Roxtec – World leader in cable and pipe seals
電纜及管道密封系統的世界領導者

Matthias Brück, Business Development Manager – Power

Roxtec

Superior sealing solutions for the Wind Industry
適用於風電產業的優質密封解決方案

- Innovative cable and pipe seals
  - 創新的電纜及管道密封
- Multidiameter™ – for a perfect fit
  - Multidiamter™ - 使完美契合
- Safety and operational reliability
  - 安全性及操作的可靠性
- Active in more then 80 Markets
  - 活躍於80多個市場

Protecting life and assets
保護生命及資產

It could also look like this
它也可能看起來像這樣

OWF Hornsrev 32m/s
Hornsrev海上風電場 32m/s

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What are the challenges?

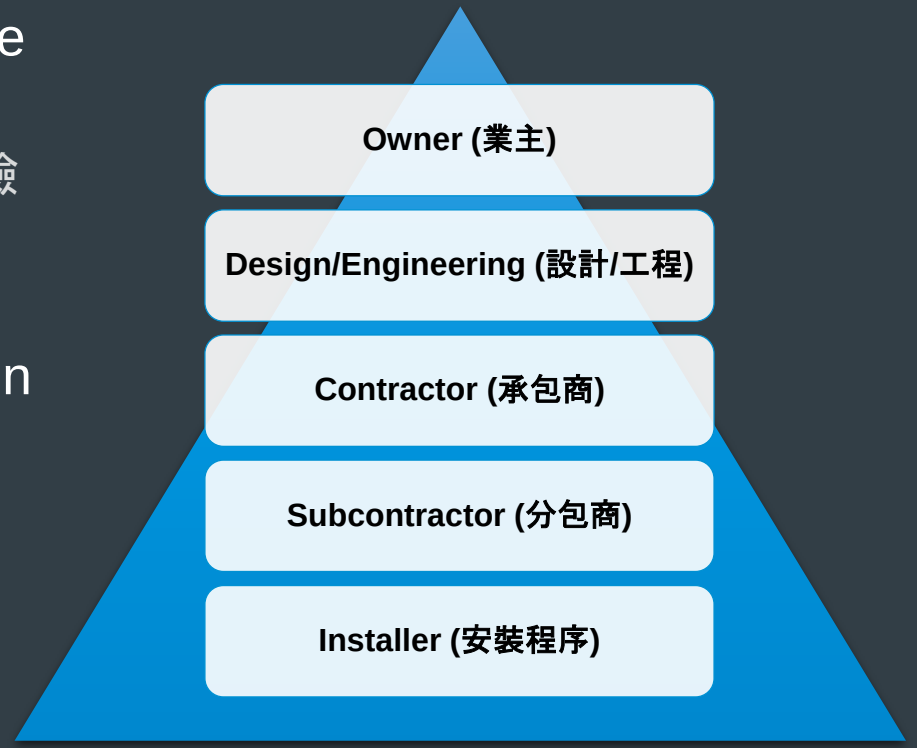
離岸風力主要挑戰

Challenges主要挑戰

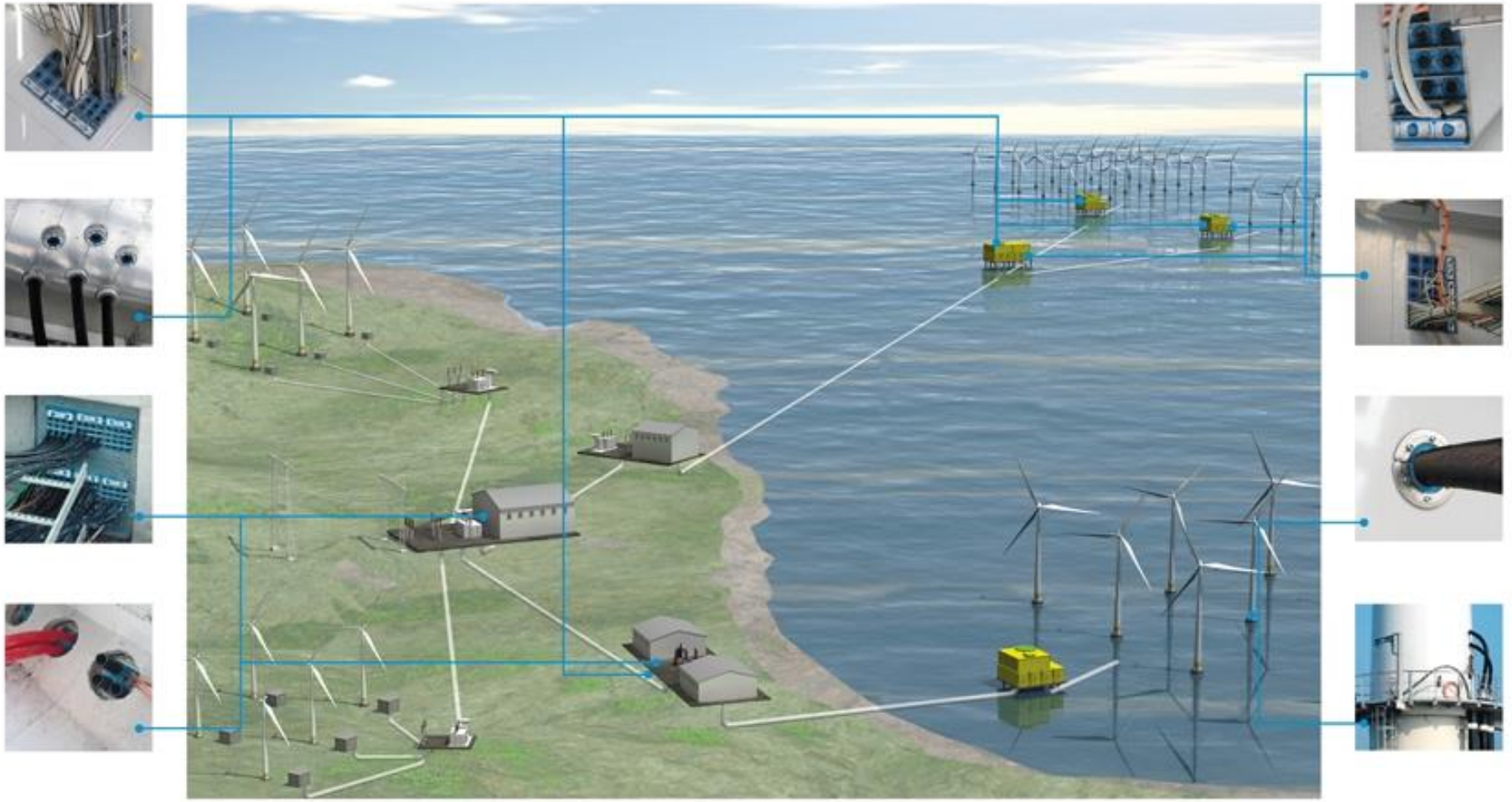
- Harsh Environment 惡劣的環境
- Corrosion 腐蝕
- Vibration 振動
- Cable retention 電纜保持力
- Weather Window (O&M) 不受氣候影響
- Serviceability 操作性能
- Flexibility 有彈性的

Values 價值主張

- Reducing Total Cost of Ownership 降低業主總成本
- Design Support in early Project phases 案件早期階段設計支持
- Follow the Projects from cradle to grave 自始至終全程服務案件
- Experience in more then 60 Offshore Wind Projects in Europe and more than 20 years in APAC Oil & Gas
  擁有歐洲60多個海上風電案件及亞太地區20多年的石油和天然氣經驗
- Installation Trainings 安裝培訓
- Inspection and Documentation before load out for Certification Body 裝貨之前為認證機構進行檢查及製作文件



Offshore Wind and Grid connection
離岸風力及網路連接



Roxtec

Focus Areas Offshore 離岸重點區域

HVDC Converter
HVDC轉換站

AC Substation
AC變電站

Foundations
基座

OSS Solutions
OSS解決方案

- HV / MV Cables HV/MV 電纜
- LV Cables LV 電纜
- Pipes for HVAC Systems and Fire Fighting HVAC 系統及消防管道
- Bus Ducts線槽
- Cabinet Solutions 箱櫃解決方案
- All including 包括:
  - Fire Certification 消防認證
  - Water tightness 水密性
  - EMC requirements EMC 需求
  - Cable retention and vibration dampening 電纜保持力及減振
- For Steelwalls, Floors and Sandwich Panels
  用於鋼牆、地板及夾層板

