



“WIND POWER – The Danish Way” can be ordered from www.poullacour.dk.

Price:

For delivery in Denmark: 175 DKK, including VAT and shipment costs.

For delivery outside Denmark: 35 EUR, including VAT and shipment costs.



Copenhagen



When in Denmark, come visit Poul la Cour’s test centre in Askov on the Jutland peninsula. This historical monument operates today as an activity centre of sustainable energy and a museum of Poul la Cour’s work. For an appointment, please call (+45) 2763-7036 or send an e-mail to plc@poullacour.dk.



The Poul la Cour Foundation
www.poullacour.dk

WIND POWER THE DANISH WAY



From Poul la Cour to Modern Wind Turbines



The Poul la Cour Foundation 2009

“WIND POWER – The Danish Way” is the first book in English covering the modern history of Danish wind power development – from Poul la Cour’s first electricity generating windmill in 1891 to today’s large and efficient wind turbines.

It is essential reading for everybody interested in modern wind power.

The book’s ten chapters have been written by experts in wind power technology, history, business and economics, with a foreword by Connie Hedegaard, the Danish minister of climate and energy.

From Poul la Cour to Modern Wind Turbines

To understand the worldwide success of Danish wind turbines over the last decades, it is essential to look back on more than 100 years of wind power history in Denmark.

A central person in this history is the scientist, inventor and teacher Poul la Cour. His experiments with wind power, hydrogen and aerodynamics — starting in Askov in 1891 — were far ahead of his time. And his education of “wind electricians” 10 years later helped to bring electricity to Danish villages and rural areas.

The roots of modern wind power in Denmark are much more than that, however. This is also the story about how a multitude of small and medium-sized enterprises delivered more than 15,000 “wind motors” from 1905-1920 and made wind power an essential energy source for farms in the most windy parts of Denmark. From 1920 through the Second World War, the development continued, particularly in pioneering aerodynamic blade designs

When the new Danish wind energy pioneers started experimenting with wind turbines after the oil crises in 1973-74 and 1979, they had a strong historical foundation to build upon. This is the first publication, describing this long line of development to an international public. It is illustrated by a unique collection of historical photographs — many of which have never been published before.

CHAPTER 1:

The Scientist, inventor and Teacher Poul la Cour,

by Povl-Otto Nissen, M.A. (Physics Education), Chairmans if the Board, The Poul la Cour Museum’s Friends.

CHAPTER 2:

The Experimental Windmills at Askov 1891-1903,

by Therese Quistgaard, M.A. (History), Board Member of the Poul la Cour Foundation.

CHAPTER 3:

Electricity and Wind Power for the Rural Areas 1903-1915,

by Jytte Thorndahl, M.A. (Social Anthropology), Senior Curator, The Danish Museum of Electricity

CHAPTER 4:

Danish Windmill Production Before and After Poul la Cour - and the First “Golden Age” of Wind Power 1900-1920,

by Benny Christensen, M.Sc.(Mech.Eng.), Board member of the danish Wind Historical Collection.

CHAPTER 5:

A Time for Survival and Development 1920-1945,

by Jytte Thorndahl and Benny Christensen

CHAPTER 6;

Johannes Juul and the Birth of Modern Wind Turbines,

by Jytte Thorndahl

CHAPTER 7:

The New Wind Power Pioneers and the Emergence of the Modern Wind Industry,

by Preben Maegaard, Nordic Folkecenter for Renewable Energy.

CHAPTER 8:

Public Initiatives and Industrial Development after 1979,

by Birger T. Madsen. B.Sc. (Mech.Eng.) BTM Consult ApS, Board Member in the danish Wind Historical Collection

CHAPTER 9:

International Perspectives on the History of Danish Wind Power,

by Kristian Hvidtfelt Nielsen, Associate professor, Dept. of Science Studies, Aarhus University.

CHAPTER 10:

Facts about Wind Energy in Denmark 2009,

by Birger T. Madsen