


县域经济产业结构 演变与生态化提升

——基于福建省三明市的实证研究

县域经济增长强劲态势与生态环境资源有限性间的矛盾，对一国或地区经济发展水平和经济增长模式有着深远影响。

苏迎平◎著

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摘 要

县域经济增长强劲态势与生态环境资源有限性间的矛盾，对一国或地区经济发展水平和经济增长模式有着深远影响。县域经济产业结构演变、产业高级化和产业生态化等正成为中国县域经济发展的战略核心问题，协调县域产业内外部之间多样化与专业化之间、内生力量与外生力量之间和县域经济产业发展与生态文明之间的关系是中国现代化进程中的重大命题。如何降低能源消耗总量及提高利用效率，选择一条节能环保的能源道路迫在眉睫，尤其对于传统意义上的山区县，通过加快发展生态工业这一绿色县域产业平台，对解决山区能源短缺，倡导生态文明，建设美丽家园具有重要的战略意义。

三明市地处福建省西北部，是新兴的工业城市，作为福建省重工业和原材料基地，目前拥有全省最大的钢铁、化肥、水泥、煤炭、森工等企业，随着生态文明的崛起，要求三明市走生态立市的道路。三明市具有地理区位独特、生态环境优美、技术人才雄厚、矿产资源丰富、政策支持等优势，拥有做强传统产业，开拓新兴产业的基础条件，三明生态工贸区也是福建省十大新增长区中唯一著有“生态”两个字的工贸区。通过县域产业结构演变带动产业发展的潜力是巨大的，政府应该借鉴其他产业发展强县的经验，明确三明市县域经济产业发展战略定位，坚持生态建城、产业进园、注重第三产业发展质量等与时俱进的策略以消除传统产业弊端，制定相应的法律、法规或条例，完善政府的产业引导体系，调整县域三次产业的发展步伐，扎实产业基础，协调轻重产业比例，做大做强传统产业，提升高新技术产业的比

重，处理好城市规划区、产业集聚区和生态保护区的三区一体的关系，构建具有竞争性的生态产业链，形成以生态产业集群为特色的工业园区，为其发展提供重要驱动力。

近年来，尽管生态工业园区这一新兴产业载体引起社会重大关注与热点解析，在学术研究领域，对如何运用产业经济学理论促进县域经济产业结构演变与生态工业园产业化发展相结合尚缺乏系统研究。本书正是基于此提出研究思路，以福建省三明市所属大田等 11 个县域经济体为典型区域以及三明生态工贸区为主要研究对象，对于县域经济产业的发展具有重要的现实意义。

本研究的思路为：以县域经济产业结构演变和生态文明崛起为切入点，引发对县域产业升级机理与生态工业园区政策的思索。首先，通过对国内外产业演变状况、可持续发展理论与实践、国内外对生态工业园区模式与循环经济研究动态及成果的综合评述，结合三明市矿产资源状况、生态环境及县域经济产业结构的优势与潜力为研究背景，强调走绿色高级化的产业道路是三明市县域经济产业结构演变的必然选择，以及生态工业园区作为新兴产业载体在政府产业政策中的重要性。其次，基于生态文明视角下对三明市县域经济产业结构演变方向的审视，通过生态工业园区布局优化和传统优势产业、特色产业提升、县域经济产业内生机理分析，建议三明市所属县域经济以生态工业园绿色平台为载体，支持政府发展新兴产业、高新技术产业方向的政策思路，加快县域经济产业结构的整体提升。最后，通过对大田县县域经济产业结构演变的典型案例，揭示中国特色县域经济产业结构演化的主要影响因素及其机理，借鉴国外生态工业园发展模式及通过三明市生态工贸区典型案例分析，构建生态文明理念指导下三明市县域经济产业结构演化的指标体系与发展模型，对三明市县域经济产业结构的现状作出分析，就如何加强相关产业政策的拟定与推动，为县域实现工业化、城镇化和农业现代化设提供决策建议。按照研究思路，本研究主要围绕以下五部分内容展开：

第一部分是生态文明理念下国内外产业结构演变和三明市整体产业背景的分析。首先,介绍生态文明视角下国外产业结构演变的实践,并与中国产业演化模式进行比较,发现两者起点的不同,决定了路径的不同。其次,对中国县域经济产业结构演变实践进行分析,同时对国内外生态经济产业发展现状进行比较分析,查找异同点。最后,对三明市所属县域经济体产业结构演变的实践及模式进行归纳、规范化分析。

