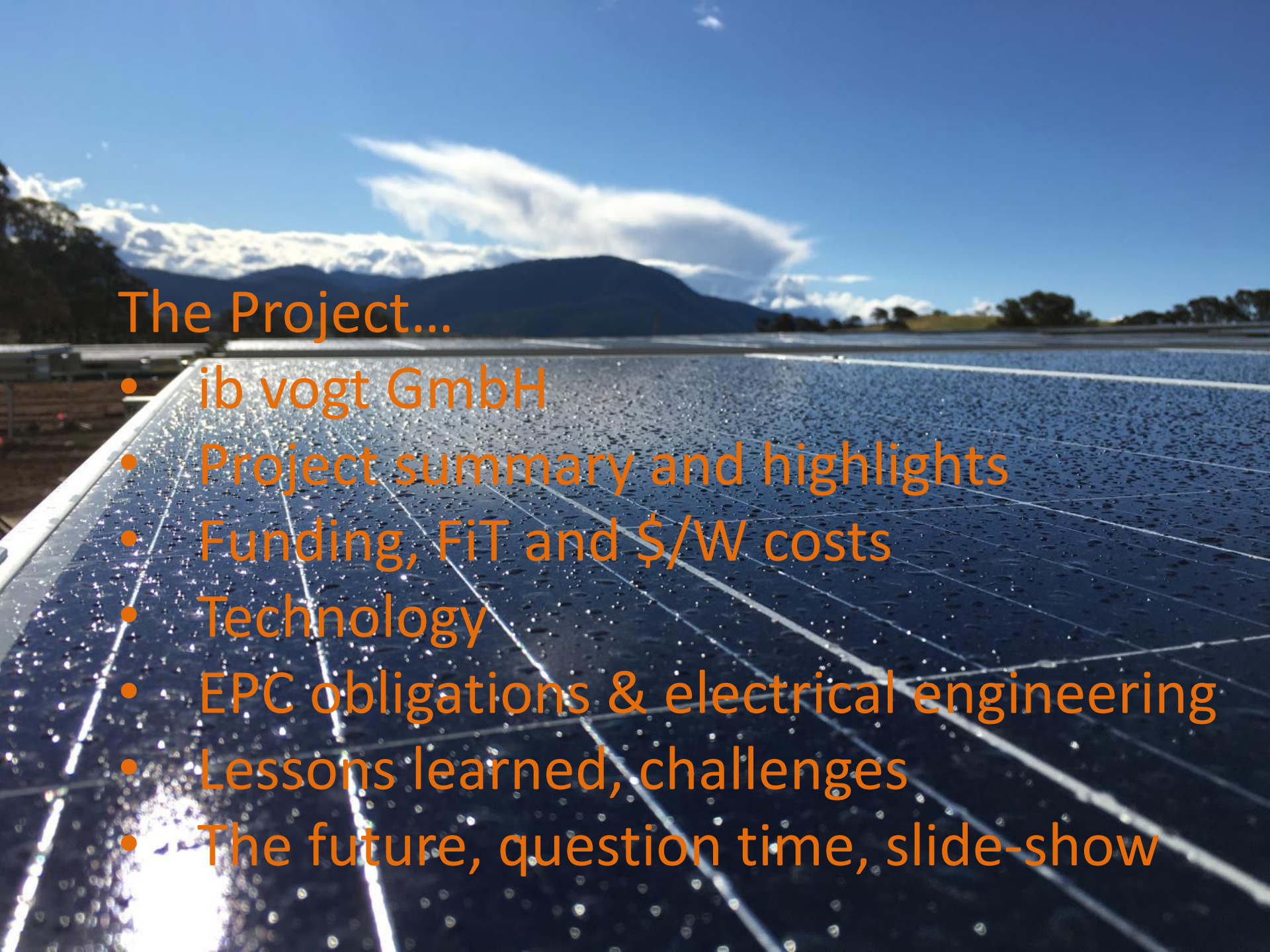
Williamsdale Solar Farm - Rain and Rocks

ib vogt ®
expertise in solar power plants



The Project…

- ib vogt GmbH
- Project summary and highlights
- Funding, FiT and $/W costs
- Technology
- EPC obligations & electrical engineering
- Lessons learned, challenges
- The future, question time, slide-show

Company Profile

Established in 2002, ib vogt GmbH specialises in the development, design & engineering, financing, EPC, operation & maintenance and asset management of solar power plants. The company provides high-quality turnkey solar power plant solutions, designed and engineered in Germany, to end investors internationally.

We are a manufacturer-independent integrated developer, focusing on tailor-made solar power plant solutions that maximise lifecycle performance and investor returns.

Since 2009 ib vogt has realised plants with a total rated capacity of > 570 MWp. All projects have been commissioned on time, quality and budget.

ib vogt employs over 90 experts in all areas along the solar power plant value chain. The company operates internationally from offices in Germany, the United Kingdom, the USA, Panama, Eastern Europe, India and South East Asia, as well as several joint ventures across Africa.

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History

1991
Environmental Engineering

2002
Establishment of ib vogt GmbH

2010
First project in Germany

2012
Foundation of nv vogt Singapore

First project in Slovenia

2014
Building UK´s largest solar plant in 8 weeks

2016
>0,5 GWp realised in Just 6 years

Foundation of EDP – ib vogt Solar LLC (USA)

1998
Focus on PV Industry

Over 20 PV factories constructed worldwide

All mainstream technologies

First factory build in record-breaking time 2001

2009
Focus on Solar Power Plants

Foundation of vogt solar Ltd. UK

2011
First project In UK

2013
ib vogt GmbH strengthened its organisation for future growth

2015
Foundation of vogt solar Panamá S.A.

Foundation of IBVBF Holding LLC

First project in Philippines

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Project summary and highlights

- 132kV Substation
- 8th largest in Australia
- Tracking


DANGER
HIGH VOLTAGE
KEEP OUT
WARNING
These premises are protected by Closed Circuit Television
24-hour CCTV

One down, 34,999 photovoltaic panels to go at Williamsdale Solar Farm

Georgina Connery

Williamsdale Solar Farm site crews got a helping hand from ACT politicians on Tuesday to erect the first photovoltaic panels on site.

