OBT N

THE INVESTORS VIEW ON DESIGN TO OPERATE Presentation of Obton

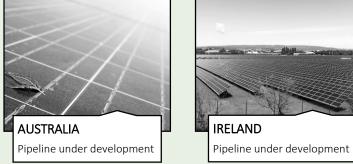


ABOUT OBTON

- Obton is an experienced contributor to development, construction, structuring, funding and management of solar PV systems.
- Our goal is a sustainable future through the means of solar PV.
- Obton targets land and rooftop owners, developers and financial institutions with the goal of building a broad and risk-diverse portfolio of assets in the field of solar energy.
- Our expertise includes development, funding and management of solar PV systems for stable markets in Europe, Australia and North America.

OBTON'S MARKETS





RENEWABLE TRENDS OF OUR DECADE

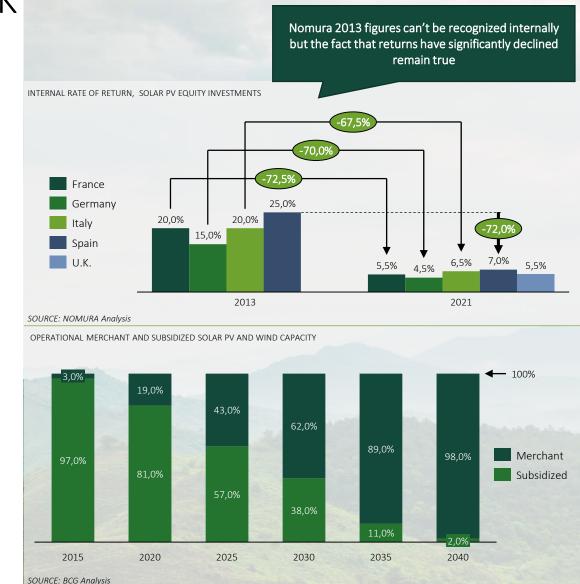
2021 Disasters	Flood in Germany, Wood fires accross Europe and North Amrica Necessity for a change in how humankind uses energy is getting more important "Fast solutions" increasingly more important than "cheap solutions"
CO2-Price	Increasing CO2 prices in national regulations (politicians have to react on climate change) Increasing price in the market (certificates) Financing entities increasingly looking at renewablesden Erneuerbaren zu!
Biodiversity	Biodiversity / ESG is increasingly gaining political and social importance Renewable energy providers have to adopt the topic to "prove" their environmental combability Agri PV and Floating PV becomes more of a trend in the industry
Hybrid	Hybrid is becoming more and more important. "One-dimensional" plants (aka "MWh-pumps") are not requested any more- Renewables have to offer more than just "energy when the sun shines" Requirement for auxiliary grid services (reactive power, storage,
Decomm- issioning	Nuclear and fossil plants are being decommissioned (reducing base load plants in the system) Increased need for frequency compensation and balancing power Short term compensation (Momentanreserve) needs to be compensated by new grid services Renewables can support, but require new regulations and business models

PV TRENDS: RETURN COMPRESSION AND TRANSITION TO MERCHANT RISK

- +60 countries have adopted market-based mechanisms, many with competitive auction schemes.
- Solar investment returns in EU have nosedived due to the increased competition.

• Merchant solar projects become the norm.

In the future, competition will further intensify, investment returns will be volatile and risk profiles change.