第二部分是县域经济产业结构演化路径的机理分析框架。这一部分主要是基于中国特色县域经济结构演化的特殊性和复杂性,通过借鉴有关理论,分析县域经济产业结构演进的“三个关系”和“九个因素”,即县域经济产业结构演变与生态因素的关系、县域经济产业结构演变的内生力量与外生力量的关系、县域产业分工与集聚的关系及其影响县域经济产业结构演变的区位条件、县域经济发展水平、农业发展水平、要素禀赋、技术条件、农户家庭经营、市场需求、制度与政策等因素,在此基础上,构建县域经济产业结构演变路径的机理分析框架。“三个关系”、“九个因素”相互作用的结果导致的特殊性和复杂性决定了必须走中国独有的县域经济产业结构演变道路。

第三部分主要利用福建省三明市所属 11 个县域经济体 1991—2011 年产业数据进行实证分析,验证县域经济产业结构演变的机理。通过因子分析法对三明市县域竞争力进行评价;建立聚类分析模型对三明市县域经济的竞争力进行归类;通过灰色模型对三明市县域主要产业指标进行预测;利用偏离—份额模型对三明市县域经济三次产业的结构和竞争力分量进行分析,明确三明市整个地区的产业状况;通过建立多元回归模型和面板数据模型,按照县域经济产业结构演变路径机理分析框架,选取相关的指标,对三明市县域经济产业结构演变的影响因素进行定量分析;运用产业重心轨迹分析法研究产业结构演变的两种模式:一是右旋模式,包括三明市辖区、永安市、大田县、将乐县、尤溪

县、沙县和泰宁县；二是左旋模式，包括明溪县、清流县、宁化县和建宁县。

第四部分个案研究。这一部分首先以三明市大田县为例，通过 1991—2010 年大田县产业数据，对其县域经济产业演进历程进行分析，补充验证县域经济产业结构演变机理，揭示产业结构演进的一般路径。对大田县的产业结构演变历程进行分析，了解其轨迹。分阶段寻找其主要影响因素及路径特征，以此研究县域经济产业结构生态化的路径。研究发现，大田县虽然位于福建省中北部发展程度较低的三明市，其工业化进程却走在福建省中部山区县前列，走出了一条自发性、内生为主、外生拉动、县域三次产业发展并重、分工与集聚相结合的县域经济产业结构演变道路。补充验证上述研究结论，大田县以农业为起点的山区县域经济产业结构演变路径具有一般性的意义。其次是生态工业园的典型实践与经验分析。介绍了发达国家不同的生态工业园模式，如丹麦、美国和日本的模式，总结其生态工业园发展模式的总体特征和经验。重点介绍了生态文明下县域经济产业提升的集中体现——三明生态工贸区的生态典型实践，主要对三明生态工贸区内的产业链、产业集群与产业布局进行分析，其中经济开发新兴产业园区、高新技术产业园区、现代物流开发园区，作为推动县域经济产业发展新平台，为三明市在生态文明崛起的时代背景下，县域经济结构产业演变提供了模式借鉴。

第五部分是对中国特色的县域经济产业结构生态化的对策建议。基于以上对县域经济产业结构演变路径的机理分析及实证研究，提出在生态文明视角下，推进县域产业经济产业结构生态化的若干对策建议：①倡导低碳经济，突出战略性产业引领，实现县域经济绿色崛起；②完善正向激励机制，构筑县域绿色生态屏障，引导县域产业结构生态化；③突破传统产业模式，实施县域生态产业化和产业生态化双向战略；④依靠产业转型升级，促进产业与生态耦合，共建县域生态文明。

三明市产业结构演变与产业发展态势为中国县域产业生态化提供了很好的观察样本与实践土壤，同时产业的生态化理论又为三明市产业机制调整与产业内部升级换代提供了很强的理论支撑和现实指导，两者相互印证。

关键词：三明市；县域经济产业结构；演变；生态文明；生态工业园

Abstract

The contradiction between the strong trends of the county economic growth and the limitation of the eco-environmental resources, which has a deep influence on the economic growth level and economic increase model of a country or area. The industrial structure evolution and economic industry of the county economic are becoming the strategic core issue of the county economic development in china and coordinating the relationship between diversification and professionalism in the inside and outside of the county economic and the relationship between the county economic development and ecologic civilization is the important proposition of the china' s modernization. It is very urgent that how to improve the total energy consumption and utilization efficiency and choosing a clean and green energy path, especially for the mountainous counties in traditional sense, by speeding up the development of the green county industrial platform-ecological industry, which has an important strategic significance to solve the mountain energy shortages, promote the ecological civilization and build the ecological homestead.