In hard hats and high visibility vests, Planning Minister Mick Gentleman and ACT Greens members Shane Rattenbury and Caroline Le Couteur lifted the 20kg cell onto the galvanised steel foundations which cover 29 hectares of farmland adjacent to the Monaro Highway.

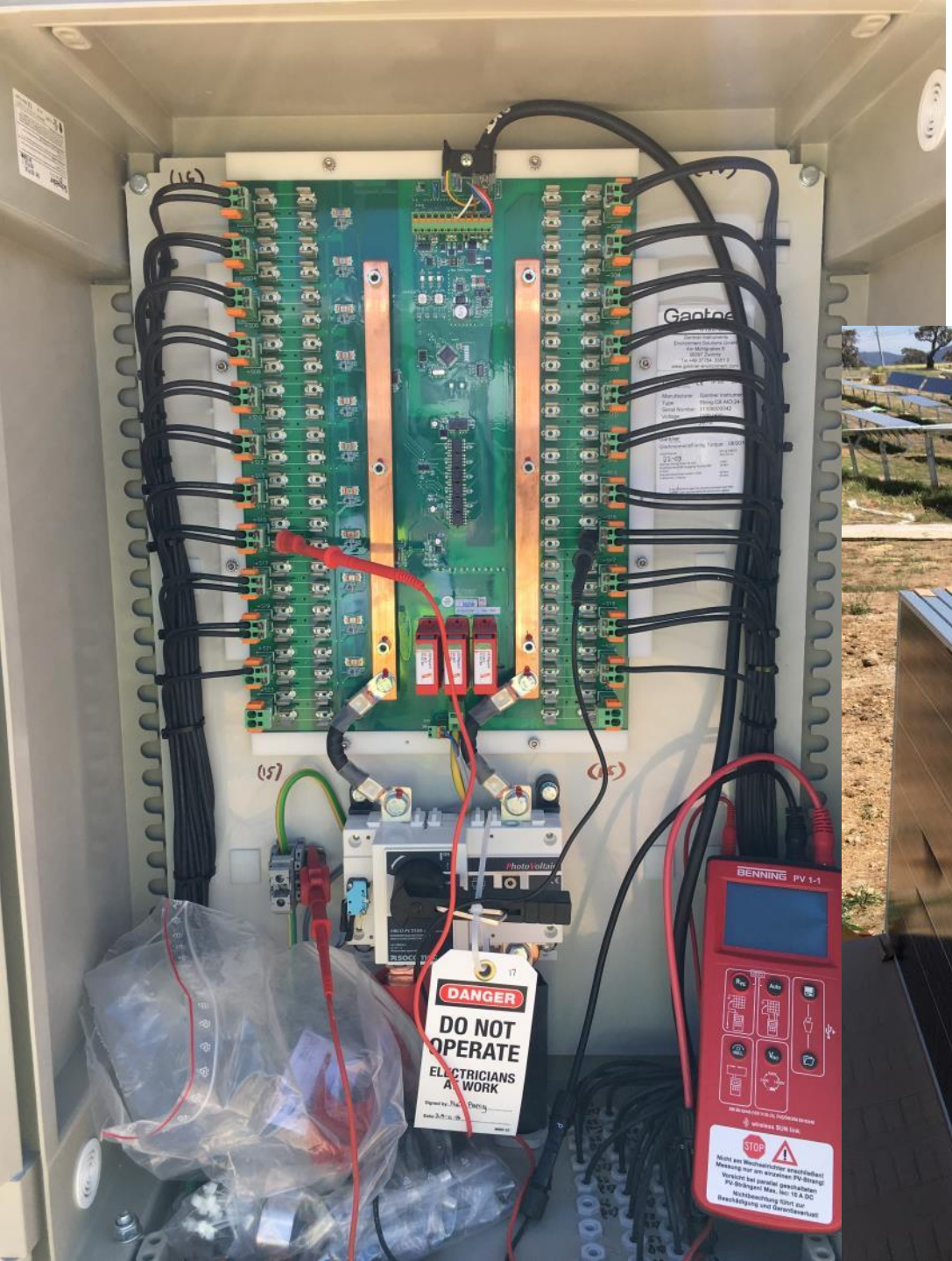
ACT Greens MLA Shane Rattenbury, Planning Minister Mick Gentleman and Daniel Radford lifting panels at the Williamsdale solar farm. Photo: Ricky Fuller

The 2.5 metre high structure is designed to pivot throughout the day to maximise energy absorption as the sun travelled east to west.

Once completed it requires no on-site staff to operate and is estimated to deliver roughly 22,000-megawatt hours of output each

Technology…

- 1500V?
- Exosun tracking
- Inverters
- String monitoring
- Trenching, drilling and ramming


DANGER
DO NOT
OPERATE
BENNING PV 1-1
STOP


Vermeer
Vermeer


Atlas Copco
XAHS 186

EPC Obligations and Electrical Engineering

- PR Test
- Electrical Engineering

Challenges and Lessons Learned

- Australian wages and services market!
- Different time zone!
- OHS, AS3000 and Administration!
- Rain and Rocks!


31 10 2016


KEEP CLEAR
Vermeer
XCAVB


Vermeer
Vermeer


The Future..?
05 11 2016

Vielen Dank für Ihre Aufmerksamkeit!