KEY PARAMETERS FOR AN INVESTOR'S BUSINESS CASE

- Overall
 - Debt capacity
 - Sensitivity to changing input parameters

€ Revenue

- > Yield / Losses / Availability / Degradation
- Long term power price expectations
- Additional Streams (GO, CO2 certificates)
- Ocst
 - Technical and Commercial Operation
 - MRA
 - Long term land availability
 - Dismantling



WHAT AN INVESTOR LIKE OBTON IS LOOKING FOR

The winning strategy

The four pillars	Multiple routes to market and higher end returns	 prioritized growth markets have state auctioned PPAs and liquid forward markets for power making 3-7 YR merchant PPAs at fair premiums achievable. Top markets achieve highest state auctioned PPAs. Enter in early market boom, and well posed for further growth. 	Establish expert centers	 Markets & Energy Portfolio: Build in house route-to- market and portfolio management function. Technology & Projects: Strategy plan in development to ensure value added across entire maturity cycle. Asset Management: Tech support by Dev. works on mapping in house service requirements, IT infrastructure and team setup. Project Development: Ramp up greenfield development teams in relevant markets
	Capture value by moving down stream in maturity cycle	 COD on first greenfield development projects in at least top prioritized growth markets by 2023. Mix of itarget deliveries from greenfield development as well as from ready-to-build. Internal tech organization to work on a final organization, budget and plan to deliver on targets to be presented jointly with commercial development 	Use merchant shift to capture new revenue streams	 Indicative commercial terms drafted with tier 1 energy trader on delivery of energy portfolio management/hedging services for solar pv projects with merchant exposures. Service funds with hedging and risk management services Investigate and integrate new revenue streams

WHAT AN INVESTOR CAN DO (1/2) DEVELOPMENT / CONSTRUCTION

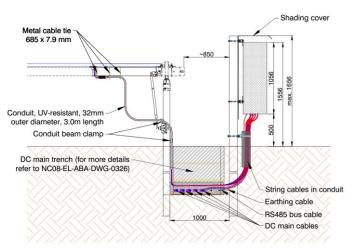
What we need

- Design that minimizes cost over entire lifetime
- Systems and components considering easy maintenance

Way there

- Identify Teams knowledge and lessons learnt
- Best Practices Manual
- Introduce Best Practices as Annex for EPC contracts

Side view combiner box











WHAT AN INVESTOR CAN DO (2/2) OPERATION & MAINTENANCE

What we need

- O&M scope review
- De-Engineer to "value for money"-services only
- Life-cycle understanding of O&M cost



Way there

- Create visibility of O&M contract terms
- Benchmark O&M services
- Understanding of Opex
- O&M scope: what is obsolet? What is missing?



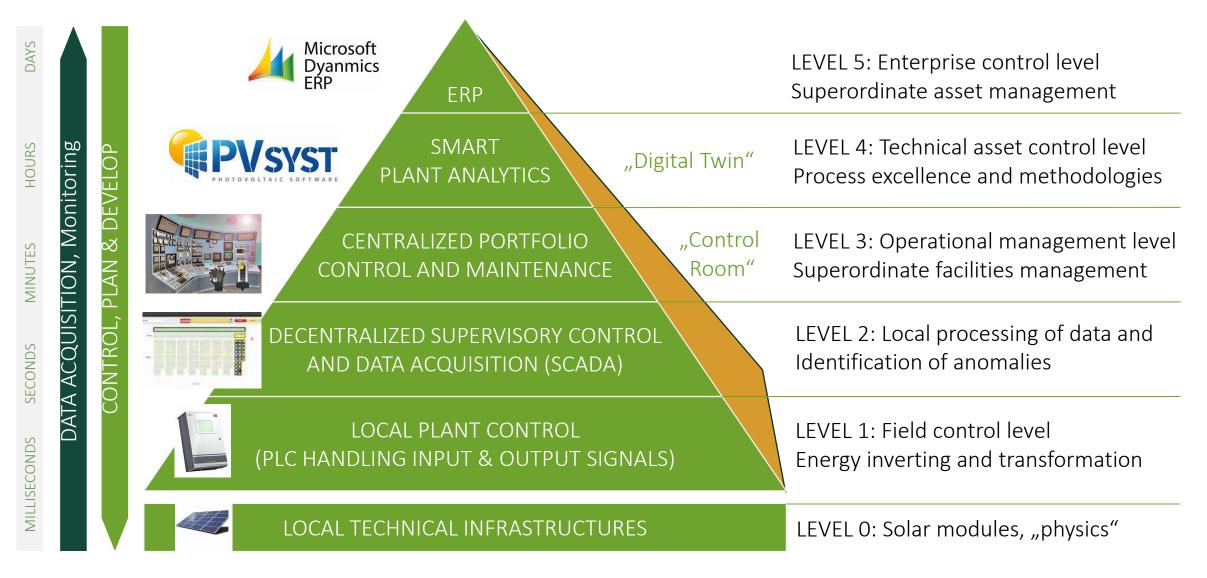
Work Order	Servicebericht
W030204	Wartung (Niederspannung)
1. Jul 2019	