As the heavy industry and raw materials base of Fujian province and a new city, Sanming is located in the northwest of Fujian province, which currently has the largest steel, fertilizer, cement, coal, forest industry enterprises in Fujian province. With the rise of the ecological civilization, it requires that San-

ming city to take the road of the ecological concept of city and county. At present, Sanming city is in the middle stage of industrialization, its traditional model of the economic development leads to the characteristics of the “three high and one low” and “two big and two small” which still continues. Sanming city has advantages such as unique geographical location, beautiful ecological environment, abundant technical talent, rich mineral resources and policy support, and the basic conditions of making the traditional industry stronger and developing the new industry. The potential for the industrial development which is driven by the county industrial structure evolution is enormous. The government should draw lessons from the advanced experience of other strong industrial county, clear the strategic development position of the county economic industry in Sanming city, adhere to the strategies which keep with the times such as constructing an ecologic city and industrial park, focusing on the development of tertiary industry to eliminate the drawbacks of the traditional industry, formulate the relevant laws, rules and regulations, perfect the government industrial guide system, adjust the pace of developing the county three industry, solid the industrial base, coordinate the proportion between the light and heavy industry, make the traditional industry bigger and stronger, improve the proportion of the high-tech industry, deal with the trinity relationship between the city planning area, industrial cluster district and ecological protection zone, construction the competitive ecological industrial chain, integrated promote the characteristic ecological industrial park and provide the important driving force for the development of the characteristic eco-industrial park.

In recent years, despite the new industrial carrier which is eco-industrial park has caused the social great concern and hot spot analysis, in the field of academic research, how to apply the theory of the industrial economics to promote to combine the county economic industrial structure evolution with the industrial development of the eco-industrial park is short of systematic research. Based on these research ideas and taking Sanming city in Fujian province as the typical region and Sanming eco-industrial area as the main research object, this paper has the important practical significance.

The research thought of the paper takes the county economic industrial structure evolution and the rise of ecological civilization as the starting point, and causes the consideration of the county industrial upgrading mechanism and the eco-industrial park policy. Through the evolution situation of industry at home and abroad, the theory and practice of sustainable development, the comprehensive review of the eco-industrial park model and the research trends and achievements of circular economy at home and abroad, taking the state of mineral resources, ecological environment and the of the advantage and potential of county economic industrial structure as the research background, this paper emphasizes that the green advanced industrial road is the inevitable choice of the county economic industrial structure evolution in Sanming city and the importance of the eco-industrial park as a new industry carrier in the government industrial policy. Secondly, based on the inspection of the county industrial structure evolution direction from the perspective of the ecological civilization, through the layout of the eco-industrial park, enhancing the traditional industry, characteristic industry and anal-

ysis of the mechanism analysis of the county economic industry, this paper suggests that the county economics in Sanming city should take the eco-industrial park-green platform as the carrier, support the policy ideas of the government developing the direction of new industry and high-tech industry, and speed up the overall upgrade of the county economic industrial structure. Finally, by discussing the typical cases of the economic industrial structure evolution of Datian county, this paper reveals the main influencing factors and mechanism of the Chinese characteristic county economic industrial evolution, draws lessons from the model of foreign eco-industrial park development, discusses the typical case of eco-industrial and trade zone in Sanming city, builds the development model and index system of the county economic industrial structure evolution of Sanming city under the guidance of concept of ecological civilization, analyze the status quo of the county economic industrial structure of Sanming city, and offer decision-making suggestions how to strengthen to formulate and promote the relevant industry policy and county achieve industrialization, urbanization and agriculture modernization. According to the research thought, this paper focuses on the following six parts:

The first part is the analysis of the industrial structure evolution at home and abroad and the whole industrial background of Sanming city, under the ecological civilization. Firstly, the author introduces the practice of foreign industrial structure, compares with Chinese industrial evolution model, and then finds that the difference between the starting point of them, which determine the different paths. Secondly, the author analyzes the practice of Chinese county economic industrial structure, com-

pared and analyzed the study on industrial structure evolution at home and abroad from the perspective of the ecological civilization, and then finds out the same and different points. Finally, the author makes a comparative analysis of the practice and model of the county economic industrial structure evolution of Sanming city, Fujian province.

The second part is about the mechanism analysis frame of the county economic industrial structure evolution path. Based on the particularity and complexity of the Chinese characteristics county economic structure evolution, by drawing the lessons of the relevant theory, the author analyzes “three relations” and “nine factors” of the county economic industrial structure evolution, that is, the relationship between the county economic industrial structure evolution and ecological factors, the relationship between endogenous power and exogenous power of the county economic industrial structure evolution, the relationship between division and agglomeration of the county new and the factors such as the location condition, county economic development level, agriculture development level, factor endowments, technical conditions, rural household management, market demand, policy and countermeasure, which impact on the county economic industrial structure evolution. On this basis, the author builds the mechanism analysis frame of the county economic industrial structure evolution path. The particularity and complexity caused by the result of the interaction between “three relations” and “nine factors” have determined that Sanming city should take Chinese unique county economic industrial structure evolution road.