OSS Solutions
OSS解決方案

MV Cables 33KV / MV電纜 33KV

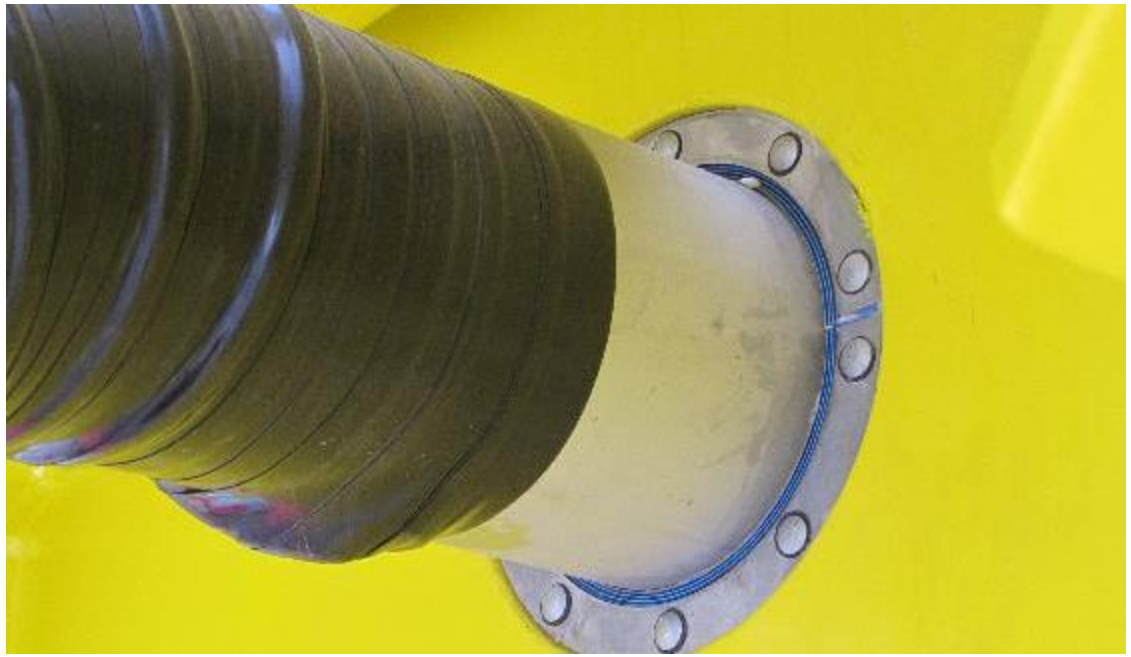
Transformer / 變壓器

Foundation Solutions
基座解決方案

- Single cable or Pipes
  - 單一電纜或管道
- Oval openings with multiple cables
  - 橢圓形開孔, 多條電纜
- Hangoff Cover and Hangoff Systems
  - 懸掛蓋及懸掛系統
- Special Stainless Steel for splash zones
  - 用於積水地區的特殊不鏽鋼