D.2	Kabel und Leitungsanlage hält äußeren Bedingungen (Elsbildung, Wind, Temperatur, Einstrahlung) stand	x		
D.3	Kabel und Leitungen stichprobenartig auf unzulässig hohe Erwärmung kontrolliert	x		
D.4				
zusātzi	Ich bei Prüfung nach VDE 0126-23 / DGUV Vorschrift 3			
D.5	Komponenten sind ausreichend bemessen (Dauerbetrieb) und entsprechen der Anlagen-Dokumentation (bspw. Kabelquerschnitte, DC-Sicherungen)	x		
D.6	Komponenten sind ausreichend bemessen (höchstmögliche Spannung und höchstmöglichen Fehlerstrom)	x		
D.7	R _{iso} gemessen und dokumentiert	х		
D.8	Uoogemessen und dokumentiert	х		
D.9	lisc gemessen und dokumentiert	х		
D.10	Lastrennschalter (Gleichstrom) verbaut	х		
D.11	Kennzeichnung/Warnhinweis an GAK(s) vorhanden: "ACHTUNG! PV Generator führt auch im abgeschalteten Zustand Spannung"	x		
D.12	Beschrittungen der Leitungen / Betriebsmittel geprüft	х		
D.13				

E	WECHSELRICHTER	1.0.	nicht I.O.	nicht prüfbar	Hinwels
E.1	Standfestigkeit (feste Montage) kontrolliert	X			
E.2	auf äußerlich erkennbare (Feuchtigkeits-) Schäden wie Wassereintritt oder Kondensation kontrolliert (bei Zentrai-WR Inklusive Kabelkeiler)	x			
E.3	Abschirmfunktion des Gehäuses gegenüber der Umweit kontrolliert (bspw. Staub, Feuchtigkeit, Schmutz)	x			
E.4	Fehlerspeicher auslesen bzw. Fehlercode ablesen	х			
E.5	Ansaugriter, Filtermatten und/oder Ablutiventilatoren gereinigt/ausgetauscht	x			
E.6	Funktion von Ventilator /Belühungssystem geprüft	х			
E.7	aligemeine Sauberkeit kontrolliert und ggf. gereinigt	х			
E.8	Anschlüsse von Kabeln auf festen Sitz kontrolliert	х			
E.9	Funktionstest Not-Aus	х			
E.10	weitere Tätigkeiten gem. Wartungsanweisung des Herstellers durchgeführt	x			
zusātz	ich bei Prüfung nach VDE 0126-23 / DGUV Vorschritt 3				
E.11	Drehmomente gem. Herstellervorgaben geprüft	х			
E.12	Beschriftungen der Leitungen / Betriebsmittel geprüft	х			
E.13	Hinweisschilder, Prüfzeichen vorhanden	х			
E.14	Z, gemessen und dokumentiert	x			
E.15	Z _s gemessen und dokumentiert	x			

A WELL DESIGNED DATA STRATEGY IS KEY FOR SUCCESS

Example lead concept for Intelligent Information Management within OBTON's enterprise organization





THANK YOU



• Dr. Robin Hirschl

Chief Technical Officer, CTO Mobil:+45 2580 0919 Mail: roh@obton.com