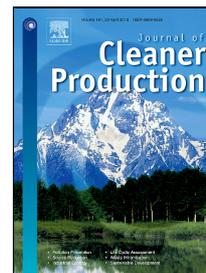


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Standards requirements and a roadmap for developing eco-industrial parks in Vietnam



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# 1 Standards requirements and a roadmap for 2 developing eco-industrial parks in Vietnam

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10 Keywords: eco-industrial park, participatory method, standards, indicators, resource efficiency

11 Abstract:

12 The number of industrial parks has increased steadily worldwide, especially in industrializing and  
13 emerging economies. However, most industrial parks are still being planned, built, and managed with  
14 little concern for resource efficiency and social and environmental impacts. In response, eco-industrial  
15 parks (EIPs) are currently being considered in many developing and transition economies. The absence of  
16 a replicable deployment method and a normative standard for EIPs, or even of a widely accepted  
17 definition, results in difficulties in finding a flexible, but robust management scheme and related  
18 indicators adapted to such complex industrial systems.

19 This paper aims to address EIP implementation and monitoring by providing a new approach to EIP  
20 development in Vietnam as part of the United Nations Industrial Development Organization's cleaner  
21 production program. It fills a gap in research about how to engage in EIPs at a national level when know-  
22 how and general resource efficiency level are low. The methodology proposed establishes a bottom-up  
23 participative process adapted to transition and developing economies to foster EIP emergence and define  
24 minimum requirements, related indicators, and a continuous improvement method. A two-day expert  
25 group meeting took place in Vietnam in September 2016. A participative approach was applied over three  
26 work sessions. This national consultation resulted in a joint definition and vision of EIPs in Vietnam,

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