

# Stephen Andrews CV



Lower Watts House · Park Street · Charlbury · Oxon OX7 3PS

Telephone 01608 811212

Mobile 0771 340 7771

Email [stephen.andrews@lowerwatts.co.uk](mailto:stephen.andrews@lowerwatts.co.uk)

[www.lowerwatts.co.uk](http://www.lowerwatts.co.uk)

## PERSONAL PROFILE

An experienced and professional commercial director and manager. Successfully founded, built up and managed a highly regarded European energy consultancy, and successful wind power development business.

## KEY EXPERTISE

- Energy policy and regulation
- Commercial Expertise
- International expert in distributed generation
- Non-executive director

## EXPERIENCE AND ACHIEVEMENTS

### Energy policy and regulation

- Expert witness at a power station enquiry regarding alternative siting of power stations; expert adviser at an NGC wayleave public enquiry
- Prepared and led numerous responses to consultation documents from government and regulator
- Carried out two major reviews of the structure of the Distribution Network Operators' charges for the UK and Australian electricity Regulators
- Advised generators on the regulatory implications for trading of the new UK electricity markets and, separately, for trading across and through interconnectors.
- Authored a number of key government reports on opportunities and barriers for renewable and small-scale generators
- Expert advisor and lead author on metering options for small scale renewable and CHP generation for Sustainable Energy Ireland
- Retained expert advisor for Sustainable Development Commission on reform of Ofgem duties to reflect environmental issues, and separately the Carbon Emissions Reduction Target (CERT)

## **Commercial Expertise**

- Assessment of business opportunities in the new electricity market in the UK, particularly for the development of new generation projects
- Rio Tinto Alcan (Lynemouth): retained adviser
- British Gas: strategic advice on electricity market entry
- BP Chemicals & Exploration: strategic advice on UK and European power generation opportunities
- EdF: negotiation of interconnector contract with National Grid Company and three-year power purchase agreement with all twelve Regional Electricity Companies
- Scottish Nuclear: business opportunities for wind energy
- Vattenfall, strategic advice to the board on UK market opportunities
- Yorkshire Water, North West Water, Alcan: major reports on their electricity procurement strategy, conducting subsequent annual electricity contract round
- Countryside Commission for Wales: strategy advice on wind turbine siting
- Exxon Coal and Minerals: strategic advice on electricity market entry
- Cairn Energy: power generation project revenue projections

## **International expert in distributed generation**

- Representation of the interests of independent distributed generators in the on-going process of development within the electricity market.
- Association of Electricity Producers (AEP): past retained adviser
- Combined Heat and Power Association: past retained adviser.
- North West Water: responsible for application of over forty renewable projects into two Non-Fossil Fuel Obligations.
- Electricity Network Strategy Group: generator representative on the Distribution Working Group and Horizon Scanning Group
- BERR: 'Future Network Architecture', (URN 07/1654) and 'Ancillary Service Provision from DG' (URN 04/1738)
- Renewable Energy and Energy Efficiency Partnership: Tradable Renewable Energy Certificates for Maharashtra
- Distribution Code: Review of Engineering Recommendation G75 and G59

## **Non-executive director**

- Energy4All: energy industry experience
- Westmill coop: adviser to board.
- Strategy Development Advisor, Energy, RPS Group

## **CAREER PROFILE**

2006 - to date	Founding Director, Lower Watts Consulting.
2006 - to date	Non-executive Director Energy4All
1989 - 2006	Founding partner, then Director, and finally Chairman, ILEX Energy Consulting.(acquired by Pöyry 2003)
1989	Founding Director, Windcluster
1987 – 1988	Senior Electrical and Project Engineer, Orchard Partners, consulting engineers.
1986-1987	Electrical Consultant to National Utility Services.
1982-1986	Commercial Engineer, then Manager with Associated Heat Services responsible for the operation of the mini-CHP business
1980-1982	Electrical Engineer with Wavepower Ltd.
1978-1980	Local Groups Co-ordinator Friends of the Earth.
1976-1978	Qualified Engineer, in the Measurements and Control Section of South Western Region of the Central Electricity Generating Board (CEGB).
1975-1976	Engineering assistant in the Transmission Section of CEGB, South Western Region.
1971-1975	Student apprentice with CEGB in conjunction with sandwich university course.

## **WORK RELATED ACTIVITIES**

1984	Chair of working group to advise and develop new ESI engineering recommendations (G59) for the connection of private generation to low voltage grid.
1986	Witness to the House of Commons Select Committee on Energy on the operation of the 1983 Energy Act.
1987-89	Founding Director, Association of Independent Electricity Producers.
1988	Expert witness at Hinkley C Inquiry on alternative transmission links.
1990 - 2001	Independent Generators' representative on the Grid and Distribution Code Review Panel.
1996-98	Member of Electricity Association working group developing a Code of Practice for exempt electricity suppliers.

- 1999 Member of Special expert group formed by Ofgem to advise and consider aspects of the New Electricity Trading Arrangements (NETA).
- 1999 - 2005 Generator representative on DTI/Ofgem Embedded Generation Working Group Generator representative on DTI/Ofgem Distributed Generation Technical Steering Group

## KEY CONFERENCE PRESENTATIONS

- 1982 IEE: Effects of Wave Energy Generation.
- 1986 IEEE: Integration of small scale generation into the Grid..
- 1988 Energy Economy **Copenhagen**: Costs of standby power and pricing of buy-back electricity in the UK.
- 1989 British Wind Energy Association & (separately) Waste Processing Association: The Electricity Act and opportunities for the Future.
- 1994 CHPA AGM: Developments in the electricity market, implications for combined heat and power.  
  
EC Co-generation conference, **Prague**: New Markets, new opportunities.
- 1995 The Finnish & Nordic Electricity Markets, **Helsinki**: Contracting in a deregulated market.  
  
Electricity Production in Scotland, **Edinburgh**: Reflections on generation case study.
- 1996 International Landfill Gas Conference, Opportunities for small scale generators post 1998.
- 1997 International Renewable Energy Markets, Pricing and Economics Establishing the mechanics of future growth within the renewables market.
- 2004 International Senior Forum, **Beijing**: Distribution network regulation and operation for a sustainable energy future
- 2008 Stakeholders workshop, **Mumbai** : Tradable Renewable Energy Certificates in Maharashtra.

## EDUCATION

BSc (Hons) Electrical and Electronic Engineering, 1975, Bath University  
Associated sandwich graduate training leading to trained engineer status