The third part used the industrial data of 11 county econom-

ics in Fujian province from 1991 to 2010 to make an empirical analysis and verified the mechanism of county economic industrial structure evolution. The author evaluates the county competitiveness of Sanming city by used factor analysis method, establishes clustering analysis model to classify the county economic competitiveness of Sanming city, predicts the county main industrial indexes of Sanming city by grey model, uses shift-share model to analyze the structure and competitiveness of three industry of Sanming county economics, clears the industrial state of whole area of Sanming city, selects the relevant indexes and quantitatively analyzes influencing factors of county economic industrial structure evolution in Sanming city through establishing the multiple regression model and panel data model and according to the mechanism analysis frame of the county economic industrial structure evolution path, uses the industrial focus trajectory analysis method to discuss two models of industrial structure evolution which one is dextral model, including Sanming city area, Yongan county, Datian county, Jiangle county, Youxi county, Shaxian county and Taining county, the other one is left lateral model, including Mingxi county, Qingliu county, Ninghua county and Jianning county.

The forth part is case study. Firstly, taking Datian county as example, through the industrial data of Datian County from 1990 to 2010, the author analyzed its county economic industrial evolution process, adds to verify the mechanism of county economic industrial structure evolution, and reveals the general path of industrial structure evolution. This part analyzes the different periods of the economic industrial evolution process of Datian County and knew its trajectory. The author looks for its main in-

fluencing factors and path characteristics and studied the path of county economic industrial structure evolution. The study finds that despite Datian county is located in Sanming city whose development degree is relatively low in the mid-north Fujian province, and its industrialization process which is a spontaneous, endogenous dominated, exogenous pulling, equal importance for three industries of county, combining division and agglomeration county economic industrial structure evolution path is in the front of counties of Fujian province, and adds to verify the conclusion of the study. The mountainous county economic industrial structure evolution path of Datian County which takes agriculture as starting point has general significances. Second is about the typical practice and empirical analysis of eco-industrial park. The author introduces the different eco-industrial park model of the developed countries, such as Denmark, America and Japan and summarizes the general characteristics and experience of its eco-industrial park development model. The author presents ecological typical practice of Sanming eco-industrial and trade zone which is the centralized reflection of county economic industrial development under the ecological civilization, mainly analyzes the industrial chain, industrial cluster, industrial layout in Sanming eco-industrial and trade zone, especially economic developing emerging industrial park, high-tech industrial park and modern logistics developing park as new platform of Sanming county economic industrial development provides model used for reference for Sanming county economic structure industrial evolution in the background of the rise of ecological civilization.

The fifth part is about the general path and countermeasures of Chinese characteristic county economic industrial structure e-

volution. Firstly, on basis of the theory analysis and empirical research on the mechanism of the county economic industrial structure evolution path, the author reveals the main content of county economic industrial structure evolution and established the general path frame chart. Based on the above research, the author proposed several suggestions to promote ecological trend of county economic industrial structure from the perspective of ecological civilization as follows; firstly, advocate low-carbon economics, prominent strategic industry to lead and realize the rise of county green economics; secondly, improve the positive incentives, build the county green ecological barrier and realize ecological trend of county industrial structure; thirdly, carry out the county strategy of “ecological industrialization, industrial ecology”; fourthly, depend on industrial transformation and upgrading, promote industrial and ecological coupling and build county ecological civilization.

Industrial structure evolution and developing trend of Sanming city provides Chinese county industrial ecological trend for good observation sample and practical soil. At the same time, industrial ecology theory also provides strong theoretical support and practical guidance for industrial adjustment mechanism and industry inner upgrading. Both of them confirm mutually.

Keywords: Sanming city; county economic industrial structure; evolution; ecological civilization; eco-industrial park

摘要

Abstract

1 导言	1
1.1 问题的提出与研究意义	1
1.1.1 世界范围内产业发展的深刻演变	1
1.1.2 中国县域经济产业结构演变的理论与实践	3
1.1.3 研究的重要意义	6
1.2 研究的主要目标、假设与内容	7
1.2.1 研究的主要目标	7
1.2.2 研究的假设	8
1.2.3 研究的主要内容	8
1.3 研究的基本思路与技术路线	9
1.4 本书框架	11
1.5 研究数据来源与研究方法	12
1.5.1 研究数据来源	12
1.5.2 研究的主要方法	13
1.6 相关概念界定	13
1.6.1 县域经济	13