

Personal Profile

NAME Dr. Thomas G. REINDL

Date of birth 21 November 1968

Nationality German
Singapore PR (Permanent Resident)

Marital status: Married

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WORK EXPERIENCE

2013-present	Solar Energy Research Institute of Singapore (SERIS), National University of Singapore (NUS, #21 in the 2022 Times Higher Education World University Rankings) Deputy CEO Cluster Director, Solar Energy Systems Principal Research Fellow	Singapore
2010-2013	Solar Energy Research Institute of Singapore (SERIS), NUS Cluster Director, Solar Energy Systems Senior Research Fellow	Singapore
2008-2010	PROACTIVE new energy GmbH, Managing Director (formerly known as: ILIOTEC International GmbH)	Regensburg, Germany
2006-2007	ILIOTEC Solar GmbH, Chief Operating Officer	Regensburg, Germany
2004-2006	SIEMENS AG, Com Mobile Networks, Project Leader	Munich, Germany
2002-2004	SIEMENS AG, Corporate Strategies (CD S 7), Project Leader	Munich, Germany
1998-2000	SIEMENS Showa Solar Pte. Ltd., Marketing Manager Asia-Pacific	Singapore
1993-1996	SIEMENS AG, Corporate Research & Development, Project Manager	Munich, Germany

Major Achievements:

- Co-led largest applied solar energy research institute in Asia, achieving every single key performance indicator (KPI) over 2 funding cycles (8 years)
- Published >150 journal & conference papers with ~3.8k citations (h-index: 36)
- Authored major strategic paper: "Update of the Solar PV Roadmap for Singapore"
- Published two main guidelines on "Floating Solar", together with the World Bank
- Co-founded first conference series in the world dedicated to "Floating Solar", the International Floating Solar Symposium (IFSS), held annually since 2017
- Acquired research funding worth S\$32 mil over 5 years, incl. S\$4 mil from industry
- Developed innovative solar-powered streetlamp and founded spin-off company
- Achieved turn-around of a €80 mil company (ILIOTEC Solar)
- Acquired new key accounts and projects increasing sales by 20% within 1 year
- Established account-orientation and KPI systematic for worldwide sales force of 4,000
- Resolved discrepancy between volume and value planning at €1.3bn line-of-business
- Managed worldwide project on Crisis Management and Business Continuity Planning, covering 15 SIEMENS Groups in 90 countries
- Doubled sales in 2 years (S\$10.9 → S\$21.5 mil) at SIEMENS Showa Solar
- Initiated long-term projects worth S\$30 mil in revenues

Strategic Development and Implementation:

- Led strategic planning, content, budget and KPI negotiations with funding agencies for next 5-year funding cycle at SERIS (2022-2027)
- Proposed and negotiated budget (\$\$, manpower) for research clusters and groups
- Started new research group on Digitalisation of Energy to evolve PV innovations (2020)
- Initiated Energy Meteorology in 2013, now leading Solar Forecasting in the tropics
- Implemented portfolio management for research at the Solar Energy Systems cluster
- Established new business segment targeting financial investors at ILIOTEC
- Introduced comprehensive Account Strategy Planning for SIEMENS Mobile Networks
- Systematically developed Corporate Strategies based on detailed analysis of markets, their potentials and profitability in Business Concept projects in Germany and France

Personal Profile (Dr. Thomas Reindl), cont.

Management Experience:

- Co-heading as Deputy CEO largest applied solar energy research institute in Asia with up to 200 staff
- Built-up research department at SERIS/NUS with 50 staff (now largest cluster in SERIS)
- Headed solar systems integration & installation company with 200 employees
- Developed large-scale solar projects in Germany, Spain, Italy, and Czech Republic
- Led sales improvement project with 5 sub-modules and 45 Team members
- Managed Asian division of global key account team for multinational telecom companies
- Built company-wide network for SIEMENS-internal business (cross-selling)
- Headed team of 12 engineers and workers to plan, build and operate a new R&D lab

Finance & Controlling

- Initiated and implemented market- and business-driven approach of R&D topics
- Introduced TRL (technology readiness level) levels in research planning
- Set-up financial planning & controlling for €80 mil company (internal & external)
- Established strategic reporting & controlling in project business (opportunity tracking, share-of-wallet, bid quality index, employee productivity)
- Conducted close project controlling for high-profile projects at SIEMENS

