

## SEKHAR KONDEPUDI (Dr)

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*PhD in HVAC & Energy Systems with 20+ years of global business and product experience in Energy, Buildings, Green Solutions, Utilities, Software and High Tech. Leadership roles in Fortune 100 companies (Cisco, Motorola, Sprint) and start-ups in business development, strategy, product design, development & management*



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### ACADEMIC QUALIFICATIONS:

- Ph.D. Texas A & M University, College Station, TX Mechanical Engineering 1988
- M.S Colorado State University, Fort Collins, CO Mechanical Engineering 1985
- B.S. Indian Institute of Technology, Bombay, India Mechanical Engineering 1983

### EMPLOYMENT RECORDS:

- 2012 - Present - National University of Singapore – Associate Professor, Department of Building
- 2007-12 Cisco Systems (San Jose CA & Bangalore India), Head, Product Management & Business Development Smart+ Connected Communities
- 2006-07 Wind River Systems, Alameda, CA, USA. General Manager, Mobile Handset Group
- 2002-06 Motorola / Freescale Semiconductor, Austin TX & Bangalore India. Director
- 2000-02 BRECIS Communications, Director
- 2000 Cisco Systems, Product Manager
- 1997 – 00 KONDEPUDI Strategies – San Jose, CA, Principal
- 1993- 97 Electric Power Research Institute (EPRI), Palo Alto CA Senior Program Manager
- 1991 – 93 Drexel University, Philadelphia, PA Asst. Professor, Dept. of Civil & Architectural Engineering
- 1991 – 93 US EPA Global Change Division, Washington D.C. Senior Research Program Manager
- 1988 – 91 American Standard (Trane) – Unitary Products Group, Tyler TX Senior Design Engineer

### ADMINISTRATIVE LEADERSHIP:

- Director, MSc. In Environmental Management Program, NUS, Aug 2016 - Present
- Director, MSc. In Integrated Sustainable Design, NUS, 2012 – Aug 2015

### **PROFESSIONAL/CONSULTING ACTIVITIES:**

- Smart Cities / Smart Green Buildings : Public and Private Sector Advisory
- Confederation of Indian Industries (CII) Invited Member, Technical Committee on Smart Green Cities in India
- United Nations (UN) - Consultant / Subject Matter Expert for Smart Sustainable Cities
- International Telecommunications Union (ITU) – Smart Cities
- Special invitee to SG 20 (ITU) : Standards Committee on IoT and Smart Cities
- Developing Global Standards for Smart Sustainable Cities including Definitions, KPIs & Indicators, Infrastructure (Buildings, Transportation Security, Education Healthcare, Water)
- Subject Matter Expert - Part of team which developed 14 Key Technical Reports.
- Authored 3 Technical Reports on Smart Buildings, Defining Smart Sustainable Cities & the Role of ICT in Smart Cities.
- CTO (Consulting) for Startups - Internet of Things (IoT), Smart Buildings and Social Energy
- Global Presentations & Trainings on Green ICT, Data Centers, Smart Buildings & Smart Cities, ITU Telecom World

### **UNDERGRADUATE TEACHING:**

- PF 1105 – Fundamentals of Facilities Management
- PF 3303 – Intelligent Facilities
- UTS 2302 – Singapore as a Smart Nation – IoT and Big Data

### **GRADUATE TEACHING:**

- BPS5226 Smart Buildings and Facilities
- ISD5101 – Integrated Sustainable Design Studio

### **RESEARCH INTERESTS:**

- Smart Buildings
- Smart & Sustainable Cities
- Internet of Things

### **SELECTED PUBLICATIONS:**

- Balaji Kalluri, Sekhar Kondepudi, Andreas Kamilaris, Kua Harn Wei and Tham Kwok Wai, “Applicability of using time series subsequences to study office plug load appliances” *Journal of Energy and Buildings*, **127** (Sept 2016), pp. 399-410.
- Andreas Kamilaris, Noor Danial and Sekhar Kondepudi, “Understanding the Activities and Areas of Concern of Elderly Population: The Case of Singapore”, *Journal of Technology and Disability*, **27** (2015) 141–153
- Andreas Kamilaris, Jodi Neovino, Sekhar Kondepudi and Balaji Kalluri, “A case study on the individual energy use of personal computers in an office setting and assessment of various feedback types towards energy savings”, *Journal of Energy and Buildings*, **104** (July 2015) pp. 73-86.

- Sekhar Kondepudi, Ramita Kondepudi: “What Constitutes a Smart City”. *Handbook of Research on Social, Economic, and Environmental Sustainability in the Development of Smart Cities* (2015) (pp. 1-25). Hershey, PA: IGI Global. doi:10.4018/978-1-4666-8282-5, Editors Vesco, A., & Ferrero, F.
- Andreas Kamlaris, Balaji Kalluri, Sekhar Kondepudi and Tham Kwok Wai, “A Literature Survey on Measuring Energy Usage for Plug Load based Equipment in Commercial Buildings”, *Renewable and Sustainable Energy Reviews* (Impact Factor: 5.63). January 2014; 34:536–550.

#### **AWARDS:**

- 2013 – Outstanding Teaching Award, School of Design & Environment , NUS
- 2010 – Cisco Employee Recognition Award
- 2009 – Cisco Employee Recognition Award
- 1987-88 ASHRAE Graduate Fellowship – 2 year award
- 1993-94 US EPA Young Investigator (Energy & Environment) – 2 year award
- 1994-95 Chair ASHRAE Technical Committee TC 1.1 Thermodynamics and Psychrometrics