

like the late venerable Richard Reynolds, travelling to see the last expiring English furnace, before he emigrated to distant regions.*

Fortunately, however, we have in South Wales, adjoining the Bristol Channel, an almost exhaustless supply of coal and ironstone, which are yet nearly unwrought. It has been stated in the present chapter, that this coal-field extends over about twelve hundred square miles, and that there are twenty three beds of workable coal, the total average thickness of which is 95 feet, and the quantity contained in each acre is 100,000 tons, or 65,000,000 tons per square mile. If from this we deduct one half for waste, and for the minor extent of the upper beds, we shall have a clear supply of coal, equal to 32,000,000 tons per square mile. Now, if we admit that the five millions of tons of coal from the Northumberland and Durham mines is equal to nearly one third of the total consumption of coal in England, each square mile of the Welsh coal-field would yield coal for two years' consumption; and as there are from one thousand to twelve hundred square miles in this coal-field, it would supply England with fuel for two thousand years, after all our English coal mines are worked out.

It is true, that a considerable part of the coal in South Wales is of an inferior quality, and is not at present burned for domestic use; but in proportion as coal becomes scarce, improved methods of burning it will assuredly be discovered, to prevent any sulphurous fumes from entering apartments, and also to economize the consumption of fuel in all our manufacturing processes.

N. B. These observations are taken from one of the author's geological lectures, which he has occasionally delivered in some of the principal mining districts in England: considering the great national importance of our coal mines, he trusts he shall be excused for inserting them in the present volume.

* The late Richard Reynolds, Esq. of Bristol, so distinguished for his unbounded benevolence, was the original proprietor of the great iron-works in Colebrook Dale, Shropshire. Owing, I believe, partly to the exhaustion of the best workable beds of coal and ironstone, and partly to the superior advantages possessed by the iron-founders in South Wales, the works at Colebrook Dale were finally relinquished, a short time before the death of Mr. Reynolds. With a natural attachment to the scenes where he had passed his early years, and to the pursuits by which he had honorably acquired his great wealth, he travelled from Bristol into Shropshire, to be present when the last of his furnaces was extinguished, in a valley where they had been continually burning, for more than half a century.