Communication Skills

- Spokesperson of largest applied solar energy research institute in Asia
- Regular interactions with highest government reps (Ministers, Perm. Secr., DG level)
- Invited plenary and keynote speaker at leading conferences in Europe, Asia, and USA
- Featured in numerous print and TV interviews and documentaries
- Represented €80 mil company in front of various stakeholders
- Led crisis management during project difficulties (internal & external communication)
- Prepared several SIEMENS Corporate and Supervisory Board presentations

1997-1998

Yunnan Semiconductor Device Factory, Foreign Expert

Kunming, China

- Led joint-venture negotiations; developed detailed plan for equity shares, technology transfer and equipment supply
- Successfully met cultural challenge and politics of working in a Chinese state-owned company

EDUCATION

2001

INSEAD, *Master of Business Administration (MBA)*

Singapore / Fontainebleau, France

- MBA awarded “with Distinction” (top-10%)

1996-1997

Beijing Normal University, *Chinese Language Degree*

Beijing, China

- Selected for a German government scholarship (12 out of 1000 awarded)

1988-1996

Regensburg University, *Dr. rer. nat. and Diplom in Chemistry*

Regensburg, Germany

- Ph.D. awarded with “summa cum laude” = *highest honours* (2 out of 300 awarded)

LANGUAGES

German (mother tongue)
English (fluent)
Mandarin-Chinese (ok)

Personal Profile (Dr. Thomas Reindl), cont.

SCIENTIFIC PUBLICATIONS & IMPACT (Google Scholar, accessed on 08 Jan 2022)

- 153 publications (journals, conferences)
- ~85 in peer-reviewed journals
- Citation statistics:

Cited by	VIEW ALL	
	All	Since 2017
Citations	3777	3238
h-index	36	33
i10-index	80	73

AWARDS

- Received the “2018 ASEAN Energy Award – Special projects” for the Floating Solar PV testbed at Tengeh Reservoir, Singapore (on behalf of SERIS)
- Received the “Green Leadership Award” in 2017 presented by CMO Asia during the Asia Green Future Leaders Award ceremony. The award recognises individuals who have made substantial and forward-looking contributions in the area of Renewable Energies
- Received the prestigious “PVSEC Award” in 2016 which honours persons who have been devoting one-selves to the progresses of Photovoltaic Science and Engineering for many years.

MENTORSHIP

- Supervised and co-supervised 14 PhD and 1 Master students
- Key student achievements:
 - 1 high-impact paper which was cited in the news (incl. Forbes Magazine) >120 times and translated into >20 languages in the first month of publication
 - 2 PhD students received the “Springer Thesis Award” for scientific excellence and the high impact of the contents
 - 6 best paper awards at conferences

ACADEMIC SERVICES

- Editorial Board Member and Assistant Editor of the Springer journal “Renewables: Wind, Water and Solar”
- Scientific reviewer of manuscripts for several international journals, including JOULE (Cell Press), Solar Energy (Elsevier), Solar Energy Materials and Solar Cells (Elsevier), and Progress in Photovoltaics (Wiley)
- Invited Steering Committee member of the “1st International integrated PV application workshop” (to be held April 7-8, 2022), organised by Forschungszentrum Jülich
- Scientific Committee memberships (most recent):
 - SNEC 15th (2021) International Photovoltaic Power Generation Conference, in Shanghai, China (2-4 June 2021)
 - Co-Chair for Area 9 (“Module and System Reliability”) at the IEEE 48th Photovoltaic Specialists Conference (PVSC 48, 20-25 June 2021)
 - Co-Chair of Theme 4 (“Innovative PV Deployment”) at the Solar World Congress 2021 (25-29 Oct 2021), the flagship event of the International Solar Energy Society (ISES), held only once every two years

MEMBERSHIPS IN PROFESSIONAL ASSOCIATIONS

- Official Singapore representative in the international standard-setting body for PV systems: International Electrotechnical Commission (IEC), Technical Committee (TC) 82, Work Group 3 (Solar PV systems)
- Co-Convenor of the Workgroup on “Solar Energy Systems” at Enterprise Singapore, which overlooks all technical standards in Singapore,
- Member of the Sustainable Energy Associations of Singapore (SEAS)