

CONTENTS

FOREWORD <i>by</i> Beauchamp E. Smith	v
PREFACE	vii
INTRODUCTION <i>by</i> Vannevar Bush	xi
CHAPTER	
I Personalities and History of the Smith-Putnam Wind-Turbine Project, 1934-1945	I
II How Does Wind Behave? Our Assumptions of 1939	15
III The Special Wind-Research Programs, 1940-1945	41
IV Behavior of Wind in the Mountains of New England, 1940-1945	58
V The Power in the Wind and How to Find It	88
VI Designs of Other Big Windmills, 1920-1933	98
VII Development, Fabrication, and Erection of the Test Unit, 1939-1941	109
VIII Test and Operation of the Smith-Putnam Wind-Turbine, 1941-1945	125
IX The Best Size for a Large Wind-Turbine	134
X The Design of a Preproduction Model, 1943-1945	157
XI Economics of Large-Scale Wind-Power	173
XII Ways to Reduce the Cost of Wind-Power	199
XIII The Future of Wind-Power	208
BIBLIOGRAPHY	213
INDEX	210