Foundation Solutions
基座解決方案

Ventilation Systems 通風系統



Airtight Deck 密閉甲板

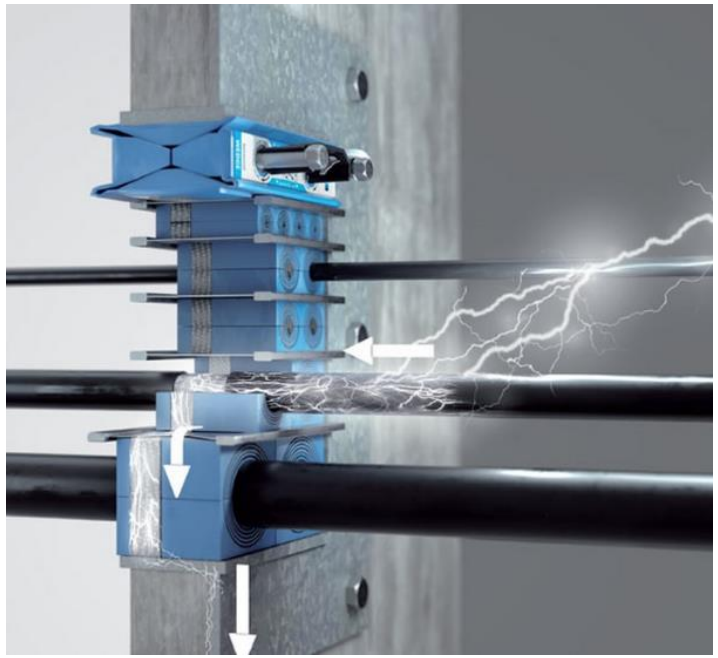
Focus Areas Onshore
陸上重點區域

HVDC Onshore Converter Station
HVDC轉換站

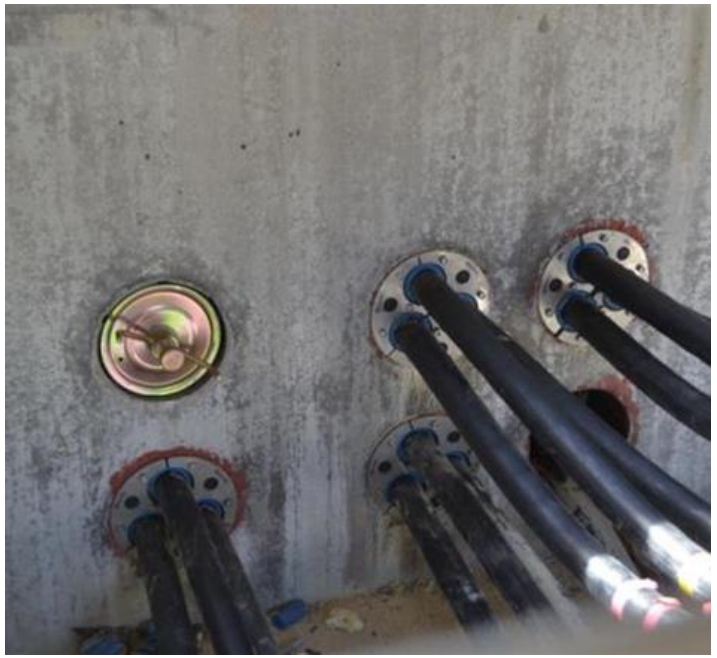
AC Onshore Connection
AC連接

Onshore Solutions
陸上解決方案

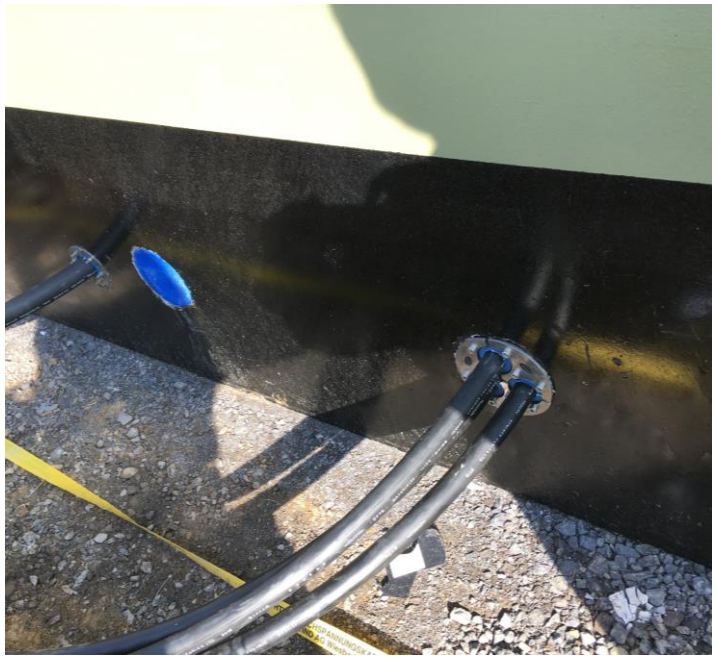
EMC Applications
EMC應用



Retrofit Applications underground
地下改造應用



KOS in Transformer Kiosk
KOS應用在變壓器亭



References 合作夥伴

Developer / Designer
開發者/設計者

- Ørsted
- WPD
- Vattenfall
- ABB
- Siemens
- GE Grid
- Ramboll
- COWI
- KCI
- and many more

Yards / Manufacturer
工作場所/製造商

- Engie Fabricom
- Bladt Industries
- EEW Special Pipes
- Smulders
- Iemants
- HSM
- Heerema
- Ambau
- and many more

Turbine Manufacturer
渦輪機製造商

- Siemens Gamesa
- MHI Vestas
- GE
- Senvion
- Hitachi
- Doosan
- Goldwind
- and many more

Roxtec Offshore Wind Reference List 2018-05

Roxtec

	Year	Project Name	Owner/Operator	Roxtec Customer	Countrybuilt in	Application	Products	Requirements	Transition pieces
61	2017	**Beatrice**	Bowl Ltd	Babcock/Siemens	UK	Offshore Substation	Splitplates, S-, RS-, A60/Water tigthness		R-Frames in Jackets
60	2017	**HornSea RC**	Orsted	Babcock	UK	Offshore Substation	Split plates, B-, H-Seals, RS-, A60, Water tightness		
59	2017-2018	**Hohe See**	ENBW	Engie Fabricom	GER	Offshore Substation	Rectangular, Round, Cabin	A-60, Water, Gas	Round Seals And Eliptical Seals
58	2016-201	**Deutsche Bucht**	Northland Power	Engie Fabricom	BEL	Offshore Substation	Rectangular, Round, Cabin	A-60, Water, Gas	Round Seals Standard and Customized
57	2016-20 7	**Borkum Riffgrund 2**	Dong Energy	HSM	NEL	Offshore Substation	Rectangular, Round, Cabin	A-60, Water, Gas	Round and Rectangular
56	2016-2 18	**Arkona**	E.ON	STX France	Frau	Offshore Substation	Rectangular, Round, Cabin	A-60, Water, Gas	Round Seals Standard and Customized
55	2015-2 14	**Merkur**	erkur Offshore	Engie Fabricom	BEL	Offshore Substation	Rectangular, Round, Cabin	A-60, Water, Gas	Round Seals Standard and Customized
54	2016-2 017	**Westermost Rough**	ong Energy	STX France	FRANCE	Offshore Substation	Rectangular, Round, Cabin	A-60, Water, Gas	Round Seals Standard and Customized
53	2016- 017	**West of Duddon Sands**	ong Energy	Engie Fabricom	BEL	Offshore Substation	Rectangular, Round, Cabin	A-60, Water, Gas	Round Seals Standard and Customized
52	2016- 018	**Nordergründe**	WPD AG	BVT Bremerhaven	GER	Offshore Substation	Rectangular, Round, Cabin	A-60, Water, Gas	Round Seals Standard and Customized
51	20 6	**Rampion**	E.on	Babcock	UK	Offshore Substation	S-Frames, RS-, A60, Water tightness		
50	20 6	**Dudgeon**	Statoil	Sembmarine SLP	UK	Offshore Substation	Customized H-Seals A60/Water tightness		Gx200 PS 90x120
49	20 5	**Gwynt y More**	RWE	Siemens T&D	UK	Offshore Substation	Customized H-Seals A60/Water tigthness		
48	2015-2 14	**Walney 3&4**	ong Energy	Engie Fabricom	BEL	Offshore Substation	Rectangular, Round, Cabin	A-60, Water, Gas	Round Seals Standard
47	2015-2 15	**Racebank**	ong Energy	Engie Fabricom	BEL	Offshore Substation	Rectangular, Round, Cabin	A-60, Water, Gas	Round Seals Standard
46	2015-20 6	**Burbo Bank Extension**	Dong Energy	Engie Fabricom	BEL	Offshore Substation	Rectangular, Round, Cabin	A-60, Water, Gas	Round Seals Standard
45	2015-20 6	**Nordsee One**	E.ON	Ambau	DEN	Transition Pieces	R-RS-Hseals	Water tightness	R-RS-H2-200
44	2015	**Sandbank**	Vattenfall	Bladt Industries/ EEW Special Pipe Construction	DEN	Offshore Substation/ TP´s	R-RS-Frames/S Frames	Fire/ Water tightness	R125-R150-RS300
43	2015	**Kentish Flats Extensio**	Vattenfall	Vestas	DEN	Tower Entries	R-Frames	Water tightness	R200
42	2015-2016	**Wikinger**	Iberdrola	Bladt Industries	DEN/ES	Jacket foundations	R-RS Frames	Water tightness	R150
41	2014-2015	**Dolwin Gamma**	TenneT	Nordic Yards / Alstom	GER	HVDC-Offshore Converter station, HV, MV, LV, Controls	SRC-Frames, SLFO, RS-, H-Seals	Fire / Water tightness	

Protecting life and assets

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